IBM Storage Protect for Cloud Microsoft 365

User Guide



Note:

Before you use this information and the product it supports, read the information in <u>"Notices" on page</u> 313.

Edition Notice (June 2024)

This edition applies to IBM[®] Storage Protect for Cloud (product number 5900-AP6) all subsequent releases and modifications until otherwise indicated in new editions.

[©] Copyright International Business Machines Corporation 2022, 2024.

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

Contents

About this publication	ix
Who should read this publication	ix
What's new	Xİ
Chapter 1 About IBM Storage Protect for Cloud Microsoft 365	1
Multi-Geo Support	ב פ
Recovery Portal for End Users	0 9
Solit-Off and Pause Backups	,
Data Encryption Methods	,
List of On-Demand Features	10
Microsoft Graph API Beta Version in Use	
Chanter 2 Use Cases	13
Lice Case - Want to Delegate Pectare Permissions?	12
Use Case - Want to Delegate Restore Permissions :	10 12
Use Case - Want to Restore SharePoint Online Data?	13 1 /
Use Case - Want to Restore OneDrive Data?	±4 1 /
Use Case - Wall to Restore Microsoft 265 Croups Data?	14
Use Case - Want to Restore Project Opline Data?	כב זר
Use Case - Want to Destore Public Felder Date?	14
Use Case - Wall to Restore Fublic Folder Data?	10 16
Use Case - Wall to Restore Teams Chat Massages?	±0
Use Case - Want to Destore Vive Engage Date	/⊥
Use Case - Wall to Reside Viva Eligage Data	
Encrypted Eiloc2	17
Eliciypieu Files:	⊥/ 10
Use Case - When Do I Need Container Specific Retention Policies?	18
Charter 2. Supported Browsers	24
Chapter 3. Supported Browsers	, ∠⊥
Chapter 4. FAOs	23
License and Subscription	23
Security and Integrity	25
Public APIs	26
Backup and Restore	<u>2</u> 6
Notification	<u>2</u> 0 29
Storage	
Chapter 6. Get Started	31
Enable Backun Service	31
Evenance Online	
SharePoint Online	
	۲2 ۲۷
Microsoft 365 Groups	
Teame	
Teame Chat	סכ סכ
reams unat	/ د مد
Public Folder	

Viva Engage	
Power Automate	40 41
Power Apps	
Configure Auto Discovery	43
Authentications in Auto Discovery and Backup	44
Required Permissions	45
Service Account Authentication (Obsolete)	45
App Profile Authentication	
Set Up the Backup Wizard	
Chapter 7. Monitor and Manage Your Backup	59
Chapter 8. Configure Notifications	61
Chapter 9. Change the Backup Scope	63
Chapter 10. Change the Backup Frequency	65
Chapter 11. Disable a Backup	67
Chapter 12. Configure Backup Settings	
On-Demand Backup Settings	
Export Encryption Key	71
Chapter 13. Manage Your Storage	73
Allow IBM Storage Protect for Cloud Agent Servers to Access Your Storage Account	74
Change Storage Location	76
Storage Information	77
Amazon S3	
Microsoft Azure Blob Storage	,
FTP	
SFTP	
Dropbox	82
IBM Storage Protect - S3	82
IBM Cloud Object Storage	83
Chanter 14. Configure Retention Policy	85
Chapter 15. Account Management	87
Create a Security Group	87
Chapter 16. Configure End-User Restore Settings	89
Chapter 17. Export Encryption Key	91
Chapter 18. Configure Mapping Settings	
User Mapping	
Create a New User mapping profile	
Language Mapping	94
Create a new Language mapping Profile	
Domain Mapping	
create a new Domain Mapping prome	

Export Exchange Online Data. 97 Export OneDrive Data. 98 Export OneDrive Data. 99 Export OneDrive Data. 100 Export Teams Data 101 Export Teams Chat Messages. 102 Export Teams Chat Messages. 103 Export Teams Chat Messages. 103 Export Power BI Data. 106 Export Power Automate Data. 106 Download the Exported Data. 106 Download the Exported Data. 106 Download the Exported Data. 107 Get Password. 108 Chapter 20. Restore and Recover Your Data. 109 Reistore NarePoint Online Data. 110 Restore Point Online Data. 110 Restore Point Online Data. 110 Restore Point Online Data. 120 Restore Point Online Data. <th>Chapter 19. Export and Download Your Data</th> <th></th>	Chapter 19. Export and Download Your Data	
Export SharePoint Online Data. 98 Export Microsoft 365 Groups Data. 99 Export Microsoft 365 Groups Data. 100 Export Project Online Data. 101 Export Teams Data. 102 Export Teams Chat Messages. 103 Export Ware flagge Data. 106 Export Power Automate Data. 106 Export Power Automate Data. 106 Export Vower Automate Data. 106 Download the Exported Data. 107 Order Password. 108 Chapter 20. Restore and Recover Your Data. 109 Restore BarePoint Online Data. 109 Restore Poince Data. 110 Restore Poince Data. 112 Restore Poince Online Data. 112 Restore Poince Online Data. 120 Restore Poince Online Data. 120 Restore Poince Online Data. 129 Restore Viva Engage Data. 120 Restore Viva Engage Data. 120 Restore Viva Engage Data. 120 Restore Viva Engage Data. 129 Restore Viva Engage Data. 120 Restore	Export Exchange Online Data	
Export OneDrive Data. 99 Export Project Online Data. 100 Export Terms Data 101 Export Terms Data. 102 Export Terms Chat Messages. 103 Export Terms Chat Messages. 103 Export Tower Automate Data. 104 Export Power Automate Data. 106 Download the Exported Data. 106 Download the Exported Data. 106 Download the Exported Data. 107 Get Password. 108 Chapter 20. Restore and Recover Your Data. 109 Restore Exchange Online data. 110 Restore FarePoint Online Data. 112 Restore Project Online Data. 120 Restore Project Offer Data. 120 Restore Project Offer Data. 129 Restore Project Online Data. 129 Restore Project Access requesta. 130 <t< td=""><td>Export SharePoint Online Data</td><td></td></t<>	Export SharePoint Online Data	
Export Project Online Data. 100 Export Project Online Data. 101 Export Teams Data. 102 Export Treams Data. 102 Export Treams Data. 104 Export Power Bloga Data. 104 Export Power Automate Data. 105 Export Power Automate Data. 106 Download the Exported Data. 106 Download the Exported Data. 107 Get Password. 108 Chapter 20. Restore and Recover Your Data. 109 High Speed Migration (HSM) Restore Method. 100 Restore Rechange Online data. 110 Restore Microsoft 365 Groups Data. 120 Restore Microsoft 365 Groups Data. 120 Restore Microsoft 365 Groups Data. 120 Restore Public Folder Data. 127 Restore Public Folder Data. 129 Restore Via Engage Data. 139 Data Data ebiscovery. 139 <tr< td=""><td>Export OneDrive Data</td><td></td></tr<>	Export OneDrive Data	
Export Project Online Data. 101 Export Teams Data. 102 Export Teams Data. 103 Export Teams Data. 104 Export Power Automate Data. 105 Export Power Automate Data. 106 Download the Exported Data. 106 Download the Exported Data. 107 Get Password. 108 Chapter 20. Restore and Recover Your Data. 109 Restore Exchange Online data. 110 Restore SharePoint Online Data 112 Restore Polity Data. 116 Restore Polity Data. 116 Restore Polity Data. 124 Restore Polity Data. 124 Restore Polity Data. 124 Restore Viva Engage Data. 129 Backup Data eDiscovery. 139 Data Wing Engage Data. 141 Remove Unprotected Data. 141 Remove Unprotected Data. 143 Microsoft 365 Services. 143	Export Microsoft 365 Groups Data	
Export Teams Chat Messages 103 Export Teams Chat Messages 103 Export Power Bit Data 104 Export Power Automate Data 106 Export Power Automate Data 106 Download the Exported Data 106 Chapter 20. Restore and Recover Your Data 107 Get Password 108 Chapter 20. Restore and Recover Your Data 109 High Speed Migration (HSM) Restore Method 109 Restore SharePoint Online Data 110 Restore SharePoint Online Data 120 Restore Project Online Data 120 Restore Viva Engage Data 121 Restore Viva Engage Data 129 Restore Viva Engage Data 120 </td <td>Export Project Online Data</td> <td></td>	Export Project Online Data	
Export View Engage Data. 103 Export View Engage Data. 104 Export Power Alpto Data. 105 Export Power Alpto Data. 106 Download the Exported Data. 107 Get Password. 108 Chapter 20. Restore and Recover Your Data. 109 High Speed Migration (HSM) Restore Method. 109 Restore Exchange Online data. 110 Restore Exchange Online Data. 112 Restore DataPeoint Online Data. 112 Restore PharePoint Online Data. 124 Restore Project Online Data. 120 Restore Project Online Data. 129 Restore Public Folder Data. 129 Restore Viva Engage Data. 139 Data Subject Access requests. 140 Manually Delete Backup Data. 141 Remove Unprotected Data. 141 Remove Platform. 143 Unitization Tab. 144 Utilization Tab. 144 View	Export Teams Data	
Export Viva Engage Data	Export Teams Chat Messages	103
Export Power Alt Data. 105 Export Power Apps Data. 106 Export Power Apps Data. 107 Get Password. 108 Chapter 20. Restore and Recover Your Data. 109 High Speed Migration (HSM) Restore Method. 109 Restore Exchange Online data. 110 Restore SharePoint Online Data. 112 Restore OneDrive Data. 112 Restore Project Online Data. 124 Restore Project Online Data. 124 Restore Project Online Data. 126 Restore Project Online Data. 127 Restore Viva Engage Data. 127 Restore Viva Engage Data. 129 Backup Data eDiscovery. 139 Backup Data eDiscovery. 139 Data Subject Access requests. 140 Manually Delete Backup Data. 141 Remove Unprotected Data. 141 Remove Unprotected Data. 143 Microsoft 365 Services. 143 Usage Tab. 144 Power Platform. 144 Power Platform. 144 Power Platform. 144	Export Viva Engage Data	
Export Power Apps Data. 106 Download the Exported Data. 107 Get Password. 108 Chapter 20. Restore and Recover Your Data. 109 High Speed Migration (HSM) Restore Method. 109 Restore Exchange Online data. 110 Restore Exchange Online Data. 112 Restore OneDrive Data 112 Restore OneDrive Data. 112 Restore Project Online Data. 124 Restore Project Online Data. 127 Restore Public Folder Data. 129 Restore Public Folder Data. 129 Restore Viva Engage Data. 139 Backup Data eDiscovery. 139 Data Subject Access requests. 140 Manually Delete Backup Data. 141 Chapter 22. View Subscription Consumption Report. 143 Microsoft 365 Services. 143 Usage Tab. 144 Power Platform. 144 Power Platform. 144 Power Platform. 147 Usage Tab. 148 Usage Tab. 144 Power Platform. 148 <	Export Power BI Data	
Export Power Apps Data 106 Download the Exported Data 107 Get Password 108 Chapter 20. Restore and Recover Your Data 109 High Speed Migration (HSM) Restore Method. 109 Restore Exchange Online data 110 Restore SharePoint Online Data 112 Restore OneDrive Data 112 Restore Project Online Data 120 Restore Project Online Data 127 Restore Project Online Data 127 Restore Project Online Data 129 Restore Project Online Data 129 Restore Public Folder Data 127 Restore Viva Engage Data 129 Restore Viva Engage Data 129 Restore Viva Engage Data 139 Backup Data eDiscovery 139 Data Subject Access requests 140 Manually Delete Backup Data 141 Remove Unprotected Data 141 Chapter 22. View Subscription Consumption Report 143 Uigage Tab 144 Power Platform 144 Power Platform 144 Use the Job Analytics Re	Export Power Automate Data	
Download the Exported Data. 107 Get Password. 108 Chapter 20. Restore and Recover Your Data. 109 High Speed Migration (HSM) Restore Method. 109 Restore Exchange Online data. 110 Restore OneDrive Data. 112 Restore OneDrive Data. 112 Restore OneDrive Data. 120 Restore OneDrive Data. 121 Restore OneDrive Data. 127 Restore OneDrive Data. 127 Restore Project Online Data. 127 Restore Project Online Data. 129 Restore Vublic Folder Data. 129 Restore Viva Engage Data. 139 Backup Data eDiscovery. 139 Backup Data Boliscovery. 139 Data Subject Access requests. 140 Manually Delete Backup Data. 141 Remove Unprotected Data. 143 Microsoft 365 Services. 143 Usage Tab. 144 Utilization Tab. 144 Power Platform. 144 View Storage Consumption Report. 144 Usage Tab. 144	Export Power Apps Data	
Get Password.108Chapter 20. Restore and Recover Your Data.109High Speed Migration (HSM) Restore Method.109Restore Exchange Online data.110Restore SharePoint Online Data.112Restore Microsoft 365 Groups Data.120Restore Project Online Data.124Restore Public Folder Data.127Restore Public Folder Data.129Restore Public Folder Data.129Restore Public Folder Data.129Restore Public Folder Data.139Backup Data eDiscovery139Data Subject Access requests.140Manually Delete Backup Data.141Remove Unprotected Data.143Microsoft 365 Services.143Uriorsoft 365 Services.143Microsoft 365 Services.144Utilization Tab.144Power Platform.144Power Platform.145Chapter 23. Audit User Activities in System Auditor.147View Storage Consumption Report.148View the Charts for Backup Jobs.148View the Charts for Backop Jobs.148View the Charts for Backop Jobs.148View the Charts for Restore Jobs.149View the Charts for Restore	Download the Exported Data	
Chapter 20. Restore and Recover Your Data. 109 High Speed Migration (HSM) Restore Method. 109 Restore Exchange Online data. 110 Restore SharePoint Online Data. 112 Restore OneDrive Data. 112 Restore Project Online Data. 112 Restore Project Online Data. 124 Restore Public Folder Data. 127 Restore Viva Engage Data. 129 Restore Viva Engage Data. 139 Backup Data eDiscovery. 139 Data Subject Access requests. 140 Manually Delete Backup Data. 141 Chapter 22. View Subscription Consumption Report. 143 Microsoft 365 Services. 143 Uillization Tab. 144 Utilization Tab. 144 Vew Platform. 144 Utilization Tab. 144 View Storage Consumption Report. 147 View Storage Consumption Report. 148 Use the Job Analytics Report. 148 Use the Job Analytics Report. 148 View the Charts for Backup Jobs. 148 View the Report. 148	Get Password	
High Speed Migration (HSM) Restore Method.109Restore Exchange Online data.110Restore SharePoint Online Data.112Restore OneDrive Data.112Restore Project Online Data.112Restore Project Online Data.124Restore Project Online Data.127Restore Public Folder Data.129Restore Viva Engage Data.139Backup Data eDiscovery.139Data Subject Access requests.140Manually Delete Backup Data.141Chapter 22. View Subscription Consumption Report.143Microsoft 365 Services.143Usage Tab.144Utilization Tab.144Power Platform.144Utilization Tab.144Wer Platform.144Usage Tab.144Usage Tab.148Use the Job Analytics Report.148Use the Job Analytics Report.148View the Charts for Backup Jobs.148View the Charts for Restore Jobs.148View the Report.149Nierwordt 365 Dinusual Activities Analysis Report.149View the Coverage Report.150View the Coverage Report.150View the Coverage R	Chapter 20. Restore and Recover Your Data	
Restore Exchange Online data. 110 Restore SharePoint Online Data. 112 Restore OneDrive Data. 116 Restore Microsoft 365 Groups Data. 120 Restore Public Folder Data. 124 Restore Public Folder Data. 129 Restore Teams Data. 129 Restore Viva Engage Data. 139 Backup Data eDiscovery. 139 Data Subject Access requests. 140 Manually Delete Backup Data. 141 Remove Unprotected Data. 141 Remove Unprotected Data. 143 Microsoft 365 Services. 143 Usage Tab. 144 Power Platform. 144 Power Platform. 144 Chapter 23. Audit User Activities in System Auditor. 145 Chapter 24. Reporting for IBM Storage Protect for Cloud. 147 View Storage Consumption Report. 148 View the Charts for Backup Jobs. 148 Overview for Loge-Running SharePoint Online/Exchange Online Backups. 148 View the Charts for Restore Jobs. 148 View the Charts for Restore Jobs. 148 View the	High Speed Migration (HSM) Restore Method	
Restore SharePoint Online Data. 112 Restore OneDrive Data. 116 Restore Microsoft 365 Groups Data. 120 Restore Project Online Data. 124 Restore Public Folder Data. 127 Restore Public Folder Data. 129 Restore Viva Engage Data. 129 Restore Viva Engage Data. 139 Backup Data eDiscovery. 139 Data Subject Access requests. 140 Manually Delete Backup Data. 141 Remove Unprotected Data. 141 Remove Unprotected Data. 143 Uicage Tab. 144 Utilization Tab. 144 Power Platform. 143 Chapter 23. Audit User Activities in System Auditor. 145 Chapter 24. Reporting for IBM Storage Protect for Cloud. 147 Usage Tab. 148 Use the Job Analytics Report. 148 View Storage Consumption Report. 148 View the Charts for Backup Jobs. 148 View the Charts for Backup Jobs. 148 View the Charts for Restore Jobs. 148 View the Report. 149	Restore Exchange Online data	
Restore OneDrive Data. 116 Restore Project Online Data. 120 Restore Public Folder Data. 124 Restore Public Folder Data. 127 Restore Teams Data. 129 Restore Viva Engage Data. 134 Chapter 21. Data Management. 139 Data subject Access requests. 140 Manually Delete Backup Data. 141 Remove Unprotected Data. 141 Chapter 22. View Subscription Consumption Report. 143 Microsoft 365 Services. 143 Uilization Tab. 144 Power Platform. 144 Chapter 23. Audit User Activities in System Auditor. 145 Chapter 24. Reporting for IBM Storage Protect for Cloud. 147 View Storage Consumption Report. 148 Use the Job Analytics Report. 148 View the Charts for Bactor Jobs. 148 View the Charts for Bactor Jobs. 148 View the Charts for Bactor Jobs. 148 View the Report. 149 View the Charts for Restore Jobs. 148 View the Charts for Restore Report. 149 View the Re	Restore SharePoint Online Data	
Restore Microsoft 365 Groups Data. 120 Restore Project Online Data. 124 Restore Public Folder Data. 127 Restore Teams Data. 129 Restore Viva Engage Data. 134 Chapter 21. Data Management. 139 Backup Data eDiscovery. 139 Data Subject Access requests. 140 Manually Delete Backup Data. 141 Remove Unprotected Data. 141 Chapter 22. View Subscription Consumption Report. 143 Microsoft 365 Services. 143 Usage Tab. 144 Utilization Tab. 144 Power Platform. 144 Chapter 23. Audit User Activities in System Auditor. 145 Chapter 24. Reporting for IBM Storage Protect for Cloud. 147 View Storage Consumption Report. 148 Usage Tab. 148 Overview for Long-Running SharePoint Online/Exchange Online Backups. 148 View the Charts for Backup Jobs. 148 View the Report. 149 View the Charts for Restore Jobs. 148 View the Charts for Restore Jobs. 148 View the	Restore OneDrive Data	
Restore Project Online Data.124Restore Public Folder Data.127Restore Teams Data.129Restore Viva Engage Data.134Chapter 21. Data Management.139Backup Data eDiscovery.139Data Subject Access requests.140Manually Delete Backup Data.141Remove Unprotected Data.141Chapter 22. View Subscription Consumption Report.143Microsoft 365 Services.143Usage Tab.144Power Platform.144Power Platform.144Chapter 23. Audit User Activities in System Auditor.145Chapter 24. Reporting for IBM Storage Protect for Cloud.147View Storage Consumption Report.148Usage Tab.148Use the Job Analytics Report.148View the Charts for Backup Jobs.148Use Microsoft 365 Unusual Activities Analysis Report.148View the Charts for Restore Jobs.148Use Microsoft 365 Unusual Activities Analysis Report.149View the Charts for Restore Report.149Netrosoft 365 Unusual Activities Analysis Report.149View the Report.150Details.151Chapter 25. Job Monitor.153	Restore Microsoft 365 Groups Data	
Restore Public Folder Data. 127 Restore Teams Data. 129 Restore Viva Engage Data. 134 Chapter 21. Data Management. 139 Backup Data eDiscovery. 139 Data Subject Access requests. 140 Manually Delete Backup Data. 141 Remove Unprotected Data. 141 Chapter 22. View Subscription Consumption Report. 143 Microsoft 365 Services. 143 Usage Tab. 144 Utilization Tab. 144 Power Platform. 144 Chapter 23. Audit User Activities in System Auditor. 145 Chapter 24. Reporting for IBM Storage Protect for Cloud. 147 View Storage Consumption Report. 147 Usage Tab. 148 Use the Obd Analytics Report. 148 View the Charts for Backup Jobs. 148 View the Charts for Backup Jobs. 148 View the Charts for Restore Jobs. 148 View the Report.	Restore Project Online Data	
Restore Teams Data. 129 Restore Viva Engage Data. 134 Chapter 21. Data Management. 139 Backup Data eDiscovery. 139 Data Subject Access requests. 140 Manually Delete Backup Data. 141 Remove Unprotected Data. 141 Chapter 22. View Subscription Consumption Report. 143 Microsoft 365 Services. 143 Usage Tab. 144 Utilization Tab. 144 Power Platform. 144 Chapter 23. Audit User Activities in System Auditor. 145 Chapter 24. Reporting for IBM Storage Protect for Cloud. 147 View Storage Consumption Report. 147 View Storage Consumption Report. 148 Use the Job Analytics Report. 147 View the Charts for Backup Jobs. 148 View the Charts for Rescre Jobs. 148 View the Charts for Backup Jobs. 148 View the Charts for Rescre Jobs. 148 View	Restore Public Folder Data	
Restore Viva Engage Data. 134 Chapter 21. Data Management. 139 Backup Data eDiscovery 139 Data Subject Access requests. 140 Manually Delete Backup Data 141 Remove Unprotected Data. 141 Chapter 22. View Subscription Consumption Report. 143 Microsoft 365 Services. 143 Usage Tab. 144 Utilization Tab. 144 Power Platform. 144 Chapter 23. Audit User Activities in System Auditor. 145 Chapter 24. Reporting for IBM Storage Protect for Cloud. 147 View Storage Consumption Report. 144 Use the Job Analytics Report. 148 View the Charts for Backup Jobs. 148 View the Charts for Restore Jobs. 148 Use Microsoft 365 Unusual Activities Analysis Report. 149 View the Charts for Restore Pobs. 148 Use the Job Analytics Report. 149 View the Charts for Restore Report. <td>Restore Teams Data</td> <td></td>	Restore Teams Data	
Chapter 21. Data Management.139Backup Data eDiscovery.139Data Subject Access requests.140Manually Delete Backup Data.141Remove Unprotected Data.141Chapter 22. View Subscription Consumption Report.143Microsoft 365 Services.143Usage Tab.144Power Platform.144Chapter 23. Audit User Activities in System Auditor.144Chapter 24. Reporting for IBM Storage Protect for Cloud.147View Storage Consumption Report.147Usage Tab.148Use the Job Analytics Report.148View the Charts for Backup Jobs.148View the Charts for Restore Jobs.148Use Microsoft 365 Unsual Activities Analysis Report.149View the Charts for Restore Jobs.149View the Report.149View the Report.150Details.151Chapter 25. Job Monitor.153	Restore Viva Engage Data	134
Backup Data eDiscovery. 139 Data Subject Access requests. 140 Manually Delete Backup Data 141 Remove Unprotected Data. 141 Chapter 22. View Subscription Consumption Report. 143 Microsoft 365 Services. 143 Usage Tab. 144 Utilization Tab. 144 Power Platform. 144 Chapter 23. Audit User Activities in System Auditor. 145 Chapter 24. Reporting for IBM Storage Protect for Cloud. 147 View Storage Consumption Report. 144 Use the Job Analytics Report. 148 View the Charts for Backup Jobs. 148 View the Charts for Restore Jobs. 148 View the Charts for Restore Jobs. 148 View the Report. 149 Niew the Report. 149 View the Report. 149 View the Report. 149 <td>Chapter 21. Data Management</td> <td></td>	Chapter 21. Data Management	
Data Subject Access requests140Manually Delete Backup Data141Remove Unprotected Data141Chapter 22. View Subscription Consumption Report143Microsoft 365 Services143Usage Tab144Utilization Tab144Power Platform144Chapter 23. Audit User Activities in System Auditor145Chapter 24. Reporting for IBM Storage Protect for Cloud147View Storage Consumption Report147Usage Tab148Use the Job Analytics Report148View the Charts for Backup Jobs148View the Charts for Restore Jobs148View the Charts for Restore Jobs149View the Report149View the Report149View the Report149View the Report149View the Report149View the Report149Korey ConeDrive to a Healthy State149View the Coverage Report150Details151Chapter 25. Job Monitor153	Backup Data eDiscovery	
Manually Delete Backup Data	Data Subject Access requests	
Remove Unprotected Data.141Chapter 22. View Subscription Consumption Report.143Microsoft 365 Services.143Usage Tab.144Utilization Tab.144Power Platform.144Chapter 23. Audit User Activities in System Auditor.145Chapter 24. Reporting for IBM Storage Protect for Cloud.147View Storage Consumption Report.147Usage Tab.148Use the Job Analytics Report.148View the Charts for Backup Jobs.148Overview for Long-Running SharePoint Online/Exchange Online Backups.148View the Charts for Restore Jobs.149View the Report.149View the Report.149View the Report.149View the Report.149Niew the Charts for Restore Jobs.148Use the Ind-User Restore Report.149Niew the End-User Restore Report.150View the End-User Restore Report.150Details.151Chapter 25. Job Monitor.153	Manually Delete Backup Data	
Chapter 22. View Subscription Consumption Report. 143 Microsoft 365 Services. 143 Usage Tab. 144 Utilization Tab. 144 Power Platform. 144 Chapter 23. Audit User Activities in System Auditor. 145 Chapter 24. Reporting for IBM Storage Protect for Cloud. 147 View Storage Consumption Report. 147 Usage Tab. 148 View Storage Consumption Report. 147 Usage Tab. 148 View thorage Consumption Report. 147 Usage Tab. 148 Use the Job Analytics Report. 148 View the Charts for Backup Jobs. 148 Overview for Long-Running SharePoint Online/Exchange Online Backups. 148 View the Charts for Restore Jobs. 148 Use Microsoft 365 Unusual Activities Analysis Report. 149 View the Report. 149 Recover OneDrive to a Healthy State. 149 View the End-User Restore Report. 150 Use withe Coverage Report. 150 Use withe Coverage Report. 150 Details. 151	Remove Unprotected Data	
Microsoft 365 Services 143 Usage Tab. 144 Utilization Tab. 144 Power Platform. 144 Chapter 23. Audit User Activities in System Auditor. 145 Chapter 24. Reporting for IBM Storage Protect for Cloud. 147 View Storage Consumption Report. 147 Usage Tab. 148 Use the Job Analytics Report. 148 View the Charts for Backup Jobs. 148 Overview for Long-Running SharePoint Online/Exchange Online Backups. 148 View the Charts for Restore Jobs. 149 View the Report. 149 View the Report. 149 View the Charts for Restore Jobs. 149 View the Charts for Restore Jobs. 149 View the Report. 149 View the Report. 149 View the Report. 149 View the Coverage Report. 150 Use the Coverage Report. 150 Details. 151	Chapter 22. View Subscription Consumption Report	
Usage Tab.144Utilization Tab.144Power Platform.144Chapter 23. Audit User Activities in System Auditor.145Chapter 24. Reporting for IBM Storage Protect for Cloud.147View Storage Consumption Report.147Usage Tab.148Use the Job Analytics Report.148View the Charts for Backup Jobs.148Overview for Long-Running SharePoint Online/Exchange Online Backups.148Use Microsoft 365 Unusual Activities Analysis Report.149View the Report.149View the Report.149Cover OneDrive to a Healthy State.149View the Coverage Report.150Use the Coverage Report.150Details.151Chapter 25. Job Monitor.153	Microsoft 365 Services	
Utilization Tab.144Power Platform.144Chapter 23. Audit User Activities in System Auditor.145Chapter 24. Reporting for IBM Storage Protect for Cloud.147View Storage Consumption Report.147Usage Tab.148Use the Job Analytics Report.148View the Charts for Backup Jobs.148Overview for Long-Running SharePoint Online/Exchange Online Backups.148View the Charts for Restore Jobs.149View the Report.149View the Report.149View the Report.149Niew the Report.149Store OneDrive to a Healthy State.149View the Coverage Report.150Use the Coverage Report.150Details.151Chapter 25. Job Monitor.153	Usage Tab	
Power Platform.144Chapter 23. Audit User Activities in System Auditor.145Chapter 24. Reporting for IBM Storage Protect for Cloud.147View Storage Consumption Report.147Usage Tab.148Use the Job Analytics Report.148View the Charts for Backup Jobs.148Overview for Long-Running SharePoint Online/Exchange Online Backups.148Use Microsoft 365 Unusual Activities Analysis Report.149View the Report.149View the Report.149View the End-User Restore Report.150View the Coverage Report.150<	Utilization Tab	
Chapter 23. Audit User Activities in System Auditor	Power Platform	
Chapter 24. Reporting for IBM Storage Protect for Cloud	Chanter 23 Audit User Activities in System Auditor	1/5
Chapter 24. Reporting for IBM Storage Protect for Cloud	Chapter 25. Addit Oser Activities in System Additor	
View Storage Consumption Report.147Usage Tab.148Use the Job Analytics Report.148View the Charts for Backup Jobs.148Overview for Long-Running SharePoint Online/Exchange Online Backups.148View the Charts for Restore Jobs.148Use Microsoft 365 Unusual Activities Analysis Report.149View the Report.149View the Report.149View the End-User Restore Report.150View the Coverage Report.150Details.151Chapter 25. Job Monitor.	Chapter 24. Reporting for IBM Storage Protect for Cloud	147
Usage Tab.148Use the Job Analytics Report.148View the Charts for Backup Jobs.148Overview for Long-Running SharePoint Online/Exchange Online Backups.148View the Charts for Restore Jobs.148Use Microsoft 365 Unusual Activities Analysis Report.149View the Report.149Recover OneDrive to a Healthy State.149View the End-User Restore Report.150View the Coverage Report.150Details.151Chapter 25. Job Monitor.	View Storage Consumption Report	
Use the Job Analytics Report.148View the Charts for Backup Jobs.148Overview for Long-Running SharePoint Online/Exchange Online Backups.148View the Charts for Restore Jobs.148Use Microsoft 365 Unusual Activities Analysis Report.149View the Report.149Recover OneDrive to a Healthy State.149View the End-User Restore Report.150View the Coverage Report.150Details.151Chapter 25. Job Monitor.	Usage Tab	
View the Charts for Backup Jobs.148Overview for Long-Running SharePoint Online/Exchange Online Backups.148View the Charts for Restore Jobs.148Use Microsoft 365 Unusual Activities Analysis Report.149View the Report.149Recover OneDrive to a Healthy State.149View the End-User Restore Report.150View the Coverage Report.150Details.151Chapter 25. Job Monitor.	Use the Job Analytics Report	
Overview for Long-Running SharePoint Online/Exchange Online Backups.148View the Charts for Restore Jobs.148Use Microsoft 365 Unusual Activities Analysis Report.149View the Report.149Recover OneDrive to a Healthy State.149View the End-User Restore Report.150View the Coverage Report.150Details.151Chapter 25. Job Monitor.	View the Charts for Backup Jobs	
View the Charts for Restore Jobs	Overview for Long-Running SharePoint Online/Exchange Online Backups	
Use Microsoft 365 Unusual Activities Analysis Report	View the Charts for Restore Jobs	
View the Report	Use Microsoft 365 Unusual Activities Analysis Report	149
Recover OneDrive to a Healthy State	View the Report	
View the End-User Restore Report	Recover OneDrive to a Healthy State	
View the Coverage Report	View the End-User Restore Report	150
Details	View the Coverage Report	150
Chapter 25. Job Monitor153	Details	151
	Chapter 25. Job Monitor	

Chapter 26. View Subscription Notifications	155
Chapter 27. Submit Feedback	157
Chapter 28. Introduction to the Data Export Service	159
Chapter 20. Job Benert Troublesheating	161
Chapter 29. Job Report Housieshooting	 101
SharePoint Unline and Microsoft 365 Group Team Site	
Common	
Chapter 30. Troubleshooting	
CO-IncorrectUserNameOrPassword	169
CO-NotFound	169
CO-Throttling	
SP-CannotCreateSubsite	
SP-FileBackupFailedDueToVirusScanner.	
SP-IRMProtectedFileFailed	
SP-PDFBackupFailedDueToIRM	
SP-SiteLocked	
SP-SiteNotExist	
SP-SkipBackupRecordingsFolder	
SP-WebPartNotExist	
SP-OneNoteBackupFailed	
Chapter 31. Appendices: Supported and Unsupported Data Types	173
SharePoint Sites Data Types	
Site Collection Settings	
Site Settings	
List/Library Settings	
Admin Center	
Features	
Templates	
Web Parts	
Others	
• • • • • • • • • • • • • • • • • • • •	
Hidden Lists	
Hidden Lists Modern Team Site Data Types	
Hidden Lists Modern Team Site Data Types Project Online Data Types	
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional	
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional PWA Settings	
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional PWA Settings Exchange Online Data Types	
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional PWA Settings Exchange Online Data Types Public Folders Data Types	
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional PWA Settings Exchange Online Data Types Public Folders Data Types Microsoft 365 Groups Data Types	
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional PWA Settings Exchange Online Data Types Public Folders Data Types Microsoft 365 Groups Data Types Teams Data Types	
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional PWA Settings Exchange Online Data Types Public Folders Data Types Microsoft 365 Groups Data Types Teams Data Types Components in Teams Channel	
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional PWA Settings Exchange Online Data Types Public Folders Data Types Microsoft 365 Groups Data Types Teams Data Types Components in Teams Channel Components in Private/Sharred Channels	
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional PWA Settings Exchange Online Data Types Public Folders Data Types Microsoft 365 Groups Data Types Teams Data Types Components in Teams Channel Components in Private/Sharred Channels Settings and Permissions	198 198 201 204 211 218 225 230 234 235 241 247
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional PWA Settings Exchange Online Data Types Public Folders Data Types Microsoft 365 Groups Data Types Teams Data Types Components in Teams Channel Components in Private/Sharred Channels Settings and Permissions Planner Data	
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional PWA Settings Exchange Online Data Types Public Folders Data Types Microsoft 365 Groups Data Types Teams Data Types Components in Teams Channel Components in Private/Sharred Channels Settings and Permissions Planner Data Archived Teams	198 198 201 204 211 218 225 230 234 235 241 241 247 250 251
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional PWA Settings Exchange Online Data Types Public Folders Data Types Microsoft 365 Groups Data Types Teams Data Types Components in Teams Channel Components in Private/Sharred Channels Settings and Permissions Planner Data Archived Teams Microsoft Education Environment	
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional PWA Settings Exchange Online Data Types Public Folders Data Types Microsoft 365 Groups Data Types Teams Data Types Components in Teams Channel Components in Private/Sharred Channels Settings and Permissions Planner Data Archived Teams Microsoft Education Environment Teams Chat Data Types	
Hidden Lists	198 198 201 204 211 218 225 230 234 235 241 247 250 251 251 252 253 256
Hidden Lists Modern Team Site Data Types Project Online Data Types Project Professional PWA Settings. Exchange Online Data Types Public Folders Data Types Microsoft 365 Groups Data Types Teams Data Types Components in Teams Channel. Components in Private/Sharred Channels. Settings and Permissions Planner Data Archived Teams Microsoft Education Environment Teams Chat Data Types Viva Engage Data Types OneDrive Data Types	198 198 201 204 211 218 225 230 234 235 234 235 241 247 250 251 251 252 253 256 259
Hidden Lists. Modern Team Site Data Types. Project Online Data Types. PWA Settings. Exchange Online Data Types. Public Folders Data Types. Microsoft 365 Groups Data Types. Components in Teams Channel. Components in Private/Sharred Channels. Settings and Permissions. Planner Data. Archived Teams. Microsoft Education Environment. Teams Chat Data Types. OneDrive Data Types. Document-Related Data Types.	198 198 201 204 211 218 225 230 234 235 234 235 241 241 247 250 251 251 252 253 253 259 261

Workflow	
Column	
Content Type	
Document ID	
Power BI Data Types	
Power Automate Data Types	279
Power Apps Data Types.	
Restore Options for Different Object Types	
SharePoint Online Restore Options	
OneDrive Restore Options	
Teams Restore Options	
Restore Conflict Resolutions	
Appendix A - Accessibility	311
Notices	

About this publication

This publication provides overview, planning, and user instructions for IBM Storage Protect for Cloud Microsoft 365.

Who should read this publication

This publication is intended for administrators and users who are responsible for implementing a backup and recovery solution with IBM Storage Protect for Cloud Microsoft 365 in one of the supported environments.

System administrators can use this guide to help start the application, manage users, and catalog resource information. Users can find procedures on how to search and browse for objects, generate and interpret reports, schedule jobs, and orchestrate backup and restore jobs.

x IBM Storage Protect for Cloud Microsoft 365: User Guide

What's new

Learn about new features and updates in IBM Storage Protect for Cloud Microsoft 365.

Release Date: August 25, 2024

New features and updates

In IBM Storage Protect for Cloud Microsoft 365, administrators can now configure the End-user restore settings to control whether to allow the flow creator and owners to export Power Automate cloud flows in Cloud Recovery Portal.

We have enhanced the retention logic for IBM Storage Protect for Cloud Microsoft 365 subscription renewals. If your updated subscription has a shorter retention period than your current configuration, your retention periods will be automatically adjusted to match the new subscription limits. If your updated subscription has the same or longer retention period than your existing configuration, no changes will be made. To verify your configuration and ensure you are aware of any changes, refer to **Settings** > **Retention**.

For BYOS customers, you can now set a password for encryption keys and configure whether to allow IBM Storage Protect for Cloud Microsoft 365 to copy the encryption keys to your BYOS storage weekly through **Settings** > **System** > **Encryption keys**.

The **Notification center** has been updated to display alerts for subscription expiration, out-of-policy conditions, and changes to BYOS. It no longer displays information about purchased and consumed data sizes. For detailed subscription information, refer to the subscription consumption report.

IBM Storage Protect for Cloud Microsoft 365 now offers enhanced permission control by enabling administrators to assign either **View Only** or **View and Edit** permission to users for backup management.

If you switch your storage from the default storage to BYOS, you have the option to retain all current backup data stored in the default storage for 90 days. **Further details will be provided in the coming weeks.**

IBM Storage Protect for Cloud Microsoft 365 now supports SharePoint Online for **Data subject access requests**. You can discover and delete site collections from SharePoint Online backups in response to GDPR-related requests.

The **Recovery Point** column is now available in the restore and export job report to show the recovery point selected for restore or export.

xii IBM Storage Protect for Cloud Microsoft 365: User Guide

Chapter 1. About IBM Storage Protect for Cloud Microsoft 365

IBM Storage Protect for Cloud Microsoft 365 is designed to ensure resiliency of service in the event of a disaster and helps to recover lost or corrupted content from your backup. IBM Storage Protect for Cloud Microsoft 365 offers backup capabilities for all Microsoft 365 instances, such as **Exchange Online**, **OneDrive**, **SharePoint Online**, Microsoft **365 Groups**, **Teams**, **Microsoft Teams Chat**, **Project Online**, **Public Folders**, **Viva Engage**, **Power BI**, **Power Automate**, and **Power apps** to protect your data. These object types are backed up and restored independently of one another.

The date format displayed in the interface and job reports follows the **Culture settings** in IBM Storage Protect for Cloud.

You can also customize the view of the **Backup** or **Restore** page to hide or show the workspace of each service and change their display order by drag & drop.

In the IBM Storage Protect for Cloud Microsoft 365 interface, the following actions are available on each page:

- The **Help** list next to your account contains the user guide and release notes links to help you catch up with what's new and direct you to the IBM Storage Protect for Cloud interface to submit feedback or invite support for assistance.
- The **Notification center** (¹) displays alerts for subscription expiration, out-of-policy conditions, and changes to BYOS.

Note the following for using the services of IBM Storage Protect for Cloud Microsoft 365:

Single Sign-On

With Single Sign-On (SSO) supported, you can access IBM Storage Protect for Cloud Microsoft 365 interface via direct URL without providing user credentials once it is detected that you have signed into the IBM Storage Protect for Cloud interface.

Supported Languages

IBM Storage Protect for Cloud Microsoft 365 interface supports being browsed in French or German if the default language or the first preferred language of the browser you are using is French or German.

SharePoint Online, OneDrive, and Project Online:

- The hidden lists in SharePoint sites (including SharePoint Online sites, Teams team sites, Group team sites, Viva Engage community sites, and Project Online sites) are now excluded from the backup scope for better performance. If you want to include the hidden lists in your backup, contact <u>IBM Software</u> <u>Support</u> for assistance. For the hidden lists that you can include in the backup, refer to <u>"Hidden Lists" on</u> page 198.
- You can change the SharePoint domain name for your organization in Microsoft 365 as introduced in the Microsoft article: <u>Rename your SharePoint domain</u>. This feature affects only the SharePoint and OneDrive URLs. It doesn't impact email addresses. After the domain name is changed and updated into Auto Discovery, IBM Storage Protect for Cloud Microsoft 365 will run a full backup for SharePoint Online sites and OneDrive objects with new URLs.
- IBM Storage Protect for Cloud Microsoft 365 for OneDrive will protect the **Documents** library and will protect the **Site Assets** library as well if the site feature **Site NoteBook** is activated.

The service only protects content and permissions for OneDrive since OneDrive is the cloud service used to help securely store, share, and access your files.

- Backup for OneDrive now uses Microsoft Graph API for improved performance. Graph API has been more focused on protecting OneDrive content, and it has some limitations, such as it cannot protect the file versions. The file version number cannot be kept either after being restored to the destination. The restored file will use version: **1.0**. You can refer to <u>"OneDrive Data Types" on page 259</u> for more details. If you require any additional assistance, contact IBM Support.
- As Microsoft API has a 2 GB file size limit of OneNote notebooks saved in One Drive or SharePoint, backup jobs will skip the OneNote files that are larger than 2 GB. In addition, due to API limitations, IBM Storage Protect for Cloud Microsoft 365 cannot protect the history versions of OneNote files.
- If there are security changes but no changes on the content in the sites, the scheduled incremental backup jobs will not back up the securities. Moving forward, the changes on the securities in the sites (including the SharePoint Online sites, OneDrive, and Microsoft 365 Groups/Teams team sites) that have not yet been backed up, in this case, will be included in an incremental backup once a week.

If there are some items in a site that failed in a backup but no changes on the content in the site for the next backup, the scheduled incremental backup jobs will not back up these failed items. Moving forward, they will be included in an incremental backup once a week.

- If you would like to filter the folders to protect a **OneDrive** service or **Exchange Online** service, or filter the folders within the site collections of **SharePoint Online** service, **Project Online** services, Microsoft **365 Groups** services, or **Teams** service, you can contact the <u>IBM Software Support</u> team for assistance. Note that if your subscription to IBM Storage Protect for Cloud Microsoft 365 is based on the protected data size, the total consumed data size in your subscription will not be affected by the filter policy. IBM will not exclude the size of the filtered items from the total consumed data size.
- The files in the SharePoint site and the mailbox items in Exchange Online that are applied with the labels created via **AIP (Azure Information Protection)** can be protected by IBM Storage Protect for Cloud, as well as the applied Label. The documents applied with the sensitivity labels of DKE (Double Key Encryption) are also supported, but only the user who has permission can access them.
- The files in the SharePoint site and the mailbox items in Exchange Online that are applied with the labels created via **AIP (Azure Information Protection)** can be protected by IBM Storage Protect for Cloud Microsoft 365, as well as the applied Label. The documents applied with the sensitivity labels of DKE (Double Key Encryption) are also supported, but only the user who has permission can access them.
- By default, the **Preservation Hold** library is not protected by IBM Storage Protect for Cloud Microsoft 365. If you want to enable this protection, contact IBM Software Support support for assistance.
- IBM Storage Protect for Cloud Auto discovery now supports including orphaned OneDrive in scan profiles of OneDrive, but the objects cannot be synchronized to IBM Storage Protect for Cloud Microsoft 365.
- IBM Storage Protect for Cloud Microsoft 365 for SharePoint Online also supports protecting **Communication Sites**. When restoring a deleted Communication Site to its original location, IBM Storage Protect for Cloud Microsoft 365 supports restoring the custom design of the Communication Site in the backup. If the Communication Site is registered through App Profile, the Communication Site can only be restored with the default design. Note that the comments in Communication Sites are not currently supported.
- As the locked site collections are inaccessible, the backup job will check the lock status and skip backing up the locked site collections, which will be recorded in the job report; for read-only site collections, only the full backup job that runs once every year will back them up. Since no changes can be made to read-only site collections, the incremental backup jobs will skip them.
- You can now use an app profile to scan the Project Online site collections. However, Project Online data cannot be protected in the app context (using app profile authentication). A service account with enough permissions is still required for the backup and restore for Project Online. Note the following for the Project Online data types:
 - IBM Storage Protect for Cloud for Project Online service supports restoring Project Permission Mode features.
 - Project Online service cannot protect the **Project for the web** data and cannot fully support the data added through Microsoft 365 subscription Project Online desktop client. For example, custom fields.

- For more details on the protected data types, refer to "Project Online Data Types" on page 201.

Exchange Online and Public Folders:

- You can now choose to protect the **Recoverable Items** folder in the user's primary mailbox for the Exchange Online service. If you want to enable this feature, contact <u>IBM Software Support</u>support for assistance. Currently, we support the **Deletion**, **Purges**, and **Discovery Holds** subfolders in the **Recoverable Items**. For more information about Recoverable Items, refer to this Microsoft article: <u>Recoverable Items folder in Exchange Online</u>. On the backup data tree, you can find the data in the following directory: mailbox address/Recoverable Items folder (System). This folder cannot be a destination for an out of place restore, and the backup data of this folder being restored to its original mailbox will use the following name: **Recovery Items folder (System)_Restored**. Note that due to the API limitation, this folder directory will always be displayed in English regardless of the preferred display language of Microsoft 365.
- The hidden folders in the mailboxes (including Exchange Online mailboxes, Group mailboxes, and Teams group mailboxes) will be excluded from the backup for better performance. If you want to include the hidden folders in your backup, contact <u>IBM Software Support</u> for assistance.
- If you would like to filter the folders to protect a **OneDrive** service or **Exchange Online** service, or filter the folders within the site collections of **SharePoint Online** service, **Project Online** services, Microsoft **365 Groups** services, or **Teams** service, you can contact the <u>IBM Software Support</u> team for assistance. Note that if your subscription to IBM Storage Protect for Cloud Microsoft 365 is based on the protected data size, the total consumed data size in your subscription will not be affected by the filter policy. AvePoint will not exclude the size of the filtered items from the total consumed data size.
- The service for **Public Folders** only supports restoring content and permissions of Public Folders to the original location. IBM Storage Protect for Cloud Microsoft 365 now supports the backup of Public Folder metadata via the app profile authentication. To protect Public Folder metadata, ensure your backup for Public Folder metadata is enabled and the Exchange Administrator role is assigned to the app in Microsoft Entra ID. Note that the impersonation accounts that you configured for Public Folders in IBM Storage Protect for Cloud interface will be synchronized to IBM Storage Protect for Cloud Microsoft 365 after July 2023 release and the IBM Storage Protect for Cloud in app context only supports using impersonation accounts for the backup and restore of Public Folders. If you are a new customer, you must go to the Settings > Backup page to configure impersonation accounts. For details, refer toChapter 12, "Configure Backup Settings," on page 69.
- For subscriptions with Multi-Geo enabled, the public folders can only be protected in the Central IBM Storage Protect for Cloud Location.
- Use Object ID instead of mailbox address as the unique identifier for Exchange Online mailboxes and Public Folders. This change has been made to IBM Storage Protect for Cloud Microsoft 365. Due to this change, the mailboxes that have been re-created with the same address will no longer be regarded as the same one. This might require a broader search to ensure you find all the backup data for restoring, exporting, or deleting; the mailbox being renamed can only be found by the new name with the former backup data associated, and its former name will be displayed in its row.
- The Exchange Online service does not support protecting the **Search Folders**.

Microsoft 365 Groups and Teams

- The Teams service is now available for customers using Microsoft 365 operated by 21Vianet in China. Note that hosted content is unsupported and will be skipped in the backup
- To protect Teams mailboxes, at least one owner/member in the team should have the Exchange Online product license.
- The hidden folders in the mailboxes (including Exchange Online mailboxes, Group mailboxes, and Teams group mailboxes) will be excluded from the backup for better performance. If you want to include the hidden folders in your backup, contact <u>IBM Software Support</u> for assistance.
- IBM Storage Protect for Cloud Microsoft 365 can check the status of groups and teams in Microsoft 365 and provides the option to help you restore the soft-deleted groups and teams (within the 30-day retention period) from the Microsoft 365 recycle bin.

• If you are using service account authentication for the backup of Teams' shared/private channels, the service account must be the owner of the shared/private channels.

Teams Chat

- The Teams Chat service can protect the 1:1 chats and the group chats in Teams.
- Before you enable the Teams chat backup service, you must register a **custom app profile** for Microsoft 365 for Auto Discovery to scan the **Microsoft 365 users** request access to the default Microsoft Graph API or Microsoft Graph Teams Export API. To request access to Export APIs, read the <u>Prerequisites</u> and complete the request form. For details on the required permissions for custom app, refer to <u>"App Profile</u> Authentication" on page 47.
- Microsoft Teams Chat service in IBM Storage Protect for Cloud Microsoft 365 supports to use the default Microsoft Graph API or Microsoft Graph Teams Export API model B to retrieve Teams chat messages from Microsoft Teams Chat for backup. Note that the Export API model B will charge the app creator \$ 0.00075 per message and that the cost may be high if there are a large number of chat messages in your tenant. Since the Teams Export API model B requires payment for use, you must follow the steps described in Enable metered Microsoft 365 APIs and services to set up an active Azure subscription for your application for billing purposes. You can follow this Microsoft article to estimate the number of Teams chat messages that may be backed up.

Note: The number of messages in the M365 Admin Center is just for the specific duration you define when exporting the report, not the full total amount. Additionally, the Microsoft Export API only supports export at a user level, so if there is a group chat with multiple users, the same message will be exported multiple times if all these users are included in the scope, which means the number of messages which will be backed up by IBM Storage Protect for Cloud Microsoft 365 has the potential to be higher than the number of messages in the Microsoft admin center report. For confirmation, you can check the job report after the job has finished for the backup chat messages count to compare with the bill from Microsoft. If necessary, you can also limit the user scope for the export. Here is an example: In the report in the Microsoft 365 admin center shows the last 180 days' number of Teams chat messages are 1000. Then for the whole year, the number of messages will be approximately 2000. Because there is not deduplication logic for the Microsoft 365 export API, the same message will be exported multiple times if all these users are included in the scope. So let's say that all are 1V1 chats, then the message number charge by export API will be doubled to approximately 4000 messages. If most of chats are group chats with multiple users, the cost will be even higher.

- For the **default Microsoft Graph API**, the backup of chats started by external users is not supported, but chats started by internal users that include external users can be protected. For the **Teams Export API model B**, only plain text can be protected.
- The group chat messages cannot be protected if the user has been removed from the group.
- Only the default Microsoft Graph API can be used to protect Teams Chat in GCC/GCCH environments.

Viva Engage

- To protect Viva Engage data, you must have a Viva Engage app connected to your tenant, and the authentication user of this Viva Engage app must have the **Verified Admin** role or **Engage Admin** role. For details on configuring a Viva Engage app, refer to <u>App Profile for Yammer</u>. Viva Engage service currently supports in place restore only (restoring to the original location), meaning the Viva Engage community needs to already be there, as well as the ability to export files and conversations.
- If you have Microsoft 365 connected Viva Engage communities protected under Microsoft 365 Groups service, once the Viva Engage service is enabled, the connected groups will be removed from Microsoft 365 Groups service and can only be protected in Viva Engage even if you disable the Viva Engage service again. IBM Storage Protect for Cloud Microsoft 365 job will start a new backup cycle for these Viva Engage communities, but their former backup data as Microsoft Groups will not be deleted until the data expires retention period.

Power BI

- Power BI service can only protect the Power BI content in the new workspace experience. (The personal workspace is the classic workspace, which is not supported.)
- To use IBM Storage Protect for Cloud Microsoft 365 to protect the Power BI data, you must configure an app profile for the Microsoft Delegated app with the Power BI option selected. For the list of the required permissions added to the Delegated app for Power BI, refer to <u>"App Profile Authentication" on page 47</u>. If you have been using a scan profile with service account authentication for Power Platform object types, the Auto discovery scan jobs and the IBM Storage Protect for Cloud jobs can continue using the service account authentication.
- If you use service account authentication or the Delegated app to protect the Power BI data, the service account or the authentication user of the Delegated app must have a **Power BI Pro** license or a **Premium Per User (PPU)** license, and have the **Fabric Administrator** role (the former **Power BI admin** role).
- Before you enable the Power BI service, ensure the <u>Download reports</u> feature in the tenant settings has been enabled. This feature was enabled by default. In addition, IBM Storage Protect for Cloud Microsoft 365 Power BI service now can only protect the <u>.pbix</u> Power BI files that can be downloaded. Note that the backup data can only be exported and downloaded. For the limitations on downloading report from Power BI, refer to <u>Limitations when downloading a report .pbix file</u>. The exported .pbix file includes both the report you're downloading and the dataset (the data on which the report is based), the same as the "<u>A copy of the report and data</u>" download mode in Power BI. If a Power BI report is created using data from Dataverse, neither the report nor the data in Dataverse will be protected.
- If you use the service account authentication to protect Power BI data or use the Delegated app to scan Power BI workspaces in IBM Storage Protect for Cloud Microsoft 365, the Auto Discovery scan job will automatically add the service account or the authentication user of the Delegated app as the workspace admin.
- Due to the API limitation, the backup job of Power BI can back up at most 200 workspaces per hour.

Power Automate

- To use Cloud Backup for Microsoft 365 to protect the Power Automate flow data, you must configure a Microsoft Delegated app. For the list of the required permissions added to the Delegated app for Power Automate, refer to the <u>Required Permissions of Microsoft Delegated App</u>. If you have been using a scan profile with service account authentication for Power Platform object types, the Auto discovery scan jobs and the IBM Storage Protect for Cloud jobs can continue using the service account authentication.
- If you use the Delegated app to protect the Power Automate data, the authentication user of the Delegated app must be the **Global Administrator** and the Environment admin or System Administrator. If you use service account authentication to protect the Power Automate data, the service account must be the **Global Administrator**.
- The backup job will automatically add the service account or the authentication user of the Delegated app (the user who consents the app permissions) as the flow owner. Due to the Microsoft native logic, after the authentication user is added as the flow owner, the corresponding flows will be listed under the **My flows** > **Shared with me** tab for the existing flow owners.

Power Apps

- Power Apps service can only protect Canvas apps which have been published and the component libraries. Note that the Restore action is unsupported and the backup data can only be exported. For a full support list, refer to Power Apps Data Types.
- To use IBM Storage Protect for Cloud Microsoft 365 to protect the Power Apps data, you can configure an app profile for the Microsoft Delegated app with the Power Apps option selected. For the list of the required permissions added to the Delegated app for Power Apps, refer to the <u>Required Permissions of Microsoft Delegated App</u>. If you have been using a scan profile with service account authentication for Power Platform object types, the Auto discovery scan jobs and the IBM Storage Protect for Cloud jobs can continue using the service account authentication.

- If you use service account authentication or the Delegated app to protect the Power Apps data, the service account or the authentication user of the Delegated app must be the **Global Administrator** and the **Environment Admin/System Administrator**, and have the **Power Apps for Microsoft 365** license to proceed.
- The backup job will automatically add the service account or the authentication user of the Delegated app as the app's co-owner and flow owner (if the app has an associated flow).

For more information on the supported and unsupported data types of Microsoft 365 Backup, refer to:

- "SharePoint Sites Data Types" on page 174
- "Modern Team Site Data Types" on page 198
- "Project Online Data Types" on page 201
- "Exchange Online Data Types" on page 218
- "Public Folders Data Types" on page 225
- "Microsoft 365 Groups Data Types" on page 230
- "Teams Data Types" on page 234
- "Teams Chat Data Types" on page 253
- "Viva Engage Data Types" on page 256
- "OneDrive Data Types" on page 259
- "Document-Related Data Types" on page 261
- "Power BI Data Types" on page 278
- "Power Automate Data Types" on page 279
- "Power Apps Data Types" on page 279

Backup Schedule

The backup service will perform scheduled backups automatically and compress and encrypt backup data by default. The schedule of an object type starts with the first backup job. Note that the first backup job of the Distribution MSP's customers will start in 24 hours after the backup wizard is set up.

For new customers, IBM has now adjusted the backup frequency to once a day by default. Your second scheduled backup job on the next day will run ten hours after the start time of the first backup job, to ensure your backups all run at night for the best throughput. The subsequent jobs inherit the schedule automatically. In the meantime, you still have the option to adjust the backup frequency and the start time for the backup jobs.

Note that if there is a backup job in progress, the automatic backup job scheduled to run will be skipped.

Backup jobs can also be run manually if there is data that failed to be backed up during the last backup job. For detailed instructions on manually running backup jobs, refer to <u>Chapter 7, "Monitor and Manage</u> Your Backup," on page 59.

Storage Location

You can choose to store the backup data to the default storage location provided by IBM Storage Protect for Cloud or your custom storage location. If you are currently using the default storage location and you want to use your own storage afterward, you can contact <u>IBM Software Support</u> to update your subscription and change the default storage to your own storage.

The storage type of the default storage location is Microsoft Azure Blob Storage. The custom storage location can be one of the following five storage types: **Amazon S3**, **Amazon S3-Compatible**, **Dropbox**, **FTP**, Microsoft **Azure Blob Storage**, **SFTP**, **IBM Storage Protect - S3**, and **IBM Cloud Object Storage**.

If you have purchased a subscription for BYOS (Bring your own storage) but are currently using IBM Storage Protect for Cloud default storage for your backup data, your backup jobs will fail and we will send you an email notification every 7 days to remind you to update your BYOS storage configuration.

If you are using your own Azure storage (BYOS), note the following:

After the January 2024 release, IBM Storage Protect for Cloud will write your new backup data to the cold tier by default to reduce storage costs. The supported Azure account kinds are StorageV2 and BlobStorage of Standard performance type. For existing customers, your former backup data are still stored in the cool tier. This intelligent tiering also extends to additional BYOS storages appended to the system.

For details about blob access tiers and how to change access tiers, refer to the Microsoft article: <u>Azure</u> Blob storage: hot, cool, and archive access tiers.

If you are using your own Microsoft Azure Blob Storage and facing the upper limit on your storage account, you can append a new Microsoft Azure Blob storage account. The maximum storage account capacity for a standard storage account is 5 PiB. You can contact Microsoft Azure support to request an increase. Currently, you can only append one additional storage account, and this is only available for BYOS customers on Azure.

The backup data will be purged from the storage after the data reaches the retention period. If you use the default storage location, you can purchase a subscription with a retention period of multiple years (between 1 and 99) or unlimited years.

You can restore the backup data of these object types to the original location where they are backed up, to another destination, or restore them to a custom storage location. For details, refer to <u>Restore Options</u> for Different Object Types and Chapter 20, "Restore and Recover Your Data," on page 109.

Retention

If you use your own storage device or IBM default storage, and have purchased an unlimited data retention agreement, you can customize the data retention period for each service type. Before any data deletion, IBM Storage Protect for Cloud Microsoft 365 will send a notification email informing you of the service data which will be deleted. You will still have time to either extend your retention period or export your data (a paid service). Now you can configure a retention period that is less than 1 year. To enable the day unit retention policy, contact IBM Software Support for assistance.

Reporting

By monitoring the subscription consumptions, jobs operations, and all user activities, including the end users using IBM Storage Protect for Cloud Recovery Portal, your application administrator can have an overall understanding of the resource usage, review and analyze the job progress and details, and predict the service usage trends for the unusual activities.

For details, you can refer to:

- Chapter 22, "View Subscription Consumption Report," on page 143
- "View Storage Consumption Report" on page 147
- "Use the Job Analytics Report" on page 148
- Chapter 23, "Audit User Activities in System Auditor," on page 145
- "Use Microsoft 365 Unusual Activities Analysis Report" on page 149
- "View the End-User Restore Report" on page 150
- "View the Coverage Report" on page 150

Use IBM Storage Protect for Cloud Public APIs

You can now use the public APIs that IBM Storage Protect for Cloud provides to get the audit records, subscription consumption, and job information of IBM Storage Protect for Cloud Microsoft 365. For details, refer to https://www.ibm.com/docs/en/SSHG09_test?topic=storage-protect-cloud-web-api.

Multi-Geo Support

IBM Storage Protect for Cloud Microsoft 365 supports protecting your Microsoft 365 tenant that has the Multi-Geo capability.

For more information, see Microsoft 365 Multi-Geo.

For details on how it should be configured through the IBM Storage Protect for Cloud platform and how it is protected in the IBM Storage Protect for Cloud Microsoft 365 app, refer to <u>Does IBM Storage Protect for</u> Cloud Support Microsoft 365 Tenants with Multi-Geo Licenses?

To leverage Multi-Geo capabilities, you must go to <u>Manage Data Center Mappings</u> in IBM Storage Protect for Cloud to map the list of geo locations to the supporting data centers.

Once you turn Multi-Geo on in your tenant, we're going to start routing your data to different regions according to your configurations in <u>Manage Data Center Mappings</u>. To run backup and restore for a specific region, you must have the service administrator role or have access to manage that corresponding region.

Users assigned with multiple regions will be asked to select a region when accessing the IBM Storage Protect for Cloud Microsoft 365 interface. Users with only one region will be automatically redirected to the regional IBM Storage Protect for Cloud Microsoft 365 instance.

Note the following:

- Mailboxes The first time you start the Multi-Geo service, user mailboxes will be moved to the new
 region automatically, but the backup data previously generated by IBM Storage Protect for Cloud
 Microsoft 365 will still be managed in either the central tenant or the region where it was moved from.
 The mailbox will be registered as new through IBM Storage Protect for Cloud Auto Discovery and get
 protected by IBM Storage Protect for Cloud Microsoft 365. This means, in the IBM Storage Protect for
 Cloud Microsoft 365 instance for the new region, the new backup data is isolated exclusively to this
 region, and the previous backup data cannot be used for the data recovery in the new region. However,
 you can still use the previous backup data in the following ways:
 - Run an export job through the Restore wizard
 - Restore to your own storage location (BYOS subscription)
 - Restore to another mailbox in its original region
 - Run an in-place restore to restore backup data to the original region

Note: To in-place restore the backup data to its original region, ensure there is a service account or app profile configured with proper permissions for the same Microsoft 365 tenant as the original data.

- OneDrive/SharePoint sites If the OneDrive library or SharePoint site existed before your tenant enabled Multi-Geo, the OneDrive library/SharePoint site data will not be automatically moved to the preferred data location. Your SharePoint Administrator or Global Administrator can respond to the move. As stated in the Microsoft article: Move a SharePoint site to a different geo location, there is a read-only window during the OneDrive/SharePoint site geo move of approximately 4-6 hours, depending on site contents. During the move, the OneDrive library/SharePoint site will continue being protected in the IBM Storage Protect for Cloud Microsoft 365 instance for the former region. After the move is completed and the site is registered as new through IBM Storage Protect for Cloud Auto Discovery, the site will be protected in the IBM Storage Protect for Cloud Microsoft 365 instance for the destination region. The previous backup data is not available for the data recovery in the new instance.
- Microsoft 365 Groups and Teams If you are using a multi-geo tenant, consider configuring a custom app profile. The <u>Directory.ReadWrite.All</u> permission is not automatically consented to the default app profile, but this permission is required to restore the region information for Microsoft 365 Groups and Teams. Otherwise, your group or team backed up from a specific region will be restored to the default region.
- Power Platform For subscriptions with Multi-Geo enabled, Power BI data can be protected in multiple geo locations. For Power Automate and Power Apps, flows and apps can only be protected in the IBM Central Location due to API limitations.

- We isolate the backup data sets for each region. Therefore, you cannot restore across different regions. For example, from France to the US.
- If you are using default IBM Storage Protect for Cloud storage with a Multi-Geo subscription, IBM Storage Protect for Cloud Microsoft 365 allows you to change the storage to your own storage device for specific regions, and the other regions can still use the default IBM Storage Protect for Cloud storage.
- The **Subscription Consumption Report** is only available to the IBM Storage Protect for Cloud administrator. The **System Auditor** report and **Job Analytics** report only show the jobs and activities that are operated in the current region.
- The **Remove Unprotected Data** feature is not applicable to subscriptions with the Multi-Geo enabled. Your backup data cannot be automatically detected to determine if it is in or out of the protection scope.
- The retention configuration for multi-geo tenants is the same as the others. If you want to configure custom retention settings, such as setting up different retention years for specific regions, service types, or containers, refer to Chapter 14, " Configure Retention Policy," on page 85.

Recovery Portal for End Users

IBM Storage Protect for Cloud Recovery Portal is a data recovery center designed to connect end users in your organization to their lost OneDrive, SharePoint Online site, Exchange mailbox, or Teams Chat, the files in the Microsoft 365 Groups or the Teams where they are working as owners or members, or Power BI reports in workspaces where they are working as admins, members or contributors. This interface allows users to search the most common fields to find the backup data to recover along with a preview of the email messages which can also help ensure a successful restore with minimal effort.

You can find this app through **IBM Storage Protect for Cloud** > **All Apps** view. For end-user access, IBM recommends adding this portal as a custom tile to your organization's Microsoft 365 app launcher.

Before your end users can use this portal, your service administrator must complete a few necessary configurations. For details, refer to the Recovery Portal User Guide.

Split-Off and Pause Backups

If an incremental backup job for **SharePoint Online/OneDrive/Project Online/Exchange Online/Teams/ Groups** has been running for 47 hours, we will look into it and identify if there is a higher volume of changes or very large sites/mailboxes that are causing the job to run longer. Rather than let these large sites/mailboxes slow down the rest of your backups, we will split off the running sites/mailboxes into their own backup process, which will continue to run in the background. Long-running full backup jobs for will not be automatically split off and the incremental backup jobs will run in parallel. For any content we've already finished protecting, we'll mark this job as "**Partially Finished**" in the backup dashboard to set a valid restore point. Any sites/mailboxes that are still in the queue to be backed up will be skipped and will be automatically included in the next backup, which should be kicking off shortly to maintain the best SLA.

The site collections/mailboxes that are currently being backed up will keep running in the background.

For **Teams/Groups** long-running backups, the split-off will happen when all the following conditions are met.

- The backups for the Teams/Groups metadata, mailboxes, and private sites (for Teams) have been completed.
- The backups for Teams/Groups team sites are still running.
- The incremental backup job has been running for 47 hours (subject to the duration you may have customized).

You can download the job report from Job Monitor to check the backup of the site collections/mailboxes that are currently being protected and the site collections/mailboxes that have been skipped but will be automatically included in the next backup job.

For SharePoint Online sites and Exchange Online mailboxes, you can also go to the **Job Analytics** > **Backup Overview** tab to check for the progress of the content being protected. Note that Project Online and Teams service do not support this feature.

If the backup job hasn't been completed after running for a total 28 days, it will be stopped. The remaining content in the backup will be automatically included in the next backup job. Note that the job pausing does not apply to Exchange Online backups. The Exchange Online backup job will run to the end. You will receive the following email notifications to check the job details:

- IBM Storage Protect for Cloud Notification: Managing Long-Running Backup Jobs
- Your Long-Running Backup Job Has Completed!

Data Encryption Methods

Data encryption can be divided into two scenarios: data transmission (data in transit) encryption and data storage (data at rest) encryption.

For data transmission encryption, IBM Storage Protect for Cloud Microsoft 365 is deployed on the Microsoft Azure framework to make outbound Microsoft API calls and internal communications over HTTPS/TLS encrypted channels. Certificate-based authentication is used for internal communications.

For data storage encryption, IBM Storage Protect for Cloud Microsoft 365 encrypts all the Microsoft 365 data obtained by calling Microsoft APIs with AES 256 using keys unique to each tenant (either default keys or BYOK). The encryption happens before the data is transmitted to storage.

When transmitting the encrypted data to storage, the data transmission encryption differs depending on the target storage's available protocols. For example, Microsoft Azure Blob Storage, Amazon S3, and SFTP have their own data transmission encryption algorithm or protocols applied, but for FTP, the data transfer protocol is not encrypted. Although the data being transferred is already encrypted with AES 256, as mentioned above, the preferred method is to use storage types other than FTP that support encrypted protocols.

List of On-Demand Features

IBM Storage Protect for Cloud Microsoft 365 has several features to be delivered or enabled on your demand.

You can contact the IBM Software Support team if you are interested in the following features:

- IBM Storage Protect for Cloud Microsoft 365 new experience removed several backup settings that are not popular in use. For details, refer to <u>"On-Demand Backup Settings" on page 70</u>. If you want to use these settings, contact <u>IBM Software Support</u>.
- The Backup Data eDiscovery function allows you to search for emails across all Exchange Online mailboxes backup data, and then download the file list from the search result and perform data recovery, exportation, or deletion on the backup data. To enable this feature to your tenant, contact IBM Software Support.
- The Microsoft Teams Chat service in IBM Storage Protect for Cloud Microsoft 365 supports the Export API <u>Model B</u> and it will cost you \$0.00075 per message for the protection of Teams chat. If you would like to switch to <u>Model A</u>, which has additional requirements for the supported license, contact <u>IBM</u> Software Support for assistance.
- To avoid any accidental deletion of your backup data, you can contact <u>IBM Software Support</u> to disable the GDPR-related features (the Data Subject Access Requests function and the Manually Delete Backup Data function) for your tenant.

You can also set an approval process for the data deletion to avoid accidental data loss. With this feature enabled, data deletion requests and email notifications will be sent to the administrators when you delete data in **Manually delete backup data** and **Data subject access requests**. Then administrators can access the IBM Storage Protect for Cloud Microsoft 365 interface and click **My Tasks** (2) on the upper-right of the interface to approve your requests. The deletion jobs will start when the

requests are approved. Note that the requests will be automatically invalidated if not approved within 7 days. To enable this feature, contact IBM Software Support.

- By default, the successful item level objects will not be included in the job report. If you want to view the successful item level objects in the job report, contact <u>IBM Software Support</u> for assistance.
- If you would like to filter the folders to protect the **OneDrive** service or **Exchange Online** service or filter the folders within the site collections of the **SharePoint Online** service, **Project Online** services, **Microsoft 365 Groups** services, or **Teams** service, you can contact the <u>IBM Software Support</u> team for assistance. Note that if your subscription to IBM Storage Protect for Cloud Microsoft 365 is based on the protected data size, the total consumed data size in your subscription will not be affected by the filter policy. IBM will not exclude the size of the filtered items from the total consumed data size.
- If you want to exclude specific file types from backup by filtering file extensions (such as, to exclude the MP4 files from backup), you can contact IBM Storage Protect for Cloud support for assistance. This feature works for the backup of SharePoint Online sites, OneDrive, Project Online sites, and the sites of Microsoft 365 Groups, Teams, and Viva Engage communities. The files, including the documents in the list attachment with the designated file extension, will be excluded from the backup. Note that this filter is not applicable to system files.
- If you would like to exclude the workflow history list as well as the list items from your backup for better backup job efficiency, contact the IBM Software Support team for assistance.
- For BYOS customers, if you would like to use a separate storage location for each service type, contact the IBM Software Support team for assistance.
- Auto archive for BYOS Azure storage If you are an existing customer before the January 2024 release using your own Azure storage with longer retention policies and haven't enabled the archiving settings before, you can now contact the IBM Support team to enable the automatic archive to keep your legacy backup data in the archive tier to save cost. Your legacy backup data will be moved to the archive tier in the next archive job. For new customers after the January 2024 release, IBM will set archives to cycle every 180 days by default.
- The **Export Encryption Key** feature is by default not available to users who are using default storage hosted by IBM Storage Protect for Cloud. You can contact the <u>IBM Software Support</u> if needed. For details on exporting encryption keys, refer to "Export Encryption Key" on page 71.
- The data recovery job can use the Migration API to improve the speed of large-scale recoveries. If you are interested in this method, contact the <u>IBM Software Support</u> team to help you enable it. The High-Speed Migration (HSM) restore method supports SharePoint Online, OneDrive, Microsoft 365 Groups, Teams, and Viva Engage in both app profile authentication and service account authentication, and HSM restore jobs can support restoring content larger than 15 GB. For details, refer to <u>"High Speed</u> Migration (HSM) Restore Method" on page 109.
- By default, the restore job will restore the Planner task's attachment link to the target. If you want to restore the latest files in the attachment of the Planner tasks, contact the <u>IBM Software Support</u> team for assistance.
- Remove Unprotected Data If you are a BYOS customer and are looking to save storage space by removing unprotected data, contact the <u>IBM Software Support</u> team to enable this feature for your environment. For more details, refer to "Remove Unprotected Data" on page 141.
- The Storage Consumption report displays the backup data size in storage, its growth, and trends to help administrators to monitor and manage the storage consumption. By default, this report is not available. If you want to enable this report, contact the <u>IBM Software Support</u> team. For details, refer to <u>"View</u> Storage Consumption Report" on page 147.
- The hidden lists in SharePoint sites (including SharePoint Online sites, Teams team sites, Group team sites, Viva Engage community sites, and Project Online sites) are now excluded from the backup scope for better performance. If you want to include the hidden lists in your backup, contact <u>IBM Software</u> Support for assistance.
- The hidden folders in the mailboxes (including Exchange Online mailboxes, Group mailboxes, and Teams group mailboxes) will be excluded from the backup for better performance. If you want to include the hidden folders in your backup, contact IBM Software Support for assistance.

Microsoft Graph API Beta Version in Use

IBM Storage Protect for Cloud Microsoft 365 leverages Microsoft Graph beta APIs (the APIs in preview) for some operations that are currently unsupported by version v1.0. The features using the following beta APIs may be affected if Microsoft introduces changes to their beta APIs.

Refer to the table below for the beta version API methods of Microsoft Graph that we use in IBM Storage Protect for Cloud Microsoft 365.

Category	API Method	Is it available in the 1.0 version?	Then, why do we use the Beta version?
Group membership	Get all group owners	Yes	This method in the Beta version can be used to detect the Exchange Online license.
	Get all group members	Yes	This method in the Beta version can be used to detect the Exchange Online license.
Channel message	Get all channel messages	Yes	These methods in the 1.0 version currently do not support the Delegated permission type. If you are not using service account authentication, IBM Storage Protect for Cloud will use the version 1.0 Graph APIs for channel messages.
	Get a channel message	Yes	
	Get all channel message replies	Yes	
	Get a reply to a channel message	Yes	
	ChatMessages: delta	Yes	

Chapter 2. Use Cases

To learn how IBM Storage Protect for Cloud Microsoft 365 can help you restore lost data and complete other operations, review the use cases.

Use Case - Want to Delegate Restore Permissions?

Event:

Your organization has offices in different regions and has different administrators to manage data. You need a solution to delegate the administration of the backup data to different users or teams.

Resolution:

The IBM Storage Protect for Cloud Microsoft 365 Account Management feature is a security trimming solution for restore operations. It provides a built-in Administrator group with full control permission to IBM Storage Protect for Cloud Microsoft 365. Administrators can add groups through Account Management and grant their Restore permissions to the objects segregated by containers of different service types.

Use Case - Want to Restore Exchange Online Data?

Event:

Tom discovers that he accidentally deleted an important email, and it has already been deleted from his recycle bin. He comes to you, his IT Administrator, for help recovering the email.

Problem:

Native restore functionality in Exchange Online cannot restore an email that was deleted more than 90 days ago. You ask Tom if he remembers when he deleted the email, but he does not recall when he deleted it.

Resolution:

You have an IBM Storage Protect for Cloud Microsoft 365 account and already have the Exchange Online backup service enabled for the backup of the Mailbox container where his mailbox resides. You log into IBM Storage Protect for Cloud Microsoft 365 to recover Tom's deleted email. Tom remembers a keyword that is contained within the subject field of the email, but he cannot remember when he deleted the email. You can use IBM Storage Protect for Cloud Microsoft 365's **Advanced Search** to conduct a keyword-based search to recover the email. If Tom remembers when he deleted the email, you can refine your search to select a date on the backup calendar that is before he remembers deleting the email to recover the backup data and then restore Tom's deleted email.

To get started with IBM Storage Protect for Cloud services, refer to <u>Chapter 6</u>, <u>"Get Started," on page 31</u>. For more information on restoring Exchange Online data, refer to <u>"Restore Exchange Online Data" on page 110</u>.

Tom discovers that he accidentally deleted a SharePoint Online folder, and it has already been deleted from his SharePoint Online recycle bin. He comes to you, his IT Administrator, for help recovering the folder.

Problem:

Native restore functionality in Microsoft 365 does not enable you to restore a single folder, but rather the entire site would need to be restored, which would interrupt Tom's other business activities. Tom wants his folder back and all the documents contained within it with minimal impact on his day.

Resolution:

You have an IBM Storage Protect for Cloud Microsoft 365 account and have the SharePoint Online backup service enabled for the backup of the SharePoint Online container where this folder resides. You log into IBM Storage Protect for Cloud Microsoft 365 to recover Tom's deleted SharePoint Online folder. Tom remembers the URL of the site collection that his folder was originally stored in, so you enter the URL in the **URL** field and search for the folder. After you find the folder in the search results, you can restore it back to its original location.

To get started with IBM Storage Protect for Cloud Microsoft 365, refer to <u>Chapter 6</u>, "<u>Get Started</u>," on <u>page 31</u>. For more information on restoring SharePoint Online data, refer to <u>"Restore SharePoint Online</u> Data" on page 112.

Use Case - Want to Restore OneDrive Data?

Event:

Tom left the company six months ago. Tom stored many business documents in his personal OneDrive site. Bob, Tom's boss, would like access to one of Tom's OneDrive libraries because he knows Tom stored many important business documents there. Bob comes to you, his IT Administrator, and asks you to transfer Tom's OneDrive library to Bob's OneDrive site.

Problem:

When Tom left the company, his OneDrive site was automatically deleted. You know that you cannot restore the deleted site using the OneDrive native restore functionality because the retention period has passed.

Resolution:

You have an IBM Storage Protect for Cloud Microsoft 365 account and have the OneDrive backup service enabled for the backup of this OneDrive site. You log into IBM Storage Protect for Cloud Microsoft 365 to recover Tom's deleted library. You select Tom's username for OneDrive from the drop-down list in the **Name** field, and you search all lists and libraries that are contained in the site. After you find the correct library in the search results, you can restore it to Bob's OneDrive site.

To get started with IBM Storage Protect for Cloud Microsoft 365 services, refer to <u>Chapter 6</u>, <u>"Get</u> <u>Started," on page 31</u>. For more information on restoring OneDrive data, refer to <u>"Restore OneDrive Data"</u> <u>on page 116</u>.

Tom and three of his colleagues are owners of a Microsoft 365 Group. Tom did not think anyone used this Microsoft 365 Group anymore, so he deleted it. Tom discovered that his colleagues still used the group, and they want to continue using the group. Tom comes to you, his IT Administrator, for help recovering the deleted Microsoft 365 Group.

Problem:

Tom did not remember when he deleted that group, so you need to check if this group still exists in the Microsoft 365 recycle bin. The default data retention period in the Microsoft 365 recycle bin is 30 days. If the retention period has passed, Tom's deleted Microsoft 365 group cannot be restored using Microsoft 365 native restore functionality.

Resolution:

You have an IBM Storage Protect for Cloud Microsoft 365 account and already have the Microsoft 365 Groups backup service enabled for the backup of the Microsoft 365 Group container where this group resides. You log into IBM Storage Protect for Cloud Microsoft 365 to recover Tom's deleted Microsoft 365 Group. You select the group name from the drop-down list in the **Name** field and search the backup data of this group. The IBM Storage Protect for Cloud Microsoft 365 Groups service automatically checks group status in Microsoft 365. If the group is detected in soft-deleted status, you can choose to either restore the entire group from the Microsoft 365 recycle bin to its last known good state, or restore the group or its contents from the backup data to its original location.

To get started with IBM Storage Protect for Cloud Microsoft 365, refer to <u>Chapter 6</u>, "<u>Get Started</u>," on <u>page 31</u>. For more information on restoring Microsoft 365 Groups data, refer to <u>"Restore Microsoft 365</u> Groups Data" on page 120.

Use Case - Want to Restore Project Online Data?

Event:

Tom discovers that he accidentally deleted a project, and it has already been deleted from his Project Online recycle bin. He comes to you, his IT Administrator, for help recovering the project.

Problem:

Native restore functionality in Microsoft 365 does not enable you to restore a single project, but rather the entire site would need to be restored, which would interrupt Tom's other business activities. Tom just wants his project back and all items contained within it with minimal impact on his workday.

Resolution:

You have an IBM Storage Protect for Cloud Microsoft 365 account and have the Project Online backup service enabled for the backup of the Project Online container where this project resides. You log into IBM Storage Protect for Cloud Microsoft 365 to recover Tom's deleted project. Tom remembers the URL of the site collection that his project was originally stored in, so you enter the URL in the **URL** field and search for the project. After you find the project in the search results, you can restore it back to its original location.

To get started with IBM Storage Protect for Cloud Microsoft 365, refer to <u>Chapter 6</u>, "<u>Get Started</u>," on page 31. For more information on restoring Project Online data, refer to <u>"Restore Project Online Data" on page 124</u>.

Tom discovers that he accidentally deleted an important file from a public folder. He comes to you, his IT Administrator, for help recovering the file.

Problem:

Native restore functionality in Exchange Online Public Folder cannot restore a file that has been deleted more than 90 days ago. Tom does not recall when he deleted the file.

Resolution:

You have an IBM Storage Protect for Cloud Microsoft 365 account and already have the Public Folder backup service enabled for the backup of the Public Folder where that file resides. You log into IBM Storage Protect for Cloud Microsoft 365 to recover Tom's deleted file. Tom remembers a keyword that is contained within the file name, but he cannot remember when he deleted the file. You can use IBM Storage Protect for Cloud Microsoft 365's **Advanced Search** using the **Subject Name** field to conduct a keyword-based search to recover the file. If Tom remembers when he deleted the file, you can refine your search to select a date on the backup calendar that is before he remembers deleting the file to recover the backup data and then restore Tom's deleted file.

To get started with IBM Storage Protect for Cloud Microsoft 365, refer to <u>Chapter 6</u>, "<u>Get Started</u>," on page 31. For more information on restoring Public Folders data, refer to <u>"Restore Public Folder Data"</u> on page 127.

Use Case - Want to Restore Teams Data?

Event:

Tom is the owner of his department's team in Microsoft Teams. Two months ago, he deleted one of his Team's channels; however, today, he realized that the deleted channel contains a file that he now needs access to. Tom comes to you, his IT Administrator, for help recovering the deleted channel.

Problem:

You cannot restore Tom's deleted channel using Microsoft 365 native restore functionality because the retention period has already expired.

Resolution:

You have an IBM Storage Protect for Cloud Microsoft 365 account and already have the Teams backup service enabled for the backup of the team where the channel resides. You log into IBM Storage Protect for Cloud Microsoft 365 to recover Tom's deleted channel. You select the team name from the drop-down list in the **Name** field and search the backup data of this team. After you find the correct backup data of the channel in the search results, you can restore it back to its original location. The conversations in this Channel will be restored as HTML files to the Files tab.

To get started with IBM Storage Protect for Cloud Microsoft 365, refer to <u>Chapter 6</u>, <u>"Get Started," on</u> page 31. For more information on restoring teams, refer to <u>"Restore Teams Data" on page 129</u>.

Some Teams chat messages of Microsoft 365 users were removed after an accidental change was made to the retention policies.

Problem:

You cannot restore the Teams chat data using Microsoft 365 native restore functionality.

Resolution:

You have an IBM Storage Protect for Cloud Microsoft 365 account and have the Microsoft Teams Chat backup service enabled for the backup of the Microsoft 365 users. You can use the Restore wizard to search and select the chat messages to export. The chat messages can be exported to HTML files.

To get started with IBM Storage Protect for Cloud Microsoft 365, refer to <u>Chapter 6, "Get Started," on</u> page 31. For more information on restoring teams, refer to <u>"Export Teams Chat Messages" on page 103</u>.

Use Case - Want to Restore Viva Engage Data

Event:

The Human Resources team would like to retrieve messages posted in the All Company Viva Engage community that relate to company events. They contact you, their IT Administrator, for help recovering the deleted Viva Engage posts.

Problem:

The retention period for some of the messages has expired, and they are now permanently deleted.

Resolution:

You have a IBM Storage Protect for Cloud Microsoft 365 account and already have the Viva Engage backup service enabled for the backup of the Viva Engage community. You can use the Viva Engage service to restore or export Viva Engage messages. To locate the Viva Engage messages from the backup, you can browse to the corresponding recovery point and search for the messages with keywords. The messages that contain the searched keywords within the first 100 characters will be displayed in search results.

To get started with IBM Storage Protect for Cloud Microsoft 365, refer to <u>Chapter 6</u>, <u>"Get Started</u>," on page 31. For more information on restoring teams, refer to <u>"Restore Viva Engage Data"</u> on page 134.

Use Case – Want the Ability to Detect a Potential Ransomware Attack and Safely Recover Encrypted Files?

Event:

You are the IT Admin at a large organization. Joe, who is a member of the Marketing team, had a file in his OneDrive account that got encrypted in a ransomware attack. A OneDrive sync brought the file into the cloud. Joe is unaware that the attack occurred.

Problem:

Native Microsoft 365 solutions, such as versioning, offer protection against some attacks, but there are also limitations that do not always offer full protection. As the IT Admin at a large organization, you have many responsibilities that can be very time-consuming. However, you want to ensure that employees, such as Joe, are protected from ransomware attacks, 26 and you want to ensure that you can mitigate and/or minimize any potential damage in the event of an attack before it is too late.

Resolution:

To ensure your organization is safe from ransomware attacks, you want to have early detection in place along with options for a safe restore in the event of an attack. You have a IBM Storage Protect for Cloud Microsoft 365 account in place with OneDrive already set up to be protected with regular backups in place. Plus, IBM Storage Protect for Cloud Microsoft 365provides early detection when any changes occur that may indicate suspicious behavior. You selected the option to send email notifications for jobs that have **Potential Ransomware Detected**, and as the IT admin, you will now receive an email notification alerting you if a potential ransomware attack has been detected. You can then review the details in the **Microsoft 365 Unusual Activities Analysis Report**, find the date detected to have had a potential ransomware attack, and browse to a safe recovery point to either restore Joe's entire OneDrive or restore the individual encrypted file back to a healthy state.

Note: This report requires Joe's OneDrive to have at least 12 days of successful backups with incremental changes.

For details, refer to "Use Microsoft 365 Unusual Activities Analysis Report" on page 149.

Use Case - Want to Obtain a Better Understanding of Your Subscription Consumption?

Event:

Your organization uses IBM Storage Protect for Cloud Microsoft 365 to protect your Microsoft 365 tenant. The IT team wants to fully monitor the subscription consumption, from the application level down to an individual object level such as a site collection, mailbox, OneDrive for an object, group, or team, to understand and identify trends in utilization.

Resolution:

The Subscription Consumption Report provides a complete breakdown of subscription utilization and consumption. The report includes the following components: a dashboard which provides full subscription details, the Usage tab that points out trends in utilization including spikes (i.e. migrations), identifies top storage consumers, highlights the growth rates of data in your environment, and displays the consumed subscription of each protected object along with the ranking in its service type in the Utilization tab. The reports are also downloadable in CSV format.

For details, refer to Chapter 22, "View Subscription Consumption Report," on page 143.

Use Case - When Do I Need Container Specific Retention Policies?

Event:

You may have used IBM Storage Protect for Cloud Auto Discovery and distributed your assets to different containers based on how your organization is defined: member firms, domains, geo-locations, offices, departments, roles, etc. The administration of backup data for different containers can be delegated to different users or groups. At the same time, it may also require the flexibility to pick up specific retention policies for each container.

Resolution:

If you have purchased a BYOS subscription or have been using default IBM Storage Protect for Cloud storage with an unlimited retention subscription, you can customize the retention policies for each service type and each container. Note that the default retention period applied on your own storage is one year. You need to manually update the retention year on the **Retention Policy** page if you want to retain the data longer.

For details, refer to Chapter 14, " Configure Retention Policy ," on page 85.

20 IBM Storage Protect for Cloud Microsoft 365: User Guide

Chapter 3. Supported Browsers

The table below outlines the required browser versions to support IBM Storage Protect for Cloud Microsoft 365.

Browser	Version
Google Chrome	The latest version
Mozilla Firefox	The latest version
Safari	The latest version
Microsoft Edge based on Chromium	The latest version

22 IBM Storage Protect for Cloud Microsoft 365: User Guide

Chapter 4. FAQs

Refer to the frequently asked questions and answers divided into the following categories: license and subscription, security and integrity, and backup and restore.

License and Subscription

If a user's Microsoft 365 license expires, will their data become unprotected?

Refer to the table below for reaction details for each backup service:

Note: Only when the object being removed from the backup scope still exists in Microsoft 365 will the backup data of the object be moved to the unprotected scope for deletion and detected by the **Remove Unprotected Data** report. For details, refer to <u>"Remove Unprotected Data" on page 141</u>. By default, the Remove Unprotected Data feature does not support BYOS customers or trial licenses.

Service Type	Reactions
Exchange Online	Service account authentication and app profile cannot detect the users' mailboxes if their mailboxes become inactive or their license has expired, and the backup data of these mailboxes will be kept until the data retention date is reached.
	If the service account or app has not been assigned the Exchange Administrator role in Microsoft Entra ID, the backup data of the users' mailboxes will be detected by the Remove Unprotected Data report. To ensure the integrity of backup data, make sure you have assigned the Exchange Administrator role.
OneDrive	If the user's My Site still exists in Microsoft 365 and is included in the backup scope, the site can still be discoverable to IBM Storage Protect for Cloud and protected, regardless of the license.
	If the user has been deleted from Microsoft 365, the user's OneDrive not be protected, but its backup data will be kept.
Project Online	License expiration does not affect the Auto Discovery but will fail the backup.

I am currently using IBM Storage Protect for Cloud default storage to store backup data. If I end my subscription, would I ever be able to recover the backup data from IBM Storage Protect for Cloud?

When an Enterprise subscription ends, IBM Storage Protect for Cloud will retain the backup data in IBM Storage Protect for Cloud storage for 60 days, subject to the terms of your service agreement. The backup data in IBM Storage Protect for Cloud storage can be exported to your own storage as a paid service. You must submit an export request if you wish to export your data from IBM Storage Protect for Cloud storage. The data deletion process in IBM Storage Protect for Cloud default storage will start 30 days after the expiration date. If you renew the subscription before the deletion completes, you may be able to keep the old backup data and use it for data recovery.

If you have the BYOS (bring your own storage) subscription, the backup data will remain in your own storage until you delete it, and you will not need to pay an export fee.

Note that the backup data is stored in IBM Storage Protect for Cloud format and not as pure copies of Microsoft 365 data. Therefore, before you move away from the product, ensure you have exported the encryption key in case you will not be able to sign in to the IBM Storage Protect for Cloud Microsoft 365 interface once your subscription has ended. For details on exporting encryption keys, refer to <u>"Export</u> Encryption Key" on page 71.

If you would like additional details or assistance with this process, contact <u>IBM Software Support</u>. For more details, refer to Chapter 28, "Introduction to the Data Export Service," on page 159.

Features unavailable in trial subscription

The following features are unavailable to trial users:

- Change backup scope
- Remove Unprotected Data
- Storage Consumption Report

What features are available for different subscription types?

Refer to the list below for the supported/unsupported features in Core and Flex subscriptions:

Note the following:

• An additional cost is required to enable Backup Data eDiscovery. For details, refer to <u>Backup Data</u> eDiscovery.

Features		Standard
Storage IBM Storage Protect for Cloud hosted storage		Supported
	Bring your own storage	Supported
Unlimited retention		Supported
Back up Recordings folder		Supported
Manually Delete Backup Data		Supported

If I purchase the Power Platform subscription by capacity, how can I get the number of Power BI workspaces, Power Automate flows, and Power Apps in my environment?

To get the number of Power BI workspaces, Power Automate flows, or Power Apps, refer to the following Microsoft articles:

- For Power BI workspaces, see Manage workspaces.
- For Power Automate flows, see View analytics for cloud flows.
- For Power Apps, see Admin Analytics for Power Apps.

You can check their types and filter out the items which can be protected in IBM Storage Protect for Cloud Microsoft 365 according to Power BI Data Types, Power Automate Data Types, and Power Apps Data Types.

What happens to my backup data if I switch IBM Storage Protect for Cloud default storage between Microsoft Azure Blob Storage and Amazon S3, where does backup data store?

When you change the IBM default storage type (between Microsoft Azure Blob Storage and Amazon S3), you have two options to handle your legacy backup data:
- Keep the legacy data in the old storage: Your existing backup data will remain in the old storage and will be kept according to the retention policy. Cloud Backup for Microsoft 365 will initiate a new full backup job to the new storage, and subsequent incremental backups will follow the initial full backup.
- **Migrate the legacy data to the new storage :** You can transfer your existing data from the old storage to the new one first. Then you do not need to run a new full backup job in new storage and the incremental backups will run directly. Note that the migration process will involve downtime and potential costs. For details, contact the IBM support.

You can keep the legacy data in the old storage and the backup data will be kept according to the retention policy. IBM Storage Protect for Cloud Microsoft 365 will run a new full backup job to the new storage, and the incremental backup job will run after that.

You can also move the legacy data from old storage to new one first. Then you do not need to run a new full backup job in new storage and the incremental backup job will run directly. Note that downtime and cost are required for the migration. For details, contact IBM support.

When I renew my IBM Storage Protect for Cloud Microsoft 365 subscription, what will happen to my data retention settings?

Upon subscription renewal, your data retention settings will be adjusted based on a comparison between the new and previous retention period:

- If the new subscription has a shorter retention period: Your retention periods will be automatically adjusted to match the new subscription limits.
- If the new subscription has the same or longer retention period: No changes will be made to your existing retention settings.

To verify your configuration and ensure you are aware of any changes, refer to **Settings** > **Retention**. Additionally, you will receive notification emails 90 days, 60 days, and 30 days before any data deletion. Upon subscription renewal, a notification email will advise you to check and update your retention settings in IBM Storage Protect for Cloud Microsoft 365 as needed.

Security and Integrity

Does IBM Storage Protect for Cloud Microsoft 365 Support Data Deduplication and Compression?

IBM Storage Protect for Cloud Microsoft 365 applies standard .zip compression to data. Though our DAT files can support deduplication algorithms, we currently do not support deduplication on Blob storage as this necessitates a physical/virtual storage system that is not as cost-effective as Azure Cold storage. Additionally, since our backup data is encrypted and the encryption key is dynamic, the deduplication performance may not be optimal.

My organization plans to use the Customer Key feature in Microsoft 365, so we will be in control of our own encryption keys for our data in Microsoft 365. Will IBM Storage Protect for Cloud Microsoft 365 back up and restore this data if it is enabled?

The customer key feature in Microsoft 365 encrypts the data at rest in Microsoft 365, which indicates that Microsoft cannot access this encrypted data. However, IBM Storage Protect for Cloud Microsoft 365 uses user credentials or app profiles to access customer data with an API, same as the end user accessing scenario where the data will be decrypted to real content. Therefore, the backup and restore service will not be affected. For more details, you can refer to <u>Customer Key Overview</u> from the Microsoft website.

Is backup data immutable?

Yes, IBM Storage Protect for Cloud ensures that backup data is immutable, and we employ several measures to protect and control access to always encrypts the backup data:

- Encryption: Backup data is encrypted using with unique keys for each tenant. All data in transit is encrypted utilizing TLS 1.2/1.3 and IBM strictly uses officially supported APIs which maintain encrypted connections for backups. Data at rest is secured by default with an IBM-managed key, although customers can choose to use their own keys.
- **Storage Isolation:** IBM allows customers the choice of isolating their data to a single region, support for multi-geo configurations, and customer-owned storage, so that the data remains physically isolated within the region, never replicated across data center regions.
- **Logical Isolation:** IBM Storage Protect for Cloud operates separately from your production environment. It includes delegated administration and role-based access controls to prevent unauthorized users from modifying or deleting backups.
- **Immutable Storage:** Backup data copies cannot be directly accessed through the product user interface or API and cannot be compromised by either privileged or non-privileged users of the platform. Data can only be exported, restored to production, or defensibly destroyed when a pre-defined data retention policy is met.

Under special circumstances, customers may request manual deletion of data through IBM Support, which requires verification. IBM also allows authorized admins to handle the DSAR (Data Subject Access Request) by removing personal information from the systems as requested. The DSAR can also be disabled completely within our platform for an added level of protection.

• **Ransomware Protection:**IBM Storage Protect for Cloud learns from your backups and alerts you of unusual activities that could indicate a compromise or ransomware attack. Recovery points prior to the incident are clearly identified, and alerts can be configured to reach administrators to minimize the impact of a breach.

Public APIs

I am using a backup reporting software. May I pull the daily job information into that software to monitor my IBM Storage Protect for Cloud Microsoft 365?

Yes. You can use the public APIs that IBM Storage Protect for Cloud provide to get the audit records, subscription consumption, and job information of IBM Storage Protect for Cloud Microsoft 365. For details, refer to https://www.ibm.com/docs/en/SSHG09_test?topic=storage-protect-cloud-web-api.

Backup and Restore

Will the backup services survive if my tenant blocks access from the apps that don't use modern authentication?

From the July 2022 release, all IBM Storage Protect for Cloud Microsoft 365 using service accounts support modern authentication. But if the service account has enabled the MFA, the modern authentication will not work, and we will use the classic authentication.

How to add permissions to an admin role in the Exchange admin center?

If you are using a service account in Auto Discovery to scan Exchange Online mailboxes, you must ensure the **ApplicationImpersonation** permission has been added to the admin role of this service account via the Exchange admin center.

Follow the steps below to add permissions to an admin role in the Exchange admin center:

1. In the Exchange admin center, go to **Roles > Admin roles** on the quick launch panel.

- 2. Click the admin role group of the service account. The details of the role group are displayed in the right panel.
- 3. Click the **Permissions** tab.
- 4. Scroll down the list and select the checkbox ahead of **ApplicationImpersonation** permission.
- 5. Click **Save** to save your changes.

How to remove the admin role from a service account or an authentication user of the delegated app?

To remove the administrator role of the service account from all OneDrive sites, download the script.

To remove the administrator role of the service account from all SharePoint sites, refer to download $\underline{\text{the}}$ script.

To remove the user from all teams and groups, either as owner or member, refer to download the script.

To remove the user from all apps, refer to download the script.

To remove the user from all flows, refer to download the script.

To remove the user from all workspaces, download the script.

What can I do if I cannot find my backup data for channel files through a time-based restore wizard?

If your Team's channel name is not in English, Dutch, Japanese, or German, you may encounter this problem. When you go to use the time-based restore wizard to browse a channel's backup data (select a backup job to drill down to the backup data), you may find that no folders or files are displayed under the channel's Files folder. This is because the index for channel backup data is recorded with channel names, but so far, only the backup data of the channels whose names are in English, Dutch, Japanese, and German can be mapped. You can contact the <u>IBM Software Support</u> team for assistance.

What if my site collection URL has been updated after backup? (applicable for SharePoint Online sites, Microsoft 365 Groups team sites, and Teams team sites)

IBM Storage Protect for Cloud Microsoft 365 will start a full backup on this site collection if it is included in the backup scope. Moving forward, to recover the data from previous backups, you must perform an out-of-place restore to restore the backup of the old-URL site collection to the new-URL site collection.

If the site collection, in this case, is a Microsoft 365 Groups or Teams team site, IBM Storage Protect for Cloud Microsoft 365 will also perform a full backup on this site, and the previous backup data of the site can only be restored via an out of place restore. For the object-based restore method, you can search for the backup data of the old-URL site via the keywords; for the time-based restore method, you can find the old-URL site from the backup jobs performed before the URL changes.

What if my SharePoint domain name has been changed after backup?

You can change the SharePoint domain name for your organization in Microsoft as introduced in this Microsoft article: <u>Rename your SharePoint domain</u>. This change will affect the SharePoint sites, Team/ Group team site, and OneDrive.

If your Auto Discovery scan profile uses a domain name as the scan rule, you will need to update the scan rule for Auto Discovery. After the Auto Discovery scan job is finished, IBM Storage Protect for Cloud Microsoft 365 will run a full backup for the objects with new URLs; If the old URLs can still be accessed, the old URLs will be moved to the unprotected scope, and their backup data will be deleted on time. If the old URLs are no longer accessible, the backup data will only be deleted when it reaches the retention period.

Where is Wiki data stored and how to restore?

The wiki data is stored in a hidden list in the Teams team site named by **ChannelID_wiki**. To get the ID of the channel where the Wiki tab resides, sign into <u>https://teams.microsoft.com</u>, and click the channel where the Wiki tab resides. You can get the channel ID (**threadId=**) from the URL.

Microsoft Teams channel no longer supports Wiki tab. You can download your Wiki SharePoint or use IBM Storage Protect for Cloud Microsoft 365 to export the Wiki backup data.

What if my Project Online site has been moved to the SharePoint Online site after backup? (same as Microsoft 365 Group to Team, SharePoint Online site to Group team site)

The objects in your tenant may be moved to another type after being backed up, such as the following cases in the table. The objects in these cases will continue to be protected by the service they are moved to, and IBM Storage Protect for Cloud Microsoft 365 will keep their previous backup data until the backup data reaches the retention date. They will not be regarded as objects moved to the unprotected scope for deletion.

Note: If a SharePoint Online site is connected to a Microsoft 365 Group (groupified site), IBM Storage Protect for Cloud will keep it in both the **SharePoint Sites** container and the **Microsoft 365 Groups** container. IBM Storage Protect for Cloud Microsoft 365 will protect this site in the corresponding container separately as you selected. To keep the previous backup data, ensure that the SharePoint site is included in the backup scope. Otherwise, the SharePoint site will be moved to the unprotected scope for backup data deletion.

From	То
Project Online sites	SharePoint Online sites
Microsoft 365 Group	Team
SharePoint Online site	Microsoft 365 Group team site

Can IBM Storage Protect for Cloud Microsoft 365 protect the mailboxes on Litigation Hold?

IBM Storage Protect for Cloud Microsoft 365 can protect mailboxes that are placed on Litigation Hold but cannot keep the Litigation Hold configuration for the mailboxes since that configuration needs to be configured in Exchange Admin, which is out of reach of Exchange Online backup and restore.

I have a document that was shared with an external user. Does IBM Storage Protect for Cloud Microsoft 365 support restoring the external user and its permissions that were part of that document?

For an external user who has been added to your Microsoft Entra ID, the user's permissions will be kept when the document that this user is shared with has been restored. Currently, if an external user has accessed the shared item, the restore job will restore this user and the user's permission to this item and trigger the external sharing email notification. If an external user has not yet accessed the item, the user's permission will not be restored, and the external user can no longer use the previous sharing link to access the document.

How do I restore term store-only data?

You can choose the following solutions:

- If you want to restore the entire global term store data, perform the restore as the following:
 - 1. Select any site collection from the backup data and then select a useless or an empty site collection as the destination.

- 2. Choose the **Restore terms in both global term store and site term store**option for the restore setting "How do you want to restore the Managed Metadata Service?"
- 3. Use **Skip** as the conflict resolutions to perform a restore job.
- 4. After the restore completes, you can delete the site collection from the destination.
- Currently there is not a method to only restore the entire site store only. You can use the following method as a workaround, but the objects with no conflicts will be restored to the destination as well. Perform the restore as the following:
 - 1. Select that site collection to restore.
 - 2. Choose the **Restore terms in site term store only**option for the restore setting "How do you want to restore the Managed Metadata Service?"
 - 3. Use **Skip** as the conflict resolutions to perform a restore job.

How does IBM Storage Protect for Cloud Microsoft 365 protect the OneNote notebooks?

As Microsoft has a 2 GB file size limit of OneNote notebooks saved in OneDrive or SharePoint, backup jobs will skip the OneNote files that are larger than 2 GB. In addition, due to API limitations, IBM Storage Protect for Cloud Microsoft 365 cannot protect the history versions of OneNote files.

What will the exported Teams Chat messages be like?

We support exporting Teams Chat messages to an HTML file.

Notification

I purchased the backup service from a service provider. Regarding email notifications sent to the administrator group, which group will receive the notifications: the service provider's administrator group or my administrator group?

The recipient of the email notification depends on the service provider's access to your IBM Storage Protect for Cloud environment.

- If the service provider has access, the email notifications will be sent to the service provider's administrator group.
- If the service provider does not have access, the email notifications will be sent to your administrator group.

Storage

How backup data can be stored in your Azure blob storage?

If you are using your own **Microsoft Azure Blob Storage** (BYOS subscription), you may be interested in how the backup data is stored in Azure Blob storage.

For BYOS customers using Azure Blob storage, IBM Storage Protect for Cloud will write your new backup data to the cold tier by default reduce storage costs. The supported Azure storage account types are **StorageV2** and **BlobStorage** of **Standard** performance type. For existing customers, your former backup data are still stored in the cool tier. This intelligent tiering also extends to additional BYOS storages appended to the system. Note that it is not available if your storage region is Qatar Central (Doha) or you are using Cloud Backup for Microsoft 365 in the data center operated by 21Vianet in China.

To use your Azure blob storage in the most cost-effective manner, you can also store the backup data to the archive tier. For new customers after the January 2024 release, IBM will set archives to cycle every 180 days by default. If you are an existing customer with the archive settings configured before, you will continue with your current setup.

Hot Tier	Cold Tier	Archive Tier
Index database	The backup job stores backup data to the cold tier automatically from the January 2024 release and will always keep at least a full backup cycle in the cold tier.	Older backup data can be moved to the archive tier.

Does IBM Storage Protect for Cloud Microsoft 365 use HTTPS (SSL) for Amazon S3 communication?

Yes. IBM Storage Protect for Cloud Microsoft 365 uses HTTPS (SSL) instead of HTTP to access Amazon S3 by default. For details on Amazon S3 storage configuration, refer to <u>"Storage Information" on page 77</u>.

Will your backup services incur additional costs on BYOS storage during backup and restore?

Yes. For example, for BYOS customers with Microsoft Azure Blob Storage, below are the main factors to consider:

Table 1. BYOS customers with Microsoft Azure Blob Storage			
Additional Costs	Comment		
Data storage	The cost to store backup data. For information on storage tiers for different storage types, refer to Storage Information		
Data read & write operations	During a backup job in IBM Storage Protect for Cloud, data will be written to the customer's BYOS storage. Similarly, during a restore job, data will be read from the storage. Data are stored in blobs which are around 10 to 50 MB in size. Each blob will incur one operation.		
Data retrieval	Additional costs apply for data retrieval during restore jobs. These costs vary depending on the storage tier.		
Data transfer	The primary cost concern is data transfer out. If your default Azure Blob Storage is the same region as the data center you signed up for in IBM Storage Protect for Cloud, there will be no transfer costs. Otherwise, additional charges will be incurred.		

Chapter 6. Get Started

Before you start using IBM Storage Protect for Cloud Microsoft 365, you must obtain a full license to IBM Storage Protect for Cloud Microsoft 365 and configure the Auto Discovery profile to scan the objects you want to protect.

- To find out how IBM charges for licenses for IBM Storage Protect for Cloud Microsoft 365, refer to Subscription and Licensing Information.
- If your Microsoft 365 tenant has a Multi-Geo enabled (Microsoft 365 Multi-Geo), you can start by going to the Manage Data Center Mappings in IBM Storage Protect for Cloud to review and map the list of geo locations from your Microsoft 365 tenant we've detected and the supporting data centers.

Note: The mapping for SharePoint Online sites depends on the region of the SharePoint Administrator.

• IBM Storage Protect for Cloud Auto Discovery now leverages the app profile authentication to scan and register the objects that you want to protect in IBM Storage Protect for Cloud Microsoft 365. Before you create an Auto discovery scan profile, you must create app profiles for the services and objects that you want to enable or protect. For the app profile that you must prepare with the least permissions for a specific backup service, refer to <u>"Enable Backup Service" on page 31</u>. You can also get an overall reference from the "Configure Auto Discovery" on page 43 section.

Note: If your tenant is Multi-Geo, you will want to ensure you are using the filters provided in the advanced scan mode to separate the mailboxes, OneDrives, sites, and other Microsoft 365 content by their preferred data locations. We'll use these boundaries to help distribute the management for each of these containers around the world.

If your administrator has blocked access from apps that don't use modern authentication, IBM Storage Protect for Cloud Microsoft 365 jobs using a service account will now use modern authentication for the backup and restore.

When you log into IBM Storage Protect for Cloud Microsoft 365 for the first time, you will be prompted to select the objects you want to back up. For details, refer to "Set Up the Backup Wizard" on page 56.

Enable Backup Service

Before you get started with a backup service, ensure your IBM Storage Protect for Cloud Microsoft 365 subscription contains that service.

You can refer to the Subscription and Licensing Information for how IBM charges for a license.

The sections below will help you get ready to enable the backup services that you want to use:

At first, if your Microsoft 365 tenant has Multi-Geo enabled (<u>Microsoft Windows Multi-Geo</u>), you can contact support to enable the multi-geo capability for your subscription and start by going to the <u>Manage</u> <u>Data Center Mappings</u> in IBM Storage Protect for Cloud to review and map the list of geo locations from your Microsoft 365 tenant we've detected and the supporting data centers. Note that the mapping for SharePoint Online sites depends on the region of the SharePoint Administrator.

Next, you must consider which authentication method and Auto Discovery scan profile to register your objects to IBM Storage Protect for Cloud.

For the authentication method and permission requirements for Auto Discovery and Backup & Restore, continue with the following instructions.

Exchange Online

To protect Exchange Online mailboxes with IBM Storage Protect for Cloud, ensure you have at least one of the following apps configured for your tenant for the Auto discovery and data protection:

- Cloud Backup for Microsoft 365 (Exchange Online) service app.
- Microsoft 365 default app with at least the Exchange Online permissions.

• Custom app profile with the required permissions.

For details on creating an app profile, refer to . For the app permissions, refer to <u>"Required Permissions</u> of Microsoft 365 App Profile" on page 48.

Note the following for Exchange Online service using IBM Storage Protect for Cloud:

- The hidden folders in the mailboxes (including Exchange Online mailboxes, Group mailboxes, and Teams group mailboxes) will be excluded from the backup for better performance. If you want to include the hidden folders in your backup, contact IBM Software Support for assistance.
- By default, the **Deleted Items** folder and the **Junk Emails** folder will be excluded from the backup for better performance. If you want to include the folders in your backup, contact <u>IBM Software</u> Support for assistance
- In <u>Manage Scan Profiles</u>, you can select the option to scan the **In-Place Archived Mailboxes** using the app profile. By default, the **Scan in-place archived mailboxes** option is deselected, as there may be performance issues due to API limitations.

Even though you use Service Account Authentication to scan and register this type of mailbox, with hybrid approaches applied for the backup and restore of Exchange Online, IBM Storage Protect for Cloud Microsoft 365 can back up and restore this type of mailbox via app profile.

- If you would like to filter the folders to protect for **Exchange Online** or **OneDrive** service, or filter the folders within the site collections of **SharePoint Online** service, **Project Online** services, **Microsoft 365 Groups** services, or **Teams** service, you can contact the <u>IBM Software Support</u> for assistance. Note that if your subscription to IBM Storage Protect for Cloud Microsoft 365 is based on the protected data size, the total consumed data size in your subscription will not be affected by the filter policy. IBM will not exclude the size of the filtered items from the total consumed data size.
- Use Object ID instead of mailbox address as the unique identifier for Exchange Online mailboxes and Public Folders. This change has been made to the IBM Storage Protect for Cloud Microsoft 365 service. Due to this change, the mailboxes that have been re-created with the same address will no longer be regarded as the same one. This might require a broader search to ensure you find all the backup data for restoring, exporting, or deleting, the mailbox being renamed can only be found by the new name with the former backup data associated, and its former name will be displayed in its row.
- The Exchange Online service does not support protecting the Search Folders.

After your app profile is ready, go to **Auto Discovery** in the IBM Storage Protect for Cloud interface to configure a scan profile for the **Exchange Online mailboxes** that you want to protect in IBM Storage Protect for Cloud Microsoft 365. For details, refer to Auto Discovery for Microsoft 365.

Then, you can go to the IBM Storage Protect for Cloud Microsoft 365 interface to enable the backup service of Exchange Online after the Auto Discovery scan job completes.

- Refer to <u>"Set Up the Backup Wizard" on page 56</u> for details, if this is your first time signing into IBM Storage Protect for Cloud Microsoft 365.
- To enable and manage a backup service, refer to the following instructions:
 - Chapter 7, "Monitor and Manage Your Backup," on page 59
 - Chapter 9, "Change the Backup Scope," on page 63
 - Chapter 10, "Change the Backup Frequency," on page 65

- Chapter 12, "Configure Backup Settings," on page 69
- Chapter 8, "Configure Notifications," on page 61
- Chapter 11, "Disable a Backup ," on page 67

SharePoint Online

To protect SharePoint Online site collections with IBM Storage Protect for Cloud, you must have at least one of the following apps configured for your tenant for Auto discovery and data protection:

- IBM Storage Protect for Cloud Microsoft 365 (SharePoint Online) service app
- Microsoft 365 default app with at least the SharePoint Online permissions
- Custom Azure app with the required permissions

For details on creating an app profile, refer to <u>Create an App Profile</u>. For the app permissions, refer to Required Permissions of Microsoft 365 App Profile.

Note the following for the SharePoint Online service:

- The hidden lists in SharePoint sites (including SharePoint Online sites, Teams team sites, Group team sites, Viva Engage community sites, and Project Online sites) are now excluded from the backup scope for better performance. If you want to include the hidden lists in your backup, contact <u>IBM Software</u> <u>Support</u> for assistance. For the hidden lists that you can include in the backup, refer to <u>"Hidden Lists" on page 198</u>.
- If a SharePoint site is connected to a Microsoft 365 Group (a groupified site), IBM Storage Protect for Cloud will keep it in both the **SharePoint Sites** container and the **Microsoft 365 Groups** container. IBM Storage Protect for Cloud Microsoft 365 will protect this site in the corresponding container separately as you selected.
- It is possible to change the SharePoint domain name for your organization in Microsoft 365 as introduced in the Microsoft article: <u>Rename your SharePoint domain</u>. This change affects only the SharePoint and OneDrive URLs. It doesn't impact email addresses. After the domain name is changed and updated into Auto Discovery, IBM Storage Protect for Cloud Microsoft 365 will run a full backup for SharePoint Online sites and OneDrive objects with new URLs.
- If you would like to filter the folders to protect for OneDrive service or Exchange Online service, or filter the folders within the site collections of SharePoint Online service, Project Online services, Microsoft 365 Groups services, or Teams service, you can contact the IBM Software Support for assistance. Note that if your subscription to IBM Storage Protect for Cloud Microsoft 365 is based on the protected data size, the total consumed data size in your subscription will not be affected by the filter policy. IBM will not exclude the size of the filtered items from the total consumed data size.
- IBM Storage Protect for Cloud Microsoft 365 for SharePoint Online also supports protecting **Communication Sites**. When restoring a deleted Communication Site to its original location, IBM Storage Protect for Cloud Microsoft 365 supports restoring the custom design of the Communication Site in the backup. If the Communication Site is registered through App Profile, the Communication Site can only be restored with the default design. Note that the comments in Communication Sites are not currently supported.
- As the locked site collections are inaccessible, the backup job will check the lock status and skip backing up the locked site collections, which will be recorded in the job report; For read-only site collections, only the full backup job that runs once every year will back them up. Since no changes can be made to read-only site collections, the incremental backup jobs will skip them.
- The files in the SharePoint site and the mailbox items in Exchange Online that are applied with the labels created via **AIP (Azure Information Protection)** can be protected by IBM Storage Protect for Cloud Microsoft 365, as well as the applied Label. The documents applied with the sensitivity labels of DKE (Double Key EncryptionDouble Key Encryption) are also supported, but only the user who has permission can access them.
- By default, the **Preservation Hold** library is not protected by IBM Storage Protect for Cloud Microsoft 365. An additional cost is required to enable the feature. You can contact <u>IBM Software Support</u> to enable the protection for the **Preservation Hold** library.

• As Microsoft API has a 2 GB size limit to download **OneNote notebooks** saved in OneDrive or SharePoint, backup jobs will skip the OneNote files that are larger than 2 GB. In addition, due to API limitations, IBM Storage Protect for Cloud Microsoft 365 cannot protect the history versions of OneNote files.

After your authentication method is ready, go to **Auto Discovery** in the IBM Storage Protect for Cloud interface to configure a scan profile for the **SharePoint Online site collections** that you want to protect in IBM Storage Protect for Cloud Microsoft 365. For details, refer to Auto Discovery for Microsoft 365.

Then, you can go to the IBM Storage Protect for Cloud Microsoft 365 interface to enable the backup service after the Auto Discovery scan job completes.

- Refer to "Set Up the Backup Wizard" on page 56 for details, if this is your first time signing into IBM Storage Protect for Cloud Microsoft 365.
- To enable and manage a backup service, refer to the following instructions:
 - Chapter 7, "Monitor and Manage Your Backup," on page 59
 - Chapter 9, "Change the Backup Scope," on page 63
 - Chapter 10, "Change the Backup Frequency," on page 65
 - Chapter 12, "Configure Backup Settings," on page 69
 - Chapter 8, "Configure Notifications," on page 61
 - Chapter 11, "Disable a Backup ," on page 67

OneDrive

To protect OneDrive with IBM Storage Protect for Cloud, you must have at least one of the following apps configured for your tenant for auto discovery and data protection:

- IBM Storage Protect for Cloud Microsoft 365 (SharePoint Online) service app
- Microsoft 365 default app with at least the SharePoint Online permissions
- Custom Azure app with the required permissions
- For details on creating an app profile, refer to <u>App Profile for Microsoft 365</u> or <u>"Required Permissions of</u> <u>Microsoft 365 App Profile" on page 48</u>.

Note the following for the OneDrive service:

- Backup for OneDrive now uses Microsoft Graph API for improved performance. Graph API has been more focused on protecting OneDrive content, and it has some limitations, such as it cannot protect the file versions. The file version number cannot be kept either after being restored to the destination. The restored file will use version: **1.0**. You can refer to <u>"OneDrive Data Types" on page 259</u> for more details. If you require any additional assistance, contact IBM Software Support.
- IBM Storage Protect for Cloud Microsoft 365 for OneDrive will protect the **Documents** library and protect the **Site Assets** library if the site feature **Site NoteBook** is activated. The service only protects content and permissions for OneDrive since OneDrive is the cloud service used to securely store, share, and access your files.
- As Microsoft API has a 2 GB size limit to download OneNote notebooks saved in OneDrive or SharePoint, backup jobs will skip the OneNote files that are larger than 2 GB. In addition, due to API limitations, IBM Storage Protect for Cloud Microsoft 365 cannot protect the history versions of OneNote files.
- If there are security changes but no changes on the content in the sites, the scheduled incremental backup jobs will not back up the securities. Moving forward, the changes on the securities in the sites (including the SharePoint Online sites, OneDrive, and Microsoft 365 Groups/Teams team sites) that have not yet been backed up, in this case, will be included in an incremental backup once a week.

If there are some items in a site failed in a backup but no changes on the content in the site for the next backup, the scheduled incremental backup jobs will not back up these failed items. Moving forward, they will be included in an incremental backup once a week.

- If you would like to filter the folders to protect for OneDrive service or Exchange Online service, or filter the folders within the site collections of SharePoint Online service, Project Online services, Microsoft 365 Groups services, or Teams service, you can contact the IBM Software Support for assistance. Note that if your subscription to IBM Storage Protect for Cloud Microsoft 365 is based on the protected data size, the total consumed data size in your subscription will not be affected by the filter policy. IBM will not exclude the size of the filtered items from the total consumed data size.
- IBM Storage Protect for Cloud Auto discovery now supports including orphaned OneDrive in scan profiles of OneDrive but the objects cannot be synchronized to IBM Storage Protect for Cloud Microsoft 365.

After your app profile is ready, go to the **Auto discovery** in IBM Storage Protect for Cloud interface to configure a scan profile for the **OneDrive users** that you want to protect in IBM Storage Protect for Cloud Microsoft 365. For details, refer to Auto Discovery for Microsoft 365.

Then, you can go to IBM Storage Protect for Cloud Microsoft 365 interface to enable the backup service of OneDrive after the Auto Discovery scan job completes.

- Refer to <u>"Set Up the Backup Wizard" on page 56</u> for details, if this is your first time signing into IBM Storage Protect for Cloud Microsoft 365.
- To enable and manage a backup service, refer to the following instructions:
 - Chapter 7, "Monitor and Manage Your Backup," on page 59
 - Chapter 9, "Change the Backup Scope," on page 63
 - Chapter 10, "Change the Backup Frequency," on page 65
 - Chapter 12, "Configure Backup Settings," on page 69
 - Chapter 8, "Configure Notifications," on page 61
 - Chapter 11, "Disable a Backup ," on page 67

Microsoft 365 Groups

Microsoft 365 Groups service will protect the group team site, group mailbox, and the planner data.

For a detailed list of data types supported and unsupported by IBM Storage Protect for Cloud Microsoft 365, refer to <u>"Microsoft 365 Groups Data Types" on page 230</u>.

For Auto discovery and data protection of Microsoft 365 Groups, you must have at least one of the following apps configured for your tenant:

- IBM Storage Protect for Cloud Microsoft 365 (All permissions) service app
- · Microsoft 365 default app with all permissions
- Custom Azure app with the required permissions

For details on creating an app profile, refer to <u>Create an App Profile</u>. For the app permissions, refer to Required Permissions of Microsoft 365 App Profile.

If you are using a **Multi-geo** tenant, we recommend configuring a custom app profile only and adding the <u>Directory.ReadWrite.All</u> permission to protect your Microsoft 365 Groups/Teams. The permission is not automatically consented to the default app profile, but is required to restore the region information for Microsoft 365 Groups and Teams. Note that the permission cannot be consented to default Microsoft 365 (All permissions) app in the Classic mode or IBM Storage Protect for Cloud Microsoft 365 (All permissions) app in the Modern mode. Otherwise, your group or team backed up from a specific region will be restored to the default region.

Before you perform the Auto Discovery scan job for Microsoft 365 Groups, consider the following for your own condition:

• If a SharePoint site is connected to a Microsoft 365 Group (a groupified site), IBM Storage Protect for Cloud will keep it in both the **SharePoint Sites** container and the **Microsoft 365 Groups** container. IBM Storage Protect for Cloud Microsoft 365 will protect this site in the corresponding container separately, as selected.

• The hidden folders in the mailboxes (including Exchange Online mailboxes, Group mailboxes, and Teams group mailboxes) will be excluded from the backup for better performance. If you want to include the hidden folders in your backup, contact IBM support for assistance.

After your authentication method is ready, go to **Auto Discovery** in the IBM Storage Protect for Cloud interface to configure a scan profile for the **Microsoft 365 Groups** that you want to protect in IBM Storage Protect for Cloud Microsoft 365. For details, refer to .

Then, you can go to IBM Storage Protect for Cloud Microsoft 365 interface to enable the backup service after the Auto Discovery scan job completes.

- Refer to <u>"Set Up the Backup Wizard" on page 56</u> for details, if this is your first time signing into IBM Storage Protect for Cloud Microsoft 365.
- To enable and manage a backup service, refer to the following instructions:
 - Chapter 7, "Monitor and Manage Your Backup," on page 59
 - Chapter 9, "Change the Backup Scope," on page 63
 - Chapter 10, "Change the Backup Frequency," on page 65
 - Chapter 12, "Configure Backup Settings," on page 69
 - Chapter 8, "Configure Notifications," on page 61
 - Chapter 11, "Disable a Backup," on page 67

Teams

Teams service can protect all the Teams channels, Teams settings and permissions, channel conversations and files, primary team site, private or shared channel sites, planner data, etc.

For a full list of the supported data types, refer to <u>"Teams Data Types" on page 234</u>. To protect Teams mailboxes, at least one owner/member in the team should have the Exchange Online product license.

The Teams service is now available for customers using Microsoft 365 operated by 21Vianet in China. Note that hosted content is unsupported and will be skipped in the backup.

For Auto discovery and data protection of Microsoft 365 Teams, you must have at least one of the following apps configured for your tenant:

- IBM Storage Protect for Cloud Microsoft 365 (All permissions) service app
- · Microsoft 365 default app with all permissions
- · Custom Azure app with the required permissions

For details on creating an app profile, refer to App Profile for Microsoft 365 or .

If you are using a Multi-geo tenant, we recommend configuring a custom app profile only and adding the <u>Directory.ReadWrite.All</u> permission to protect your Microsoft 365 Groups/Teams. The permission is not automatically consented to the default app profile, but is required to restore the region information for Microsoft 365 Groups and Teams. Note that the permission cannot be consented to default Microsoft 365 (All permissions) app in the Classic mode or IBM Storage Protect for Cloud Microsoft 365 (All permissions) app in the Modern mode. Otherwise, your group or team backed up from a specific region will be restored to the default region.

After your authentication method is ready, go to the **Auto Discovery** in IBM Storage Protect for Cloud interface to configure a scan profile for the **Teams** that you want to protect in IBM Storage Protect for Cloud Microsoft 365. For details, refer to Auto Discovery for Microsoft 365.

Then, you can go to IBM Storage Protect for Cloud Microsoft 365 interface to enable the backup service after the Auto Discovery scan job completes.

- Refer to <u>"Set Up the Backup Wizard" on page 56</u> for details, if this is your first time signing into IBM Storage Protect for Cloud Microsoft 365.
- To enable and manage a backup service, refer to the following instructions:
 - Chapter 7, "Monitor and Manage Your Backup," on page 59

- Chapter 9, "Change the Backup Scope," on page 63
- Chapter 10, "Change the Backup Frequency," on page 65
- Chapter 12, "Configure Backup Settings," on page 69
- Chapter 8, "Configure Notifications," on page 61
- Chapter 11, "Disable a Backup ," on page 67

Teams Chat

The Teams Chat service can protect 1:1 chats and group chats in Teams.

For the **default Microsoft Graph API**, the backup of chats started by external users is not supported, but chats started by internal users and including external users can be protected. For the **Teams Export API model B**, only plain text can be protected.

Follow the steps to enable the Teams Chat backup:

- 1. Configure a **custom app profile** in the IBM Storage Protect for Cloud interface and add required permissions to it. Teams Chat service only supports using **Custom app profile** authentication. For details on the required permissions for a custom app, refer to <u>Required Permissions of Microsoft 365</u> <u>App Profile Authentication</u>.
- 2. Go to **Auto Discovery** in the IBM Storage Protect for Cloud interface to configure a scan profile for the **Microsoft 365 Users** that you want to protect in IBM Storage Protect for Cloud Microsoft 365 after your app profile is ready. For details, refer to Auto Discovery for Microsoft 365.
- 3. Go to the IBM Storage Protect for Cloud Microsoft 365 interface to enable the backup service after the Auto Discovery scan job completes.

Note the following:

- To protect the Teams chats, you must have access to the default Microsoft Graph API or Microsoft Graph Teams Export API. Note that starting May 18, 2023, the <u>online form</u> and the protected API approval process are no longer needed. You can call the protected APIs as long as the requirements for accessing without a user (<u>https://learn.microsoft.com/en-us/graph/auth-v2-service</u>) are met. Since the API requires payment for use, you must follow the steps described in <u>Enable metered Microsoft 365</u> <u>APIs and services</u> to set up an active Azure subscription for your application for billing purposes.
- Microsoft Teams Chat service in IBM Storage Protect for Cloud Microsoft 365 supports using the **default Microsoft Graph API** or **Microsoft GraphTeams Export API model B** to retrieve Teams chat messages from Microsoft Teams Chat for backup. Note that the <u>Export API model B</u> will charge the app creator \$ 0.00075 per message and that it may cost a lot if you have a large scale of chat messages to protect. You can follow this <u>Microsoft article</u> to estimate the number of Teams chat messages that may be backed up.
- The number of messages in the M365 Admin Center is just for the specific duration you define when exporting the report, not the full total amount. Additionally, the Microsoft Export API only supports export at a user level, so if there is a group chat with multiple users, the same message will be exported multiple times if all these users are included in the scope, which means the number of messages which will be backed up by Cloud Backup has the potential to be higher than the number of messages in the Microsoft admin center report. For confirmation, you can check the job report after the job has finished for the backup chat messages count to compare with the bill from Microsoft. If necessary, you can also limit the user scope for the export. Here is an example: In the report in the Microsoft 365 admin center shows the last 180 days' number of Teams chat messages are 1000. Then for the whole year, the number of messages will be approximately 2000. Because there is not deduplication logic for the Microsoft 365 export API, the same message will be exported multiple times if all these users are included in the scope. So let's say that all are 1V1 chats, then the message number charge by export API will be doubled to approximately 4000 messages. If most of chats are group chats with multiple users, the cost will be even higher.
- Only the default Microsoft Graph API can be used to protect Teams Chat in GCC/GCCH environments.
- The group chat messages cannot be protected if the user has been removed from the group.

• For more details on the supported data types, refer to <u>Teams Chat Data Types</u>. Note that it may cost a lot if there are a large number of chat messages in your tenant.

For more information:

- Refer to "Set Up the Backup Wizard" on page 56 for details, if this is your first time signing into IBM Storage Protect for Cloud Microsoft 365.
- To enable and manage a backup service, refer to the following instructions:
 - Chapter 7, "Monitor and Manage Your Backup," on page 59
 - Chapter 9, "Change the Backup Scope," on page 63
 - Chapter 10, "Change the Backup Frequency," on page 65
 - Chapter 12, "Configure Backup Settings," on page 69
 - Chapter 8, "Configure Notifications," on page 61
 - Chapter 11, "Disable a Backup ," on page 67

Project Online

Project Online service cannot protect the **Project for the web** data and cannot fully support the data added through Microsoft 365 subscription Project Online desktop client. For example, custom fields.

If you would like to filter the folders within the site collections of **Project Online** services, you can contact the <u>IBM Software Support</u> for assistance. Note that if your subscription to IBM Storage Protect for Cloud Microsoft 365 is based on the protected data size, the total consumed data size in your subscription will not be affected by the filter policy. IBM will not exclude the size of the filtered items from the total consumed data size.

You can now use an app profile to scan the Project Online site collections, but the Project Online data cannot be protected in the app context (using app profile authentication). Therefore, a service account with enough permissions is still required for the backup and restore for Project Online. For the required permissions of a service account, refer to Service Account Authentication.

Once the app profile and the service account is ready, you can go to the **Auto discovery** page to create a scan profile for Project Online site collections. After the Auto discovery scan job is completed, you can go to IBM Storage Protect for Cloud Microsoft 365 interface to enable the backup service.

- Refer to <u>"Set Up the Backup Wizard" on page 56</u> for details, if this is your first time signing into IBM Storage Protect for Cloud Microsoft 365.
- To enable and manage a backup service, refer to the following instructions:
 - Chapter 7, "Monitor and Manage Your Backup," on page 59
 - Chapter 9, "Change the Backup Scope," on page 63
 - Chapter 10, "Change the Backup Frequency," on page 65
 - Chapter 12, "Configure Backup Settings," on page 69
 - Chapter 8, "Configure Notifications," on page 61
 - Chapter 11, "Disable a Backup ," on page 67

Public Folder

The service for Public Folders only supports restoring content and permissions of Public Folder to the original location and you must use impersonation accounts to protect the Public Folder data..

IBM Storage Protect for Cloud Microsoft 365 now supports the backup of Public Folder metadata via the app profile authentication. To protect Public Folder metadata, ensure your backup for Public Folder metadata is enabled and the **Exchange Administrator** role is assigned to the app in Microsoft Entra ID.

The Public Folders backup will perform operations by using the permissions that are associated with the impersonation accounts. To configure impersonation accounts, refer to <u>Configure Backup Settings</u>. We recommend a 1:500 ratio for the impersonation accounts and the Public Folders. For more information

about impersonation technology, see <u>Impersonation and EWS in Exchange</u>. The impersonation accounts configured must meet the following conditions:

- The impersonation account must have the Exchange Online product license.
- This user must also have the **Owner** permission to the Public Folders.

If you have configured impersonation accounts for Public Folder in the IBM Storage Protect for Cloud interface, the impersonation accounts will be synchronized to IBM Storage Protect for Cloud Microsoft 365 after June 2023 release. You can check and configure the impersonation accounts through **Settings** > **Backup** page on the IBM Storage Protect for Cloud Microsoft 365 interface.

For the Auto discovery of Public Folders, ensure you have at least one of the following apps configured for your tenant:

- IBM Storage Protect for Cloud Microsoft 365 (Exchange Online) service app
- Microsoft 365 default app with at least the Exchange Online permissions
- Custom app profile with the required permissions.

For details on creating an app profile, refer to *Create an App Profile* in IBM Documentation. For the app permissions, refer to "Required Permissions of Microsoft 365 App Profile" on page 48.

For details on creating and managing service account profile, refer to Manage Service Account Profiles.

Note the following for the Public Folder service:

- Use Object ID instead of mailbox address as the unique identifier for Exchange Online mailboxes and Public Folders. This change has been made to the IBM Storage Protect for Cloud Microsoft 365. Due to this change, the mailboxes that have been re-created with the same address will no longer be regarded as the same one. This might require a broader search to ensure you find all the backup data for restoring, exporting, or deleting; the mailbox being renamed can only be found by the new name with the former backup data associated, and its former name will be displayed in its row.
- For subscriptions with Multi-Geo enabled, the public folders can only be protected in the Central Location.

After your service account profile is ready, go to the **Auto Discovery** in IBM Storage Protect for Cloud interface to configure a scan profile for the **Public Folders** that you want to protect in IBM Storage Protect for Cloud Microsoft 365. For details, refer to Auto Discovery for Microsoft 365.

Then, you can go to IBM Storage Protect for Cloud Microsoft 365 interface to enable the backup service after the Auto Discovery scan job completes.

- Refer to <u>"Set Up the Backup Wizard" on page 56</u> for details, if this is your first time signing into IBM Storage Protect for Cloud Microsoft 365.
- To enable and manage a backup service, refer to the following instructions:
 - Chapter 7, "Monitor and Manage Your Backup," on page 59
 - Chapter 9, "Change the Backup Scope," on page 63
 - Chapter 10, "Change the Backup Frequency," on page 65
 - Chapter 12, "Configure Backup Settings," on page 69
 - Chapter 8, "Configure Notifications," on page 61
 - Chapter 11, "Disable a Backup ," on page 67

Viva Engage

Viva Engage service currently supports in place restore only (restoring to the original location), meaning the Viva Engage community needs to already be there, as well as to export files and conversations. Note that the Microsoft 365 services in GCC High data center and the data center operated by 21Vianet in China do not support Viva Engage, so the Viva Engage backup service in such data centers is not supported as well.

For the Auto discovery of Viva Engage communities, you must have at least one of the following apps configured for your tenant:

- IBM Storage Protect for Cloud Microsoft 365 (All permissions) service app
- · Microsoft 365 default app with all permissions
- Custom Azure app with the required permissions

For details on creating an app profile, refer to or <u>"Required Permissions of Microsoft 365 App Profile" on</u> page 48.

To protect Viva Engage data, you must also have a Viva Engage app connected to your tenant, and the authentication user of this Viva Engage app must have the **Verified Admin** role or **Yammer administrator** role.IBM Storage Protect for Cloud Microsoft 365 will use Viva Engage app for the backup and restore. For details on configuring a Viva Engage app, refer to <u>App Profile for Viva Engage</u>. For a full list of the supported data types, refer to "Viva Engage Data Types" on page 256.

After your authentication method is ready, go to the **Auto Discovery** in IBM Storage Protect for Cloud interface to configure a scan profile for the **Viva Engage communities** that you want to protect in IBM Storage Protect for Cloud Microsoft 365. For details, refer to .

Note the following for the Viva Engage service:

• If you have Microsoft 365 connected Viva Engage communities protected under Microsoft 365 Groups service, once the Viva Engage service is enabled, the connected groups will be removed from Microsoft 365 Groups service and can only be protected in Viva Engage even if you disable the Viva Engage service again. IBM Storage Protect for Cloud job will start a new backup cycle for these Viva Engage communities, but their former backup data as Microsoft Groups will not be deleted until the data expires retention period.

Then, you can go to IBM Storage Protect for Cloud Microsoft 365 interface to enable the backup service after the Auto Discovery scan job completes.

- Refer to <u>"Set Up the Backup Wizard" on page 56</u> for details, if this is your first time signing into IBM Storage Protect for Cloud Microsoft 365.
- To enable and manage a backup service, refer to the following instructions:
 - Chapter 7, "Monitor and Manage Your Backup," on page 59
 - Chapter 9, "Change the Backup Scope," on page 63
 - Chapter 10, "Change the Backup Frequency," on page 65
 - Chapter 12, "Configure Backup Settings," on page 69
 - Chapter 8, "Configure Notifications," on page 61
 - Chapter 11, "Disable a Backup ," on page 67

Power BI

Power BI service can only protect the Power BI content in the new workspace experience. (The personal workspace is the classic workspace, which is not supported.)

To use IBM Storage Protect for Cloud Microsoft 365 to protect the Power BI data, you must configure an app profile for the Microsoft Delegated app.

Note: If you have been using a scan profile with service account authentication for Power Platform object types, the Auto discovery scan jobs and the IBM Storage Protect for Cloud jobs can continue using the service account authentication.

- For the list of the required permissions added to the Delegated app for Power BI, refer to <u>"App Profile</u> Authentication" on page 47.
- If you use service account authentication or the Delegated app to protect the Power BI data, the service account or the authentication user of the Delegated app must have a **Power BI Pro** license or a **Premium Per User** license and have the **Fabric Administrator** role (the former Power BI admin role).

Before you enable the Power BI service, ensure the <u>Download reports</u> feature in the tenant settings has been enabled. This feature was enabled by default.

Note the following for Power BI service.

- If you use the service account authentication to protect Power BI data or use the Delegated app to scan Power BI workspaces in IBM Storage Protect for Cloud Microsoft 365, the Auto Discovery scan job will automatically add the service account or the authentication user of the Delegated app as the workspace admin.
- Power BI service now can only protect the <u>.pbix</u> Power BI files that can be downloaded. For the limitations on downloading report from Power BI, refer to <u>Limitations when downloading a report .pbix</u> file. The exported .pbix file includes both the report you're downloading and the dataset (the data on which the report is based), the same as the "<u>A copy of the report and data</u>" download mode in Power BI. If a Power BI report is created using data from Dataverse, neither the report nor the data in Dataverse will be protected.
- Due to the API limitation, the backup job of Power BI can back up at most 200 workspaces per hour.

After your authentication method is ready, go to the **Auto Discovery** in IBM Storage Protect for Cloud interface to configure a scan profile for the **Power BI workspaces** that you want to protect in IBM Storage Protect for Cloud Microsoft 365. For details, refer to Auto Discovery for Microsoft 365.

Then, you can go to IBM Storage Protect for Cloud Microsoft 365 interface to enable the backup service after the Auto Discovery scan job completes.

- Refer to <u>"Set Up the Backup Wizard" on page 56</u> for details, if this is your first time signing into IBM Storage Protect for Cloud Microsoft 365.
- To enable and manage a backup service, refer to the following instructions:
 - Chapter 7, "Monitor and Manage Your Backup," on page 59
 - Chapter 9, "Change the Backup Scope," on page 63
 - Chapter 10, "Change the Backup Frequency," on page 65
 - Chapter 12, "Configure Backup Settings," on page 69
 - Chapter 8, "Configure Notifications," on page 61
 - Chapter 11, "Disable a Backup ," on page 67

Power Automate

Power Automate service can only protect the cloud flows.

For subscriptions with Multi-Geo enabled, flows can only be protected in the Central IBM Storage Protect for Cloud Location due to API limitations.

To use IBM Storage Protect for Cloud Microsoft 365 to protect the Power Automate flow data, you must configure an app profile for the Microsoft Delegated app.

Note: If you have been using a scan profile with service account authentication for Power Platform object types, the Auto discovery scan jobs and the IBM Storage Protect for Cloud jobs can continue using the service account authentication.

- For the list of the required permissions added to the Delegated app for Power Automate, refer to Required Permissions of Microsoft Delegated App.
- If you use Delegated app to protect the Power Automate data, the authentication user of the Delegated app must have the **Global Administrator** and the **Environment Admin/System Administrator** role. If you use service account authentication to protect the Power Automate data, the service account must be the **Global Administrator**.

Note: The backup job will automatically add the service account or the authentication user of the Delegated app (the user who consents the app permissions) as the flow owner. Due to the Microsoft native logic, after the authentication user is added as the flow owner, the corresponding flows will be listed under the **My flows** > **Shared with me** tab for the existing flow owners.

After your authentication method is ready, go to the **Auto Discovery** in IBM Storage Protect for Cloud interface to configure a scan profile for the **Power Automate flows** that you want to protect in IBM Storage Protect for Cloud Microsoft 365. For details, refer to Auto Discovery for Microsoft 365.

Then, you can go to IBM Storage Protect for Cloud Microsoft 365 interface to enable the backup service after the Auto Discovery scan job completes.

- Refer to <u>"Set Up the Backup Wizard" on page 56</u> for details, if this is your first time signing into IBM Storage Protect for Cloud Microsoft 365.
- To enable and manage a backup service, refer to the following instructions:
 - Chapter 7, "Monitor and Manage Your Backup," on page 59
 - Chapter 9, "Change the Backup Scope," on page 63
 - Chapter 10, "Change the Backup Frequency," on page 65
 - Chapter 12, "Configure Backup Settings," on page 69
 - Chapter 8, "Configure Notifications," on page 61
 - Chapter 11, "Disable a Backup ," on page 67

Power Apps

Power Apps service can only protect Canvas apps and component libraries.

For subscriptions with Multi-Geo enabled, flows can only be protected in the Central IBM Storage Protect for Cloud Location due to API limitations.

• To use IBM Storage Protect for Cloud Microsoft 365 to protect the Power® Apps data, you can configure a service account profile or configure an app profile for the Microsoft Delegated app with the Power Apps option selected. For the list of the required permissions added to the Delegated app for Power Apps, refer to the <u>"Required Permissions of Microsoft 365 App Profile"</u> on page 48.

Note: If you have been using a scan profile with service account authentication for Power Platform object types, the Auto discovery scan jobs and the IBM Storage Protect for Cloud jobs can continue using the service account authentication.

• If you use service account authentication or the Delegated app to protect the Power Apps data, the service account or the authentication user of the Delegated app must be the **Global Administrator** and the **Environment Admin/System Administrator**, and have the **Power Apps for Microsoft 365** license to proceed.

Note: The backup job will automatically add the service account or the authentication user of the Delegated app as the apps' co-owner and flow owner (if the app has an associated flow).

After your authentication method is ready, go to **Auto Discovery** in the IBM Storage Protect for Cloud interface to configure a scan profile for the **Power Apps Canvas apps and component libraries** that you want to protect in IBM Storage Protect for Cloud Microsoft 365. For details, refer to .

Then, you can go to the IBM Storage Protect for Cloud Microsoft 365 interface to enable the backup service after the Auto Discovery scan job completes.

- Refer to Set Up the Backup Wizard for details, if this is your first time signing into IBM Storage Protect for Cloud Microsoft 365.
- To enable and manage a backup service, refer to the following instructions:
 - Chapter 7, "Monitor and Manage Your Backup," on page 59
 - Chapter 9, "Change the Backup Scope," on page 63
 - Chapter 10, "Change the Backup Frequency," on page 65
 - Chapter 12, "Configure Backup Settings," on page 69
 - Chapter 8, "Configure Notifications," on page 61
 - Chapter 11, "Disable a Backup ," on page 67

Configure Auto Discovery

Prior to running backup jobs in IBM Storage Protect for Cloud Microsoft 365, you must register the objects below that you want to protect in the **Auto Discovery** of IBM Storage Protect for Cloud.

- Exchange Online mailboxes
- OneDrive
- SharePoint Online site collections
- Microsoft 365 Groups/Microsoft Teams/Viva Engage Community
- Project Online site collections
- Exchange Online public folders (For subscriptions with Multi-Geo enabled, the public folders can only be protected in the Central IBM Storage Protect for Cloud Location)
- Microsoft 365 Users
- Power BI workspaces
- Power Automate flows
- Power Apps (Canvas apps and component libraries)

To increase security for your Microsoft 365 tenant and avoid throttling during your backup jobs, IBM Storage Protect for Cloud recommends using an app profile for Microsoft 365 in Auto Discovery and data protection. For more information on the app profile, Auto Discovery, and how to set up an Auto Discovery Profile, refer to the Auto Discovery for Microsoft 365

The backup services in IBM Storage Protect for Cloud Microsoft 365 support the following app profiles:

Backup Service	Service App (Modern Mode)	Default App (Classic Mode)	Custom App (Custom Mode)
SharePoint Online	IBM Storage Protect for Cloud Microsoft 365 (SharePoint Online)	Microsoft 365 (All permissions)	Azure App
	IBM Storage Protect for Cloud Microsoft 365 (All permissions)		
OneDrive	IBM Storage Protect for Cloud Microsoft 365 (SharePoint Online)	Microsoft 365 App (All permissions)	Azure App
	IBM Storage Protect for Cloud Microsoft 365 (All permissions)		
Project Online	IBM Storage Protect for Cloud Microsoft 365 (SharePoint Online)	Microsoft 365 App (All permissions)	Azure App
	IBM Storage Protect for Cloud Microsoft 365 (All permissions)		

Note: If you do not have service apps configured, the Auto Discovery scan jobs and Cloud Backup jobs will use the default Microsoft 365 app or the custom Azure app with the required permissions.

Exchange Online IBM Storage Protect for Cloud Microsoft 365 (Exchange Online) IBM Storage Protect for Cloud Microsoft 365 (All permissions)		Microsoft 365 App (All permissions)	Azure App
Public FoldersIBM Storage Protect for Cloud Microsoft 365 (Exchange Online)IBM Storage Protect for Cloud Microsoft 365 (All permissions)		Microsoft 365 App (All permissions)	Azure App
Microsoft 365 Groups IBM Storage Protect for Cloud Microsoft 365 (All permissions)		Microsoft 365 App (All permissions)	Azure App
Teams IBM Storage Protect fo Cloud Microsoft 365 (A permissions)		Microsoft 365 App (All permissions)	Azure App
Teams Chat	×	×	Azure App
Viva Engage	Viva Engage App	Viva Engage App	Via Engage App
Power BI IBM Storage Protect for Cloud Microsoft 365 delegated app		Delegated App	×
Power Automate IBM Storage Protect for Cloud Microsoft 365 delegated app		Delegated App	×
Power Apps IBM Storage Protect for Cloud Microsoft 365 delegated app		Delegated App	×

Authentications in Auto Discovery and Backup

The Auto Discovery in IBM Storage Protect for Cloud and the backup services will now use the IBM Storage Protect for Cloud Microsoft 365 service apps (created through **App management** > Modern mode) first to scan and protect the objects in your tenants. If you do not have service apps, we will use the default Microsoft 365 apps or custom Azure apps with the required permissions.

Note: If you have auto discovery scan profiles using the service account authentication or using app profile authentication to scan but with a service account as an additional method, the service account can still be used to protect the data that are unsupported in the app context (using app profile authentication). For the required permissions for the service account and account pool user, refer to <u>"Service Account Authentication (Obsolete)" on page 45</u>. However, if you modify these scan profiles after June 2023 release, the service account authentication will be obsolete. Auto discovery scan jobs and the IBM Storage Protect for Cloud jobs will look for the following apps for the operations:

- IBM Storage Protect for Cloud Microsoft 365 service apps (For permissions authorized by default, refer to App Profile Authentication)
- Default Microsoft 365 app profile. For permissions authorized by default, refer to Microsoft 365 (App Permissions) section in App Profile Authentication.

• Custom app profile (For permissions that you must manually add, refer to the table in <u>App Profile</u> Authentication

Required Permissions

Refer to the sections below for the required permissions of service account, app for Microsoft 365, and the Microsoft Delegated app.

Service Account Authentication (Obsolete)

Service account authentication requires credentials of a Microsoft Global Administrator, SharePoint Administrator, or Exchange Administrator account and then use the credentials to scan objects in your tenant. However, SharePoint Online has a built-in throttling feature that prevents one account from processing several requests simultaneously.

Note: After July 2023 release, if your Auto Discovery scan profiles are modified, the service account authentication method and the service account pool users will be obsolete from Auto discovery. For site collections (of SharePoint Online, Microsoft 365 Groups, Teams, or Viva Engage), the hybrid mode is now provided. In the hybrid mode, IBM Storage Protect for Cloud Microsoft 365 will, by default, use an app profile in backup and restore. For the data types that are unsupported in the app context, service account authentication will be used automatically. Note that the use of service accounts is not the recommended method as it attracts an increased potential for throttling issues. To learn more and enable the mode, contact the IBM support team.

The service account and configured account pool users used for Auto Discovery and backup and restore must meet the permission requirements for the corresponding service types. For details, refer to "Required Permissions of Service Account" on page 45.

Required Permissions of Service Account

When backing up and restoring the registered objects, make sure the accounts have the corresponding permissions.

The required permissions involve the **SharePoint Administrator** and **Exchange Administrator** roles in Microsoft 365. For details about these roles, refer to the Microsoft article: <u>About Microsoft 365 admin</u> roles.

Object Types	Permissions or Roles	Notes
SharePoint Online, Project Online, and OneDrive	SharePoint Administrator role for object registration, backup and restore. IBM Storage Protect for Cloud Microsoft 365 will automatically add this service account as the Site Collection Administrator for backup and restore. Note: The account pool users used to protect the Project Online data must have one of the following Project Online licenses: Essentials, Project Plan 1, Project Plan 3 (formerly, Professionals), or Project Plan 5 (formerly, Premium).	When restoring the data related to terms, the restore job will add the service account as the Term Store Administrator automatically, and IBM Storage Protect for Cloud Microsoft 365 will use the service account to back up and restore the Managed Metadata Service.

Object Types	Permissions or Roles	Notes
Exchange Online mailboxes	Exchange Administrator role	By default, the Exchange Administrator role has the ApplicationImpersonation permission. If your Exchange Administrator role does not have this permission, complete the steps in <u>"How to add permissions</u> to an admin role in the Exchange admin center?" on page 26
Public Folders	The service account must have Exchange Online license and must be the Owner of the Public Folder.	Accounts that have the Publishing Editor permission can also back up Public Folders successfully, but this permission is not enough to restore them; users with Publishing Edito r permission can assign Reviewer permission to others but cannot assign Owner permission to others.
		If your tenant has blocked access from apps that don't use modern authentication, the service account must also have an admin role with the ApplicationImpersonation permission.
		For details, refer to <u>"How to add</u> permissions to an admin role in the Exchange admin center?" on page 26
Microsoft 365 Groups	The service account must have both the SharePoint Administrator and Exchange Administrator roles for protecting the Microsoft 365 Groups.	The SharePoint Administrator role is required for protecting the Microsoft 365 group team site; the Exchange Administrator role is required for protecting the Microsoft 365 group mailbox.
		The Auto Discovery scan job will add the service account as the Terms Store Administrator automatically, and IBM Storage Protect for Cloud Microsoft 365 will use the service account to back up and restore the Managed Metadata Service.
		Other than that, the backup and restore of the Microsoft 365 group team site only requires the Site Collection Administrator permission.

Object Types	Permissions or Roles	Notes
Teams	The account that performs backup and restore jobs must have the Microsoft Teams product license and Exchange Online license assigned in Microsoft 365, and must be SharePoint Online Administrator, Exchange Online Administrator, Teams admin, and both the owner and member of the Teams that you want to protect.	For private Groups and Teams, at least one member or owner must have the Exchange Online license. To protect Teams' Private Channel , the service account must also be the owner of all the current and future private channels. The Auto Discovery scan job can now automatically add the service account as the private channel owner if the Automatically add the service account as the owner of private channels in all scanned Teams option is set to Yes . For details, refer to Manage Scan Profiles. Note: If you are using the hybrid approach for the backup and restore, the Private Channel's site will be protected in the app context. The owner role to the private channels is not required.
Viva Engage	The service account must have both the SharePoint administrator and Exchange administrator roles for protecting the Viva Engage community.	
Power BI	The service account must be a Pro account or a Premium per user account and have the Power BI admin role.	If you use service account authentication to protect Power BI data, IBM Storage Protect for Cloud Microsoft 365 will automatically add this service account as the workspace admin.
Power Automate	The service account must be the environment admin/system administrator, and the Power Platform admin.	These roles are required for Auto Discovery scan and for the backup. In addition, the backup job will automatically add the service account as the flow owner.
Power Apps	The service account must be the global admin and the environment admin/system administrator.	The backup job will automatically add this service account as the app's co-owner and flow owner (if the app has an associated flow).

App Profile Authentication

If you want to protect Power BI/Power Automate/Power Apps or restore the Temas channel conversations as posts, you must at first have a Delegated app with enough permissions, and then perform the Auto Discovery scan job to register the flows to your IBM Storage Protect for Cloud instance. You can create

a new Delegated app for Power Automate, or you can re-authorize your existing Delegated app with the permissions consented. For the required permissions, refer to <u>"Required Permissions of Microsoft</u> Delegated App" on page 54.

App profile authentication (IBM Storage Protect for Cloud Microsoft 365, default Microsoft 365 apps, or use a custom Azure app) ensures that all Auto Discovery and IBM Storage Protect for Cloud Microsoft 365 jobs are tagged as the activities of that app, and also ensures that we do not need to store any service accounts and passwords, with only the consent being recorded. The consent can be monitored in your Microsoft Entra ID and can be revoked at any time.

App profile authentication (IBM Storage Protect for Cloud Microsoft 365 service apps, default Microsoft 365 apps, or use a custom Azure app) ensures that all Auto Discovery and IBM Storage Protect for Cloud Microsoft 365 jobs are tagged as the activities of that app, and also ensures that we do not need to store any service accounts and passwords, with only the consent being recorded. The consent can be monitored in your Microsoft Entra ID and can be revoked at any time.

You can consent to apps separately for the services you want to protect. If you do not have service apps, IBM Storage Protect for Cloud will use the default Microsoft 365 app or custom Azure app to scan or protect the data.

- If you use IBM Storage Protect for Cloud for **SharePoint Online**, **OneDrive**, **Project Online**, **Exchange Online**, **Public Folders**, **Microsoft 365 Groups**, and **Teams** service in app context, you need a **IBM Storage Protect for Cloud Microsoft 365 Microsoft 365** app or **Microsoft 365 app** connected to your tenant. If you use the Teams Chat service, you need to configure a custom app for **Teams Chat**. If you use the **Viva Engage** service, you also need to configure an app profile for **Viva Engage**. The authentication user for the Viva Engage app must have the **Verified Admin** role or **Yammer administrator** role. For the permissions required by Microsoft 365 app, refer to <u>"Required Permissions</u> of Microsoft 365 App Profile" on page 48.
- If you want to use IBM Storage Protect for Cloud for Power BI, Power Automate, or Power Apps in app context or restore the Teams channel conversations as new posts to the channel, you must configure an app profile for **Microsoft Delegated** app. If you want to restore the Teams channel conversations as new posts, the authentication user must have the **Teams** license.

For the permissions required by Microsoft Delegated app, refer to <u>"Required Permissions of Microsoft</u> Delegated App" on page 54.

Note: If you are using a multi-geo tenant, we recommend configuring a custom app profile. The <u>Directory.ReadWrite.All</u> permission is not automatically consented to the default app profile, but this permission is required to restore the region information for Microsoft 365 Groups and Teams. Otherwise, your group or team backed up from a specific region will be restored to the default region. This known issue also exists in the service account authentication.

To view the lists of data types that are supported or unsupported for each service type, refer to <u>Chapter 31, "Appendices: Supported and Unsupported Data Types," on page 173</u>. For the permission requirements of an app profile for a specific service type, refer to the section below.

Required Permissions of Microsoft 365 App Profile

Refer to the table below for the API permission requirement for Microsoft 365 app. They are the API permissions that are automatically granted to the **IBM Storage Protect for Cloud Administrator for Microsoft 365** application added to your tenant by default app profile, and also the minimum API permissions that you must grant to the custom app for using IBM Storage Protect for Cloud Microsoft 365 services to protect different data types in your tenant.

If you are using custom app authentication, ensure that your app has access to the protected APIs of Microsoft Teams. Otherwise, the public and private channel's conversations cannot be protected. To request access to the protected APIs, refer to the Microsoft article: Protected APIs in Microsoft Teams.

For a full list of permissions that are automatically granted to the default app, refer to .

Note: If your service contains not only the Microsoft **365 Groups** or **Teams**, you will notice that other than **Teams Chat**, the permissions required for Microsoft 365 Groups or Teams are sufficient to protect

the SharePoint Online, OneDrive, Exchange Online, and Exchange Public Folder. Note that the Project
Online service does not support app profile authentication.

Service Type	App Profile Type	APIs	Permission	Why You Need
SharePoint Online	IBM Storage Protect for Cloud Microsoft 365app (SharePoint	SharePoint	Application Permission:	Back up and restore site collections.
			Sites.FullControl.All	
Permissions)	Permissions)		(Have full control of all site collections)	
			Application Permission: User.ReadWrite.All (Read and write user profiles)	Back up and restore Microsoft 365 user profiles related information in OneDrive, Groups, and Teams.
			Application Permission:	Back up and restore Managed Metadata
			TermStore.ReadWrite .All	Service.
			(Read and write managed metadata)	

Service Type	App Profile Type	APIs	Permission	Why You Need
OneDrive	IBM Storage Protect for Cloud	Microsoft Graph	Application Permission:	OneDrive files.
	Microsoft 365 app (SharePoint		Files.ReadWrite.All	
	Permissions)		(Read files in all site collections)	
			Application Permission:	Back up and restore the OneDrive content.
			Sites.ReadWrite.All	
			(Read and write items in all site collections)	
			Application Permission:	Back up and restore the lists in OneDrive, and it is
			Sites.Manage.All	list has content approval
			(Create, edit, and delete items and lists in all site collections)	settings enabled.
			Application Permission:	Back up some files in specific conditions, such
			Site.FullControl.All	as DLP-sensitive files.
			(Have full control of all site collections)	
			Application Permission:	Retrieve the UPN for the authors or editors.
			User.Read.All	
			(Read all users' full profiles)	
		SharePoint	Application Permission:	Back up and restore the OneDrive sites.
			Sites.FullControl.All	
			(Have full control of all site collections)	
Exchange Online/ Public Folder	IBM Storage Protect for Cloud Microsoft 365app (Exchange	Exchange	Application Permission:	Back up and restore mailboxes.
			full_access_as_app	
	Permissions)		(Use Exchange Web Services with full access to all mailboxes)	

Service Type	App Profile Type	APIs	Permission	Why You Need
		Microsoft Graph	Application Permission:	Verify the impersonation accounts for Public
			User.Read.All	Folders.
			(Read all users' full profiles)	
Microsoft 365 Groups/	All Permissions	SharePoint	Application Permission:	Back up and restore site collections.
Engage			Sites.FullControl.All	
Note: If the Team/Group/Viva			(Have full control of all site collections)	
not the default domain, the			Application Permission:	Back up and restore Microsoft 365
app must have			User.ReadWrite.All	information in OneDrive,
Administrator role to update the			(Read and write user profiles)	Groups, and Teams.
the restore job. For details, refer			Application Permission:	Back up and restore Managed Metadata Service
to How to Assign the Exchange			TermStore.ReadWrite .All	
Administrator Role to an App?			(Read and write managed metadata)	
		Exchange	Application Permission:	Back up and restore mailboxes.
			full_access_as_app	
			(Use Exchange Web Services with full access to all mailboxes)	
			Exchange.ManageAs App	Scan in-place archived mailboxes.
			(Manage Exchange as Application)	
	All Permissions	Microsoft Graph	Application Permission:	Retrieve information for the members of Groups/
			Directory.Read.All	Potriovo the Groupe from
			(Read directory data)	recycle bin.

Service Type	App Profile Type	APIs	Permission	Why You Need
Microsoft 365 Groups/ Teams/Viva Engage	All Permissions	Microsoft Graph	Application Permission: Directory.ReadWrite.Al l (Read and write directory data)	Restore the region information of the Microsoft 365 Group or Team in a multi-geo tenant. Currently, the default app profile does not have this permission to consent. If you are using a multi-geo tenant, please configure a custom app profile.
			Application Permission:	Scan Microsoft 365 Groups via Auto
			Group.ReadWrite.All (Read and write all groups)	Back up and restore Microsoft Teams and Microsoft 365 Groups data.
			Application Permission:	Back up and restore Microsoft Teams and Microsoft 365 Groups team sites data.
			Sites.ReadWrite.All	
			(Read and write items in all site collections [preview])	
			Application Permission:	Back up and restore the members and messages of the Team's private channels.
			ChannelMember.Rea dWrite.All	
			(Add and remove members from all channels)	
			ChannelMessage.Rea d.All	
			(Read all channel messages)	

Service Type	App Profile Type	APIs	Permission	Why You Need
Microsoft 365 Groups/ Teams/Yammer	All Permissions	Microsoft Graph	Application Permission:	Required by the restore jobs of Teams service.
			ChannelSettings.Rea dWrite.All	
			(Read and write the names, descriptions, and settings of all channels)	
			Application Permission:	Retrieve data size directly to improve the
			Reports.Read.All	Consumption Report.
			(Read all usage reports)	
			Application Permission:	Back up and restore teams' tabs.
			TeamsTab.ReadWrite. All	
			(Read and write tabs in Microsoft Teams)	
			Application Permission:	Back up and restore teams' settings.
			TeamSettings.ReadW rite.All	
			(Read and change all teams' settings)	
			Application Permission:	Restore teams.
			Team.Create	
			(Create teams)	
			Application Permission:	Back up teams' files.
			Files.Read.All	
			(Read files in all site collections)	
			Application Permission:	Back up and restore teams' apps.
			TeamsAppInstallatio n.ReadWriteForTeam. All	
			(Manage Teams apps for all teams)	

Service Type	App Profile Type	APIs	Permission	Why You Need
Microsoft 365 Groups/	All Permissions	Microsoft Graph	Application Permission:	Restore teams' channels.
Teams/Viva Engage			Channel.Create	
			(Create channels)	
			Application Permission:	Back up and restore teams' members.
			TeamMember.ReadW rite.All	
			(Add and remove members from all teams)	
			Application Permission:	Back up and restore Planner data.
			Tasks.ReadWrite.All	
			(Read and write all users' tasks and tasklists)	
			Application Permission:	Restore Planner task comment.
			Mail.Send	
			(Send mail as any user)	
			Mail.Read (Read mail in all mailboxes)	Currently, the default app profile does not have the permissions to consent. If you want to restore the Planner task comment, please configure a custom app profile.
Microsoft Teams	Only support	Microsoft	Application Permission	Retrieve the Microsoft
Note: Teams Chat service supports to use the default	Graph	User.Read.All	ooo oocra uaer promea.	
			(Read all users' full profiles)	
API or Microsoft			Application Permission	Back up the Teams chat
Graph Teams			Chat.Read.All	1110000500.
API model B.			(Read all chat messages)	

Required Permissions of Microsoft Delegated App

If you want to perform the following, you must configure a default Microsoft Delegated app. Note that **the Custom Azure app with delegated permissions** has not yet been supported by IBM Storage Protect for Cloud Microsoft 365.

• Restore Teams Channel conversations as new posts to the channel.

Note: In this case, the authentication user of the delegated app must have the Teams license. The Restore conversations as posts features are not available in the data center that is operated by 21Vianet in China. Only the backup data generated in a new backup cycle that is after June 1, 2021 can be used to restore the conversations as posts.

- Protect Power BI workspaces.
- Protect Power Automate cloud flows.
- Apps data (Canvas apps and component libraries).

Note: IBM Storage Protect for Cloud Microsoft 365 does not support the custom Azure application with delegated permissions.

Consent from a **Microsoft 365 Global Administrator** is required when creating a delegated app profile and must be retained. The consent user of the delegated app for Power Automate must also have the **Environment Admin/System Administrator** role. However, the consent can be revoked in the following cases:

- If you only use this delegated app to restore the Teams channel conversations as posts, the consent can be revoked and the Global admin role can be removed.
- If you only use this delegated app to protect the Power BI content, the consent can be revoked, but the authentication user must have a **Power BIPro** license or a **Premium Per User (PPU)** license, and have at least the **Fabric Administrator** role (the former **Power BI admin** role) for Auto Discovery scan and the backup.
- If you only use this delegated app to protect Power Automate, the consent can be revoked as well, but the authentication user must have at least the **Environment Admin/System Administrator** role and the **Power Platform admin** role for Auto Discovery scan and the backup.
- If you use this delegated app to protect the Power Apps data, the consent can be revoked, but the authentication user must have at least the Power Platformadmin role and Environment Admin/ System Administratorrole for Auto Discovery scan and the backup, and the Power Apps for Microsoft 365 license to proceed.

API	Permissions	Why do we need it?	Feature Category
Microsoft Graph	ChannelMessage.Send (Send channel messages)	Sends messages to channels in Microsoft Teams.	Restore channel conversations as posts
	TeamMember.ReadWrit e.All (Add and remove members from teams)	Adds members to Microsoft Teams.	Restore channel conversations as posts
	ChannelMember.Read Write.All (Add and remove members from channels)	Adds members to channels in Microsoft Teams.	Restore channel conversations as posts
	Directory.Read.All (Read directory data)	Retrieves all user's full profiles and user domain information.	Power BI & Power Automate & Power Apps

Refer to the following table for the permissions that are granted to the Microsoft Delegated app:

API	Permissions	Why do we need it?	Feature Category
Power BI Services	Tenant.ReadWrite.All (Read and write all content in tenant)	Retrieves the workspaces and backs up, or adds users to the workspace.	Power BI
	Workspace.ReadWrite. All	Gets and restores workspaces.	Power BI
	workspaces)		
	Capacity.Read.All (View all capacities)	Retrieves capacities (including multi-geo).	Power BI
	Report.ReadWrite.All (Read and write all reports)	Performs backup for reports.	Power BI
	Dataset.ReadWrite.All (Read and write all datasets)	Performs backup and restore for reports.	Power BI
PowerApps Service	User (Access PowerApps Service API)	Retrieves Power Automate Cloud Flows for Auto Discovery scan and for IBM Storage Protect for Cloud.	Power Automate
		Retrieves Power Apps Canvas apps and component libraries for Auto Discovery scan and for IBM Storage Protect for Cloud.	Power Apps
Dynamics CRM	User_impersonation (Access Common Data Service as organization users)	Retrieves Power Automate desktop flows and Business process flows for Auto Discovery scan.	Power Automate
		Retrieves Power Apps Canvas apps and component libraries for Auto Discovery scan.	Power Apps

Set Up the Backup Wizard

When you log into IBM Storage Protect for Cloud Microsoft 365 for the first time, the onboarding wizard will appear and you can now get a thorough check on your preparations before enabling the backup services.

About this task

Note:

- If your organization has a Multi-Geo enabled, the users assigned to multiple regions in IBM Storage Protect for Cloud will need to select a region. The users with only one region will be automatically redirected to that regional IBM Storage Protect for Cloud Microsoft 365 instance.
- If you signed up to IBM Storage Protect for Cloud with the data center **Germany West Central** (Frankfurt), and you have purchased the subscription to use IBM Storage Protect for Cloud Azure storage to store the backup data, IBM Storage Protect for Cloud Microsoft 365 will store your data in the data center you signed up for IBM Storage Protect for Cloud.

If you have the BYOS subscription, you must configure a custom storage location to store the backup data to your own storage on the **Storage location** page. Note that the storage location information cannot be changed once saved. If you purchased the backup service from a service provider and the service provider has already configured the BYOS storage location, the storage information is read-only on this page.

Procedure

To get started with your backup service, follow the steps below.

- 1. On the **Backup modules** page, you must select at least one service that you want to enable. By default, no services are selected. You can click **Set up later** to skip the following steps and go to the home page of the IBM Storage Protect for Cloud Microsoft 365 with no services enabled.
- 2. Click Next step, after you select the backup modules that you want to enable.

Note: If you select the Teams Chat service and click **Next**, a pop-up window will appear, and you must select an API to protect Teams Chat. You can change the API for Teams Chat later in **Settings** > **Backup**.

- 3. On the **Backup configuration** step, you can check whether you have scan profiles for the selected backup services and whether your apps have enough permissions.
 - Go to the **App management** page in the IBM Storage Protect for Cloud interface to configure the app profiles. For the apps you can use for each backup service, refer to <u>"App Profile Authentication" on page 47</u>.
 - Go to **Auto Discovery** in the IBM Storage Protect for Cloud interface to configure scan profiles for the objects that you want to protect in IBM Storage Protect for Cloud Microsoft 365. For details, refer to Auto Discovery for Microsoft 365.
- 4. If you want to protect Public Folders, you must also configure impersonation accounts on the Settings > Backup page since we only support using impersonation accounts to protect Public Folders after the June 2023 release. Note that the Public Folders backup will perform operations by using the permissions that are associated with the impersonation accounts. We recommend a 1:500 ratio for the impersonation accounts and the Public Folders. For more information about impersonation technology, see Impersonation and EWS in Exchange.

The impersonation accounts configured must meet the following conditions:

- The impersonation account must have the Exchange Online product license.
- This user must also have the **Owner** permission to the Public Folders.
- 5. If you want to protect Teams Chat, you must customize the backup time range for Teams chat messages on the **Backup configurations** page. Note that the backup time range cannot be changed once saved.
- 6. On the **Backup scope** page, you can select the **All objects in existing and any further containers** option for all selected services, which will automatically include all existing containers and the objects registered later. If you want to customize the backup scope for each service, select **Custom backup scope per service type**. For each service, you can select **All objects in existing and any further containers** option to include all objects in existing and any further containers in the backup scope or select **Custom backup scope** to include the containers that you want to back up.
- 7. When you finish selecting the objects to back up, you can click **Start backup** to save the configurations and start the backup jobs.

After you click **Start backup**, the backup job for an object type will not start if the backup service for this object type is disabled.

58 IBM Storage Protect for Cloud Microsoft 365: User Guide

Chapter 7. Monitor and Manage Your Backup

On the **Backup** page of the new interface, you can view all the backup services in your subscription. Each service type has a separate tile displaying the backup service status, the number of objects being protected, the last backup job status, and the next backup job start time.

About this task

You can click a service tile to view the backup details of that service. By default, the **Backup details** page displays the last backup job details, including the number of successful, skipped, and failed objects in this job or the progress of the running backup, the backup status, start time, finish time, data size, duration, and the operator on the main pane.

For services protected by **IBM Storage Protect for Cloud**, the **Backup details** page displays the last backup job details by default, including the number of successful, skipped, and failed objects in this job or the progress of the running backup, the backup status, start time, finish time, data size, duration, and the operator on the main pane. For the backup jobs in progress, the successful and failed items during the backup are provided in the page.

Procedure

You can generate the job report directly from the **Backup details** page. Follow the steps below:

- 1. Click the **Generate report** option from the More commands (...) list button. The Generate report window appears.
- 2. You can choose to generate a simple or detailed report as needed, and then click Generate.
- 3. After the report is successfully generated, expand the **Job report** list and click the **Download report** option to download the job report to a local location.

You can also click the **View more in job monitor** link to go to the Job monitor page to check the job history or download report. For details, refer to Chapter 25, "Job Monitor," on page 153.

In the **Backup history** area, you can click any badge to view the details of a preview backup job from the last 20 backup job records.

Note the following:

• The backup job will not back up the SharePoint sites that have not had any changes made since the last backup. If there are security changes but no changes on the content in the sites, the scheduled incremental backup jobs will not back up the securities too. The changes on the securities in the sites (including the SharePoint Online sites, OneDrive, and Microsoft 365 Groups/Teams team sites) that have not yet been backed up, in this case, will be included in an incremental backup once a week.

If there are some items in a site failed in a backup but no changes on the content in the site for the next backup, the scheduled incremental backup jobs will not back up these failed items. Moving forward, they will be included in an incremental backup once a week.

• The failed objects in the backup job for OneDrive for Business, SharePoint Online, and Microsoft 365 Groups will be backed up again in the next incremental backup job within the same backup cycle, if these objects have not been modified before the next incremental backup job. If the backup for the failed objects continues to fail in the next two incremental backup jobs, they will not be backed up again; the failed objects in the backup job for Exchange Online will always be included in the subsequent backup jobs until they are successfully backed up. In the Exchange Online backup job report, the number of consecutive failed attempts for the backup will be displayed in the **Failed Attempts** column.

If the failed objects have been modified before the next incremental backup job, they will not be regarded as the failed objects and will be included in the next incremental backup job.

60 IBM Storage Protect for Cloud Microsoft 365: User Guide
Chapter 8. Configure Notifications

With IBM Storage Protect for Cloud Microsoft 365, you can define certain statuses of jobs and reports which will trigger alerts, including backup, restore, retention, exportation, and the Microsoft 365 unusual activities analysis report.

About this task

Note: Your notification settings will be disabled if you are a distributor or partner-managed customer, and your account manager has configured this setting through IBM Storage Protect for Cloud Partners platform. If you are a service provider, refer to the <u>Manage Job Notification Profiles</u> section in IBM Storage Protect for Cloud Partners user guide for details.

If your organization has multiple teams or departments to manage and monitor your IBM Storage Protect for Cloud Microsoft 365 operations and usage, you can now go to the new IBM Storage Protect for Cloud Microsoft 365 interface to group these email recipients by configuring separate notification profiles for them.

Procedure

To create a new notification profile, follow the steps below:

- 1. In the IBM Storage Protect for Cloud Microsoft 365 interface, navigate to Notification.
- 2. Click the Create notification profile button. The Create a new notification profile pane appears.
- 3. Enter the name and description for this notification profile. The description is optional.
- 4. Configure the following notification settings:
 - a) Send email notifications to the following email addresses Enter the email addresses in the text box to configure the recipients for the email notifications. You can enter the email addresses of users or groups. For groups, you must ensure the group you entered can receive emails. Otherwise, the group members will not be notified of the activities in IBM Storage Protect for Cloud Microsoft 365.
 - b) Send the email notifications for the jobs in the following status Select the job status for the Backup, Restore, Export, and Retention jobs which will trigger the notification, and select whether they will receive notifications when a potential ransomware attack is detected, or unusual activities are detected.
- 5. Click **Save** when you finish configuring the profile.

Chapter 9. Change the Backup Scope

After you get started, you can make changes to the objects you want to back up. When you select a container to back up, all objects contained within the container will be backed up. After you make the changes to the backup scope, all subsequent backup jobs will back up the data according to the new scope.

Procedure

Complete the following steps to change the backup scope:

- 1. Go to the Backup page and click the More commands (...) button in the upper-right corner of the service tile.
- 2. Click **Configure backup** from the drop-down list.
- 3. With the backup service enabled, select the containers that you want to back up in the **Backup Scope** tab. You can select the **All objects in existing and any further containers** option to select all containers in the backup scope, which will automatically include the objects registered later, or select **Custom backup scope** to include the containers that you want to back up.

To view objects included in the containers, click the Expand (\checkmark) button next to the container.

To search for an object, enter the object name in the search box and click the Search (Q) button.

4. Click **Save** when finished changing the backup scope. The changes will take effect from the next backup job. You can also click **Cancel** to return to the **Home** page without saving any changes.

Note: If the backup service for an object type is disabled, no backup jobs for this object type will start until you enable the backup service again.

Note: If you modify your scope by either unchecking a container (such as a set of mailboxes) or turning off the backup for a Microsoft 365 service entirely (such as Microsoft 365 Groups), we assume that you do not need to protect this content any longer and will remove this data after 30 days. This also includes cases where data moves from a protected container to an unprotected container, such as during role-changes for users (one set of mailboxes to another) or when there is a change in classification for Groups and Teams. For example: if you are only protecting SharePoint sites exclusively, you are not protecting Microsoft 365 Groups. If you convert your Site Collection to become a Microsoft 365 Group, this will count as a change in scope. Since Microsoft 365 Groups were not selected to be backed up, the original SharePoint site's data will be removed in 30 days. You can correct this by re-enabling the new scope.

Chapter 10. Change the Backup Frequency

You can change the frequency of backup operations to meet the requirements of your organization.

About this task

Microsoft has implemented tighter throttling limits on background apps (migration, DLP, and backup solutions) during weekday daytime hours.

To reduce issues that cause the Microsoft error code 429 (Too many requests), IBM Storage Protect for Cloud Microsoft 365 will adjust the default value of the backup frequency from 4 to 1 for new customers. If you have a requirement for 4 backups per day, you can change it accordingly. For existing customers, we will update your backup frequency.

After the backup service has been enabled, you can change the backup frequency. You can customize the backup frequency and schedule each backup service by setting up the backup frequency 1 to 4 times per day and define a start time for the first backup job.

Procedure

To change the backup frequency, follow these steps below:

- 1. Go to the **Backup** page and click the More commands (...) button in the upper-right corner of the service tile.
- 2. Click Configure backup from the drop-down list.
- 3. Select a number from the **How many backup jobs would you like to run per day?** list. IBM Storage Protect for Cloud Microsoft 365 will automatically provide the job schedule according to the frequency you selected.
- 4. You can change the start time for the first backup job. The rest of the schedules will be automatically calculated and displayed.
- 5. Click **Save** when you finish changing the backup frequency and schedule. The changes will take effect from the next backup job. You can also click **Cancel** to return to the **Backup** page without saving any changes.

Chapter 11. Disable a Backup

The backup services can be disabled. If the backup service for an object type is disabled, no backup jobs for this object type will start until you enable the backup service again.

Procedure

To disable a backup service, follow the steps below:

- 1. Go to the **Backup** page and click the More commands (...) button in the upper-right corner of the service tile.
- 2. Click **Configure backup** from the drop-down list.
- 3. Turn off the switch to disable the backup service.
- 4. Click **Save** and click **OK** to confirm your operation.

Chapter 12. Configure Backup Settings

The **Settings** > **Backup** page displays the common backup settings that you can directly enable.

You can choose to:

- Back up private channels
- Back up shared channels
- Back up the Recordings folder
- Back up Planner data
- · Select an API to protect Teams Chat and customize the backup time range for Teams chat messages
- Configure impersonation accounts for Public Folders backup

Other than the settings above, you can also go to the legacy UI for more backup settings or contact the for assistance. For additional backup settings that can be enabled on your demand, refer to <u>"On-Demand</u> Backup Settings" on page 70.

Back up private channels/shared channels

Select whether to back up private/shared channels in Microsoft Teams. You can configure an app profile to connect your tenant for a successful backup of private/shared channels or you can still use the obsolete service account method. The service account you use must be an **owner** of all current and future private/shared channels. For details refer to Manage Scan Profiles.

Back up Recordings folder

As updated by Microsoft for Microsoft Teams, all new Teams meeting recordings will be saved to OneDrive and Share Point. (The change from using Microsoft Stream to OneDrive for and SharePoint for meeting recordings will be a phased approach. For details, refer to this Microsoft article.

Microsoft will create the Recordings folder or use the existing Recordings folder in your OneDrive (user's *OneDrive/Recordings*) or the Recordings folder in the Documents library of the Teams channel (*Teams channel site/Documents/ChannelName/Recordings*) to store the meeting recording files.

You can now use the **Back up Recordings folder** option to control whether to include the **Recordings** folder in the backup. By default, the **Back up Recordings folder** option is deselected.

Note: Once you select this option to back up the **Recordings** folder, the **Recordings** folder will always be included in the subscription consumption, even if you deselect it in the future.

Note the following for excluding the Recordings folder from backup:

- If you are using a custom app to protect OneDrive, to exclude the **Recordings** folder from the OneDrive backup, ensure the Microsoft Graph permission has been updated.
- As there aren't any properties to distinguish the Stream files from the other MP4 files or if the **Recordings** folder was created manually or automatically, the **Recordings** folder found in the specific paths will be excluded, as well as all the content in it. Please do not use this folder to store the other files that you want to protect via IBM Storage Protect for Cloud Microsoft 365.
- If you delete a public channel from Teams, its connected channel folder in the team site (the folder with the channel name under the Documents library) will not be deleted. This folder will no longer be identified as a channel folder, and its **Recordings** folder will no longer be regarded as the folder storing meeting recording files for a channel. If you deselected the **Back up Recordings folder** option at this time, the backup job will still include this Recordings folder as well as its parent folder for the backup of site content.
- (API limitation) In the app context (using app profile authentication or the hybrid mode), the backup service for OneDrive will create the **Recordings** folder automatically if it does not exist.

• If you want to exclude the Recordings folder after this Recordings folder has been protected for a while, you will be notified that deselecting this folder will create a gap in backups for recordings saved between this point in time and whenever you choose to enable this option again. We will not retroactively protect recordings outside this window.

Back up Planner Data

Select whether to protect the Planner data. This option is by default disabled if you are a new customer to IBM Storage Protect for Cloud Microsoft 365 after July 2023 release, or you have been using app profile only for Auto discovery.

If you are an existing customer who has been using service account authentication for auto discovery or using the app profile authentication with an additional delegated app to protect Planner data, this option will be enabled in this case, and your Planner data will continuously be protected.

Select an API to protect Teams Chat and customize the backup time range for Teams chat messages

If you enable the Teams Chat service, you can choose whether to use the**default Microsoft Graph API** or**Teams Export API model B** to retrieve Teams chat messages from Microsoft Teams Chat for backup and you must customize the backup time range for Teams chat messages. Note that the backup time range cannot be changed once saved.

Using the free default Microsoft Graph API can potentially result in less optimal performance compared to the Teams Export API model B. The <u>Export API model B</u> will charge the app creator \$ 0.00075 per message and that it may cost a lot if you have a large scale of chat messages to protect. You can follow this <u>Microsoft article</u> to look up the number of the Teams chat messages in your tenant and estimate the cost.

Configure impersonation accounts for Public Folders

The impersonation accounts that you configured for Public Folders in IBM Storage Protect for Cloud interface are synchronized to IBM Storage Protect for Cloud Microsoft 365 after July 2023 release. IBM Storage Protect for Cloud in app context only will use the impersonation accounts for the backup and restore of Public Folders.

The Public Folders service will perform operations by using the permissions that are associated with the impersonation accounts. We recommend a 1:500 ratio for the impersonation accounts and the Public Folders. For more information about impersonation technology, see Impersonation and EWS in Exchange

The impersonation accounts configured must meet the following conditions:

- The impersonation account must have the Exchange Online product license.
- This user must also have the **Owner** permission to the Public Folders.

On-Demand Backup Settings

We have removed several backup settings that are less common. If you want to enable these settings, you can contact the support team for assistance. For details, refer to the following:

Back up recoverable items and their primary mailboxes

You can choose to protect the **Recoverable Items** folder in the user's primary mailbox for the Exchange Online service. If you want to enable this feature, contact support for assistance. Currently, we support the **Deletions**, **Purges** and **DiscoveryHolders** subfolders in the **Recoverable Items**. For more information about Recoverable Items, refer to this Microsoft article: <u>Recoverable Items folder in Exchange Online</u>. On the backup data tree, you can find the data in the following directory: *mailbox address/Recoverable Items folder (System*). This folder cannot be a destination for an out of place restore, and the backup data of this folder being restored to its original mailbox will use the following name: **Recovery Items folder (System)** **_ Restored**. Note that due to the API limitation, this folder directory will always be displayed in English regardless of the preferred display language of Microsoft 365.

Back up item and file versions

By default, history versions of items and files are not backed up due to the regular recovery points created by backup jobs, as well as Microsoft 365 API overhead and limitations related to versions. Our experience shows that most user and legal requests pertain only to the most recent active version. Additionally, we capture multiple roll-back points during our daily backups to ensure you have a change history for each document outside native versioning.

If you need to back up the versions for some reason and are willing to accept the performance impact, please contact IBM support to have it enabled.

Note: Once the function is enabled, only versions created after this point can be backed up in subsequent jobs. Earlier versions will not be included..

The backup job will include the most recent 10 versions by default. Due to API limitations, the OneDrive service does not support protecting items and file versions.

Include specific mailbox folders (Deleted Items and Junk Email)

By default, the **Deleted Items** folder and the **Junk Emails** folder will not be protected. Keeping these options unchecked will improve job performance.

Back up Public Folder metadata

By default, Public Folder metadata will not be protected. IBM Storage Protect for Cloud Microsoft 365 now supports the backup of Public Folder metadata via app profile authentication. To protect Public Folder metadata, ensure your backup for Public Folder metadata is enabled and the **Exchange Administrator** role is assigned to the app in Microsoft Entra ID.

Export Encryption Key

This feature is only available for administrators of the IBM Storage Protect for Cloud tenant. The Support account that you established for troubleshooting will not be able to access the **Encryption Key** tab.

By default, this page is not available to the users who are using default storage hosted by IBM Storage Protect for Cloud. You can contact the IBM Software Support team to enable this feature if needed.

The backup data generated by IBM Storage Protect for Cloud Microsoft 365 is encrypted. If you have chosen our data export service, you will need an encryption key to help you convert the backup data to plain file format. Note that you must export the encryption key before your move away from this product, as you will not be able to sign in to the IBM Storage Protect for Cloud Microsoft 365 interface if your subscription has ended.

If you only want to export a small set of backup data to plain file format, use the Export feature we provided in the Restore wizard. For details, refer to <u>Chapter 19</u>, "Export and Download Your Data," on page 97.

To generate and download the encryption key for the service types for which you have performed a backup, click the Generate button to generate the key, and then click **Download** to download the ZIP file and save it to your local computer.

If you have performed backups after the last time you generate the key, click **Regenerate** to regenerate the key for the updated backup data and download the file again.

Chapter 13. Manage Your Storage

In the **Settings** > **Storage** page, the storage location and data retention time will be displayed. For custom storage location, you can configure when the backup data will be purged from the storage after the data expires the retention time. The default retention period for Bring Your Own Storage (BYOS) is 1 year, and you can customize it for specific containers or object types upon your purchased retention in the subscription.

If you purchased a subscription for BYOS (Bring your own storage) but are currently using IBM Storage Protect for Cloud default storage for your backup data, your backup jobs will fail and we will send you an email notification every 7 days to remind you to update your BYOS storage configuration.

There are two types of storage locations: the default storage location and the custom storage location.

 Default storage location – The default storage location is hosted by IBM Storage Protect for Cloud is Microsoft Azure Blob Storage and cannot be modified. The storage information on Microsoft Azure storage is displayed on the Settings > Storage page. If you want to use your own storage, contact IBM to update your subscription. The default storage location resides in the same Data Center that was selected during your registration to IBM Storage Protect for Cloud. If you choose to use IBM Storage Protect for Clouddefault storage, you can choose the storage type of your IBM Storage Protect for Cloud default storage location from the Microsoft Azure Blob Storage type and the Amazon S3 storage type.

For data redundancy, note the following:

 For Microsoft Azure Blob Storage, Locally redundant storage (LRS) is the default option to replicate your data.

Data Center You Signed up for (Home Region)	Amazon S3 Storage Data Center (Storage Region)	
East US (Virginia)	US East (N. Virginia)	
Australia Southeast (Victoria)	Asia Pacific (Sydney)	
Canada Central (Toronto)	Canada (Central)	
Germany West Central (Frankfurt)	Europe (Frankfurt)	
Switzerland North (Zurich)	Europe (Zurich)	

 For Amazon S3 storage, objects will be redundantly stored on multiple devices across a minimum of three Availability Zones in an AWS Region.

Note: For Multi-Geo customers, the default storage locations are distributed according to the data center mappings. If you are using default storage for Multi-Geo, you have a chance to choose to use the default storage or your own storage for each region while configuring data center mappings in the IBM Storage Protect for Cloud interface. Once the configurations are saved, you can no longer change the storage path.

• Custom storage location – If your subscription has BYOS (bring your own storage) enabled, you can configure a custom storage location for all service types or configure separate storage for each service type to store your data, upon your subscription agreement.

The storage information, apart from its path information, can be modified.

Currently, you can choose from the following supported storage types for BYOS:

- Microsoft Azure Blob Storage
- Amazon S3
- Amazon S3-Compatible Storage

- FTP
- SFTP
- Dropbox
- IBM Storage Protect-S3
- IBM Cloud Object Storage

If you are using your own Microsoft Azure storage account, note the following:

- If you are about to use your own Microsoft Azure Blob Storage as the storage location, the preferred method is to use the device in the same Data Center as your IBM Storage Protect for Cloud Microsoft 365 tenant for the best network performance.
- Before you add the Azure storage account to the IBM Storage Protect for Cloud Microsoft 365, you must first add the IBM Storage Protect for Cloud IP addresses to your Azure storage account firewall and configure the firewall to allow IBM Storage Protect for Cloud agent servers running on a dedicated ARM Vnet subnet to access your storage location. For details, refer to <u>"Allow IBM Storage Protect for Cloud Agent Servers to Access Your Storage Account"</u> on page 74.
- After the January 2024 release, IBM Storage Protect for Cloudwill write your new backup data to the cold tier by default to reduce storage costs. The supported Azure account kinds are StorageV2 and BlobStorage of Standard performance type. For existing customers, your former backup data is still stored in the cool tier.
- Additionally, you can keep the index database in a cool or hot tier, to ensure restore jobs automatically rehydrate data from the archive storage tier.

For details about blob access tiers and how to change access tiers, refer to the Microsoft article: Azure Blob storage: hot, cool, and archive access tiers.

If you are using your own Microsoft Azure Blob storage and facing the upper limit of your storage account, you can contact Microsoft Azure support to request an increase. If you have another Azure storage account, you can also append it through the **Storage Location** tab in IBM Storage Protect for Cloud Microsoft 365. Currently, you can only append one additional storage account, and this is only available for BYOS customers on Azure. Once the new storage location is saved, the new storage will be used to store backup data for the further incremental backup jobs and restore jobs. IBM Storage Protect for Cloud Microsoft 365 services will no longer write to the legacy storage location. However, you must ensure your legacy storage is accessible if the backup job to start later is an incremental backup. Otherwise, the incremental backup will fail. The full backup job to start a new cycle will not been impacted in this case.

Allow IBM Storage Protect for Cloud Agent Servers to Access Your Storage Account

If you are using or plan to use your own storage device, read the instructions in this section carefully and adjust the settings as needed. Otherwise, you can skip this topic.

When you are using your own storage device, you may have set up the storage firewall to only allow the trusted clients for security concerns. To ensure that IBM Storage Protect for Cloud Microsoft 365 can access your storage, complete the settings as required in the following conditions:

Note: If you are using a trial subscription and the storage account you want to use in the trial has a firewall enabled, read the conditions below and complete the configuration.

- If you are using Microsoft Azure storage, refer to the following:
 - If your storage account is in the same data center as the one you use to sign up for IBM Storage Protect for Cloud or your storage account is in its paired region, you must add the Azure Resource Manager (ARM) vNet subnets where the IBM Storage Protect for Cloud servers are running on to your storage networking. You can find additional details in this Microsoft article: Grant access from a virtual network, and get the subnet ID of the subnet ID of IBM Storage Protect for Cloud products for your data center from Download ARM Vnet IDs. For detailed instructions, refer to "Add ARM virtual networks" on page 76.

- Other than the condition above, you need to add all the reserved IP addresses to the Azure storage firewall. For details, refer to "Add reserved IP addresses to Azure storage firewall" on page 75
- If you are using Amazon S3 in Southeast Asia (Singapore) data center, you need to add all the reserved IP addresses and specific VPC ID to the bucket policy. For details, refer to Add reserved IP addresses and VPC ID to Amazon S3 bucket policy.

If you use a storage type other than Microsoft Azure storage and Amazon S3, you must add reserved IP addresses to your storage firewall

To get the list of the reserved IP addresses, refer to Download a List of Reserved IP Addresses.

Add reserved IP addresses to Azure storage firewall

- 1. Navigate to IBM Storage Protect for Cloud interface > Administration > Security.
- 2. Click **Download** next to the **Reserved IP Addresses** tile to download the list of reserved IP addresses of IBM Storage Protect for Cloud. For details, refer to .
- 3. Go to the storage account that you want to secure.
- 4. Select Networking on the menu.
- 5. Check that you've selected to allow access from Selected networks.
- 6. Enter the IP address or address range under **Firewall** > **Address Range**.
- 7. Select **Save** to apply your changes.

Add reserved IP addresses and VPC ID to Amazon S3 bucket policy

To use the Amazon S3 storage in Southeast Asia (Singapore) data center, you must add all the reserved IP addresses and the IBM Storage Protect for Cloud AWS VPC ID to your bucket policy.

Follow the instructions in the bucket policy template below.

```
<sup>1</sup>
"Version": "2012-10-17", // Specifies the language syntax rules that are to be used to process
a policy. 2012-10-17 is the latest version.
"Statement": [
"Sid": "S3_IPAllow", // An optional identifier used as a description for the policy statement.
"Effect": "Deny", // You must set the Effect element to Deny here, which indicates that the
access to the resources will be denied if the IP Address is not listed in aws:SourceIP and the
VPC is not listed in aws:SourceVpc.
"Principal": {
"AWS": "*" // Specifies the IAM users who have access to the resources.
"Action":[
"s3:GetObject"
"s3:DeleteObject",
"s3:PutObject"
"s3:DeleteObjectVersion",
"s3:ListBucket"
],
"Resource": [
],
"Condition": {
"NotIpAddress": {
"aws:SourceIp":
list. To get a list of IBM reserved IP addresses, refer to Download a List of Reserved IP
Addresses
"XXXXXXXXXXXXXXXXXXXXXX/ //
"StringNotEquals": {
"StringNotEquals": {
"aws:SourceVpc": "vpc-04c390b29bb119f8f" // Example of the AWS VPC ID of Southeast Asia
```

Add ARM virtual networks

] }

To grant access to a subnet in a virtual network belonging to another tenant, use PowerShell, CLI, or REST API.

```
### Contact IBM Software Support team to get the IBM Storage Protect for Cloud Microsoft 365
products network subnet resource ID
providers/Microsoft.Network/virtualNetworks/VIrtualNetworkName/subnets/SubnetName'
$DESTRG="customer_resource_group_name"
$DESTSTA="customer_storage_accont_name"
Ⅎ╘Ⅎ╘Ⅎ╘
## Use the Azure cli tool (https://docs.microsoft.com/en-us/cli/azure/install-azure-cli?
view=azure-cli-latest)
<u></u>
## Add the firewall virtual network rule to grant access to IBM Storage Protect for Cloud
Microsoft 365
az storage account network-rule add --resource-group $DESTRG --account-name $DESTSTA --subnet
$SUBNETID
az storage account network-rule list --resource-group $DESTRG --account-name $DESTSTA --query
virtualNetworkRules
## (Optional) Disable the public access to storage account
az storage account update --resource-group $DESTRG --name $DESTSTA --default-action Deny
az storage account show --resource-group $DESTRG --name $DESTSTA --query
networkRuleSet.defaultAction
4F4F4F4F
‡‡‡‡
     Use the Azure Az PowerShell (https://docs.microsoft.com/en-us/powershell/azure/install-az-
ps?view=azps-5.1.0)
##
Add-AzStorageAccountNetworkRule -ResourceGroupName $DESTRG -Name $DESTSTA
-VirtualNetworkResourceId $SUBNETID
Get-AzStorageAccountNetworkRuleSet -ResourceGroupName $DESTRG -AccountName $DESTSTA
```

You will see the virtual network rules in Azure Portal. You may also notice that a warning message "Insufficient Permission..." is displayed. It is because the subnet is not in your subscription. You can ignore it.

Change Storage Location

About this task

If you want to change to use your own storage location, contact the <u>IBM Software Support</u> team to update your subscription and then complete the following steps. Otherwise, IBM Storage Protect for Cloud Microsoft 365 will continue to store data to the IBM Storage Protect for Cloud-hosted default storage.

Procedure

- 1. On the **Storage** page, the **Change to my own storage** link is available. Click **Change to my own storage**. A pop-up window appears.
- 2. In the pop-up window, you must choose how to handle the existing backup data stored in the default storage location.
 - Retain all backup data currently stored in IBM Storage Protect for Cloud storage for 90 days The backup data in the default storage location will be retained for 90 days after the storage change.

You will get an email notification 7 days before the data deletion. For data migration, contact <u>IBM</u> <u>Software Support</u>. The next backup job for each of the enabled backup types will store the backup data to the configured custom storage location.

- Remove all backup data from IBM Storage Protect for Cloud storage The backup data will be removed from the default storage location, and you cannot use the previous backup data for restore. After the storage location is changed, the backup jobs for the enabled backup types will start in a few seconds, and the new backup schedule of an object type will start once the corresponding backup job starts. The backup data will be stored in the configured custom storage location.
- 3. Click **OK** to save the settings and configure the custom storage location.

Note the following:

- If you are using your own storage and would like to configure separate storage locations for each service type, contact the <u>IBM Software Support</u> team. The **Storage** page will display the configurations.
- If you are using the Microsoft Azure Blob storage and facing the upper limit of your storage account, you can append an additional storage account of Microsoft Azure Blob Storage for backup and restore. If you have already appended the storage, you can view the storage information on the **Storage** page.

Note: We recommend you contacting Microsoft Azure support first to request an increase for the maximum capacity of the storage account that you are currently using.

To append an additional storage location, you need another Azure storage account. Currently, you can only append one additional storage account, and this is only available for BYOS customers on Azure. Once you save the new storage location, the new storage will be used to store backup data for the further incremental backup jobs and restore jobs. IBM Storage Protect for Cloud Microsoft 365 will no longer write to the legacy storage location. For details on storage configuration, refer to <u>"Microsoft</u> Azure Blob Storage " on page 80.

4. Configure the storage information. For details of configuring storage information, refer to <u>"Storage Information" on page 77</u>. Click Validation Test to test whether the entered information is valid. If successful, click Apply to save and apply your own storage.

Note: The changes from the default storage to a custom storage cannot be reverted, and the custom storage cannot be changed to another custom storage once saved.

Either using the IBM Storage Protect for Cloud default storage or your own storage, the data retention settings can be applied to your backup data to help save your storage costs. Once there is backup data approaching the retention period, your administrator group will receive the **Data Retention Notification**. Once the next full snapshot of your Microsoft 365 scope takes place, we will begin pruning the old backup data that met your retention settings.

- If you want to keep your data in default storage, you can contact <u>IBM Software Support</u> team to update your subscription and increase your retention settings, but please note that increasing your data retention may increase the price you pay for your backup. If you want to archive the backup data that met the retention settings for potential restore in the future, instead of letting them be deleted from IBM Storage Protect for Cloud storage, you can submit an export request to export the data from the default storage as a paid service. For details, refer to <u>Chapter 28</u>, "Introduction to the Data Export Service," on page 159.
- If your subscription is the BYOS type, you can update your retention settings by navigating to **General Settings** > **Retention Policy**. Increasing your data retention may increase the price you pay for your backup.

Storage Information

Refer to the sections below for the storage configuration details of the supported storage types.

Amazon S3

IBM Storage Protect for Cloud will by default use HTTPS (SSL) communication to access your Amazon S3 storage and store your backup data to the S3 Standard storage class automatically. You can move the backup data from S3 Standard to S3 Standard-IA[®], S3 One Zone-IA, or S3 Intelligent-Tiering, and IBM Storage Protect for Cloud Microsoft 365 can restore the backup data of those storage classes. However, you should carefully consider the consequences before you activate the archive access tier if you are using S3 Intelligent-Tiering. Activating the archive access tier will cause data object files that have not been accessed for 90 days to be archived, and IBM Storage Protect for Cloud Microsoft 365 cannot access the archived data in your Amazon S3 storage.

Procedure

Follow the instructions below:

- 1. Storage Type Select Amazon S3 from the drop-down list.
- 2. Bucket name Enter the bucket name you wish to access.

Note: Ensure the bucket policy in Amazon S3 storage applied to your account contains the following required permissions:

- Read: Get Object
- List: ListBucket
- Write: DeleteObject; PutObject; DeleteObjectVersion
- 3. Access key ID Enter the corresponding access key ID to access the specified bucket. You can view the Access key ID from your AWS account.

Note: The AWS account must have the AmazonS3FullAccess policy assigned.

- 4. Secret access key Enter the corresponding secret key ID to access the specified bucket. You can view the Secret access key from your AWS account.
- 5. **Storage region** Select the **Storage region** of this bucket from the drop-down menu.

The available regions are:

US East (N. Virginia)	US East (Ohio)	US West (Northern California)
US West (Oregon)	Canada (Central)	EU (Ireland)
EU (Frankfurt)	EU (London)	Asia Pacific (Singapore)
Asia Pacific (Tokyo)	Asia Pacific (Sydney)	Asia Pacific (Seoul)
Asia Pacific (Mumbai)	South America (Sao Paulo)	

- Advanced Enter the following extended parameters in Advanced settings if necessary. If you have
 multiple parameters to enter, press Enter on your keyboard to separate the parameters. Refer to the
 instructions below to add parameters.
 - **RetryInterval** Customize the retry interval when the network connection is interrupted. Enter any positive integer between 0 and 2147483646 (the unit is millisecond). For example, RetryInterval=30000 means that it will try to reconnect every 30000 milliseconds.

If you do not configure this parameter, the value is 30000 milliseconds by default.

• **RetryCount** – Customize the reconnection times after the network connection is interrupted. Enter any positive integer between 0 and 2147483646. For example, RetryCount=6 represents when the network connection is interrupted, it can reconnect at most 6 times.

If you do not configure this parameter, the value is 6 by default.

• **CustomizedMetadata** – Configure if customized metadata or user-added metadata is supported. By default, customized metadata and user-added metadata are all supported.

- **CustomizedMode=Close** This physical device will not support customized metadata or user-added metadata.
- **CustomizedMode=SupportAll** This physical device will support all customized metadata and user-added metadata.
- **CustomizedMode=CustomizedOnly** This physical device will only support user-added metadata.
- **CustomizedRegion** Configure the customized region of the physical device. For example, enter **CustomizedRegion=s3-us-gov-west-1.amazonaws.com** to configure the GovCloud account.

Amazon S3-Compatible Storage

You can configure Amazon S3-compatible storage.

Procedure

Follow the instructions below:

- 1. Storage Type Select Amazon S3-Compatible Storage from the drop-down list.
- 2. **Bucket name** Enter the bucket name you wish to access.

Note: Ensure the bucket policy in Amazon S3-compatible storage applied to your account contains the following required permissions:

- Read: Get Object
- List: ListBucket
- Write: DeleteObject; PutObject; DeleteObjectVersion
- 3. Access key ID Enter the corresponding access key ID to access the specified bucket.
- 4. Secret access key Enter the corresponding secret key ID to access the specified bucket.
- 5. Endpoint Enter the URL used to connect to the place where you want to store the data.

Note: The URL must begin with "http://" or "https://".

- Advanced Enter the following extended parameters in Advanced settings if necessary. If you have multiple parameters to enter, press Enter on your keyboard to separate the parameters. Refer to the instructions below to add parameters.
 - **SignatureVersion** By default, IBM Storage Protect for Cloud Microsoft 365 uses V2 authentication to access your storage. If you want to use V4 authentication, add **SignatureVersion=V4** into the extended parameters.
 - **RetryInterval** Customize the retry interval when the network connection is interrupted. Enter any positive integer between 0 and 2147483646 (the unit is millisecond). For example, RetryInterval=30000 means that it will try to reconnect every 30000 milliseconds.

If you do not configure this parameter, the value is 30000 milliseconds by default.

• **RetryCount** – Customize the reconnection times after the network connection is interrupted. Enter any positive integer between 0 and 2147483646. For example, RetryCount=6 represents when the network connection is interrupted, it can reconnect at most 6 times.

If you do not configure this parameter, the value is 6 by default.

- **CustomizedMetadata** Configure if customized metadata or user-added metadata is supported. By default, customized metadata and user-added metadata are all supported.
- **CustomizedMode=Close** This physical device will not support customized metadata or user-added metadata.
- **CustomizedMode=SupportAll** This physical device will support all customized metadata and user-added metadata.
- **CustomizedMode=CustomizedOnly** This physical device will only support user-added metadata.

Microsoft Azure Blob Storage

Before you begin

If you are using your own **Microsoft Azure Blob Storage** (BYOS subscription) and interested in how the backup data is stored in Azure Blob storage, refer to Storage for details.

Before adding the storage account to the IBM Storage Protect for Cloud Microsoft 365 interface, ensure IBM Storage Protect for Cloud agents have access to your storage. For details, refer to <u>"Allow IBM Storage</u> Protect for Cloud Agent Servers to Access Your Storage Account" on page 74.

Procedure

Follow the instructions below:

- 1. Storage Type Select Microsoft Azure Blob Storage from the drop-down list.
- 2. Access point Enter the URL for the Blob Storage Service. The default URL is *https:// blob.core.windows.net*.
- 3. Container name Enter the container name you wish to access.
- 4. Account name Enter the corresponding account name to access the specified container.
- 5. Account key Enter the corresponding account key to access the specified container.
- 6. **CDN enabled** Select this checkbox if the Microsoft Azure content delivery network (CDN) is enabled.
- Advanced Enter the following extended parameters in Advanced settings if necessary. If you have
 multiple parameters to enter, press Enter on your keyboard to separate the parameters. Refer to the
 instructions below to add parameters.
 - **RetryInterval** Customize the retry interval when the network connection is interrupted. You are allowed to enter any positive integer between 0 and 2147483646 (the unit is millisecond). For example, RetryInterval=30000 means that it will try to reconnect every 30000 milliseconds.

If you do not configure this parameter, the value is 30000 milliseconds by default.

• **RetryCount** – Customize the reconnection times after the network connection is interrupted. You are allowed to enter any positive integer between 0 and 2147483646. For example, RetryCount=10 represents when the network connection is interrupted, it can reconnect at most 10 times.

If you do not configure this parameter, the value is 6 by default.

- **CustomizedMetadata** Configure if customized metadata or user-added metadata is supported. By default, customized metadata and user-added metadata are all supported.
- **CustomizedMode=Close** This physical device will not support customized metadata or user-added metadata.
- **CustomizedMode=SupportAll** This physical device will support all customized metadata and user-added metadata.
- **CustomizedMode=CustomizedOnly** This physical device will only support user-added metadata.

FTP

You can configure File Transfer Protocol (FTP) storage.

About this task

Note the following guidelines for using FTP storage and then provide the storage information as follows:

- Use a high-performance computer as the FTP server, especially those with fast disk read and write speed.
- Use a high-level port as the port of the FTP server, such as a port after 6000, to prevent other software installed on the FTP server from occupying the same port and affecting the data being uploaded and downloaded.

- Only the passive mode of an FTP device is supported.
- Do not support the FTP device to enable SSL/TLS. If you need high-level data transmission security and encryption, you can use the Secure File Transfer Protocol (SFTP) service instead. IBM Storage Protect for Cloud Microsoft 365 also supports using SFTP devices. You can contact the <u>IBM Software Support</u> team for assistance.
- If the FTP server you want to use is in an internal network environment and there is a firewall between the internal network and external network, ensure all the ports (the connection port and all the ports in the dynamic port range of the FTP server) can pass through the firewall.
- If the FTP server has set access control using IP addresses, you must download the reserved IP addresses from the IBM Storage Protect for Cloud Microsoft 365 interface and add them to the firewall's allow list. For detailed instructions, refer to Download a List of Reserved IP Addresses.

Procedure

Follow the instructions below:

- 1. Storage Type Select FTP from the drop-down list.
- 2. **Host** Enter the IP address of the FTP server.
- 3. Port Enter the port to use to connect to this FTP server. The default port is 21.
- 4. Username Enter the username to use to connect to this FTP server.
- 5. **Password** Enter the password of the specified username.
- 6. Advanced Enter the following extended parameters in advanced settings if necessary. If you have multiple parameters to enter, press **Enter** on the keyboard to separate the parameters. Refer to the instructions below to add parameters:
 - **IsRetry** Whether or not to try again when IBM Storage Protect for Cloud failed to write the data in the physical device.
 - If you enter **IsRetry=true**, it will try again when IBM Storage Protect for Cloud failed to write the data in the physical device.
 - If you enter **IsRetry=false**, it will not try again when IBM Storage Protect for Cloud failed to write the data in the physical device.
 - **RetryInterval** Customize the retry interval when the network connection is interrupted. You are allowed to enter any positive integer between 0 and 2147483646 (the unit is second). For example, RetryInterval=30 means that it will try to reconnect every 30 seconds.

If you do not configure this parameter, the value is 30 seconds by default.

• **RetryCount** – Customize the reconnection times after the network connection is interrupted. You are allowed to enter any positive integer between 0 and 2147483646. For example, RetryCount=60 represents when the network connection is interrupted, it can reconnect at most 60 times.

If you do not configure this parameter, the value is 6 by default.

SFTP

You can configure Secure File Transfer Protocol (SFTP) storage.

Procedure

Follow the instructions below:

- 1. Storage Type Select SFTP from the drop-down list.
- 2. Host Enter the IP address of the FTP server.
- 3. **Port** Enter the port to use to connect to this FTP server. The default port is 21.
- 4. Root folder Enter the root folder where you wish to access.
- 5. **Username** Enter the username used to access the root folder.
- 6. **Password** Enter the corresponding password of the user used to access the root folder.

- 7. Private key Enter the private key to access the root folder.
- 8. Private key file password Enter the corresponding password of the private key.
- 9. Advanced Enter the following extended parameters in advanced settings if necessary. If you have multiple parameters to enter, press **Enter** on the keyboard to separate the parameters. Refer to the instructions below to add parameters:
 - **IsRetry** Whether or not to try again when IBM Storage Protect for Cloud failed to write the data in the physical device.
 - If you enter **IsRetry=true**, it will try again when IBM Storage Protect for Cloud failed to write the data in the physical device.
 - If you enter **IsRetry=false**, it will not try again when IBM Storage Protect for Cloud failed to write the data in the physical device.
 - **RetryInterval** Customize the retry interval when the network connection is interrupted. You are allowed to enter any positive integer between 0 and 2147483646 (the unit is second). For example, RetryInterval=30 means that it will try to reconnect every 30 seconds.

If you do not configure this parameter, the value is 30 seconds by default.

• **RetryCount**– Customize the reconnection times after the network connection is interrupted. You are allowed to enter any positive integer between 0 and 2147483646. For example, RetryCount=60 represents when the network connection is interrupted, it can reconnect at most 60 times.

Note: If you do not configure this parameter, the value is 6 by default.

Dropbox

You can configure storage on the Dropbox file hosting service.

Procedure

Follow the instructions below:

- 1. Storage Type Select Dropbox from the drop-down list.
- 2. **Root Folder Name** Enter a name for the root folder, which will be created in Dropbox and used to store the data.
- 3. **Token secret** Click **Retrieve Token**. Enter the email address and the password of the Dropbox account in the pop-up window to log into Dropbox, and then the token will appear in this pop-up window. Enter the displayed token in the **Token secret** text box.
- 4. **Advanced** Enter the following extended parameters in advanced settings if necessary. If you have multiple parameters to enter, press **Enter** on your keyboard to separate the parameters. Refer to the instructions below to add parameters.
 - **RetryInterval** Customize the retry interval when the network connection is interrupted. You are allowed to enter any positive integer between 0 and 2147483646 (the unit is millisecond). For example, RetryInterval=30000 means that it will try to reconnect every 30000 milliseconds.

If you do not configure this parameter, the value is 30000 milliseconds by default.

• **RetryCount** – Customize the reconnection times after the network connection is interrupted. You are allowed to enter any positive integer between 0 and 2147483646. For example, RetryCount=10 represents when the network connection is interrupted, it can reconnect at most 10 times.

If you do not configure this parameter, the value is 6 by default.

IBM Storage Protect - S3

You can configure IBM Storage Protect - S3 storage.

Procedure

Follow the instructions below:

- 1. Storage Type Select IBM Storage Protect S3 from the drop-down list.
- 2. Bucket name Enter the bucket name you wish to access.
- 3. Access key ID Enter the corresponding access key ID to access the specified bucket.
- 4. Secret access key Enter the corresponding secret key ID to access the specified bucket.
- 5. Endpoint Enter the URL used to connect to the place where you want to store the data.
 - Note: The URL must begin with "http://" or "https://".
- 6. **Extended parameters** Enter the following extended parameters if necessary. If you have multiple parameters to enter, press **Enter** on your keyboard to separate the parameters. Refer to the instructions below to add parameters.
 - Allow_Insecure_SSL- By default, the storage client expects an SSL certificate issued by a public trusted certificate authority over HTTPS transport to ensure integrity. A self-signed certificate on the storage server side will fail the certificate validation. If you chose to use a self-signed certificate, you can set the Allow_Insecure_SSL to true in the Extended parameters to bypass the certificate validation.
 - SignatureVersion By default, IBM Storage Protect for Cloud Microsoft 365 uses V4 authentication to access your storage. If you want to use V2 authentication, add SignatureVersion=V2 into the extended parameters.
 - **RetryInterval** Customize the retry interval when the network connection is interrupted. Enter any positive integer between 0 and 2147483646 (the unit is millisecond). For example, RetryInterval=30000 means that it will try to reconnect every 30000 milliseconds.

If you do not configure this parameter, the value is 30000 milliseconds by default.

• **RetryCount** – Customize the reconnection times after the network connection is interrupted. Enter any positive integer between 0 and 2147483646. For example, RetryCount=6 represents when the network connection is interrupted, it can reconnect at most 6 times.

If you do not configure this parameter, the value is 6 by default.

- **CustomizedMetadata** Configure if customized metadata or user-added metadata is supported. By default, customized metadata and user-added metadata are all supported.
- **CustomizedMode=Close** This physical device will not support customized metadata or user-added metadata.
- CustomizedMode=SupportAll This physical device will support all customized metadata and user-added metadata.
- CustomizedMode=CustomizedOnly This physical device will only support user-added metadata.
- **Cert_thumbprint** If you have a self-signed certificate for S3 server and only want to pass the certificate validation with a specific thumbprint, enter your thumbprint as the value of the parameter.

Related information

IBM Storage Protect for Cloud server S3 agent

IBM Cloud Object Storage

You can configure IBM Cloud® Object Storage.

Before you begin

Ensure that you have HMAC credentials that are created in the IBM Cloud Object Storage. To create a set of HMAC credentials by using the console mode or CLI mode, follow the instructions in <u>HMAC credentials</u> section of the IBM Cloud documentation.

Tip: The HMAC credentials can be found in the cos_hmac_keys field, which consist of an access key and a secret key paired.

Procedure

Follow the instructions below:

- 1. Storage Type Select IBM Cloud Object Storage from the drop-down list.
- 2. Bucket name Enter the bucket name that you wish to access.

Note: The Bucket name must consist of only lowercase letters.

- 3. Access key ID Enter the corresponding access key ID to access the specified bucket. You can get the access key ID from your IBM Cloud Object Storage account.
- 4. Secret access key Enter the corresponding secret key ID to access the specified bucket. You can get the secret access key from your IBM Cloud Object Storage account.
- 5. **Endpoint** Enter the URL used to connect to the place where you want to store the data. For more details about endpoint, refer to Endpoints and storage locations.

Note: The URL must begin with "http://" or "https://".

- 6. Extended parameters Enter the following extended parameters in Extended parameters settings if necessary. If you have multiple parameters to enter, press Enter on your keyboard to separate the parameters. Refer to the instructions below to add parameters.
 - SignatureVersion By default, IBM Storage Protect for Cloud Microsoft 365 uses V2 authentication to access your storage. If you want to use V4 authentication, add SignatureVersion=V4 into the extended parameters.

Note: IBM Cloud Object Storage can be accessed by using both V2 and V4 authentication. For more details, refer to Configure authentication against a system.

• **RetryInterval** – Customize the retry interval when the network connection is interrupted. Enter any positive integer between 0 and 2147483646 (the unit is millisecond). For example, RetryInterval=30000 means that it will try to reconnect every 30000 milliseconds.

If you do not configure this parameter, the value is 30000 milliseconds by default.

• **RetryCount** – Customize the reconnection times after the network connection is interrupted. Enter any positive integer between 0 and 2147483646. For example, RetryCount=6 represents when the network connection is interrupted, it can reconnect at most 6 times.

If you do not configure this parameter, the value is 6 by default.

- **CustomizedMetadata** Configure if customized metadata or user-added metadata is supported. By default, customized metadata and user-added metadata are all supported.
- **CustomizedMode=Close** This physical device will not support customized metadata or user-added metadata.
- **CustomizedMode=SupportAll** This physical device will support all customized metadata and user-added metadata.
- **CustomizedMode=CustomizedOnly** This physical device will only support user-added metadata.
- **Cert_thumbprint** If you have a self-signed certificate for S3 server and only want to pass the certificate validation with a specific thumbprint, enter your thumbprint as the value of the parameter.

Chapter 14. Configure Retention Policy

Either using the IBM Storage Protect for Cloud default storage or your own storage, the data retention settings can be applied to your backup data to help save your storage costs.

About this task

If there is backup data approaching the retention period, your administrator group or partner's administrator group will receive the **Data Retention Notification**. Note that the Teams Chat service does not support the retention policy.

- If you want to keep your data in default storage, you can contact your IBM Storage Protect for Cloud Account Manager to update your subscription and increase your retention settings, but please note that increasing your data retention may increase the price you pay for your backup. If you want to archive the backup data that met the retention settings for potential restore in the future, instead of letting them be deleted from IBM Storage Protect for Cloud storage, you can submit an export request to export the data from the default storage as a paid service. For details, refer to <u>Chapter 28</u>, "Introduction to the Data Export Service," on page 159.
- If your subscription is the BYOS type, you can update your retention settings by navigating to Settings > Retention Policy > Data retention settings. Increasing your data retention may increase the price you pay for your backup.

If you changed storage from the default IBM Storage Protect for Cloud storage to BYOS, or from BYOS to the default storage, your changes on the retention policies would apply to your overall backup data. This means, your legacy backup data in the previous storage will be removed when it reaches the data retention date.

For customers who have purchased a BYOS subscription or subscription using default IBM Storage Protect for Cloud storage with an unlimited retention subscription, the retention policy supports being configured at container level for each service type. Note that the default retention period for BYOS subscription is one year. Once the next full snapshot of your Microsoft 365 scope takes place, we will begin pruning the old backup data that met your retention settings.

From March 2022 release, you can configure a retention period that is less than one year (from 30 to 365). To enable the day unit retention policy, contact <u>IBM Software Support</u> for assistance.

Note:

- The day unit retention policy currently does not support customization at the container level and is not applicable to SharePoint apps, the channel conversations and settings in Teams, and the Viva Engage messages. Note that Power BI, Power Automate, and Power Apps do not support day unit retention.
- The day unit retention job will ensure that any data you deleted from Microsoft 365 only lives for the configured period of time, regardless of your backup cycle. The backup data will be destroyed and unrecoverable. If the data exists in Microsoft 365 but has no recovery points within the retention period, its last recovery point that may have exceeded the retention period will be retained. However, when you search for this content to restore, the recovery point can only be displayed for the start date of the configured retention period.

Note: For BYOS customers, the day unit retention policy is not designed to reduce storage costs. Initially, the backup data will be destroyed and marked for deletion, but it does not immediately reduce the data size in your storage. Additionally, there is an annual task that permanently deletes data deemed unavailable to help manage long-term storage requirements.

• If you contact <u>IBM Software Support</u> to disable the day unit retention policy, your retention policy will be reset according to the retention policy in your subscription. You need to go to the IBM Storage Protect for Cloud Microsoft 365 interface to customize your retention policy again.

Procedure

Follow the steps below to update the retention period for a specific service type or configure the container-specific retention policies:

- 1. Navigate to Settings > Retention > Data retention settings.
- 2. To apply a default retention period for your backup data of all service types, select the **Set a default retention period for all services** option and update the number in the box below. Note that the retention period you can set for the retention policy cannot exceed your purchased retention years. If your subscription contains an unlimited data retention agreement, you can customize the data retention years for each of the services. Before the retention period of your data of a certain service type expires, your tenant owner will receive an email notification.
- 3. With the **Configure retention policy for each service** option selected, all the enabled service types are displayed. Note that the Teams Chat service does not support the retention policy and all backup data of Teams Chat will be retained until the subscription expires.
- 4. You can update the number for each service type under the **Retention Period** column to define the default retention period for the specific service type.
- 5. If you would like to define retention policies for a specific container of that service type, you can turn on the switch under the **Customize Containers** column. The **Customize Container Level Retention Policy** pane will appear. Note that the day unit retention policy currently does not support the customization at the container level.
- 6. You can update the default retention period for the service type and update the number under the **Retention Period** column in the table for a specific container.
- 7. Click **Save** in the **Customize Container Level Retention Policy** pane to save your changes to the retention policy of the corresponding service type, or click **Cancel** to exit.
- 8. You can repeat the actions from steps 5 to 7 to customize the container level retention policy for the other service types.
- 9. Click **Apply** at the bottom of the **Date retention settings** page to update the settings.

Chapter 15. Account Management

Account Management provides centralized management of groups and securities. Administrators can add and manage groups for security control of what users can restore, export and delete, and whether the users can view reports or configure settings in IBM Storage Protect for Cloud Microsoft 365. Security group allows you to organize users in IBM Storage Protect for Cloud Microsoft 365 more efficiently. You can add users to a security group, and then all users in that group will have permission to restore any objects that are contained in the object containers that have been assigned to this group.

Administrators group is the built-in group that has all permissions in IBM Storage Protect for Cloud Microsoft 365. You cannot remove this group or update its permissions. The security groups you created will be listed on the Account Management page.

Note: The users and groups who have been designated as service administrators of IBM Storage Protect for Cloud Microsoft 365 will be automatically synchronized to the Administrators group. If the user is demoted from the IBM Storage Protect for Cloud Microsoft 365 application administrator to a standard user, IBM Storage Protect for Cloud Microsoft 365 will automatically remove this user from the Administrators group as well.

When you add a security group, distribution group, or mail-enabled security group to IBM Storage Protect for Cloud, the following users cannot sign into IBM Storage Protect for Cloud Microsoft 365:

- The owner of the distribution group or mail-enabled security group.
- If the security group has nested groups and the owner of a nested group is not a member of any other groups that have been added to IBM Storage Protect for Cloud/IBM Storage Protect for Cloud Microsoft 365, the nested group owner cannot sign into IBM Storage Protect for Cloud Microsoft 365.

Create a Security Group

To manage user permissions more efficiently, you can create a security group for a set of users and configure the group permissions. The users within this group will have the restore permission when the group is granted.

Procedure

- 1. On the Account Management page, click Create Security Group.
- 2. In the right pane for creating a new security group, enter the group name and an optional description.
- 3. Enter the users or groups that you want to add to this group into the **Invite users/groups** box. The users and groups you grant permissions to must exist in your tenant and have license and permissions to access IBM Storage Protect for Cloud Microsoft 365.
- 4. Then you can Define services and permission assigned to users:
 - a) **Backup scope** Turn on the switch. Then choose between **View Only** and **View and Edit** permissions for users and select service types that you want to assign to users.

Users with the View and Edit permission can take the following actions:

- View the selected services, and configure backup and view backup details for the selected modules in the **Backup** page.
- View backup jobs for the selected services, and generate and download job report in **Job monitor**.
- View the Remove unprotected data for the selected services.

Compared to users with the **View and Edit** permission, users with the **View Only** permission cannot configure the backup.

b) **Data scope**- Turn on the switch and select whether to assign the permission on **Restore**, **Export**, and **Deletion** to users. Then turn on the switch of service types and select containers to define the

Permission scope for users. To select all containers for this service type, select the **Select all** option in the column header.

The containers you selected will be displayed for the selected service type. The users of this group can run corresponding **Restore**, **Export**, or **Deletion** jobs for the containers in the permission scope of the selected services.

- **Restore**: With the restore permission selected, the **Restore**, **Backup data e-discovery** and the **Mapping** settings will be displayed in the navigation. When selecting some data in **Restore** or **Backup data e-discovery**, the **Restore** button will appear. The user can also view the restore jobs for the selected services, and generate and download job report in **Job monitor**.
- Export: With the export permission selected, the **Restore** and **Backup data e-discovery** will be displayed in the navigation. When selecting some data in **Restore** or **Backup data e-discovery**, the **Export** button will appear. The user can also view the export jobs for the selected services, and generate and download job report in **Job monitor**.
- Deletion: With the deletion permission selected, the Data subject access requests, Manually delete backup data and Backup data e-discovery will be displayed in the navigation. When selecting some data in Manually delete backup data or Backup data e-discovery, the Delete button will appear. The user can also view the deletion jobs for the selected services, and generate and download job report in Job monitor.
- c) **Reporting -** Turn on the switch so that users can view the reports in **Reporting**.

With the Reporting permission turned on, the **Subscription consumption** report, **End-user restore report, Job analytics report, System auditor** report, and **Microsoft 365 unusual activities analysis** report, **Coverage report** are available to the user.

Note: If some users in a security group have been granted the **Reporting** permission only without the **Restore** or **Export** permission, the Go to Restore page option in the **Microsoft 365 unusual activities analysis** > **View details** page will be hidden.

d) Settings- Turn on the switch so that users can view and configure Settings.

With the **Settings** permission turned on, the user can configure the **Storage**, **Backup** settings, **Notification**, **Retention** policy, **Mapping** settings, **End-user restore** settings and export **Encryption** keys.

5. Click **Save** to save your configurations; click **Cancel** to exit the creation.

Chapter 16. Configure End-User Restore Settings

Through the Settings > End-user restore > End-user restore setting for IBM Storage Protect for Cloud Recovery Portal users page, you can choose whether to enable the end-user restore for IBM Storage Protect for Cloud Recovery Portal to recover or export the backup data of the supported services and define the end-user permissions who can restore or export the Team/Group/Power BI backup data via IBM Storage Protect for Cloud Recovery Portal. You can also choose whether to allow IBM Storage Protect for Cloud Recovery Portalusers to recover sharing links of the backup data.

In addition, if you have a BYOS subscription using your Azure storage, you can also configure whether to allow end users of IBM Storage Protect for Cloud Recovery Portal in your tenant to restore the backup data in the archive tier.

The End-user restore setting is only available to your application administrators or the service provider.

- If you do not want to allow the end-user restore, you can turn off the **IBM Storage Protect for Cloud Recovery Portal users to recover backup data** switch. You can also separately disable the end-user restore or export for the following services: Exchange Online, OneDrive, SharePoint Online, Microsoft 365 Groups, Teams, Teams Chat, Power BI, and Power Automate. Note that Power BI only supports the end-user restore, and Teams Chat and Power Automate only supports the end-user export.
- With the end-user restore enabled, you can select the user roles for who can perform the restore or export for Teams and Groups, and who can restore Power BI reports from IBM Storage Protect for Cloud Recovery Portal.

Note: If your subscription was updated to use IBM Storage Protect for Cloud default storage from using your own storage (BYOS subscription), this page will be unavailable, and your end users cannot restore the backup data stored at the archive tier from your own storage. In this case, you can help them perform the restore from IBM Storage Protect for Cloud Microsoft 365 interface instead.

By default, sharing links for SharePoint Online, OneDrive and Team/Group data won't be restored when end users restore the backup data through IBM Storage Protect for Cloud Recovery Portal. To enable the restore of sharing links, you can turn on the **Allow IBM Storage Protect for Cloud Recovery Portal users to recover sharing links** switch.

Note: For OneDrive backup cycles after November 2022, sharing links will always be restored and cannot be controlled by the **Allow IBM Storage Protect for Cloud Recovery Portal users to recover sharing links** setting.

Chapter 17. Export Encryption Key

This feature is only available for administrators of the IBM Storage Protect for Cloud tenant. The Support account you invited for troubleshooting will not be able to access the page. To export the encryption key, navigate to **Settings** > **System** > **Encryption keys**.

By default, this page is not available to the users who are using default storage hosted by IBM. You can contact the Support Team to enable this feature if needed.

The backup data generated by IBM Storage Protect for Cloud is encrypted. If you have chosen our data export service, you will need an encryption key to help you convert the backup data to plain file format. Note that you must export the encryption key before your move away from this product, as you will not be able to sign in to the IBM Storage Protect for Cloud interface if your subscription has ended.

If you only want to export a small set of backup data to plain file format, use the Export feature we provided in the **Restore** wizard. For details, refer to <u>Chapter 19</u>, "Export and Download Your Data," on page 97.

Before generating encryption keys, you should first set a password for encryption keys and click the **Apply** button to apply the password. The password is used to access the encryption keys in the standalone tool. You can also configure whether to allow IBM Storage Protect for Cloud Microsoft 365 to copy the encryption keys to your BYOS storage weekly.

To generate and download the encryption key for the service types for which you have performed a backup, click the **Generate** button to generate the key, and then click **Download** to download the ZIP file and save it to your local computer.

If you have performed backups or updated the password after the last time you generated the key, click **Regenerate** to regenerate the key for the updated backup data and download the file again.

Chapter 18. Configure Mapping Settings

If you want to restore items to another location, you may want to map the source domain or user to the destination to update the permissions and metadata, or map the source language to the target language to display the source content in the target language.

To configure the mapping settings, expand the **Settings** tree on the left pane, and then click **Mapping Settings**. Refer to the section below to configure the <u>"Domain Mapping" on page 94</u>, <u>"Language</u> Mapping" on page 94, and "Language Mapping" on page 94.

Note: Domain mapping only supports Microsoft 365 Group Planner data and Project Online data; user mapping does not support mapping Microsoft 365 groups.

User Mapping

Procedure

In the User Mapping tab, you can perform the following actions:

- Click the **Create a New Profile** button to create a new user mapping profile. For details, refer to "Create a New User Mapping Profile" on page 93.
- Click the mapping profile name to view the details of a user mapping profile. If you want to make changes to this profile, click **Edit**.
- Select the mapping profile and then click the Edit button to edit the user mapping profile.
- Select the mapping profile and then click the **Delete** button to delete the user mapping profile.

Create a New User Mapping Profile

Procedure

To create a new user mapping profile, follow the steps below:

Note: User mapping does not support mapping Microsoft 365 groups.

- 1. Click Create mapping profile. The Create a new user mapping pane appears.
- 2. Configure the following settings:
 - Name Enter the name of the new user mapping profile.
 - Description Enter an optional description for this user mapping profile for future reference.
 - Mapping rules Configure user mapping rules by clicking Add. Enter the Source username and Destination username. To delete a user mapping rule, click the Delete (1) button.

Note: Only one user mapping rule can be configured for a source user.

- Customize settings if the user does not exist in destination This option is deselected by default. With this option selected, enter the username of the Target Default User. Keep this option deselected if you do not want to customize the target default user.
- 3. Click **Save** to save the configurations for this user mapping profile and return to the **Mapping** > **User mapping** tab.

Language Mapping

You can configure the language mappings in IBM Storage Protect for Cloud Microsoft 365 for English, German, and French.

Procedure

In the Language mapping tab, you can perform the following actions:

- Click the **Create mapping profile** button to create a new language mapping profile. For details, refer to <u>"Create a New User Mapping Profile" on page 93</u>.
- Click the mapping profile name to view the details of a language mapping profile. If you want to make changes to this profile, click **Edit**.
- Select the mapping profile and then click the **Edit** button to edit the language mapping profile.
- Select the mapping profile and then click the **Delete** button to delete the language mapping profile.

Create a New Language Mapping Profile

Procedure

To create a new domain mapping profile, follow the steps below:

- 1. Click Create mapping profile. The Create a new language mapping pane appears.
- 2. Configure the following settings:
 - Name Enter the name of the new language mapping profile.
 - **Description** Enter an optional description for this language mapping profile for future reference.
 - Source Language Select the language from the drop-down list that the source node is displayed in.
 - **Target Language** Select the language from the drop-down list that you want to have the destination node display.
 - **Mapping Rules** Configure language mapping rules by clicking **Add**. Select **List/Library** or **Column** from the **Type** drop-down list. Enter the name of the list/library or column used in the source language. Enter the name of the list/library or column you want the target language to use in the destination node. The source column or list/library name will be replaced by the specified destination column or list name. To delete a language mapping rule, click the Delete (**1**) button.

Note: The value of the same type in the Source text field cannot be the same.

3. Click **Save** to save the configurations for this language mapping profile and return to the **Mappings** > **Language mapping** page.

Domain Mapping

Procedure

In the **Domain Mapping** tab, you can perform the following actions:

- Click the **Create mapping profile** button to create a new domain mapping profile. For details, refer to <u>"Create a New Domain Mapping Profile" on page 95</u>.
- Click the mapping profile name to view the details of a domain mapping profile. If you want to make changes to this profile, click **Edit**.
- Select the mapping profile and then click the Edit button to edit the domain mapping profile.
- Select the mapping profile and then click the **Delete** button to delete the domain mapping profile.

Create a New Domain Mapping Profile

Procedure

To create a new domain mapping profile,s follow the steps below:

- 1. Click Create mapping profile. The Create a new domain mapping pane appears.
- 2. Configure the following settings:
 - Name Enter the name of the new domain mapping profile.
 - **Description** Enter an optional description for this domain mapping profile for future reference.
 - Mapping Rules Configure domain mapping rules by clicking Add. Enter the Source domain and Destination domain using the format in the example. To delete a domain mapping rule, click the Delete (1) button.

Note: Only one domain mapping rule can be configured for each source domain.

3. Click **Save** to save the configurations for this domain mapping profile and return to the **Mappings** > **Domain Mapping** page.
Chapter 19. Export and Download Your Data

IBM Storage Protect for Cloud Microsoft 365 helps you export and download your backup data for Exchange Online, SharePoint Online, OneDrive, Microsoft 365 Groups, Project Online, Public Folders, Teams, Teams Chat, Yammer, Power BI, Power Automate, or Power Apps.

After you export your data, you can go to the **Job Monitor** to download the exported data to a local location. You can stop a running export job as needed.

For customers with more than 100 assigned user seats, you can export up to **500** GB of data per month for all services in total by default. For customers with 100 or less assigned user seats, the monthly limitation is 100 GB. The exported data must be downloaded within seven days; otherwise, the data will be removed. This quota limitation also applies to the BYOS subscription.

Note: The generic lists will be exported to CSV files with the metadata of their folders and items. The item's attachments will be exported as individual files, and the links will be displayed in the following format: **LinkDisplayName(WebAddress)** in the exported CSV file.

If you cannot extract the exported file with Windows built-in "Extract" utility, try with a decompression software, like 7-Zip.

If you are using your own **Azure Blob Storage**, note that the Export job cannot export the backup data from **archive tier**.

A password is used to protect your exported data. After the data has been successfully exported, the account that performs the export job and the email addresses configured for Notification Settings (regardless of job status) will receive an email that notifies them to get the password through Job Monitor for extracting the exported data.

Note: You can configure a set of email notification settings for the restore and export jobs, separate from the backup. For details, refer to Chapter 8, "Configure Notifications," on page 61.

For the object levels of each service type that are supported for exporting backup data, refer to the Restore Options for Different Object Types.

Export Exchange Online Data

With IBM Storage Protect for Cloud Microsoft 365, you can export the Exchange Online mailbox, folders, and mailbox items to PST files. The exported PST files can keep the Internet headers property.

About this task

Note: When you select mailboxes to export, you can only select up to 10 mailboxes at once. The data of a mailbox will be exported to one corresponding PST file.

Procedure

Complete the steps below to export Exchange Online backup data:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup**page, and then click the **Exchange Online** tile.
- 2. Select the items that you want to export. You can choose one of the following methods to find the data to export:
 - **Search mode** Define a mailbox as the search scope and then use the properties to search for the items within the mailbox. Refer to the steps below:
 - a. In the **Name** field, enter or select a mailbox. The default search condition is to search the backup data of that mailbox within the last backup cycle.

- b. In the Backup Time Range field, the time range of the last backup cycle is displayed by default.
 Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click Reset if you want to reset the settings. Click OK to save your customization.
- c. Select **Mailbox**, **Folder**, or **Mailbox Item** from the **Level** list for the items you want to search. If you want to search for all folders or mailbox items within the selected mailbox, you can leave the search conditions empty. To search for specific folders, enter the folder name or the keywords in the **Folder Name** field; to search for the **Mailbox Item** level items, you can configure the following search conditions: **Subject, Sent From, Sent To**, and **Date Sent**.
- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The results include all backup items, which meets the search conditions in Exchange Online mailboxes, Group mailboxes and Teams mailboxes. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- e. Find and select the item you want to export from the search results. In the drop-down list under the **Recovery point** column, select a backup job that backed up this item at the status that you want to export.
- **Calendar mode** Find a backup job that backed up the items at the time of the status you want to export, and then search and select the items from the backup data of that backup job.
 - a. In the calendar, all Exchange Online backup jobs are displayed. You can select whether to display the finished with an exception or failed jobs in the calendar by selecting the **Include jobs with only partial backup data** option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b. Select a backup job. All backup data of Exchange Online is displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job
 - c. You can enter keywords to search the items, or you can click the backup data to browse the items you want to export.
- 3. After you have selected the backup data, click the **Export** button.

Export SharePoint Online Data

With IBM Storage Protect for Cloud Microsoft 365, you can export the backup data for SharePoint Online lists, libraries, folders, documents, and items.

Procedure

Complete the steps below to export Exchange Online backup data:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup**page, and then click the **SharePoint Online** tile.
- 2. Select the items that you want to export. You can choose one of the following methods to find the data to export:
 - **Search mode** Define a SharePoint Online site collection as the search scope and then use the properties to search for the items within the scope. Note that this method does not support searching and restoring the list items.

Refer to the steps below:

- a. In the **URL** field, enter the keywords in the URL or site title to search and select a SharePoint Online site collection. The default search condition is to search the backup data of that site collection within the last backup cycle.
- b. In the **Backup Time Range** field, the time range of the last backup cycle is displayed by default. Click the Calendar (i) button to customize the backup time range. The start date must be earlier

than the end date. You can click **Reset** if you want to reset the settings. Click **OK** to save your customization.

- c. Select **Site Collection, Site, List/Library, App, Folder**, or **Document** from the **Level** list for the items you want to search. If you want to search for all sites, lists or libraries, apps, folders, or documents in the selected site collection, you can leave the search conditions empty. To search for specific sites, lists/libraries, apps, or folders, enter the title or name or the keywords for search; to search for specific documents, you can configure the following search conditions: **Document Name, Created Date, Created By, Modified By**, or **Document Size**.
- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The results include all backup items which meet the search conditions in SharePoint Online sites, Project Online sites, Viva Engage sites, Group sites and Teams sites. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- e. Find and select the item you want to export from the search results. In the drop-down list under the **Recovery Point** column, select a backup job that backed up this item at the status that you want to export.
- **Calendar mode** Find a backup job that backed up the items at the time of the status you want to export, and then search and select the items from the backup job data.
 - a. In the calendar, all SharePoint Online backup jobs are displayed. You can select whether to display the finished with an exception or failed jobs in the calendar by selecting the Include jobs with only partial backup data option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b. Select a backup job. All backup data of SharePoint Online is displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job
 - c. You can enter keywords to search the items, or you can click the backup data to browse the items you want to export.
- 3. After you have selected the backup data, click the **Export** button above the table to export all selected items.

Export OneDrive Data

With IBM Storage Protect for Cloud Microsoft 365, you can export the backup data for the OneDrive libraries, folders, and documents.

Before you begin

Note: When you select OneDrive accounts to export, you can only select up to 10 accounts at once.

Procedure

Complete the steps below to export the backup data of OneDrive:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup**page, and then click the **OneDrive** tile.
- 2. Select the items that you want to export. You can choose one of the following methods to find the data to export:
 - Search mode Define a OneDrive address as the search scope and then use the properties to search for the items within the scope. Note that this method does not support searching and restoring the list items.

Refer to the steps below:

a. In the **Name** field, enter or select a OneDrive address or display name to search. The default search condition is to search the backup data for that OneDrive Address within the last backup cycle. The drop-down list will remind you of OneDrive accounts with unusual activities or under ransomware attacks.

- b. In the Backup Time Range field, the time range of the last backup cycle is displayed by default.
 Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click Reset if you want to reset the settings. Click OK to save your customization.
- c. Select **OneDrive User, Library, Folder**, or **Document** from the **Level** list for the items you want to search. If you want to search for all sites, lists or libraries, folders, or the documents of that OneDrive user, you can leave the search conditions empty. To search for specific libraries or folders, enter the title or name or the keywords for search; to search for the specific **Document**level items, you can choose whether to search for **Suspicious files** under potential ransomware attacks or **File deleted in unusual activities** in **File type** and configure the following search conditions: **Document Name, Created Date, Created By, Modified By**, or **Document Size**.
- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- e. Find and select the item you want to export from the search results. In the drop-down list under the **Recovery Point** column, select a backup job that backed up this item at the status that you want to export. The recovery points of the objects with unusual activities detected or potential ransomware attack detected will be displayed with 4 (**Unusual activities detected**) or
 - Potential ransomware attack detected).
- **Calendar mode** Find a backup job that backed up the items at the time of the status you want to export, and then search and select the items from the backup data of that backup job.
 - a. In the calendar, all OneDrive backup jobs are displayed. You can select whether to display the failed jobs or jobs that finished with an exception in the calendar by selecting the **Include jobs with only partial backup data** option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b. Select a backup job. All backup data for OneDrive is displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job. Objects with unusual activities detected or potential ransomware attack detected will be displayed with 4 (**Unusual activities detected**) or **(Potential ransomware attack detected**).
 - c. You can enter keywords to search the items that you can click the backup data to browse the items you want to export.
- 3. After you have selected the items that you want to export, click the **Export** button above the table to export all selected items.

Export Microsoft 365 Groups Data

With IBM Storage Protect for Cloud Microsoft 365, you can export the backup data for a Microsoft 365 group, the lists, libraries, folders, items, and documents in the group team site, and the group mailbox, folders, and mailbox items. The group mailbox, folders, and mailbox items of the Microsoft 365 Group will be exported to PST files. The exported PST files can keep the Internet headers property.

Procedure

Complete the steps below to export the backup data of Microsoft 365 Groups:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup**page, and then click the **Microsoft 365 Groups** tile.
- 2. Select the items that you want to export. You can choose one of the following methods to find the data to export:
 - **Search mode** Define a Microsoft 365 Group as the search scope and then use the properties to search for the items within the scope. Refer to the steps below:

- a. In the **Name** field, enter or select a Microsoft 365 Group. The default search condition is to search the backup data for the Microsoft 365 Group within the last backup cycle.
- b. To change the search conditions, click Advanced Search to expand this field.
- c. In the **Backup Time Range** field, the time range of the last backup cycle is displayed by default. Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click **Reset** if you want to reset the settings. Click **OK** to save your customization.
- d. Select Microsoft 365 Group, Group Mailbox, Folder in Mailbox, Mailbox Item, Group Team Site, Site, List/Library, App, Folder in SharePoint, Document, Plan, or Task from the Level list for the items you want to search. If you want to search for all objects at the level, you select from the selected Microsoft 365 Group. You can leave the search conditions empty.

Note: Group, Group Team Site, Site, App, Plan, and Task do not support data exporting.

- e. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- f. Find and select the item you want to export from the search results. In the drop-down list under the **Recovery point** column, select a backup job that backed up this item at the status that you want to export.
- **Calendar mode** Find a backup job that backed up the items at the time of the status you want to export, and then search and select the items from the backup data of that backup job.
 - a. In the calendar, all Microsoft 365 Groups are displayed. You can select whether to display the failed jobs or jobs that finished with an exception in the calendar by selecting the Include jobs with only partial backup data option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b. Select a backup job. All backup data of Microsoft 365 Groups is displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) option to only show the data backed up in the selected backup job.
 - c. You can enter keywords to search the items, or you can click the backup data to browse the items you want to export.
- 3. After you have selected the backup data, click the Export button.

Export Project Online Data

With IBM Storage Protect for Cloud Microsoft 365, you can export the backup data of projects, libraries, lists, folders, items, and documents in a Project Online site.

Procedure

Complete the steps below to export Project Online backup data:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup**page, and then click the **Project Online** tile.
- 2. Select the items that you want to export. You can choose one of the following methods to find the data to export:
 - Search mode Define a Project Online site collection as the search scope and then use the properties to search for the items within the scope. Note that this method does not support searching and restoring the list items.

Refer to the steps below:

- a. In the **URL** field, enter or select a Project Online site collection URL. The default search condition is to search the backup data of that site collection within the last backup cycle.
- b. In the **Backup Time Range** field, the time range of the last backup cycle is displayed by default. Click the Calendar (i) button to customize the backup time range. The start date must be earlier

than the end date. You can click **Reset** if you want to reset the settings. Click **OK** to save your customization.

- c. Select **Site Collection, Site, List/Library, Project, App, Folder**, or **Document** from the **Level** list for the items you want to search. If you want to search for all of the sites, lists or libraries, projects, apps, folders, or documents in the selected site collection, you can leave the search conditions empty. To search for specific sites, lists/libraries, projects, apps, or folders, enter the title or name or the keywords for search; to search for specific documents, you can configure the following search conditions: **Document Name, Created Date, Created By, Modified By**, or **Document Size**.
- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- e. Find and select the item you want to export from the search results. In the drop-down list under the **Recovery point** column, select a backup job that backed up this item at the status that you want to export.
- **Calendar mode** Find a backup job that backed up the items at the time of the status you want to export, and then search and select the items from the backup data of that backup job.
 - a. In the calendar, all Project Online backup jobs are displayed. You can select whether to display the failed jobs or jobs that finished with an exception in the calendar by selecting the **Include jobs with only partial backup data** option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b. Select a backup job. All backup data of Project Online is displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job.
 - c. You can enter keywords to search the items, or you can click the backup data to browse the items you want to export.
- 3. After you have selected the items, you want to export, click the **Export** button above the table to export all selected items.

Export Teams Data

With IBM Storage Protect for Cloud Microsoft 365, you can export the backup data of Teams files or conversations.

Procedure

Complete the steps below to export Teams backup data:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup**page, and then click the **Teams** tile.
- 2. 2. Select the items that you want to export. You can choose one of the following methods to find the data to export.
 - Search mode Define a Team as the search scope and then use properties to search for the items within the scope. Refer to the steps below:
 - a. In the **Name** field, enter or select a Team. The default search condition is to search the backup data within the last backup cycle.
 - b. In the **Backup time range** field, the time range of the last backup cycle is displayed by default. Click the Calendar (i)button to customize the backup time range. The start date must be earlier than the end date. You can click **Reset** if you want to reset the settings. Click **OK** to save your customization.
 - c. Select Teams, Folder in mailbox, Mailbox item, Group team site, Site, List/Library, App, Folder in SharePoint, Document, Plan, or Task from the Level list for the items you want to search.

- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- **Calendar mode** Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.
 - a. In the calendar, all backup jobs of Teams are displayed. You can select whether to display the finished with an exception or failed jobs in the calendar by selecting the **Include jobs with only partial backup data** option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b. Select a backup job. All backup data of Teams is displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job.
 - c. You can enter keywords to search the items, or you can click the backup data to browse the items you want to restore.
- 3. Select a node, and then click **Export**.
- 4. An export job for Teams will start, and you can go to Job Monitor to view the job status and download the exported data.

Export Teams Chat Messages

About this task

You can search and select the users, specific chats, or individual chat messages to export. The chat messages will be exported to an HTML file. For more details on the supported and unsupported data types of Teams Chat Message, refer to <u>"Teams Chat Data Types" on page 253</u>.

Note the following:

- When you select users to export, you can only select up to 10 users at once.
- When exporting Teams Chat with multiple users whose names contain more than 1000 characters in total, the export ZIP file will be empty.

Procedure

Complete the steps below to export Teams Chat messages:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup**page, and then click the **Teams Chat** tile.
- 2. Select the items that you want to export. You can choose one of the following methods to find the data to export.
 - **Search mode** Define the search scope and then use the properties to search for the items within the scope. Refer to the steps below:
 - a. In the Name field, enter or select the user principal name. The default search condition is to search the backup data within the last backup cycle.
 - b. In the Backup Time Range field, the time range of the last backup cycle is displayed by default.
 Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click Reset if you want to reset the settings. Click OK to save your customization.
 - c. Select **Users**, **Chats**, or **Chat Messages** from the **Level** list for the items you want to find and enter the keywords in the corresponding property field for search. You can also leave the search conditions empty to search for all the objects of the selected level.
 - d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.

- **Calendar mode** Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.
 - a. In the calendar, all backup jobs of Microsoft Teams Chat are displayed. You can select whether to display the finished with exceptions or failed jobs in the calendar by selecting the Include jobs with only partial backup data option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b. Select a backup job. All backup data are displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job.
 - c. You can enter keywords to search the items, or you can click the backup data to browse the items you want to restore.
- 3. Select a node, and then click **Export**.
- 4. An export job for Teams will start, and you can go to Job Monitor to view the job status and download the exported data.

Export Viva Engage Data

You can export folders and files from the Viva Engage site and export the Viva Engage messages. You can only find the Viva Engage messages through time-based restore wizard (drill down a backup job).

Before you begin

For detailed information on supported data types, refer to Restore Options for Different Object Types.

Procedure

Complete the steps below to export Viva Engage backup data:

- 1. Go to the **Restore > IBM Storage Protect for Cloud Backup**page, and then click the **Viva Engage** tile.
- 2. Select the items that you want to export. You can choose one of the following methods to find the data to export.
 - **Search mode** Define a Viva Engage community as the search scope and then use the properties to search for the items within the scope. Refer to the steps below:
 - a. In the **Name field**, enter or select a Viva Engage community. The default search condition is to search the backup data within the last backup cycle.
 - b. In the Backup Time Range field, the time range of the last backup cycle is displayed by default.
 Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click Reset if you want to reset the settings. Click OK to save your customization.
 - c. Select Viva Engage Community, Site Collection, Site, List/Library, App, Folder in SharePoint, Document, Plan, or Task from the Level list for the items you want to search. If you want to search for all objects at the level, you select from the selected Viva Engage Community. You can leave the search conditions empty.
 - d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
 - **Calendar mode** Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.
 - a. In the calendar, all backup jobs of Viva Engage are displayed. You can select whether to display the finished with an exception or failed jobs in the calendar by selecting the **Include jobs with only partial backup data** option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.

- b. Select a backup job. All backup data of Teams are displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job.
- c. You can enter keywords to search the items, or you can click the backup data to browse the items you want to restore.
- 3. Select a node, and then click **Export**.
- 4. An export job for Viva Engage will start, and you can go to Job Monitor to view the job status and download the exported data.

Export Power BI Data

You can export the backup data of the Power BI reports to a local location.

Procedure

Complete the steps below to export Power BI reports:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup**page, and then click the **Power BI** tile.
- 2. Select the items that you want to export. You can choose one of the following methods to find the data to export.
 - **Search mode** Define a Power BI workspace as the search scope and then use the properties to search for the items within the scope. Refer to the steps below:
 - a. In the **Name field**, enter or select a Power BI workspace. The default search condition is to search the backup data within the last backup cycle.
 - b. In the **Backup Time Range** field, the time range of the last backup cycle is displayed by default.

Click the Calendar (a) button to customize the backup time range. The start date must be earlier than the end date. You can click **Reset** if you want to reset the settings. Click **OK** to save your customization.

- c. Select **Workspace** or **Report** from the **Leve**l list for the items you want to search.
- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- **Calendar mode** Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.
 - a. In the calendar, all backup jobs of Power BI are displayed. You can select whether to display the finished with an exception or failed jobs in the calendar by selecting **the Include jobs with only partial backup data** option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b. Select a backup job. All backup data are displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job.
 - c. You can enter keywords to search the items, or you can click the backup data to browse the items you want to restore.
- 3. Select a node, and then click **Export**.
- 4. An export job for Power BI will start, and you can go to **Job monitor** to view the job status and download the exported data.

Export Power Automate Data

You can export the backup data of the Power Automate flows. After the export job is completed, you can download the exported data to a local location. The exported data can be used as a template for importing flows to Power Automate.

Procedure

Follow the steps below to export the backup data:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup**page, and then click the **Power Automate** tile.
- 2. Select the items that you want to export. You can choose one of the following methods to find the data to export.
 - Search mode Search for the Power Automate flows using the **Tenant** filter and the **Backup time** range filter, as well as the keywords in the properties of Flow. Refer to the steps below:
 - a. In the **Flow name** field, enter the keyword in the flow name that you want to search for. The default search condition is to search the backup data within the last backup cycle.
 - b. In the **Backup time range** field, the time range of the last backup cycle is displayed by default. Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click **Reset** if you want to reset the settings. Click **OK** to save your customization.
 - c. You can also use the **Created date**, **Creator**, **Owner**, **State**, and **Environment** as the search conditions.
 - d. Click **Search** to search the flows according to the conditions you configured. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search**to adjust the search results.
 - **Calendar mode** Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.
 - a. In the calendar, all backup jobs of Power Automate are displayed. You can select whether to display the finished with an exception or failed jobs in the calendar by selecting the **Include jobs with only partial backup data**option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b. Select a backup job. All backup data are displayed in the table. You can select the **Show data from this backup only**option (historical data from previous backups will be excluded) to only show the data backed up in the selected backup job.
 - c. You can enter keywords to search for the flows across tenants or in a specific tenant.
- 3. Select the flows, and then click **Export**.
- 4. An export job for Power Automate will start, and you can go to **Job monitor** to view the job status and download the exported data. You can use the exported files to import the flows back to your Power Platform.

Export Power Apps Data

You can export the backup data of the Power Apps Canvas apps and component libraries to a local location.

Before you begin

The exported component library can be imported to Power Apps via the same entry as the <u>Importing a</u> <u>canvas app package</u>. You must publish the imported component library to make it work. The component library will use a new ID after being imported, so the app which is connected with this component library before cannot be reconnected automatically. If you import an app that connects to a component library

before, and the component library still exists in Microsoft 365, the app and the component library can be reconnected automatically.

Procedure

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup**page, and then click the **Power Apps** tile.
- 2. Select the items that you want to export. You can choose one of the following methods to find the data to export.
 - Search mode Search for the Power Apps Canvas apps and component libraries using the **Tenant** filter and the **Backup time range** filter, as well as the keywords in the properties of Canvas apps and component libraries. Refer to the steps below:
 - a. In the **Name** field, enter the keyword in the name of the Canvas app or component library that you want to search for. The default search condition is to search the backup data within the last backup cycle.
 - b. In the Backup time range field, the time range of the last backup cycle is displayed by default.
 Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click Reset if you want to reset the settings. Click OK to save your customization.
 - c. Select **All**, **App** or **Component library** from the **Type** List for the items you want to search. The default type is all.
 - d. You can also use the **Created date**, **Owner/Co-owner**, **User**, and **Environment** as the search conditions.
 - e. Click **Search** to search the Canvas apps and component libraries according to the conditions you configured. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
 - **Calendar mode** Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.
 - a. In the calendar, all backup jobs of Power Apps are displayed. You can select whether to display the finished with an exception or failed jobs in the calendar by selecting the **Include jobs with only partial backup data**option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b. Select a backup job. All backup data are displayed in the table. You can select the **Show data from this backup only**option (historical data from previous backups will be excluded) to only show the data backed up in the selected backup job.
 - c. You can enter keywords to search for the Canvas apps and component libraries across tenants or in a specific tenant.
 - d. You can select **App** or **Component library** from the **Filters** list to only show the type you want. The default type is all.
- 3. Select the items you want to export, and then click **Export**.
- 4. An export job for Power Apps will start, and you can go to **Job monitor** to view the job status and download the exported data.

Download the Exported Data

In **Job Monitor** > **IBM Storage Protect for Cloud Backup**page, find the job record after the job is finished and click the **Download Content** option from the More Commands (...) list to save the exported data to your desired location.

If a job exported the data of multiple mailboxes/sites, a **Download Content** window will appear. You can download the exported file for each mailbox/site individually.

Note: If the exported data size of any mailbox or site is greater than **20 GB**, the exported data will also be split for downloading.

Get Password

You can get a password to extract downloaded content. Only the user who started the export job and the email recipients designated for the restore and export job can get the password through Job Monitor. The password will no longer be sent with the job notifications.

About this task

Note: If the recipients are added after the export job has started, the recipients will not have access to the password of this export job.

Procedure

Follow the steps below to get the password through Job Monitor:

- 1. Go to the **Job Monitor** > **IBM Storage Protect for Cloud Backup**page and select **Export** from the **Job Type** filter.
- 2. Find your export job, and then click the Get Password button on the right.
- 3. Click **Copy** to copy the password to your clipboard.
- 4. Use this password for extracting the downloaded content.

Chapter 20. Restore and Recover Your Data

IBM Storage Protect for Cloud Microsoft 365 helps you quickly restore and recover your data from Exchange Online, SharePoint Online, OneDrive, Microsoft 365 Groups, Teams, Project Online, and Public Folders and Viva Engage. You can restore the backup data to its original location or restore data to a different location. If you have BYOS subscription, you can restore backup data to a custom storage location. After you have started the restore job, you can use Job Monitor to monitor the job progress and download job report. You can also stop a running restore job as needed.

Note: If a top-level object (site collection, mailbox, or group/teams) has been deleted in Microsoft 365, you cannot restore the objects within the deleted top-level object individually. Instead, you must first restore their top-level nodes or manually create the top-level node in Microsoft 365 before you perform an in-place restore of the lower-level nodes.

If you want to restore items to another location, you may also need to map the domains, users, or languages to update the permissions and metadata in the restore destination. For detailed instructions, refer to Chapter 18, "Configure Mapping Settings," on page 93.

You can find the data you want to restore through the **Search mode** or the **Calendar mode**. For the granular restore, the **Search mode** is better. You can also use the **Search mode** if you know the specific properties of the data you are looking for or want to restore deleted objects. To roll back your Microsoft 365 data to a specific snapshot or find the data by browsing the file structure, the **Calendar mode** will be helpful.

The **Search mode** restore wizard for SharePoint Online service allows you to search across all the sites being protected by IBM Storage Protect for Cloud Microsoft 365 and the Exchange Online service **Search mode** restore wizard allows you to search across all the mailboxes being protected by IBM Storage Protect for Cloud Microsoft 365.

When restoring Exchange Online mailboxes in the Calendar mode, you can now select and add mailboxes to the **Restore queue**, and then restore them together in a single job.

For detailed instructions on using the Restore wizard in each service, refer to:

- "High Speed Migration (HSM) Restore Method" on page 109
- "Restore Exchange Online Data" on page 110
- "Restore SharePoint Online Data" on page 112
- "Restore OneDrive Data" on page 116
- <u>"Restore Microsoft 365 Groups Data" on page 120</u>
- "Restore Project Online Data" on page 124
- "Restore Public Folder Data" on page 127
- <u>"Restore Teams Data" on page 129</u>
- "Restore Viva Engage Data" on page 134

High Speed Migration (HSM) Restore Method

In recent updates, the setting for the IBM Storage Protect for Cloud Microsoft 365 restore job now includes the High-Speed Migration (HSM) restore method and is now enabled by default. This utilizes the Migration API as a new approach to enhance the speed of large-scale recoveries.

The HSM restore supports SharePoint Online, OneDrive, Project Online, Microsoft 365 Groups, Teams, and Viva Engage in both app profile authentication and service account authentication, and HSM restore jobs can support restoring content larger than 15 GB.

However, the Migration API is not available for users of Microsoft 365 operated by 21Vianet in China. It is also not available for users of Microsoft 365 with the German cloud using the data trustee, German Telekom, but it is supported for users in Germany whose data location is not in the German data center.

The data export jobs, the security-only restore, restoring sharing link permissions, and restoring to a storage location will not use the HSM restore method.

Refer to the following for the scenarios of HSM data recoveries:

• Select sites, subsites, document libraries, custom lists, or folders to restore.

Note: If your selection for restore contains files or items, HSM restore is not applicable; HSM restore does not support apps either.

• Restore destination must be a container in SharePoint Online site or user's OneDrive.

Note the following known issues:

- If an item with the same row ID exists in the destination's recycle bin, the HSM restore job to restore this item with **Overwrite** content conflict resolution will create this item in the destination with a different row ID.
- If you select multiple folders to restore and there are files using the same name, the HSM restore job to restore those folders with the action of **Merge** may fail because of the conflicts.
- The Device Channels lists are affected by HSM restore jobs. The default channel item cannot be updated.

Restore Exchange Online Data

With IBM Storage Protect for Cloud Microsoft 365, you can restore Exchange Online backup data to its original location in Exchange Online, to another location in Exchange Online, or to a separate, customerdefined storage location. Note that if the user account linked to the mailbox no longer exists in Microsoft 365, the mailbox cannot be restored.

About this task

IBM Storage Protect for Cloud Microsoft 365 can protect mailboxes that are placed on Litigation Hold but cannot keep the Litigation Hold configuration for the mailboxes since that configuration needs to be configured in Exchange Admin, which is out of reach of Exchange Online backup and restore.

Note: If you want to restore the backup data to a storage location, you must have your own storage location configured. The default storage provided by IBM Storage Protect for Cloud cannot be the destination of the restore.

Procedure

Complete the steps below to restore Exchange Online data:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup** page, and then click the **Exchange Online** tile.
- 2. Select the items that you want to restore. You can choose one of the following methods to find the data to restore.
 - **Search mode** Define a mailbox as the search scope and then use the properties to search for the items within the mailbox. Refer to the steps below:
 - a. In the **Name** field, enter or select a mailbox. The default search condition is to search the backup data of that mailbox within the last backup cycle.
 - b. In the **Backup Time Range** field, the time range of the last backup cycle is displayed by default.

Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click **Reset** if you want to reset the settings. Click **OK** to save your customization.

- c. Select Mailbox, Folder, or Mailbox Item from the Level list for the items you want to search. If you want to search for all folders or mailbox items within the selected mailbox, you can leave the search conditions empty. To search for specific folders, enter the folder name or the keywords in the Folder Name field; to search for the Mailbox Item level items, you can configure the following search conditions: Subject, Sent From, Sent To, and Date Sent.
- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The results include all backup items which meet the search conditions in Exchange Online mailboxes, Group mailboxes and Teams mailboxes. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- e. Find and select the item you want to restore from the search results. In the drop-down list under the **Recovery Point** column, select a backup job that backed up this item at the status that you want to restore. You can click **Restore** next to an item to restore that specific item, or you can click the Restore button above the search result table to restore all selected items.
- f. Go to step 3 to continue with the Restore settings.
- **Calendar mode** Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.
 - a. In the calendar, all backup jobs of Exchange Online are displayed. You can select whether to display the finished with an exception or failed jobs in the calendar by selecting the **Include jobs** with only partial backup data option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b. Select a backup job. All backup data of Exchange Online is displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job.
 - c. You can enter keywords to search the items, or you can click the backup data to browse the items you want to restore.
 - d. The following actions are provided for the restore:
 - You can select the items you want to restore, and then click the **Restore** button above the table to restore all selected items directly at the same time. Note that you can only select the items at the same level in this way. Then go to step 3 to continue with the Restore settings.
 - To restore mailboxes, you can select the mailboxes you want to restore, and then click the Queue for restore button above the table to add them for batch restore. After adding all

desired mailboxes to the queue, click the **Restore queue**(**b**) icon at the top of the page and restore the mailboxes in one restore job.

In the **Queue for restore** panel, administrators can click **Want to bulk import objects to the queue?** to import multiple mailboxes from CSV files.

Note: If you leave the recovery point, the restore queue will be cleared.

- 3. If necessary, you can enter your comments for this restore job in the **Description** text box.
- 4. Choose where to restore the backup data to.
 - Restore the data to its original location Restore the backup data to where the data are backed up.
 - **Restore the data to another location** Restore the backup data to another destination. You can enter keywords to search for the restore destination. The items that can be selected as the restore destination are listed under the **Search** box. Select a container as the destination and then select **Attach** or **Merge** as the restore action.
 - Attach will restore the backup data as child objects beneath the selected node. For example, if you want to restore a folder to another folder and select Attach, the restored folder will become the subfolder of the destination folder.
 - Merge will add the contents to the destination node. For example, if you want to restore a folder to another folder and select Merge, the subfolders and contents of the restored folder rather than itself will directly become the subfolders and contents of the destination folder.

- **Restore the data to your storage** Restore the backup data to your own storage location. This option is not available if you are using the default storage location provided by IBM.
- 5. Select how to handle the conflicts in the restore job.
 - Container level conflict resolution The mailbox and mailbox folders are the container level objects. Select a container level conflict resolution:
 - Skip The destination container settings will remain unchanged.
 - Merge The backup container settings and the content will be merged with the destination container.
 - Content level conflict resolution The mailbox items are the content level objects. Select a content level conflict resolution:
 - Append All of the mailbox items will be added to the destination container. This option has the best performance but may result in duplicate items if they already exist.
 - Skip The conflicting destination content will be retained in the destination, and the backup data
 of the conflicting content will not be restored.
 - Overwrite The conflicting destination content will be removed from the destination, and the backup data of the conflicting content will be restored.
- 6. The **Advanced settings** is available if you are using BYOS. Click to expand the **Advanced settings** area.
- 7. Select **Yes** or **No** for whether to allow restore jobs to rehydrate the data sets automatically, when the backup data is stored in the Azure archive storage tier. This field is only functional for the BYOS subscription type. For IBM Storage Protect for Cloud default storage, the restore job will automatically rehydrate data.

Note: To avoid long response times of the product, do not store the index database to the Azure archive storage tier.

- 8. Click Next to view the restore summary.
- 9. Click **Restore** to restore the selected items.

Restore SharePoint Online Data

With IBM Storage Protect for Cloud Microsoft 365, you can browse or search for SharePoint Online backup jobs or data to restore items to its original location in SharePoint Online, to another location in SharePoint Online, or to a separate, customer-defined storage location. Additionally, you can select the OneDrive for Business containers as the destination to restore the SharePoint Online backup data.

About this task

Note: If you want to restore the backup data to a storage location, you must have your own storage location configured. The default storage provided by IBM Storage Protect for Cloud cannot be the destination of the restore. Additionally, the SharePoint Online site collections, sites, and apps do not support being restored to a custom storage location.

Procedure

Complete the steps below to restore SharePoint Online data:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup** page, and then click the **SharePoint Online** tile.
- 2. Select the items that you want to restore. You can choose one of the following methods to find the data to restore.
 - **Search mode** Define a SharePoint Online site collection as the search scope and then use the properties to search for the items within the scope. Note that this method does not support searching and restoring the list items.

Refer to the steps below:

- a. In the **URL** field, enter the keywords in the URL or select a SharePoint Online site collection URL. The default search condition is to search the backup data of that site collection within the last backup cycle. The drop-down list will remind you of SharePoint sites with unusual activities or under potential ransomware attacks.
- b. In the **Backup time range** field, the time range of the last backup cycle is displayed by default.

Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click **Reset** if you want to reset the settings. Click **OK** to save your customization.

- c. Select **Site Collection**, **Site**, **List/Library**, **App**, **Folder**, or **Document** from the **Level** list for the items you want to search. If you want to search for all sites, lists or libraries, apps, folders, or documents in the selected site collection, you can leave the search conditions empty. To search for specific sites, lists/libraries, apps, or folders, enter the title or name or the keywords for search; to search for specific documents, you can configure the following search conditions: **Document Name**, **Created Date**, **Created By**, **Modified By**, or **Document Size**.
- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The results include all backup items which meet the search conditions in SharePoint Online sites, Project Online sites, Viva Engage sites, Group sites and Teams sites. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- e. Find and select the item you want to restore from the search results. In the drop-down list under the **Recovery Point** column, select a backup job that backed up this item at the status that you want to restore. Recovery points with objects with unusual activities detected or potential ransomware attack detected will be displayed with 4 (**Unusual activities detected**) or

(Potential ransomware attack detected). Click the Restore button above the search result table to restore all selected items. You can click Restore next to an item to restore that specific item, or you can click the Restore button above the search result table to restore all selected items.

- f. Go to step 3 to continue with the Restore settings.
- **Calendar mode** Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.
 - a. In the calendar, all backup jobs of SharePoint Online are displayed. You can select whether to display the jobs that finished with an exception or failed jobs in the calendar by selecting the **Include jobs with only partial backup data** option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b. Select a backup job. All backup data of SharePoint Online is displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job. Recovery points with objects with unusual activities detected or potential ransomware attack detected will be displayed with 4 (**Unusual activities detected**) or 4 (**Potential ransomware attack detected**).
 - c. You can enter keywords to search the items, or you can click the backup data to browse the items you want to restore.
 - d. Click **Restore** next to an item to restore the specific item or select the items you want to restore and then click the Restore button above the table to restore all selected items.

Note: If you want to select multiple items to restore at the same time, you can only select the items at the same level.

- e. Go to step 3 to continue with the Restore settings.
- 3. If necessary, you can enter your comments for this restore job in the **Description** text box. For objects with unusual activities or under ransomware attacks, you can click the **Potential**

ransomware attack detected or **Unusual activities detected** in the **Suggested** field below to enter it in the **Description** text box directly.

- 4. Select what you would like to restore for the selected items. You can choose to restore all of the content and security from the backup, or you can choose to only restore the security or content.
 - The security includes all the user permissions at the selected level and beneath. The restoresecurity-only restore job cannot add or delete any users in the target site collection.
 - The restore-content-only restore job will skip the conflicting documents/items or restore the documents/items with a suffix "_1" added, depending on which conflict resolution you choose at the content level.
- 5. Choose where to restore the backup data to. Note that the SharePoint Online site collections, sites, and apps only support being restored to the original location or restored to another location.
 - **Restore the data to its original location** Restore the backup data to where the data are backed up.
 - **Restore the data to another location** Restore the backup data to another destination. Configure the following settings:
 - Select a destination object type Select to restore the backup data to SharePoint Online, OneDrive, Microsoft 365 Groups, or Teams. You can enter keywords to search for the restore destination. The items that can be selected as the restore destination are listed under the Search box.

Note: If you choose to restore to OneDrive, only the **Documents** library, **Site Assets** library, and the custom libraries will be displayed in the destination tree. You can click **Show All Libraries** to display all lists and libraries.

On the destination tree, click a node to load the nodes under it and click the Previous button to navigate back to the previous node. Select a node where you want to restore the backup data.

- Action Select how the backup data will be restored to the destination. Select Attach to restore the contents as children beneath the selected node, or select Merge to add the contents to the destination node. For example, you want to restore a site to another site. If you select Attach, the restored site will become the subsite of the destination site; if you select Merge, the subsites and contents of the restored site rather than itself will directly become the subsites and contents of the destination site.
- **Restore the data to your storage** Restore the backup data to your own storage location configured. This option is not available if the default storage location is used.

Note: The SharePoint Online site collections, sites, and apps do not support being restored to a custom storage location.

- 6. Select how to handle the conflicts in the restore job. The conflict occurs if a folder or file in the destination has the same name, or the item in the destination has the same GUID.
 - Container level conflict resolution Select how to handle the conflicts at the container level.
 - Skip The settings of the conflicting destination container will be retained in the destination.
 - Merge The source container settings and the content will be merged to the conflicting destination container.
 - Replace The settings of the conflicting destination container will be deleted and replaced by the source container settings, as well as the content within the container.
 - Content level conflict resolution Select how to handle the conflicts at the content level.

Note: This is not available if **Replace** is selected as the container level conflict resolution. If you select to restore content only, only the **Skip** and the **Append an "_1" to the Item/Document** are available.

 Skip – The conflicting destination content will be retained in the destination, and the backup data of the conflicting content will not be restored.

- **Overwrite** The conflicting destination content will be removed from the destination, and the backup data of the conflicting content will be restored.
- Overwrite by Last Modified Time If the last modified time of the conflicting destination content is earlier than that of the source content, the conflicting destination content will be removed from the destination, and the backup data of the conflicting content will be restored.
- Append an "_1" to the Item/Document If the last modified time of the conflicting destination content is the same, the restore will be skipped; if the last modified time is different, the conflicting destination content will be kept, and the backup data of the conflicting content will be added to the destination with a sequential number suffix added to the filename.

Note: If you want to restore a single file version without affecting other versions, set the content level conflict resolution to **Append an "_1" to the Item/Document**. If the content level conflict resolution is set to **Overwrite**, the restore job will remove all the versions of this file from the destination and keep this file version as the latest and only version of the file.

- Apps conflict resolution Select how to handle the apps conflict.
 - **Skip** The conflicting destination app and AppData will be retained in the destination, and the backup data of the conflicting content will not be restored.
 - Overwrite The conflicting destination app and AppData will be removed from the destination, and the backup data of the conflicting content will be restored.

Note: If you choose to only restore security, you must select how to handle the security conflicts at the container level and content level. **Replace** will overwrite the security in the destination; **Merge** will combine the security in the backup with the security in the destination.

- 7. Expand the **Advanced settings** area to configure more restore settings. If you choose to restore to another location, the mapping settings will be available to allows you to update the permissions and metadata or language.
- 8. **User mapping** Select a user mapping profile from the drop-down list. For more instructions on creating a new user mapping profile, refer to Chapter 18, "Configure Mapping Settings," on page 93.
- 9. **Language mapping** Select a language mapping profile from the drop-down list. For more instructions on creating a new language mapping profile, refer to <u>Chapter 18</u>, "Configure Mapping Settings," on page 93
- 10. Choose how you would like to restore the version history if file versions are backed up by IBM Storage Protect for Cloud. You can select **Restore the latest version only**, or you can select the **Restore the current and previous versions** option and enter the maximum number of versions you want to restore in the box. IBM Storage Protect for Cloud Microsoft 365 can restore up to **20** versions for one document. For the best performance and simplest experience, IBM Storage Protect for Cloud recommends restoring only the latest version.

Note the following:

- By default, history versions of items and files are not backed up due to the regular recovery points created by backup jobs, as well as Microsoft 365 API overhead and limitations related to versions. In our experience, most user and legal requests are only for the most recent active version. In addition, we will capture multiple roll-back points during our daily backups to ensure you have a change history for this document outside native versioning. If you need to back up the versions for some reason and are willing to accept the performance impact, please contact IBM support to have it enabled. The backup job will include the most recent 10 versions by default.
- If you want to restore earlier versions of a document, you can run an export job to export all versions of that document from the backup data.
- This restore setting is not available when selecting documents or restoring security only.
- 11. Select how you would like to restore the Managed Metadata Service.
 - If the containers or content you select to restore is under the site collection level, the **Restore** terms in site store only option and the **Restore terms in both global term store and site term** store option will only restore the terms and their parent terms associated directly with the data

from the site store or both. Note that if the data is not restored due to the conflict resolutions you choose, the restored terms cannot be connected to the data either.

- If you select at least the site collection level object to perform the restore, the **Restore terms in site store only** option will restore all the deleted terms in the site store and the **Restore terms in both global term store and site term store** option will restore all the deleted terms in both the global term store and site term store.
- If you select to Use existing terms only, no terms will be restored.
- If you want to perform a term store-only restore, refer to the FAQ: How do I perform term storeonly restore?
- 12. Select if you would like to restore the sharing permissions. This feature only works for the sharing of items to specific people inside or outside your organization. For external users, the restore job can only restore the permissions for the users who have accessed the sharing link. After the restore, the sharing links will be changed, and OneDrive users can go to OneDrive > **Shared** library to view the content shared with you and shared by you. The links generated by the **Copy link** function in Microsoft 365 are also regarded as sharing links.

Note: The Sharing setting is a tenant-level setting, and IBM Storage Protect for Cloud Microsoft 365 does not protect tenant settings. The restore job to restore a deleted site cannot restore the Sharing settings, including the external users and their permissions.

Note: This restore setting is not available when restoring content only.

13. Select **Yes** or **No** for whether to allow restore jobs to rehydrate the data sets automatically, when the backup data is stored in the Azure archive storage tier. This field is only functional for the BYOS subscription type. For IBM Storage Protect for Cloud default storage, the restore job will automatically rehydrate data.

Note: IBM Storage Protect for Cloud recommends not storing the index database to the Azure archive storage tier.

- 14. Select **Yes** or **No** for whether to restore the subsites. This option is only available when you select site collections or sites to restore.
- 15. Select **Yes** or **No** for whether to restore the hub site connection. This option is only available when you select site collection to restore.

Note: IBM Storage Protect for Cloud Microsoft 365 cannot restore the hub site connection, if it is a cross-tenant restore or the destination hub site requires approval for the associated site to join.

- 16. Click **Next** to view the restore summary.
- 17. Click **Restore** to restore the selected items. After the job has started, you can go to the **Job Monitor** to view more job details. For details, refer to Chapter 25, "Job Monitor," on page 153.

Restore OneDrive Data

You can browse or search for OneDrive backup jobs or data to its original location in OneDrive, to another location in OneDrive, or to a separate, customer-defined storage location. Besides, you can select the SharePoint Online containers as the destination to restore the OneDrive backup data. Note that if the associated OneDrive user account no longer exists in Microsoft 365, the OneDrive cannot be restored.

About this task

Note: If you want to restore the backup data to a storage location, you must have your own storage location configured. The default storage provided by IBM Storage Protect for Cloud cannot be the destination of the restore. Additionally, the OneDrive site collections and sites do not support being restored to a custom storage location.

Procedure

Complete the steps below to restore OneDrive data:

1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup** page, and then click **OneDrive** tile.

- 2. Select the items that you want to restore. You can choose one of the following methods to find the data to restore.
 - **Search mode** Define a OneDrive address as the search scope and then use the properties to search for the items within the scope. Note that this method does not support searching and restoring the list items.

Refer to the steps below:

- a. In the **Name** field, enter or select a OneDrive address. The default search condition is to search the backup data for that OneDrive address within the last backup cycle. The drop-down list will remind you of OneDrive accounts with unusual activities or under potential ransomware attacks.
- b. In the **Backup time range** field, the time range of the last backup cycle is displayed by default.

Click the Calendar (=) button to customize the backup time range. The start date must be earlier than the end date. You can click **Reset** if you want to reset the settings. Click **OK** to save your customization.

- c. Select **OneDrive User, Library, Folder**, or **Document** from the **Level** list for the items you want to search. If you want to search for all libraries, folders, or the documents of that OneDrive user, you can leave the search conditions empty. To search for specific libraries or folders, enter the title or name or the keywords for search; to search for the specific **Document**-level items, you can can choose whether to search for **Suspicious files** under potential ransomware attacks or **Files deleted in unusual activities** in **File type** and configure the following search conditions: **Document Name, Created Date, Created By, Modified By**, or **Document Size**.
- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- e. Find and select the item you want to restore from the search results. In the drop-down list under the **Recovery Point** column, select a backup job that backed up this item at the status that you want to restore. Recovery points with objects with unusual activities detected or potential ransomware attack detected will be displayed with 4 (**Unusual activities detected**) or

(Potential ransomware attack detected). Click the Restore button above the search result table to restore all of the selected items.

- f. Go to step 3 to continue with the Restore settings.
- **Calendar mode** Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.
 - a. In the calendar, all backup jobs of OneDrive are displayed. You can select whether to display the finished with an exception or failed jobs in the calendar by selecting the **Include jobs with only partial backup data** option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b. Select a backup job. All backup data for OneDrive is displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job. Recovery points with objects with unusual activities detected or potential ransomware attack detected will be displayed with 4 (Unusual activities detected) or 4 (Potential ransomware attack detected).
 - c. You can enter keywords to search the items, or you can click the backup data to browse the items you want to restore.
 - d. Click **Restore** next to an item to restore the specific item or select the items you want to restore and then click the **Restore** button above the table to restore all selected items.

Note: If you want to select multiple items to restore at the same time, you can only select the items at the same level.

- e. Go to step 3 to continue with the Restore settings.
- 3. If necessary, you can enter your comments for this restore job in the **Description** text box. For objects with unusual activities or under ransomware attacks, you can click the **Potential**

ransomware attack detected or **Unusual activities detected** in the **Suggested** field below to enter it in the **Description** text box directly.

- 4. Select what you would like to restore for the selected items. You can choose to restore all of the content and security from the backup, or you can choose to only restore the security or content.
 - The security includes all the user permissions at the selected level and beneath. The restoresecurity-only restore job cannot add or delete any users in the target site collection.
 - The restore-content-only restore job will skip the conflicting documents/items or restoring the documents/items with a suffix "_1" added, depending on which conflict resolution you choose at the content level.
- 5. Choose where to restore the backup data to. Note that the OneDrive site collections and sites can be restored only to the original OneDrive location or another location in OneDrive.
 - **Restore the data to its original location** Restore the backup data to where the data are backed up.
 - **Restore the data to another location** Restore the backup data to another destination. Configure the following settings:
 - Select a destination object type Select to restore the backup data to SharePoint Online, OneDrive, Microsoft 365 Groups, or Teams. You can enter keywords to search for the restore destination. The items that can be selected as the restore destination are listed under the Search box.

Note: If you choose to restore to OneDrive, only the **Documents** library, **Site Assets** library, and the custom libraries will be displayed in the destination tree. You can click **Show All Libraries** to display all lists and libraries.

On the destination tree, click a node to load the nodes under it and click the Previous button to navigate back to the previous node. Select a node where you want to restore the backup data.

- Action Select how the backup data will be restored to the destination. Select Attach to restore the contents as children beneath the selected node, or select Merge to add the contents to the destination node. For example, you want to restore a folder to another folder. If you select Attach, the restored folder will become the subfolder of the destination folder; if you select Merge, the subfolders and contents of the restored folder rather than itself will directly become the subfolders and contents of the destination folder.
- **Restore the data to your storage** Restore the backup data to your own storage location configured. This option is not available if the default storage location is used.

Note: The OneDrive site collections and sites do not support being restored to custom storage.

- 6. Select how to handle the conflicts in the restore job. The conflict occurs if a folder or file in the destination has the same name, or the item in the destination has the same GUID.
 - Container level conflict resolution Select how to handle the conflicts at the container level.
 - Skip The settings of the conflicting destination container will be retained in the destination.
 - Merge The source container settings and the content will be merged to the conflicting destination container.
 - Replace The settings of the conflicting destination container will be deleted and replaced by the source container settings, as well as the content within the container.
 - Content level conflict resolution Select how to handle the conflicts at the content level.

Note: This is not available if **Replace** is selected as the container level conflict resolution. If you select to restore content only, only the **Skip** and the **Append an "_1" to the Item/Document** are available.

- Skip The conflicting destination content will be retained in the destination, and the backup data of the conflicting content will not be restored.
- Overwrite The conflicting destination content will be removed from the destination, and the backup data of the conflicting content will be restored.

- Overwrite by Last Modified Time If the last modified time of the conflicting destination content is earlier than that of the source content, the conflicting destination content will be removed from the destination, and the backup data of the conflicting content will be restored.
- Append an "_1" to the Item/Document If the last modified time of the conflicting destination content is the same, the restore will be skipped; if the last modified time is different, the conflicting destination content will be kept, and the backup data of the conflicting content will be added to the destination with a sequential number suffix added to the filename.
- Apps conflict resolution Select how to handle the app's conflict.
- Skip The conflicting destination app and AppData will be retained in the destination, and the backup data of the conflicting content will not be restored.
 - Overwrite The conflicting destination app and AppData will be removed from the destination, and the backup data of the conflicting content will be restored.

Note: If you choose to only restore security, you must select how to handle the security conflicts at the container level and content level. **Replace** will overwrite the security in the destination; **Merge** will combine the security in the backup with the security in the destination.

- 7. Expand the **Advanced settings** area to configure more restore settings. If you choose to restore to another location, the mapping settings will be available to allows you to update the permissions and metadata or language.
- 8. **User mapping** Select a user mapping profile from the drop-down list. For more instructions on creating a new user mapping profile, refer to Chapter 18, "Configure Mapping Settings," on page 93.
- 9. Language mapping Select a language mapping profile from the drop-down list. For more instructions on creating a new language mapping profile, refer to <u>Chapter 18</u>, "Configure Mapping Settings," on page 93
- 10. Select if you would like to restore the sharing permissions by turning on or off the **Restore the sharing link permissions** switch. The **Restore the sharing link permissions** field will be unavailable if the OneDrive backup cycle of the selected recovery point was started after the November 2022 release. In this case, the restore job will restore the sharing permissions by default and the restore will not trigger the email alert. Note that if you do not want to restore the sharing permissions, you can choose to restore content only.

Note the following:

This feature only works for the sharing of items with specific people inside or outside your organization. For external users, the restore job can only restore the permissions for the users who have accessed the sharing link. After the restore, the sharing links will be changed, and OneDrive users can go to OneDrive > **Shared** library to view the content shared with you and shared by you. The links generated by the **Copy link** function in Microsoft 365 are also regarded as sharing links.

The Sharing setting is a tenant-level setting, and the IBM Storage Protect for Cloud service does not protect tenant settings. The restore job to restore a deleted site cannot restore the Sharing settings, including the external users and their permissions.

When restoring the files to another destination, the restored permissions and sharing links will be changed if the user in the original location is not included in the sharing scope in the destination.

11. Select **Yes** or **No** for whether to allow restore jobs to rehydrate the data sets automatically, when the backup data is stored in the Azure archive storage tier. This field is only functional for the BYOS subscription type. For IBM Storage Protect for Cloud default storage, the restore job will automatically rehydrate data.

Note: IBM Storage Protect for Cloud recommends not storing the index database to the Azure archive storage tier.

- 12. Click **Next** to view the restore summary.
- 13. Click **Restore** to restore the selected items. After the job has started, you can go to the **Job Monitor** to view more job details. For details, refer to Chapter 25, "Job Monitor," on page 153.

Restore Microsoft 365 Groups Data

IBM Storage Protect for Cloud Microsoft 365 Groups now provides a new option allowing to restore a soft delete Microsoft 365 group from the Microsoft 365 recycle bin to its last known good state.IBM Storage Protect for Cloud will perform a check for the group status in Microsoft 365 to ensure Microsoft has this data and clearly present the options for you to decide the best way to recover data: using Microsoft native restore function within that 30-day retention period or using IBM Storage Protect for Cloud backup data to roll back the entire group or granular contents.

About this task

Note: The check will only happen when you select the group as both the restore scope and the search level.

IBM Storage Protect for Cloud Microsoft 365 Groups now provides a new option allowing to restore a soft-deleted Microsoft 365 group from the Microsoft 365 recycle bin to its last known good state.

The IBM Storage Protect for Cloud Microsoft 365 Groups service supports restoring the group, group team site, group mailbox, and planner data to another location. You can also restore the files in a Group site to another Group site. For more information on the supported restore types for Microsoft 365 Groups objects, refer to <u>Restore Options for Different Object Types</u>. For the supported data types of Microsoft 365 Groups, refer to <u>"Microsoft 365 Groups Data Types" on page 230</u>. If you want to restore the backup data to a storage location, you must have your own storage location configured. The default storage provided by IBM Storage Protect for Cloud cannot be the destination of the restore. Additionally, only the Microsoft 365 Group lists or libraries, folders, items, or documents support being restored to a storage location.

Procedure

Complete the steps below to restore the Microsoft 365 Groups data:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup** page, and then click the **Microsoft 365 Groups** tile.
- 2. Select the items that you want to restore. You can choose one of the following methods to find the data to restore.
 - Search mode Select a restore object scope and search for the data to restore. Follow steps 3 to 4.
 - **Calendar mode** Select a recovery point (backup job) and select data from that backup to restore. Go to step 5.
- 3. Define a Microsoft 365 Group as the search scope. You can enter the Group's name or email address to search, and then select the Microsoft 365 Group from the **Name** list. The default search condition is to search the backup data for the Microsoft 365 Group within the last backup cycle. The drop-down list will remind you of groups with unusual activities or under potential ransomware attacks.
- 4. You can choose to use the properties on the same page to search for the contents within this group for granular data roll-back, or you can directly go to the next step to search and select the data to restore.

Note: If the group you want to restore has been deleted from Microsoft 365, you can let IBM Storage Protect for Cloud Microsoft 365 check if the group is still in soft-deleted status in the Microsoft 365 recycle bin to help you decide the best way to restore. In this case, select that group and directly click **Search**.

If the group is still in the soft-deleted status in Microsoft 365, you can choose the following methods.

• If you choose to restore the entire scope from Microsoft 365, click **Next** and then select a recovery point. Click **OK** to start the restore job. You can go to the Microsoft 365 environment to monitor and verify the progress.

Note: If you only want to restore the scope from the recycle bin for the last known status, select this option to help enhance job performance and data integrity.

• If you choose to restore the selected scope or just content within this scope from backup data, click **Next**, and you can configure search settings to search for the granular contents.

For the details of using the properties on the first page or the **Search** feature on the **Select and restore the data** step, refer to the following:

- a. In the **Name** field, you can enter or select another Microsoft 365 Group to change the search scope.
- b. In the Backup time range field, the time range of the last backup cycle is displayed by default.
 Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click **Reset** if you want to reset the settings. Click **OK** to save your customization.
- c. Select Microsoft 365 Group, Group Mailbox, Folder in Mailbox, Mailbox Item, Group Team Site, Site, List/Library, App, Folder in SharePoint, Document, Plan, or Task from the Level list for the items you want to search. If you want to search for all objects at the level you select from the selected Microsoft 365 Group, you can leave the search conditions empty.
- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- e. Find and select the item you want to restore from the search results. In the drop-down list under the **Recovery point** column, select a backup job that backed up this item at the status that you want to restore. Recovery points with objects with unusual activities detected or potential ransomware attack detected will be displayed with 4 (**Unusual activities detected**)

or **A** (**Potential ransomware attack detected**). You can click **Restore** next to an item to restore that specific item, or you can click the Restore button above the search result table to restore all selected items.

- f. Go to step 6 to continue with the Restore settings.
- 5. Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.
 - a) In the calendar, all backup jobs of Microsoft 365 Groups are displayed. You can select whether to display the finished with an exception or failed jobs in the calendar by selecting the **Include jobs** with only partial backup data option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b) Select a backup job. All backup data of Microsoft 365 Groups is displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job. Recovery points with objects with unusual activities detected or potential ransomware attack detected will be displayed with 4 (**Unusual activities detected**) or 4 (**Potential ransomware attack detected**).
 - c) You can enter keywords to search the items, or you can click the backup data to browse the items you want to restore.
 - d) Select the items you want to restore, and then click the **Restore** button above the table to restore all of the selected items.

Note: If you want to select multiple items to restore at the same time, you can only select the items at the same level.

- e) Continue to step 6 to configure the Restore settings.
- 6. If necessary, you can enter a description for this restore job in the **Description** text box. For objects with unusual activities or under ransomware attacks, you can click the **Potential ransomware attack detected** or **Unusual activities detected**in the **Suggested** field below to enter it in the **Description** text box directly.
- 7. If you have selected items from a Microsoft 365 team site to restore, you can select what you would like to restore for the selected items. You can choose to restore all content and security from the backup, or you can choose to only restore the security. The security includes all the user permissions

at the selected level and beneath. The restore-security-only restore job cannot add or delete any users in the target site collection.

- 8. Choose where to restore the backup data.
 - Restore the data to its original location Restore the backup data to where the data is backed up.
 - **Restore the data to another location** Restore the backup data to another destination. Configure the following settings:
 - Select a restore destination Select a container as the restore destination. You can enter keywords to search for the restore destination. The items that can be selected as the restore destination are listed under the Searchbox.
 - Action Select how the backup data will be restored to the destination. Select Attach to restore
 the contents as children beneath the selected node, or select Merge to add the contents to the
 destination node. For example, you want to restore a site to another site. If you select Attach,
 the restored site will become the subsite of the destination site; if you select Merge, the subsites
 and contents of the restored site rather than itself will directly become the subsites and contents
 of the destination site.
 - **Restore the data to your storage** Restore the backup data to your own storage location. This option is not available if the default storage location is used.

Note: Only the Microsoft 365 Group lists or libraries, folders in SharePoint, items, or documents support being restored to a storage location.

- 9. Select how to handle the conflicts in the restore job. The available options of conflict resolution will vary for the items you select to restore.
 - Container level conflict resolution Select how to handle the conflicts at the container level.
 - Skip The settings of the conflicting destination container will be retained in the destination.
 - Merge The source container settings and the content will be merged to the conflicting destination container.
 - **Replace** The settings of the conflicting destination container will be deleted and replaced by the source container settings, as well as the content within the container.
 - Content level conflict resolution Select how to handle the conflicts at the content level.

Note: This is not available if **Replace** is selected as the container level conflict resolution.

- **Skip** The conflicting destination content will be retained in the destination, and the backup data of the conflicting content will not be restored.
- Overwrite The conflicting destination content will be removed from the destination, and the backup data of the conflicting content will be restored.
- Overwrite by Last Modified Time If the last modified time of the conflicting destination content is earlier than that of the source content, the conflicting destination content will be removed from the destination, and the backup data of the conflicting content will be restored.
- Append an "_1" to the Item/Document If the last modified time of the conflicting destination content is the same, the restore will be skipped; if the last modified time is different, the conflicting destination content will be kept, and the backup data of the conflicting content will be added to the destination with a sequential number suffix added to the filename.

Note: If you want to restore a single file version without affecting other versions, set the content level conflict resolution to **Append an "_1" to the Item/Document**. If the content level conflict resolution is set to **Overwrite**, the restore job will remove all the versions of this file from the destination and keep this file version as the latest and only version of the file.

- 10. Expand the **Advanced settings** area to configure more restore settings. If you choose to restore to another location, the mapping settings will be available to allows you to update the permissions and metadata or language.
- 11. **User mapping** Select a user mapping profile from the drop-down list. For more instructions on creating a new user mapping profile, refer to Chapter 18, "Configure Mapping Settings," on page 93.

- 12. Language mapping Select a language mapping profile from the drop-down list. For more instructions on creating a new language mapping profile, refer to <u>Chapter 18</u>, "Configure Mapping Settings," on page 93
- 13. Choose how you would like to restore the version history if file versions are backed up by IBM Storage Protect for Cloud. You can select **Restore the latest version only**, or you can select the **Restore the current and previous versions** option and enter the maximum number of versions you want to restore in the box. IBM Storage Protect for Cloud can restore up to **20** versions of one document. For the best performance and simplest experience, IBM recommends restoring only the latest version

Note the following:

- By default, history versions of items and files are not backed up due to the regular recovery points created by backup jobs, as well as Microsoft 365 API overhead and limitations related to versions. In our experience, most user and legal requests are only for the most recent active version. In addition, we will capture multiple roll-back points during our daily backups to ensure you have a change history for this document outside native versioning. If you need to back up the versions for some reason and are willing to accept the performance impact, please contact IBM support to have it enabled. The backup job will include the most recent 10 versions by default.
- If you want to restore earlier versions of a document, you can run an export job to export all versions of that document from the backup data.

14. Select how you would like to restore the Managed Metadata Service.

- If the containers or content you select to restore is under the site collection level, the **Restore terms in site store only** option and the **Restore terms in both global term store and site term store** option will only restore the terms and their parent terms associated directly with the data from the site store or both. Note that if the data is not restored due to the conflict resolutions you choose, the restored terms cannot be connected to the data either.
- If you select at least the site collection level object to perform the restore, the **Restore terms in** site store only option will restore all the deleted terms in the site store and the **Restore terms in** both global term store and site term store option will restore all the deleted terms in both the global term store and site term store.
- If you select to Use existing terms only, no terms will be restored.
- If you want to perform a term store-only restore, refer to the FAQ:<u>"How do I restore term store-only</u> data?" on page 28 .

Note that if you perform the restore from the Legacy UI, all the terms in the global term store and the site term store are restored by default.

15. Select if you would like to restore the sharing permissions. This feature only works for the sharing of items to specific people inside or outside your organization. For external users, the restore job can only restore the permissions for the users who have accessed the sharing link. After the restore, the sharing links will be changed, and OneDrive users can go to OneDrive > **Shared** library to view the content shared with you and shared by you. The links generated by the **Copy link** function in Microsoft 365 are also regarded as sharing links.

Note: The Sharing setting is a tenant-level setting, and IBM Storage Protect for Cloud Microsoft 365 does not protect tenant settings. The restore job to restore a deleted site cannot restore the Sharing settings, including the external users and their permissions.

- 16. Select **Yes** or **No** for whether to allow restore jobs to rehydrate the data sets automatically when the backup data is stored in the Azure archive storage tier. This field is only functional for the BYOS subscription type. For IBM Storage Protect for Cloud default storage, the restore job will automatically rehydrate data.
- 17. Select **Yes** or **No** for whether to restore the hub site connection. This option is only available when you select the Group or Group team site to restore.

Note: IBM Storage Protect for Cloud Microsoft 365 cannot restore the hub site connection for the selected site, if it is a cross-tenant restore or the destination hub site requires approval for the associated sites to join.

18. Click **Next** to view the restore summary.

19. Click **Restore** to restore the selected items. After the job has started, you can go to the **Job Monitor** to view more job details. For details, refer to Chapter 25, "Job Monitor," on page 153.

Restore Project Online Data

With IBM Storage Protect for Cloud Microsoft 365, you can browse or search for Project Online backup jobs or data to restore items to their original location in Project Online, to a new location in Project Online, or to a separate, customer-defined storage location. Currently, you can only select the Project Online containers as the destination to restore the Project Online backup data.

About this task

For details on the supported restore options of Project Online, refer to <u>Restore Options for Different</u> Object Types and "Project Online Data Types" on page 201.

Note: If you want to restore the backup data to a storage location, you must have your own storage location configured. The default storage provided by IBM Storage Protect for Cloud cannot be the destination of the restore.

Procedure

Complete the steps below to restore Project Online data:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup** page, and then click the **Project Online** tile.
- 2. Select the items that you want to restore. You can choose one of the following methods to find the data to restore.
 - **Search mode** Define a Project Online site collection as the search scope and then use the properties to search for the items within the scope. Note that this method does not support searching and restoring the list items.

Refer to the steps below:

- a. In the **URL** field, enter or select a Project Online site collection URL. The default search condition is to search the backup data of that site collection within the last backup cycle.
- b. In the Backup Time Range field, the time range of the last backup cycle is displayed by default.
 Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click Reset if you want to reset the settings. Click OK to save your customization.
- c. Select **Site Collection, Site, List/Library, Project, App, Folder**, or **Document** from the **Level** list for the items you want to search. If you want to search for all sites, lists or libraries, projects, folders, or documents in the selected site collection, you can leave the search conditions empty. To search for specific sites, lists/libraries, projects, or folders, enter the title or name or the keywords for search; to search for specific documents, you can configure the following search conditions: **Document Name, Created Date, Created By, Modified By**, or **Document Size**.
- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- e. Find and select the item you want to restore from the search results. In the drop-down list under the **Recovery Point** column, select a backup job that backed up this item at the status that you want to restore. You can click **Restore** next to an item to restore that specific item, or you can click the Restore button above the search result table to restore all selected items.
- f. Continue to step 3 to configure the Restore settings.
- **Calendar mode** Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.

- a. In the calendar, all Project Online backup jobs are displayed. You can select whether to display the jobs that finished with an exception or failed jobs in the calendar by selecting the **Include jobs with only partial backup data** option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
- b. Select a backup job. All backup data of Project Online is displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job.
- c. You can enter keywords to search the items, or you can click the backup data to browse the items you want to restore.
- d. Click the **Restore** button above the table to restore all selected items.

Note: If you want to select multiple items to restore at the same time, you can only select the items at the same level.

- e. Continue to step 3 to configure the Restore settings.
- 3. If necessary, you can enter a description for this restore job in the **Description** text box.
- 4. Select what you would like to restore for the selected items. You can choose to restore all of the content and security from the backup, or you can choose to only restore the security. The security includes all the user permissions at the selected level and beneath. The restore-security-only restore job cannot add or delete any users in the target site collection.
- 5. Choose where to restore the backup data. Note that the Project Online site collections, sites, projects, and apps only support being restored to the original location in Project Online or another location in Project Online.
 - **Restore the data to its original location** Restore the backup data to where the data are backed up.
 - **Restore the data to another location** Restore the backup data to another destination. Configure the following settings:
 - Select a destination object type Select a container as the restore destination. You can enter keywords to search for the restore destination. The items that can be selected as the restore destination are listed under the Search box.

If you select sites, lists, libraries, projects, folders, documents, or apps to restore, you can click a node on the destination tree to load the nodes under it and click the Previous button to navigate back to the previous node. Select a node where you want to restore the backup data.

- Action Select how the backup data will be restored to the destination. Select Attach to restore the contents as children beneath the selected node, or select Merge to add the contents to the destination node. For example, you want to restore a site to another site. If you select Attach, the restored site will become the subsite of the destination site; if you select Merge, the subsites and contents of the restored site rather than itself will directly become the subsites and contents of the destination site.
- **Restore the data to your storage** Restore the backup data to your own storage location configured. This option is not available if the default storage location is used.

Note: The Project Online site collections, sites, projects, and apps do not support being restored to a custom storage location.

- 6. Select how to handle the conflicts in the restore job.
 - Container level conflict resolution Select how to handle the conflicts at the container level.
 - **Skip** The settings of the conflicting destination container will be retained in the destination.
 - Merge The source container settings and the content will be merged to the conflicting destination container.
 - **Replace** The settings of the conflicting destination container will be deleted and replaced by the source container settings, as well as, the content within the container.
 - Content level conflict resolution Select how to handle the conflicts at the content level.

Note: This is not available if **Replace** is selected as the container level conflict resolution.

- **Skip** The conflicting destination content will be retained in the destination, and the backup data of the conflicting content will not be restored.
- **Overwrite** The conflicting destination content will be removed from the destination, and the backup data of the conflicting content will be restored.
- Apps conflict resolution Select how to handle the apps conflict.
 - **Skip** The conflicting destination app and AppData will be retained in the destination, and the backup data of the conflicting content will not be restored.
 - **Overwrite** The conflicting destination app and AppData will be removed from the destination, and the backup data of the conflicting content will be restored.

Note: If you choose to only restore security, you must select how to handle the security conflicts at the container level and content level. **Replace** will overwrite the security in the destination; **Merge** will combine the security in the backup with the security in the destination.

- 7. Expand the **Advanced settings** area to configure more restore settings. If you choose to restore to another location, the mapping settings will be available to allow you to update the permissions and metadata or language.
- 8. **User mapping** Select a user mapping profile from the drop-down list. For more instructions on creating a new user mapping profile, refer to Chapter 18, "Configure Mapping Settings," on page 93.
- 9. Language mapping Select a language mapping profile from the drop-down list. For more instructions on creating a new language mapping profile, refer to <u>Chapter 18</u>, "Configure Mapping Settings," on page 93
- 10. **Domain mapping** Select a domain mapping profile from the drop-down list. For more details on creating a new domain mapping profile, refer to <u>Chapter 18</u>, "Configure Mapping Settings," on page 93.
- 11. In the **Would you like to restore PWA settings** field, select **Yes** or **No** to decide whether to restore the PWA settings.
 - **Yes** With this option selected, all supported PWA settings will be restored. For example, the views and permissions. The restore may interrupt all existing projects in the destination site collection.
 - **No** With this option selected, the restore job will only restore the resources and the Enterprise Project Type associated with the projects and all the Enterprise Custom Fields and Lookup Tables under the PWA.

If you select a Project Online site collection to restore, the recommended option "**Yes**" is by default selected. If you do not want to restore all PWA settings, you can also change the setting to No.

12. Choose how you would like to restore the version history if file versions are backed up by IBM Storage Protect for Cloud. You can select **Restore the latest version only**, or you can select The **Restore the current and previous versions** option and enter the maximum number of versions you want to restore in the box. IBM Storage Protect for Cloud can restore up to **20** versions of one document. For the best performance and simplest experience, IBM recommends restoring only the latest version.

Note the following:

- By default, history versions of items and files are not backed up due to the regular recovery points created by backup jobs, as well as Microsoft 365 API overhead and limitations related to versions. In our experience, most user and legal requests are only for the most recent active version. In addition, we will capture multiple roll-back points during our daily backups to ensure you have a change history for this document outside native versioning. If you need to back up the versions for some reason and are willing to accept the performance impact, please contact IBM support to have it enabled. The backup job will include the most recent 10 versions by default.
- If you want to restore earlier versions of a document, you can run an export job to export all versions of that document from the backup data.
- 13. Select how you would like to restore the Managed Metadata Service.

- If the containers or content you select to restore is under the site collection level, the **Restore** terms in site store only option and the **Restore terms in both global term store and site term** store option will only restore the terms and their parent terms associated directly with the data from the site store or both. Note that if the data is not restored due to the conflict resolutions you choose, the restored terms cannot be connected to the data either.
- If you select at least the site collection level object to perform the restore, the **Restore terms in site store only** option will restore all the deleted terms in the site store and the **Restore terms in both global term store and site term store** option will restore all the deleted terms in both the global term store and site term store.
- If you select to **Use existing terms only**, no terms will be restored.
- If you want to perform a term store-only restore, refer to the FAQ: How do I perform term storeonly restore?
- 14. Select if you would like to restore the sharing permissions. This feature only works for the sharing of items to specific people inside or outside your organization. For external users, the restore job can only restore the permissions for the users who have accessed the sharing link. After the restore, the sharing links will be changed, and OneDrive users can go to OneDrive > **Shared** library to view the content shared with you and shared by you. The links generated by the **Copy link** function in Microsoft 365 are also regarded as sharing links.

Note: The Sharing setting is a tenant-level setting, and the IBM Storage Protect for Cloud Microsoft 365 does not protect tenant settings. The restore job to restore a deleted site cannot restore the Sharing settings, including the external users and their permissions.

15. Select **Yes** or **No** for whether to allow restore jobs to rehydrate the data sets automatically when the backup data is stored in the Azure archive storage tier. This field is only functional for the BYOS subscription type. For IBM Storage Protect for Cloud default storage, the restore job will automatically rehydrate data.

Note: IBM Storage Protect for Cloud recommends not storing the index database to the Azure archive storage tier.

- 16. Click **Next** to view the restore summary.
- 17. Click **Restore** to restore the selected items. After the job has started, you can go to the **Job Monitor** to view more job details. For details, refer to Chapter 25, "Job Monitor," on page 153.

Restore Public Folder Data

With IBM Storage Protect for Cloud Microsoft 365, you can restore Public Folder backup data to its original location.

Procedure

Complete the steps below to restore Public Folder data:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup** page, and then click the **Public Folder** tile
- 2. Select the items that you want to restore. You can choose one of the following methods to find the data to restore.
 - **Search mode** Define a Project Online site collection as the search scope and then use the properties to search for the items within the scope. Note that this method does not support searching and restoring the list items.
 - a. In the **Name** field, enter or select a public folder. The default search condition is to search the backup data of that public folder within the last backup cycle.
 - b. In the **Backup time range** field, the time range of the last backup cycle is displayed by default. Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click **Reset** if you want to reset the settings. Click **OK** to save your customization.

- c. Select **Folder** or **Mailbox Item** from the **Level** list for the items you want to search. If you want to search for items within the selected public folder, select the **Mailbox Item** option from the **Level** list, and you can configure the following search conditions: **Subject**, **Sent From**, **Sent To**, and **Date Sent**.
- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- e. Find and select the item you want to restore from the search results. In the drop-down list under the **Recovery Point** column, select a backup job that backed up this item at the status that you want to restore. In the **Metadata Recovery Point** drop-down list, you can select a backup time that backs up the metadata to overwrite the current metadata with the backup data or select **None** to not overwrite the current metadata. You can click **Restore** next to an item to restore that specific item, or you can click the **Restore** button above the search result table to restore all selected items.
- f. Go to step 3 to continue with the Restore settings.
- **Calendar mode** Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.
 - a. Click the Find the items in a specific backup job link or the Next button.
 - b. In the calendar, all backup jobs of Public Folder are displayed. You can select whether to display the finished with an exception or failed jobs in the calendar by selecting the **Include jobs with only partial backup data** option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - c. Select a backup job. All backup data of Public Folder is displayed in the table. You can select the **Show data from this backup only** option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job.
 - d. You can enter keywords to search the items, or you can click the backup data to browse the items you want to restore.
 - e. Click **Restore** next to an item to restore the specific item or select the items you want to restore and then click the **Restore** button above the table to restore all selected items.

Note: If you want to select multiple items to restore at the same time, you can only select the items at the same level.

- f. Go to step 3 to continue with the Restore settings.
- 3. If necessary, you can enter a description for this restore job in the **Description** text box.
- 4. Choose where to restore the backup data to. Public Folder data only can be restored to its original location. Select **Restore the data to its original location** option to restore the selected data to the original location.
- 5. Select how to handle the conflicts in the restore job.

Note: If there are container conflicts in the Public Folder restore, the backup content in the source container will be merged to the destination conflicting container.

• Select how to handle the content level conflicts:

Skip

The destination conflicting content will be retained in the destination, and the backup data of the conflicting content will not be restored.

Overwrite

The destination conflicting content will be removed from the destination, and the backup data of the conflicting content will be restored.

• Select how to handle the permission conflicts:

Skip

The destination conflicting permission will remain unchanged.

Overwrite

The destination conflicting permission will be replaced by the permission in the backup.

6. Select **Yes** or **No** for whether to allow restore jobs to rehydrate the data sets automatically when the backup data is stored in the Azure archive storage tier. This field is only functional for the BYOS subscription type. For IBM Storage Protect for Cloud default storage, the restore job will automatically rehydrate data.

Note: IBM Storage Protect for Cloud recommends not storing the index database to the Azure archive storage tier.

- 7. Click **Next** to view the restore summary.
- 8. Click **Restore** to restore the selected items.

Restore Teams Data

Before you begin

If a team has been deleted from the original location, the restore job can recover that team and the permissions of the owner and members to its original location. To view the supported and unsupported data types of Teams, refer to "Teams Data Types" on page 234.

You can also choose to restore partial Teams data to another location. IBM Storage Protect for Cloud Microsoft 365 now supports restoring the files in a standard channel or a Team site to another channel site or Team site. For details on which data types are supported for being restored to another location, refer to Teams Data Supported for Out-of-Place Restore.

You can now select to restore the Channel's conversations and files to your storage if you have a BYOS subscription.

IBM Storage Protect for Cloud service for Teams also provides the option allowing you to restore a <u>soft-deleted</u> team from the Microsoft 365 recycle bin to its last known good state. IBM Storage Protect for Cloud will perform a check for the team status in Microsoft 365 to ensure Microsoft has this data and present the options for you to decide the best way to recover data: using Microsoft native restore function within that 30-day retention period or using IBM Storage Protect for Cloud backup data to roll back the entire team or granular contents.

Note: The check will only happen when you select the team as both the restore scope and the search level.

Before you restore Teams data, note the following:

- To restore the Private/Shared Channel data, you can only use the **Calendar mode** restore wizard to restore the data to its original location. Private Channels have a lock icon displayed next to their name.
- To restore settings in Teams, the Microsoft 365 service account used to perform the restore must be the owner of the team that you want to restore.
- If you want to restore documents or security to another Team and the related users in the backup do not exist in the destination team, the permission of these users will not be kept. They will not have access to the restored documents in the destination Team.
- The accounts' profile photos in Teams cannot be restored.
- For Channel restoration, only existing channels can be restored. You cannot re-create a channel that was created and then deleted. For the soft-deleted channels that are stored in the Recycle bin of the team site, you can manually restore them from your Microsoft 365 tenant. Once a channel name has been created, even if it is deleted, it cannot be recreated either through the API or Teams interface. The system maintains this data for information protection scenarios.
- The past conversations can be recovered as read-only HTML files or as new posts to the channel.
 - If you restore the conversations to HTML files, the conversations that are created within the same month will be restored to the same HTML file named in the following format: ChannelName_March 2022. Each HTML file will store up to 10,000 records. If the number of records exceeds 10,000, the HTML files will be created with a postfix attached in the file name. For example, ChannelName_March 2022_1.

If you restore the conversations as new posts, the product will post a new message to the channel's **Posts** with the original message's sender information and sent date in the message body. The new message is posted in the name of the service account or the Delegated app authentication user, depending on the authentication method you choose to scan Teams. To use this feature, you can either use service account authentication or app profile authentication to scan Teams, but you must have a Microsoft Delegated app connected to your tenant. For details on creating an app profile for Microsoft Delegated, refer to <u>"Required Permissions of Microsoft Delegated App" on page 54</u>. Note that the authentication user of the delegated app must have a Teams license.

Note: A restore job to restore conversations as posts via the delegated app will add the authentication user to Teams members or private channel members and then automatically remove them after the restore job completes.

- If there are conversations that have not been backed up before the channel was renamed, these conversations posted before the renaming will be restored to a new folder named by the previous channel name under the **General** channel.
- Does not support backing up and restoring folders added through the **Add cloud storage** method under the **Files** tab in channels.

About this task

If a team has been deleted from the original location, the restore job can recover that team and the permissions of the owner and members to its original location. To view the supported and unsupported data types of Teams, refer to "Teams Data Types" on page 234.

You can also choose to restore partial Teams data to another location. For details on which data types are supported for being restored to another location, refer to Teams Data Supported for Out-of-Place Restore.

You can select to restore the Channel's conversations and files to your storage if you have a BYOS subscription.

IBM Storage Protect for Cloud Microsoft 365 for Teams also provides the option allowing you to restore a <u>soft-deleted</u> team from the Microsoft 365 recycle bin to its last known good state. IBM Storage Protect for Cloud will perform a check for the team status in Microsoft 365 to ensure Microsoft has this data and clearly present the options for you to decide the best way to recover data: using Microsoft native restore function within that 30-day retention period or using IBM Storage Protect for Cloud backup data to roll back the entire team or granular contents.

Note: The check will only happen when you select the team as both the restore scope and the search level.

Procedure

Complete the steps below to restore Teams data:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup** page, and then click the **Teams** tile.
- 2. Select the data that you want to restore. You can choose one of the following methods to find the data to restore.
 - Search mode Select a restore object scope and search for the data to restore. Follow steps 3 to 4.
 - **Calendar mode** Select a recovery point (backup job) and select data from that backup to restore. Go to step 5.
- 3. Define a Team as the search scope. You can enter the Team's name or email address to search, and then select the Team from the **Name** list. The default search condition is to search the backup data for the Team within the last backup cycle. The drop-down list will remind you of teams with unusual activities or under potential ransomware attacks.
- 4. You can choose to use the properties on the same page to search for the contents within this team for granular data roll-back, or you can directly go to the next step to search and select the data to restore.

Note: If the team you want to restore has been deleted from Microsoft 365, you can let IBM Storage Protect for Cloud Microsoft 365 check if the team is still in soft-deleted status and exists in the Microsoft 365 recycle bin to help you decide the best way to restore. In this case, select that team and directly click **Search**.

If the team is still in soft-deleted status in Microsoft 365, you can choose the following methods:

• If you choose to restore the entire scope from Microsoft 365, click **Next** and then select a recovery point. Click **OK** to start the restore job. You can go to the Microsoft 365 environment to monitor and verify the progress.

Note: If you only want to restore the scope from the recycle bin for its last known status, we strongly recommend selecting this option for faster job performance and better data integrity.

• If you choose to restore the selected scope or just content within this scope from backup data, click **Next**, and you can configure search settings to search for the granular contents.

For the details of using the properties on the first page or the **Search** feature on the **Select and restore the data** step, refer to the steps below:

- a. In the **Name** field, you can enter or select another team to change the search scope.
- b. In the **Backup Time Range** field, the time range of the last backup cycle is displayed by default.

Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click **Reset** if you want to reset the settings. Click **OK** to save your customization.

- c. Select Teams, Folder in Mailbox, Mailbox Item, Group Team Site, Site, List/Library, App, Folder in SharePoint, Document, Plan, or Task from the Level list for the items you want to search. To search for all objects at the level, leave the search conditions empty.
- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- e. Find and select the item you want to restore from the search results. In the drop-down list under the **Recovery point** column, select a backup job that backed up this item at the status that you want to restore. Recovery points with objects with unusual activities detected or potential ransomware attack detected will be displayed with 4 (**Unusual activities detected**)

or ***** (**Potential ransomware attack detected**). You can click **Restore** next to an item to restore that specific item, or you can click the **Restore** button above the search result table to restore all selected items.

- f. Go to step "6" on page 132 to continue with the Restore settings.
- 5. Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.
 - a) In the calendar, all backup jobs of Teams are displayed. You can select whether to display the finished with an exception or failed jobs in the calendar by selecting the **Include jobs with only partial backup data** option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b) Select a backup job. All backup data of Teams are displayed in the table. You can select the Show data from this backup only option (historical data in this scope from previous backups not included) to only show the data backed up in the selected backup job. Recovery points with objects with unusual activities detected or potential ransomware attack detected will be displayed

```
with 4 (Unusual activities detected) or 4 (Potential ransomware attack detected).
```

c) You can enter keywords to search the items, or you can click the backup data to browse the items you want to restore. After expanding a Team node, you can select the **Show Team Site** checkbox under the table to show the Team site node.

When you browse down to a private channel, you can select the **Show the private channel site** option to also display the site of this private channel on the data tree. You can select the site to restore or browse down to find the content that you want to restore.

Click **Restore** next to an item to restore the specific item or select the items you want to restore and then click the **Restore** button above the table to restore all of the selected items.

Note that the restore settings will only show the options that support all the selected objects. For example, if you select Team site, Meetings, and Group Conversations at the same time, the restore settings will not display the **Restore security only** option, and the **Would you like to restore the permissions of external users** settings.

- d) Continue to step 6 to configure the Restore settings.
- 6. If necessary, you can enter a description for this restore job in the **Description** text box. For objects with unusual activities or under ransomware attacks, you can click the **Potential ransomware attack detected** or **Unusual activities detected**in the **Suggested** field below to enter it in the **Description** text box directly.
- 7. Choose where to restore the backup data to.
 - Restore the data to its original location Restore the backup data to where the data is backed up.
 - **Restore the data to another location** Restore the backup data to another destination. Configure the following settings:
 - Select a restore destination Select a container as the restore destination. You can enter keywords to search for the restore destination. The items that can be selected as the restore destination are listed under the Search box.
 - Action Select how the backup data will be restored to the destination. Select Attach to restore the contents as children beneath the selected node, or select Merge to add the contents to the destination node. For example, you want to restore a folder to another folder. If you select Attach, the restored folder will become the subfolder of the destination folder; if you select Merge, the subfolders and contents of the restored folder rather than itself will directly become the subfolders and contents of the destination folder.
 - **Restore the data to your storage** If you have selected the Channels, Conversations, or Files, and you have the BYOS subscription, this option is available. You can restore the Channel's conversations and files to your storage.
- 8. Select how to handle conflicts in the restore job. The available conflict resolution options will vary for the items you select to restore. Select how to handle the conflicts in the restore job.
 - Container level conflict resolution Select how to handle the conflicts at the container level.
 - **Skip** The settings of the conflicting destination container will be retained in the destination.
 - Merge The source container settings and the content will be merged to the conflicting destination container. With Merge as the container level conflict resolution, the Privacy, Name, and Description will be updated to the destination team, and the team owner and members of the source team will be added to the destination.
 - **Replace** The settings of the conflicting destination container will be deleted and replaced by the source container settings, as well as the content within the container.

Note: The Replace option is unavailable when you select the whole Team to restore.

- Content level conflict resolution Select how to handle conflicts at the content level.
 - Skip The conflicting destination content will be retained in the destination, and the backup data of the conflicting content will not be restored.
 - **Overwrite** The conflicting destination content will be removed from the destination, and the backup data of the conflicting content will be restored.
 - Overwrite by Last Modified Time If the last modified time of the conflicting destination content is earlier than that of the source content, the conflicting destination content will be removed from the destination, and the backup data of the conflicting content will be restored.
 - Append an "_1" to the Item/Document If the last modified time of the conflicting destination content is the same, the restore will be skipped; if the last modified time is different, the conflicting destination content will be kept, and the backup data of the conflicting content will be added to the destination with a sequential number suffix added to the filename.
Note: : If you want to restore a single file version without affecting other versions, set the content level conflict resolution to **Append an "_1" to the Item/Document**. If the content level conflict resolution is set to **Overwrite**, the restore job will remove all the versions of this file from the destination and keep this file version as the latest and only version of the file.

- Apps conflict resolution Select how to handle the apps conflict.
 - Skip The conflicting destination app and AppData will be retained in the destination, and the backup data of the conflicting content will not be restored.
 - **Overwrite** The conflicting destination app and AppData will be removed from the destination, and the backup data of the conflicting content will be restored.
- 9. Expand the **Advanced settings** area to configure more restore settings. If you choose to restore to another location, the mapping settings will be available to allows you to update the permissions and metadata or language.
- 10. **User mapping** Select a user mapping profile from the drop-down list. For more instructions on creating a new user mapping profile, refer to Chapter 18, "Configure Mapping Settings," on page 93.
- 11. Language mapping Select a language mapping profile from the drop-down list. For more instructions on creating a new language mapping profile, refer to <u>Chapter 18, "Configure Mapping</u> Settings," on page 93
- 12. Select how you would like to restore the channel conversations. You can choose to restore the channel conversations to the read-only HTML files (stored in **Files**) or restore them as the new posts in the channel. If you want to restore the channel conversations as posts, you must have a Microsoft Delegated app registered in your tenant. For details on configuring the app, refer to <u>App Profile for a</u> Microsoft Delegated App.

Note: If your Teams are scanned using app profile authentication, a restore job to restore conversations as posts will add the authentication user to Teams members or private channel members and then automatically remove them after the restore job completes.

13. Choose how you would like to restore the version history if file versions are backed up by IBM Storage Protect for Cloud. You can select **Restore the latest version only**, or you can select the **Restore the current and previous versions** option and enter the maximum number of versions you want to restore in the box. IBM Storage Protect for Cloud Microsoft 365 can restore up to **20** versions for one document. For the best performance and simplest experience, restore only the latest version.

Note the following:

- capture multiple roll-back points during our daily backups to ensure you have a change history for this document outside native versioning. If you need to back up the versions for some reason and are willing to accept the performance impact, please contact IBM support to have it enabled. The backup job will include the most recent 10 versions by default.
- If you want to restore earlier versions of a document, you can run an export job to export all versions of that document from the backup data.
- This restore setting is not available when selecting documents.
- 14. Select how you would like to restore the Managed Metadata Service.
 - If the containers or content you select to restore is under the site collection level, the **Restore terms in site store only** option and the **Restore terms in both global term store and site term store** option will only restore the terms and their parent terms associated directly with the data from the site store or both. Note that if the data is not restored due to the conflict resolutions you choose, the restored terms cannot be connected to the data either.
 - If you select at least the site collection level object to perform the restore, the **Restore terms in site store only** option will restore all the deleted terms in the site store and the **Restore terms in both global term store and site term store** option will restore all the deleted terms in both the global term store and site term store.
 - If you select to **Use existing terms only**, no terms will be restored.
 - If you want to perform a term store-only restore, refer to the FAQ: <u>"How do I restore term store-only data?</u>" on page 28

15. Select if you would like to restore the sharing permissions. This feature only works for the sharing of items to specific people inside or outside your organization. For external users, the restore job can only restore the permissions for the users who have accessed the sharing link. After the restore, the sharing links will be changed, and OneDrive for Business users can go to OneDrive for Business > Shared library to view the content shared with you and shared by you. The links generated by the Copy link function in Microsoft 365 are also regarded as sharing links.

Note: The Sharing setting is a tenant-level setting, and the IBM Storage Protect for Cloud Microsoft 365 does not protect tenant settings. The restore job to restore a deleted site cannot restore the Sharing settings, including the external users and their permissions.

- 16. Select **Yes** or **No** for whether to allow restore jobs to rehydrate the data sets automatically when the backup data is stored in the Azure archive storage tier. This field is only functional for the BYOS subscription type. For IBM Storage Protect for Cloud default storage, the restore job will automatically rehydrate data.
- 17. Select **Yes** or **No** for whether to restore the hub site connection. This option is only available when you select a Team or a Team site to restore.

Note: IBM Storage Protect for Cloud Microsoft 365 cannot restore the hub site connection for the selected site, if it is a cross-tenant restore or the destination hub site requires approval for the associated sites to join.

- 18. Click **Next** to view the restore summary.
- 19. Click **Restore** to restore the selected items. After the job has started, you can go to the **Job Monitor** to view more job details. For details, refer to Chapter 25, "Job Monitor," on page 153.

Restore Viva Engage Data

Procedure

Complete the steps below to restore Viva Engage data:

- 1. Go to the **Restore** > **IBM Storage Protect for Cloud Backup** page, and then click the **Viva Engage** tile.
- 2. Select the data that you want to restore. You can choose one of the following methods to find the data to restore.
 - Search mode Select a restore object scope and search for the data to restore. Follow steps $\underline{4}$ to $\underline{5}$..
 - **Calendar mode** Select a recovery point (backup job) and select data from that backup to restore. "5" on page 135.
- 3. Define a Viva Engage community as the search scope. You can enter the Viva Engage community address or display name to search, and then select the Viva Engage community from the **Name** list. The default search condition is to search the backup data for the selected community within the last backup cycle.
- 4. You can choose to use the properties on the same page to search for for the contents within this community for granular data roll-back, or you can directly go to the next step to search and select the data to restore.

For the details of using the properties on the first page or the **Search** feature on the **Select and restore the data** step, refer to the steps below:

- a. In the Name field, you can enter or select another team to change the search scope.
- b. In the **Backup Time Range** field, the time range of the last backup cycle is displayed by default. Click the Calendar (i) button to customize the backup time range. The start date must be earlier than the end date. You can click **Reset** if you want to reset the settings. Click **OK** to save your customization.
- c. Select Viva Engage community, Site collection, Site, List/Library, App, Folder in SharePoint, Document, Plan, or Task from the Level list for the items you want to search. If you want to

search for all objects at the level, you select from the selected Viva Engage community. You can leave the search conditions empty.

- d. Click **Search** to search the items according to the conditions you configured. The search conditions and the search results are displayed. The search results table will display a maximum of 500 items. You can edit the search conditions and click **Search** to adjust the search results.
- e. Find and select the item you want to restore from the search results. In the drop-down list under the **Recovery point** column, select a backup job that backed up this item at the status that you want to restore. Click the **Restore** button above the search result table to restore all selected items.
- f. Go to step "6" on page 135 to continue with the Restore settings.
- 5. Find a backup job that backed up the items at the time of the status you want to recover, and then search and select the items from the backup data of that backup job.
 - a) In the calendar, all backup jobs of Viva Engage are displayed. You can select whether to display the finished with an exception or failed jobs in the calendar by selecting the **Include jobs with only partial backup data** option. Note that the data of these jobs may be incomplete. Hover over a backup job to show the backup job details.
 - b) Select a backup job. All backup data are displayed in the table. You can select the Show data from this backup only (historical data in this scope from previous backups not included) option to only show the data backed up in the selected backup job.
 - c) d. You can enter keywords to search the items, or you can click the backup data to browse the items you want to restore.

Click **Restore** next to an item to restore the specific item or select the items you want to restore and then click the Restore button above the table to restore all of the selected items.

Note that the restore settings will only show the options that support all the selected objects.

- d) Continue to step "6" on page 135 to configure the Restore settings.
- 6. If necessary, you can enter a description for this restore job in the **Description** text box.
- 7. Choose where to restore the backup data to.
 - Restore the data to its original location Restore the backup data to where the data is backed up.
 - **Restore the data to your storage** If you have selected the Viva Engage conversations or files, and you have the BYOS subscription, this option is available. You can restore the Viva Engage conversations and files to your storage.
- 8. Select how to handle conflicts in the restore job. The available conflict resolution options will vary for the items you select to restore.
 - Container level conflict resolution Select how to handle conflicts at the container level.
 - Skip The settings of the conflicting destination container will be retained in the destination.
 - Merge The source container settings and the content will be merged to the conflicting destination container. With Merge as the container level conflict resolution, the Privacy, Name, and Description will be updated to the destination Viva Engage community, and the owner and members of the source Viva Engage community will be added to the destination.
 - Replace The settings of the conflicting destination container will be deleted and replaced by the source container settings, as well as the content within the container.

Note: The Replace option is unavailable when you select the whole Team to restore.

- Content level conflict resolution Select how to handle conflicts at the content level.
 - **Skip** The conflicting destination content will be retained in the destination, and the backup data of the conflicting content will not be restored.
 - Overwrite The conflicting destination content will be removed from the destination, and the backup data of the conflicting content will be restored.

- Overwrite by Last Modified Time If the last modified time of the conflicting destination content is earlier than that of the source content, the conflicting destination content will be removed from the destination, and the backup data of the conflicting content will be restored.
- Append an "_1" to the Item/Document If the last modified time of the conflicting destination content is the same, the restore will be skipped; if the last modified time is different, the conflicting destination content will be kept, and the backup data of the conflicting content will be added to the destination with a sequential number suffix added to the filename.

Note: If you want to restore a single file version without affecting other versions, set the content level conflict resolution to **Append an "_1" to the Item/Document**. If the content level conflict resolution is set to **Overwrite**, the restore job will remove all the versions of this file from the destination and keep this file version as the latest and only version of the file.

- Apps conflict resolution Select how to handle the apps conflict.
 - Skip The conflicting destination app and AppData will be retained in the destination, and the backup data of the conflicting content will not be restored.
 - **Overwrite** The conflicting destination app and AppData will be removed from the destination, and the backup data of the conflicting content will be restored.
- 9. Select how you would like to restore the version history if file versions are backed up by IBM Storage Protect for Cloud. You can select to only restore the latest version, or you can select The **Restore** the current and previous versions option and enter the maximum number of versions you want to restore in the box. IBM Storage Protect for Cloud Microsoft 365 can restore up to **20** versions for one document. For the best performance and simplest experience, IBM Storage Protect for Cloud recommends restoring only the latest version.

Note the following:

- By default, history versions of items and files are not backed up due to the regular recovery points created by backup jobs, as well as Microsoft 365 API overhead and limitations related to versions. In our experience, most user and legal requests are only for the most recent active version. In addition, we will capture multiple roll-back points during our daily backups to ensure you have a change history for this document outside native versioning. If you need to back up the versions for some reason and are willing to accept the performance impact, please contact IBM support to have it enabled. The backup job will include the most recent 10 versions by default.
- If you want to restore earlier versions of a document, you can run an export job to export all versions of that document from the backup data.
- This restore setting is not available when selecting documents.
- 10. Select **Yes** or **No** for whether to allow restore jobs to rehydrate the data sets automatically when the backup data is stored in the Azure archive storage tier. This field is only functional for the BYOS subscription type. For IBM Storage Protect for Cloud default storage, the restore job will automatically rehydrate data.
- 11. Select how you would like to restore the Managed Metadata Service.
 - If the containers or content you select to restore is under the site collection level, the **Restore terms in site store only**option and the **Restore terms in both global term store and site term store**option will only restore the terms and their parent terms associated directly with the data from the site store or both. Note that if the data is not restored due to the conflict resolutions you choose, the restored terms cannot be connected to the data either.
 - If you select at least the site collection level object to perform the restore, the **Restore terms in** site store onlyoption will restore all the deleted terms in the site store and the **Restore terms in** both global term store and site term storeoption will restore all the deleted terms in both the global term store and site term store.
 - If you select to Use existing terms only, no terms will be restored.
 - If you want to perform a term store-only restore, refer to the FAQ: <u>"How do I restore term store-only data?</u>" on page 28.

12. Select **Yes** or **No** for whether to allow restore jobs to rehydrate the data sets automatically when the backup data is stored in the Azure archive storage tier. This field is only functional for the BYOS subscription type. For IBM Storage Protect for Cloud default storage, the restore job will automatically rehydrate data.

Note: IBM Storage Protect for Cloud Microsoft 365 cannot restore the hub site connection for the selected site, if it is a cross-tenant restore or the destination hub site requires approval for the associated sites to join.

- 13. Click **Next** to view the restore summary.
- 14. Click **Restore** to restore the selected items. After the job has started, you can go to the **Job Monitor** to view more job details. For details, refer to Chapter 25, "Job Monitor," on page 153.

Chapter 21. Data Management

Through Data Management, you can work with

- The **Backup Data eDiscovery** wizard allows you to search across all your Exchange Online mailboxes backup data for the emails with specific properties and then you can perform restore, export, or deletion of the selected recovery points. If you want to enable this feature, contact <u>IBM Software</u> Support for assistance.
- The **Data Subject Access Requests** wizard to discover the backup data of a given data subject and delete the backups.
- The **Remove Unprotected Data** report to check for the out-of-protection data and its expiration date for this backup data to be deleted. By default, the **Remove Unprotected Data** feature does not support BYOS customers or trial subscription.

The out-of-protection data refers to the data that you have moved from a protected selection to an unprotected scope, which indicates that you do not want this data protected. For your privacy, IBM Storage Protect for Cloud Microsoft 365 will remove such data. For details, refer to <u>"Remove</u> Unprotected Data" on page 141.

• Manually Delete Backup Data wizard to discover and remove the backup data of individual files, emails, or other documents to prevent any future restores.

Backup Data eDiscovery

In the **Backup Data eDiscovery** page, you can search for emails across all the backup data of Exchange Online mailboxes. After you have found the backup data you want, you can perform a data recovery, exportation, or deletion job directly from search result page. To enable this feature, contact your IBM sales representative or business partner to purchase this feature at an additonal cost.

About this task

It may take extra time to update the index for the backup. Therefore, the search that was performed right after the backup job may not be accurate. In addition, if you have ever changed the storage, the eDiscovery can only search from your backups in the current storage.

Procedure

Follow the steps below to search for the emails and perform the operation you need:

- 1. In the **Search for emails** area, the Exchange Online is currently the only option in the **Service Type** list.
- 2. Configure the search conditions for **Subject**, **Sent From**, **Sent To**, and **Date Sent**.
 - You can enter multiple keywords in the **Subject** box and separate them with a semicolon (;).
 - The **Sent From** box and the **Sent To** box also support entering multiple users. Ensure you use semicolon (;) to separate them.
 - The time range you configured for **Date Sent** cannot exceed one year. The search will find the emails that were sent or received within that time range.
- 3. You can also use the **Advanced Search** to narrow down the search scope, such as, filter the containers, mailbox address, folder name, or whether the email has attachments.
- 4. Click Search.
- 5. In the search result page, the search results in the latest backup cycle are displayed. You can click the link above the table to check the search result in another backup cycle. In addition, you can update the search conditions to adjust your search results.
- 6. You can perform the following operations on the emails in the search result:

- **Download File List** Download the search results to an XLSX file to your local computer. Extract the ZIP file and open the XLSX file in Excel to view all the records in the search results, including the email subject, recovery point, sent from, and sent to.
- **Restore** Restore the email to its original location. For details, refer to <u>"Restore Exchange Online</u> Data" on page 110.
- **Export** Export the selected backup data. An export job will start. You can go to Job Monitor to check for the job progress and download the exported content. For details, refer to <u>"Download the</u> Exported Data" on page 107.
- Delete Delete the selected backup data. In the confirmation window, you need select the I understand that the selected backup data will be permanently deleted option and click Yes to confirm your deletion.

Data Subject Access Requests

To help your organization comply with the General Data Protection Regulation (GDPR), IBM Storage Protect for Cloud Microsoft 365 provides a tool that discovers all copies of the Exchange Online Mailbox, SharePoint Online Site Collections and OneDrive backups of a given data subject that are stored by IBM Storage Protect for Cloud Microsoft 365 solution and deletes the user-generated backups of Mailbox, SharePoint Online Site Collections, and OneDrive.

About this task

The IBM Storage Protect for Cloud Microsoft 365 data stored on the backend is immutable to users. Administrators can enable data availability for data subject access requests in accordance with their organization's GDPR policy.

Note the following:

- If you currently have no GDPR requests and want to avoid any accidental deletion of backup data, you can contact <u>IBM Software Support</u> to disable this feature. Note that the **Data Subject Access Requests** feature and the **Manually Delete Backup Data** feature will both be disabled.
- You can set an approval process for the data deletion to avoid accidental data loss. With this feature enabled, data deletion requests and email notifications will be sent to the administrators when you delete data in **Manually delete backup data** and **Data subject access requests**. Then administrators

can access the IBM Storage Protect for Cloud Microsoft 365 interface and click **My Tasks** (⁽ⁱ⁾) on the upper-right of the interface to approve your requests. Thedeletion jobs will start when the requests are approved. Note that the requests will be automatically invalidated if not approved within 7 days. To enable this feature, contact the IBM Software Support team.

Procedure

Complete the steps below:

- 1. Click Data Management > Data Subject Access Requests on the left page.
- 2. Click Discover & Delete to enter the What type of content are you looking to identify? page.
- 3. Select the content type that you are looking for. If you want to delete the mailbox backup of the data subject, select **Exchange Online**; to delete the backup of the data subject's libraries, select **OneDrive**; to delete the backup of the site collection backup of the data subject, select **SharePoint Online**.
- 4. Enter the keyword to search for the data subject you are looking for. Select the data subject from the list and then click **Apply**. You can select multiple items in the search result.
- 5. You can export a list of recovery points to view the object backup history. Select the objects and click **Export recovery point**. A ZIP file will be automatically saved to the download location of your browser in the local computer.
- 6. Click **Delete** to delete all backup data for the selected objects from IBM Storage Protect for Cloud Microsoft 365.

You can continue to discover and delete data, or click the **View all the right to be forgotten requests** to go to the **Job Monitor** page to view deletion jobs in response to right to be forgotten requests.

Manually Delete Backup Data

IT administrators may need to remove the backup data of individual files, emails, or other documents or items to prevent any future restores.

About this task

In IBM Storage Protect for Cloud Microsoft 365, you can navigate to **Data Management** > **Manually Delete Backup Data** to select and search for the content that you want to delete backup data for.

Note that the files in the Teams private/shared channels cannot be deleted through the Manually delete backup data feature.

Note the following:

- If you want to avoid any accidental deletion of backup data, you can contact <u>IBM Software Support</u> to disable this feature. Note that the Data Subject Access Requests feature and the Manually Delete Backup Data feature will both be disabled.
- You can set an approval process for the deletion requests from **Manually delete backup data** and **Data subject access requests** to avoid accidental data loss. With this feature, data deletion requests need to be approved by administrators, and deletion jobs will start when the requests are approved. Note that the requests will be automatically invalidated if not approved within 7 days. To learn more and enable this feature, contact the IBM Software Support team.

Procedure

Follow the steps below:

- 1. In the Manually Delete Backup Data page, click the Exchange Online tab, SharePoint Online tab, Microsoft 365 Groups tab, OneDrive tab, or the Teams tab for the backup data that you are looking for.
- 2. Enter and select the mailbox, site collection, group, or team where the object that you are looking for belongs or the document in the **Name** or **URL** field, and then configure other conditions.
- 3. Click **Search**. The **Select and delete the backup data** page appears. The items that meet the search conditions and have backups are displayed in the table.
- 4. You can configure the search conditions to narrow down the search results or search in the other objects of this type or for the items of the other levels.
- 5. To delete a file, item, or email, you can select the checkbox ahead of it and click the Delete button above the table, or you can directly click the **Delete** button on the right of the row. To delete multiple files, items, or emails, select the checkbox ahead of each of them and then click the Delete button above the table.
- 6. The **Delete Data** window appears asking for confirmation. Select the **I understand that the selected backup data will be permanently deleted.** option and then click **Delete**. A notification message will appear on the upper-right of the interface to show if the job has successfully started.

Remove Unprotected Data

If you have moved objects from a protected selection to an unprotected scope (this also means if content dynamically changes to an unprotected container), which indicates that you do not want this data protected, for the sake of your privacy, IBM Storage Protect for Cloud Microsoft 365 will delete the corresponding backup data on the **Expiration Date**.

IBM Storage Protect for Cloud Microsoft 365 will screen your backup scope once a week and update the report. Your administrator group or the partner's administrator group will receive the email notification "Legacy online services data for Microsoft 365 identified and scheduled for removal", including the data moved to the unprotected scope, the data moved back to the protected, or the data to be deleted in seven days. If you adjusted the backup scope accordingly to prevent certain backup data from being deleted, you will receive the email notification **"Data protection scope updated -content no longer marked for deletion**" as an update.

Note that this feature does not apply to the BYOS subscription, Trial subscription, or the subscriptions with multi-Geo enabled, which indicates your backup data already taken will not be deleted, and you can use the backup data of your currently unprotected objects for data recovery.

If you are looking to save storage space by removing unprotected data, contact the Support team to enable this feature for your environment.

Note: The backup data for the objects that have been protected by IBM Storage Protect for Cloud Microsoft 365 but removed from your Microsoft 365 tenant is not within this scope. IBM Storage Protect for Cloud Microsoft 365 will keep such backup data according to your retention policy.

If you have deleted an object from your Microsoft 365 tenant and removed this object or the service type from the backup scope, but you did not perform an Auto Discovery scan job to update the object registration, IBM Storage Protect for Cloud Microsoft 365 may include the backup data of this object to the removed unprotected data report and send you email notifications. Your backup data will not be deleted since the IBM Storage Protect for Cloud deletion job will check whether the object exists in your Microsoft 365 tenant before deleting the backups. You will receive email notifications of the result.

The data on the **Remove Unprotected Data** page will be refreshed every seven days. You can check for the **Last Updated Time** in the upper-right corner of this page. On the **Remove Unprotected Data** page, you can also perform the following:

- Use the Object Type filter to have a custom view. You can select Exchange Online, SharePoint Online, OneDrive, Microsoft 365 Groups, Project Online, Public Folders, and Teams from the drop-down list.
- Click **Download all** (⁴) button on the upper-right corner to export all the data on this page to your

computer or expand an object type section and click the **Download all** (^{*}) button on the upper-right corner of the section to export the data of that object type.

Chapter 22. View Subscription Consumption Report

The **Subscription consumption** report contains two tabs: **Microsoft 365 services** and **Power Platform**. It displays your subscription details and consumption of Microsoft 365 services and Power Platform.

Microsoft 365 Services

The **Microsoft 365 services** tab provides a dashboard to show your subscription details, usage growth rate, trends, and utilizations, helping you understand how your subscription to Microsoft 365 services is consumed and predict when your subscription will reach the quota.

IBM Storage Protect for Cloud provides two primary choices for services:

- Protection for unlimited users for a set per-GB subscription (count the Microsoft 365 object data size in the backup scope by week. Note that it may take longer if your data size is too large)
- Protection for an unlimited amount of content in an organization for a set per-user subscription (count the Microsoft 365 assigned user seats. For details, refer to <u>IBM Storage Protect for Cloud Microsoft 365</u> Licensing.)

You can get a glance at the subscription type and capacity of your purchased subscription in the **subscription Details** pane, view the number and percentage of the consumed subscriptions, the major consumers on your subscription, and the usage history respectively in the **subscription Utilization** pane, **Top subscription Consumers**, Largest Consumers, and Usage History.

- To view more usage statistics, such as the usage history and trend, average growth rate, spike, and the object type that consumed most, click on the upper right corner of the **Usage History** pane or click the **Usage** tab.
- To view overall subscription utilization of each object type or down to a single site collection, OneDrive, mailbox, public folder, team, or a group, click the Expand button on the upper right corner of the Largest Consumer pane or click the Utilization tab.

If you want to increase your subscription capacity, you can reach out to your IBM Storage Protect for Cloud sales representative.

You also need to note the following when using the Subscription Consumption Report:

- The Subscription Consumption Report is updated once a week and only available to the IBM Storage Protect for Cloud Administrator and the Application Administrators of IBM Storage Protect for Cloud Microsoft 365. For subscriptions with the Multi-Geo enabled, only the IBM Storage Protect for Cloud Administrators can view this report.
- IBM Storage Protect for Cloud Microsoft 365 counts the size of private channel sites to the Teams total size, which may cause a spike in your subscription consumption growth if your tenant has a lot of private channels. You can download the report to check for the details. We provide a **Teams Private Channel Site** sheet to show the private sites and their size in the report. If you do not want to back up private channels, go to **General Settings** > **Backup Settings** to deselect the **Back up Private Channels** option.
- The downloaded job report will provide a sheet "**Summary per Container**" to display the subscription consumptions per container in each service type. The service types and their containers will be displayed in descending order according to the **Size**.
- If you have ever included the Recordings folder in backup, the size of Recordings folders will be counted in subscription consumption thereafter.

Usage Tab

The **Usage** tab shows the average growth rate in the past 12 months, the largest spike, and the service that has the largest size of protected data. Also, a usage projection will be displayed in the upper-right corner for when your license capacity will be reached.

You can click **Download report** to download the usage statistics to your computer and view the size of the protected data on a corresponding date or the number of the assigned user seats for each service type.

Utilization Tab

To view the detailed subscription consumption, click the **Utilization** tab. The subscription consumption of each object type will be listed in descending order. Click the tab of an object type on the left pane to view the usage information for the objects within this object type.

You can click **Download Report** to download the subscription utilization data, including the overall subscription utilization information and the size of the protected objects within each object type, and the containers where the objects reside.

Note the following:

- For Exchange Online service, the mailboxes in the report will be distinguished by their mailbox types, such as **User**, **Shared**, **In-Place Archive**, and **Resource**.
- You may find a difference in the data size of the in-place archive mailbox when comparing it to Microsoft 365. This is because Microsoft displays the size of the entire in-place archive mailbox, while IBM Storage Protect for Cloud Microsoft 365 only accounts for the data size in the main archive folder. This difference will not impact the performance and effectiveness of your backup jobs.

Power Platform

The **Power Platform** tab provides your subscription details and utilization, helping you understand how your subscription to Power Platform is consumed.

IBM Storage Protect for Cloud Microsoft 365 provides two primary choices for the subscription to Power Platform:

- Protection for unlimited users for a set per-object subscription (count the Power Platform object number in the backup scope)
- Protection for an unlimited amount of content in an organization for a set per-user subscription (count the Microsoft 365 assigned user seats. For details, refer to Subscription and Licensing Information.

You can get a glance at the subscription type, the capacity of your purchased subscription, and the number or percentage of the consumed subscription in the **Subscription utilization** section, and view the major consumers on your subscription.

If you want to increase your subscription capacity, you can reach out to your IBM sales representative.

Chapter 23. Audit User Activities in System Auditor

Navigate to **System Auditor** page to view the user activities in IBM Storage Protect for Cloud Microsoft 365, divided into the following categories: **Time**, **User**, **IP address**, **Operation component**, and **Event**. You can click the time of some user activities to view change details.

Procedure

You can perform the following actions on the records of user activities:

- Use the Time Filter, Operation Component filter, and Object Type filter to filter the records.
- Use the **Search** box to search for the activities by username.

Note: Searching only supports entering the full username.

- Download the System auditor records. Follow the steps below:
 - 1. Click the Download (^{*}) button next to the Search box. The **Download audit report** window appears.
 - 2. You can select the Last 7 days option or the Last 30 Days option as the time range for the export.
 - 3. Click **Export**. The audit report will be exported to your browser's download location. Click **Cancel** to cancel the export.

Chapter 24. Reporting for IBM Storage Protect for Cloud

IBM Storage Protect for Cloud Microsoft 365 provides the following reports for IBM Storage Protect for Cloud:

- The **Subscription consumption** report displays your subscription details and consumption of Microsoft 365 services and Power Platform. For details, refer to View Subscription Consumption Report.
- The **System auditor** report displays user activities and change details in IBM Storage Protect for Cloud Microsoft 365. For details, refer to Audit User Activities in System Auditor.
- The **Storage consumption report** displays the backup data size in storage, its growth, and trends to help administrators to monitor and manage the storage consumption. For details, refer to <u>View Storage</u> Consumption Report.
- The **Job analytics** report displays overview charts for all backup and restore jobs, and job progress details for long-running SharePoint Online and Exchange Online backup jobs. For details, refer to <u>Use</u> the Job Analytics Report.
- The **Microsoft 365 unusual activities analysis report** warns you of the OneDrive accounts, SharePoint Online sites, Teams primary site, or the Microsoft 365 Groups team sites with unusual activities or that are under a potential ransomware attack. For details, refer to <u>Use Microsoft 365 Unusual Activities</u> Analysis Report.
- The **End-user restore report** shows the restore requests and details from IBM Storage Protect for Cloud Recovery Portal. For details, refer to View the End-User Restore Report.
- The **Coverage report** displays what has been protected in IBM Storage Protect for Cloud Microsoft 365 and the protected object details. For details, refer to View the Coverage Report.

View Storage Consumption Report

The **Storage consumption** report displays the backup data size in storage, its growth, and trends to help administrators to monitor and manage the storage consumption. This report is not available to default storage customers. If you are a BYOS storage customer and want to enable this report, contact the <u>IBM</u> Software Support.

The report is updated once a week and only available to the IBM Storage Protect for Cloud Administrator and the Application Administrators of IBM Storage Protect for Cloud Microsoft 365. For the Multi-Geo subscription, only the IBM Storage Protect for Cloud Administrators can view this report.

Note: This report does not support the trial subscription using BYOS, and the report does not include the index file size, which takes about 1% to 1.5% of your total data size.

You can choose whether to display the report with the retention data included by turning on or off the **Include Retention Data** option. If you deselect the **Include Retention Data** option, the report will not include the backup data size that has been deleted by retention jobs. However, the data deleted by other deletion jobs, such as the deletion jobs for the <u>Data Subject Access Requests</u> feature and the <u>Manually</u> <u>Delete Backup</u> Data feature, will still be included.

Note: If you have configured a retention period that is less than 1 year, the data deleted by the day unit retention jobs will always be included in the Storage Consumption Report.

In the **Dashboard** > **Storage Overview** section, you can view and download the storage consumption information of each service type in all your storages or only the legacy or current storage. Click **Download Report** on the upper-right corner of this section to download and save the storage overview data in the XLSX file.

The **Usage History** section at the bottom of this page displays the storage growth history in the line chart for the last 6 months. You can click the arrow button to go to the **Usage** tab for more details.

Usage Tab

The **Usage** tab can show the storage growth history and trends for all object types or a specific object type, the average growth rate in the past 12 months, and the largest spike. You can also choose to display the usage report for all storages, or only the legacy or current storage, as well as whether to include retention data.

You can also click **Download Report** to download the report to your computer to drill down in Excel or other data analysis tools.

Use the Job Analytics Report

The Job analytics report contains three tabs: **Backup analytics**, **Backup Overview**, and **Restore analytics**. The **Backup analytics** tab provides ovrview charts for all backup jobs performed in **Last 7 Days** or **Last 30 days**. The **Backup overview** tab can help you understand the job progress details of the SharePoint Online backups that are currently running slowly. The **Restore analytics**tab provides overview charts for all restore jobs performed in the last 7, 30, 90 or 180days.

Note:

Note that the **Job analytics** > **Backup overview** report now only supports SharePoint Online and Exchange Online backups.

View the Charts for Backup Jobs

The **Backup Alalytics** tab in the Job analytics report displays all backup jobs performed over the last 7 days or 30 days in the following charts: **Status count** chart and the **Object count** chart.

You can click the **Time filter** to switch the report data for the **Last 7 Days** or **Last 30 days** and use the **Object type** filter and **Status type** filter to display the jobs that you want to show in the chart.

Overview for Long-Running SharePoint Online/Exchange Online Backups

The **Backup Overview** tab in the Job Analytics report is provided to help you be aware of the backup progress for long-running SharePoint Online and Exchange Online backup jobs. The Backup Overview feature currently does not support viewing details for the long-running jobs of other backup services, although the Project Online service has applied the Split-Off and Pause feature for the long-running backups.

The long-running backup jobs of **SharePoint Online** and **Exchange Online** that have run for at least 24 hours will be displayed in the Job Analytics Report with the job progress details, such as the progress bar, sub-processes, the start time for backing up main content (such as, the site collections, lists and libraries, mailboxes, and folders), and the in-progress items.

The incremental backups running for 47 hours will be split off.

- Objects that are waiting to be backed up will be skipped and included in the next backup that starts as scheduled from the last good point to ensure a complete initial sync, as well as refresh the backup scope for objects that can potentially be updated.
- Running sites or mails can still run in the background. The backup jobs for sites in the background will be automatically stopped if the jobs have been running for more than 28 days. You can check the job report through Job Monitor, and the remaining content will be included in the next backup automatically as well.

View the Charts for Restore Jobs

The **Restore analytics** tab in the **Job analytics** report displays all restore jobs performed over the last 7, 30, 90 or 180 days in the following charts: **Restore count** chart and the **Restore trends** chart.

You can use the **Time filter** to view the number of restore jobs of each enabled service type for the **Last 7 Days**, **Last 30 Days**, **Last 90 Days** or **Last 180 days** and view the restore trend of each service by month.

Use Microsoft 365 Unusual Activities Analysis Report

IBM Storage Protect for Cloud Microsoft 365 will learn from your backup statistics and warn you for the **OneDrive accounts, SharePoint Online sites, Teams primary site**, or the **Microsoft 365 Groups team sites** with unusual activities or under a potential ransomware attack.

Unusual activities are designed to provide visibility about atypical patterns within your environment, distinct from regular usage patterns. The unusual activities could be related to malware that is related to ransomware or non-ransomware. But in most cases they be legitimate operations, for example, some users might kick of migration jobs, or run through a clean-up of their OneDrive on their work anniversary. It might be normal for a user to make changes that do not match their day-to-day patterns. While you should be aware that these changes are happening, you likely do not have to respond to every unusual activity report.

However, a Potential Ransomware Attack is much more serious and requires your immediate attention. It refers to the real suspicious files that were detected in a user's OneDrive or a SharePoint Online site that requires investigation.

To learn how you use your environment and build the pattern, the Microsoft 365 Unusual Activities Analysis Report needs OneDrive accounts to have at least 12 days of successful backups with incremental changes. Once any unusual activities or potential ransomware attack has been detected, your administrators will receive an email notification. To enable the alert, refer to <u>Chapter 8, "Configure</u> Notifications," on page 61.

View the Report

You can go to the corresponding page to view the report for OneDrive, SharePoint Online, Teams, or Microsoft 365 Groups. To download a detailed list of files under potential ransomware attack or with unusual activity files, navigate to the **Details** tab of the service, select a OneDrive account/site, click a

point in the chart, and then Download list in the **More comments** (_____) list.

On each page, the **Dashboard** tab displays the number of OneDrive accounts or team sites protected by IBM Storage Protect for Cloud Microsoft 365 and the number of suspicious OneDrive accounts/team sites. The main chart in the **Dashboard** tab shows the data tracked over the last 30 days for unusual activities and potential ransomware attacks.

You can click the number to view all the accounts/sites with suspicious activities or click the point on the chart to view the details of that specific date. The **Details** tab will show more information on the unusual activities and suspicious files for the reported accounts/sites. You can download the report in an Excel file.

You can also go to **Details** page directly to view the data in a table. You can adjust the time range to change the data scope or click a OneDrive account/site to view the report with its own details.

When you view the details of a specific OneDrive account/SharePoint Online site, you can also adjust the time range to change the data scope and click a point in the chart to view the details of that date. The details are displayed below the chart. You can download a list of the files for record or for further investigation.

Note: The download list does not include the records for the deleted files.

Recover OneDrive to a Healthy State

Procedure

To recover OneDrive or site to a safe state, you can choose the following ways:

• In the **Details** tab, select the OneDrive or site, and click **Restore** on the **Restore** pane, find a safe date and select the proper recovery point to restore.

The **Recovery Point** calendar will display a yellow dot under the date where its recovery points are detected with unusual activities. For details on the common restore settings, refer to <u>Chapter 20</u>, "Restore and Recover Your Data," on page 109.

• On the details pane of a OneDrive account or site, click a safe date and click the **Go to Restore Page** button. For details on the common restore settings, refer to <u>Chapter 20</u>, "Restore and Recover Your Data," on page 109.

View the End-User Restore Report

The **End-user restore** report shows the restore requests and details from IBM Storage Protect for Cloud Recovery Portal.

IBM Storage Protect for Cloud Recovery Portal is designed to connect end users in your organization to their lost OneDrive, SharePoint Online site, and Exchange mailbox, Groups, Teams data, Team Chat, Power BI reports, or Power Automate flows. This interface allows users to search the most common fields to find the backup data to recover along with a preview of the email messages which can also help ensure a successful restore with minimal effort. For details, refer to IBM Storage Protect for Cloud Recovery Portal.

IBM Storage Protect for Cloud Microsoft 365 provides this report as an admin portal for monitoring IBM Storage Protect for Cloud Recovery Portal's activities throughout your tenant, including reports for:

- How many users have put requests in for lost content
- How many recovery requests have IBM Storage Protect for Cloud Recovery Portal received or successfully processed
- · How many users have authorized IBM Storage Protect for Cloud Recovery Portalto work in their context

You can perform the following in the report:

- Use the time range filter to view the report of Last 7 days or Last 30 days.
- Use the Object type filter to view separate reports for ShaePoint Online, OneDrive, Exchange Online, Microsoft 365 Groups, Teams and Power BI, including the number of total requests and the number of the restore jobs of the corresponding status.
- To view details for all the restore requests, you can click the **Download report** button on the pane to download the report data to your computer.
- View the trends for authorized users in the current month in the **Authorized User Trends** section.

View the Coverage Report

The **Coverage report** provides a **Dashboard** to show what has been protected in IBM Storage Protect for Cloud Microsoft 365 according to service types, the protected data size of each service, and backup trends. The **Dashboard** consists of four charts: **Backup coverage**, **Protected objects**, **Protected data size**, and **Protected data size trend**. You can click the **Download PDF report** button to download the **Coverage report** as a single PDF.

The **Backup coverage** chart displays how many days each service has been protected for and how many recovery points each service has according to service types in **Last 7 days** or **Last 30 days**. The chart is updated once the backup job is completed. You can click the number of protected days and recovery points to view backup jobs in **Job monitor**. You can also use the **Download report** option to download a report for the backup jobs in the last 30 days.

The **Protected objects** chart has two parts. The display on the left shows the ratio of objects currently backed up, to the total objects detected in your tenant. The right part shows two trends in the past 12 months: the number of objects in backup scope and the number of objects in your tenant.

The **Protected data size** chart displays the total protected data size, the protected data size of each service and its ratio to the total protected data size, and objects with their container and protected data size. The objects are ranked according to their protected data size and only the top 100 objects can be displayed here. The chart is updated once a week and you can click **Download report** to download a report for all protected objects in your tenant.

In the **Protected data size trend** chart, you can click the **Object type** to show the overall protected data size trend or the trend of objects protected by each service. The chart is updated once a week and you can also click **Download report** to download a report for all services.

Details

The **Details** page displays the **Last backup status**, **Last backup time**, and **First backup time** of each object protected by IBM Storage Protect for Cloud Microsoft 365 according to the **Object type**. You can click **Generate report** to generate a **Simple report** or **Detailed report** for protected object details of the object types you selected. A **Simple report** only includes details of top-level objects and a **Detailed report** includes details of top-level objects and the failed or skipped items.

For more object details in the last backup job, click the object name under the **Object** column. The **Object details in the last backup job** page displays. In the **Overview** tab, the **General information** section shows last backup job information, including the backup time, job ID, job status, data size/number per hour, backup data size, and the overall backup status and number of items protected under the top-level object in the last backup job. The **Item number analytics** section help you get into details on the backup status and number of items of each level protected in the last backup job.

In the **Error details** tab, you can filter the failed and skipped items and get more details. You can also click **Download report** to download a report for details of all failed or skipped items under the top-level object in the last backup job.

Chapter 25. Job Monitor

The **Job monitor** page displays the operations taking place in this IBM Storage Protect for Cloud Microsoft 365 instance. You can use the filters (**Object type** filter, **Job type** filter, **Status** filter, and **Time filter**) or the **Search** box to search for the backup, restore, and export jobs. In addition, you can click the Manage columns button next to the Refresh (\mathcal{C}) to choose which columns can be displayed in the table.

About this task

To view the summary information of a job, click the job ID, or click the More commands (...) button on the right, and then click **View details** from the drop-down list. The **Job details** page displays the job information of the selected job, including the service type, Job ID, job status, job run by, total size, start time, etc. For the restore jobs in progress, the **Job details** page displays the successful, failed, and remaining objects during the restore.

You can use the **Generate report** option on the **Job details** page to generate and download reports, or you can use the **Generate report** option in the More commands (...) list for each completed backup, restore, or export job to view the job summary, job settings, and the failed or skipped objects. In the reports for the restore jobs, the source and destination information can also be seen.

Procedure

To generate and download a job report, follow the steps below:

- 1. On the Job monitor > IBM Storage Protect for Cloud Backup page, you can use the Time filter, Job type, Object type, Status to filter the user activities.
 - Click Object type: All, and then select Exchange Online, OneDrive, SharePoint Online, Microsoft 365 Groups, Teams, Teams Chat, Project Online, Public Folder, Viva Engage, Power BI, or Power Automate from the drop-down list to search the jobs performed on the corresponding object type.
 - Click Job type: All, and then select Backup, Restore, Export, Delete, or Retention from the dropdown list to filter the corresponding jobs.
 - Click Status: All, and then select In progress, Finished, Finished with exception, Failed, Stopped, or Partially finished from the drop-down list to search the jobs of specified status.
 - Click **Time filter: All**, and then select **Today**, **Last 7 days**, **Last 30 days**, **Last 90 days**, or **Last 180 days** from the drop-down list to filter the activities whose start time matches the filter.

Additionally, you can use the **Search** box to search the activities by username, Job ID, or description (for restore jobs).

- 2. Click the **Generate report** option from the More commands list.
- After the The Generate reports generated, the Download report option will appear. Click the Download report link to download the report. If the option does not show up, you can click the Refresh (C) button next to the search box to refresh the data in the Job monitor.

Two reports are provided in the downloaded zip file: An Excel including the summary of the job, and a CSV file including the **Successful** top-level objects (Exchange Online mailbox, OneDrive, SharePoint Online site collection, Microsoft 365 Group mailbox, and team site, Teams group mailbox and group team site, Project Online site collection, and Exchange Online public folder), **Failed**, or **Skipped** items.

Chapter 26. View Subscription Notifications

You can view notifications of your licenses in the **Notifications** menu by clicking the bell (*) button.

About this task

IBM Storage Protect for Cloud Microsoft 365 provides the following Enterprise subscription models:

- Unlimited Users This subscription model requires a license that covers all protected Microsoft 365 capacities. The number of **Purchased** and **Protected** capacities will be displayed on the **Notifications** pane. If the number of the **Protected** capacity is greater than the number of the **Purchased** capacity, your backup service is out of policy.
- Unlimited Organizations This subscription model requires user seats for all assigned Microsoft 365 licenses, and you can purchase at most 5000 user seats. The number of **Purchased** and **Assigned** user seats will be displayed on the **Notifications** pane. If the number of **Assigned** user seats is greater than the number of **Purchased** user seats, your backup service is out of policy.

If your backup service is out of policy for 30 days, the **Notifications** pane will appear to inform you. You can click **Dismiss** on the upper-right corner of the **Notifications** pane to close the pane.

Chapter 27. Submit Feedback

IBM provides a platform to collect feedback where you can provide suggestions for product features from your IBM Storage Protect for Cloud Microsoft 365 experience.

Procedure

Refer to the instructions below to submit your feedback:

- 1. Click the Submit Feedback button on the top bar. The **Submit Feedback** pane appears.
- 2. Configure the following settings:

Rate your experience

Click the stars to evaluate your IBM Storage Protect for Cloud Microsoft 365 experience.

Module Name

Select IBM Storage Protect for Cloud Microsoft 365 from the Module Name drop-down list.

Feedback Type

Select **Bug Report**, **Interface Improvement**, **Feature Suggestion**, or **Subscription Cancellation** from the list.

Your suggestion

Enter your suggestions about IBM Storage Protect for Cloud Microsoft 365 features.

3. Click **Submit** to submit your feedback to IBM , or click **Cancel** to leave this pane without submitting feedback.

Chapter 28. Introduction to the Data Export Service

The Data Export Service is provided to IBM Storage Protect for Cloud Microsoft 365 customers in the following instances:

- Customers who want to archive their legacy backup data as the data comes to the end of the retention period.
- Customers who plan to end their subscription of IBM Storage Protect for Cloud Microsoft 365 and remove their backup data.

Note that if you only want to export a smaller sample set of data to plain file format, use the **Export** button in the restore wizard. For details, refer to <u>Chapter 19</u>, "Export and Download Your Data," on page <u>97</u>.

· For customers using IBM Storage Protect for Cloud-provided default storage

IBM will retain the backup data in IBM Storage Protect for Cloud storage for 60 days, subject to the terms of your service agreement, if the subscription to IBM Storage Protect for Cloud Microsoft 365 ends. The backup data in IBM Storage Protect for Cloud storage can be exported to your own storage as a paid service. You must submit an export request if you wish to export data from IBM Storage Protect for Cloud storage.

For BYOS customers

If your license is the BYOS type, ending the subscription will not delete the backup data stored in your own storage. You do not need to pay an export fee.

Additionally, you must export the encryption key before your move away from this product, as you will need the encryption key to convert the encrypted backup data to readable content, and you will not be able to sign in to the IBM Storage Protect for Cloud Microsoft 365 interface once your subscription has ended. For details on exporting encryption keys, refer to "Export Encryption Key" on page 71.

After the backup data is ready in your own device, you can use the following solutions to convert the backup data encrypted in IBM Storage Protect for Cloud format to readable content. for more details, Contact IBM Software Support for assistance.

Chapter 29. Job Report Troubleshooting

The following tables provide some key job report comments and their causes and solutions to help you troubleshoot certain issues you may encounter during backup and restore jobs. Error codes are included in job reports to help you troubleshoot issues. Clicking the error code link in the downloaded job report will open the Chapter 30, "Troubleshooting," on page 169 guide.

Errors that occur in an IBM Storage Protect for Cloud Microsoft 365 job may cause some items to fail and not be backed up. According to the job report details listed below, some of the failed items will be marked with a **Warning** status.

The **Warning** backup status will not affect the backup job status, which means you may find backup jobs whose status is **Completed** but contain items with a **Warning** status. The next backup job will automatically include these items, but if the backup for these items continues to fail during the next three backup jobs, the backup status for these items will be marked as **Failed**, which may result in the backup job status being changed to **Completed with Exceptions** or **Failed**.

The warning backup status definition is automatically enabled for all customers. If you want to disable this feature to display the following **Warning** items with the **Failed** status, contact <u>IBM Software Support</u> for help.

Job Report Comment Status **Causes and Solutions** The remote server returned an Warning Connection authentication is error: (403) Forbidden failed The remote server returned an Warning Check the authentication settings error: (401) Unauthorized and test if it works in a public network environment. The connection with SharePoint There was no endpoint listening Warning at http://usr17050-420:32843/ Online Server is unstable. 7b1863ba5d594c The failed objects will be 95bfc16928967478d3/ automatically included in the MetadataWebService.svc that next backup job. If this error could accept the message. persists, contact IBM Software This is often caused by an Support for help. incorrect address or SOAP action. The request channel timed The connection with SharePoint Warning out while waiting for a reply Online Server is unstable. For after 00:00:30. Increase the backup, the failed objects will timeout value passed to the be automatically included in the call to Request or increase next backup job. If this error the SendTimeout value on the persists, contact IBM Software Binding. The time allotted to Support for help. this operation may have been a portion of a longer timeout.

SharePoint Online and Microsoft 365 Group Team Site

Job Report Comment	Status	Causes and Solutions
An existing connection was forcibly closed by the remote host.	Warning	The connection with SharePoint Online Server is unstable. For backup, the failed objects will be automatically included in the next backup job. If this error persists, contact <u>IBM Software</u> <u>Support</u> for help.
The underlying connection was closed: The connection was closed unexpectedly.	Warning	The connection with SharePoint Online Server is unstable. For backup, the failed objects will be automatically included in the next backup job. If this error persists, contact <u>IBM Software</u> <u>Support</u> for help.
The HTTP service located at http://usr19962-543:32843/ c7d0fe6dfad1485a857d 02abf4155815/ MetadataWebService.svc is unavailable. This could be because the service is too busy or because no endpoint was found listening at the specified address. Please ensure that the address is correct and try accessing the service again later.	Warning	The connection with SharePoint Online Server is unstable. For backup, the failed objects will be automatically included in the next backup job. If this error persists, contact <u>IBM Software</u> <u>Support</u> for help.
The operation has timed out.	Warning	The request timed out. The failed objects will be automatically included in the next backup job. If this error persists, contact <u>IBM</u> Software Support for help.
Exception from HRESULT: 0x8107054A	Warning	Throttling issue: Too many requests. To avoid the throttling issue, you can use the account pool to distribute the requests
Exception from HRESULT: 0x80131904	Warning	Throttling issue: Too many requests. To avoid the throttling issue, you can use the account pool to distribute the requests.
The remote server returned an error: (429)	Warning	Throttling issue: Too many requests. To avoid the throttling issue, you can use the account pool to distribute the requests.
The site collection [SiteURL] is not available.	Skipped	Check if the object exists in Microsoft 365. If it exists, contact IBM Software Support for help.
Cannot get object metadata. It may have been deleted.	Skipped	Check if the object exists in Microsoft 365. If it exists, contact IBM Software Support for help.

Job Report Comment	Status	Causes and Solutions
File not found.	Skipped	Check if the object exists in Microsoft 365. If it exists, contact IBM Software Support for help.
Item does not exist. It may have been deleted by another user.	Skipped	Check if the object exists in Microsoft 365. If it exists, contact IBM Software Support for help.
File does not exist.	Skipped	Check if the object exists in Microsoft 365. If it exists, contact IBM Software Support for help.
The changeToken refers to a time before the start of the current change log.	N/A	The changeToken of an incremental backup has expired. The backup job will perform a full backup for this object automatically.
An error occurred while performing the backup. Error: Failed to access the destination site collection. The username or password is incorrect. Site Collection URL: {0}.	Failed	{0} displays the URL of the site collection. You must update the service account credentials in IBM Storage Protect for Cloud and rerun the Auto Discovery scan job.
Access denied. You do not have permission to perform this action or access this resource.	Failed	Add the service account you configured or the group used in the account pool to the Site Administrators group.
An error occurred while performing the backup. Error: The request was aborted. Cannot create SSL/TLS secure channel.	Failed	Custom ADFS Authentication failed. Check the ADFS authentication settings and test if it works in a public network environment.
List does not exist. The page you selected contains a list that does not exist. It may have been deleted by another user.	Failed	Check if the object exists in Microsoft 365. If it exists, contact <u>IBM Software Support</u> for help.
The specified program requires a newer version of Windows. (Exception from HRESULT: 0x8007047E)	Failed	The connection with SharePoint Online Server is unstable. If this error persists, contact <u>IBM</u> <u>Software Support</u> for help.
Cannot contact web site '[SiteUrl]' or the web site does not support SharePoint Online credentials.	Failed	This error occurs if you have disabled the ability for non- modern (legacy) authentication protocols within your SharePoint Online tenant.
Cannot contact site at the specified URL [SiteURL]. Access to this Web site has been blocked.	Failed	The site collection has been blocked. Contact your SharePoint administrator for help.
The remote server returned an error: (400) Bad Request.	Failed	Invalid request. Contact IBM Software Support for help.

Job Report Comment	Status	Causes and Solutions
The attempted operation is prohibited because it exceeds the list view threshold enforced by the administrator.	Failed	The number of requests has exceeded the list view threshold limit. Contact <u>IBM Software</u> <u>Support</u> for help.
Cannot complete this action. Please try again.	Failed	Invalid SharePoint Online data may exist in your environment. Contact <u>IBM Software Support</u> for help.
Invalid file name.	Failed	Invalid SharePoint Online data may exist in your environment. Contact <u>IBM Software Support</u> for help.
Stream was not readable.	Failed	An unknown error occurred. Contact <u>IBM Software Support</u> for help.
Microsoft.SharePoint.Client. ServerException: Exception of type 'System.ArgumentException' was thrown. Parameter name: value.	Failed	Unexpected exception of the Client API. Contact <u>IBM Software</u> <u>Support</u> for help.
Microsoft.SharePoint.Client. ServerObjectNullReference Exception: Object reference not set to an instance of an object on server. The object is associated with property CurrentUser.	Failed	Unexpected exception of the Client API. Contact <u>IBM Software</u> <u>Support</u> for help.
The request uses too many resources.	Failed	Resource limitation of client API. Contact <u>IBM Software Support</u> for help.
Save conflict.	Failed	Contact <u>IBM Software Support</u> team to ask about using a single thread to restore.
An error occurred while restoring the item. Item Name: {0}. Error: An error occurred when restoring the document, load file failed: The file "{1}" is pulled for editing by {2}.	Failed	Contact IBM Software Support team to ask about using a single thread to restore.

Exchange Online, Teams, and Microsoft 365 Group Mailbox

Job Report Comment	Status	Causes and Solutions
This group may have been removed.	Skipped	Check if this group has been removed from Microsoft 365. If so, you can rerun the scan job so that this group will be removed from the container. You may also contact <u>IBM Software Support</u> for help.

Job Report Comment	Status	Causes and Solutions
Cannot find the mailbox for this email address. The mailbox may have been deleted, or this account may not have a mailbox associated. Please check if the Auto Discovery profile has been enabled to remove the objects that were deleted in Microsoft 365.	Skipped	Check if this mailbox has been deleted from Microsoft 365. If so, you can rerun the scan job so that this mailbox will be removed from the container. You may also contact IBM Software Support for help.
No changes have been detected since the last backup.	Skipped	The backup job is skipped since no emails were sent or received since the last backup.
Microsoft Graph API leveraged by our product only allows a Group/Team to have up to 200 plans. Therefore, the new plans cannot be created during the restore if the number of plans in the destination Group/Team has reached 200.	Failed	In a Microsoft 365 Group or Team, you can have a maximum of 200 plans.
This Group ID does not exist in your Microsoft 365 tenant. This Group may have been deleted from Microsoft 365 and restored from backup data. Since a new Group is created during the restore, the Group ID has changed and needs to be re-scanned by IBM Storage Protect for Cloud to update the registration information.		If you restored this group after it has been deleted from Microsoft 365, this restore job would create a new Group. The Group ID is different. You must rescan the objects in IBM Storage Protect for Cloud to update the group ID in its registration information.
The account used to scan and register this Microsoft 365 Group must have an Exchange Online product license assigned.	Failed	Microsoft API requires an Exchange Online license in Microsoft 365.
p		Assign an Exchange Online license to the Microsoft 365 account that has been used for Auto Discovery.
{0} does not have any owners or members. IBM Storage Protect for Cloud does not protect the groups or teams with no owners or members. Add a user to this group/team if you want to protect it.	Failed	{0} displays the name of the private group or team. IBM Storage Protect for Cloud Microsoft 365 must use an existing user to access the private group or team. Therefore, to protect this group or team, add an owner or member into this private group or team.

Job Report Comment	Status	Causes and Solutions
This Microsoft 365 Group has been deleted from Microsoft 365. You can either select the entire group to run the restore, or manually create the group in Microsoft 365 and then run the restore again to restore the selected content.	Failed	This job report comment will appear if the Microsoft 365 Group has been deleted and you selected the objects within this Microsoft 365 Group rather than the group itself to restore.
A mailbox using the same name as the group "{0}" already exists in the destination.	Failed	The email address of this Microsoft 365 Group has been used by another user, security group, or distribution list. You can create a new Microsoft 365 Group with a different name
		as the destination of an out-of- place restore, or you can select another Microsoft 365 Group as the destination.
The account [{0}] does not have permission to impersonate the requested user. Please add Application Impersonation permission for this account in Exchange admin center	Failed	{0} displays the username. The error message appears because the Auto Discovery job failed to assign the ApplicationImpersonation permission to this account.
and try again.		Add the permission as instructed and then rerun the Auto Discovery job.
Not all items in this folder are backed up successfully. Error: {0}	Failed	Failed to synchronize all items in this folder. This may be due to an unstable network or busy Exchange Server.
You have exceeded the available concurrent connections for your account. Try again once your other requests have completed.	Failed	Exchange Online Server is busy, or the network is unstable. The next backup job will
The server cannot service this request right now. Try again later.	Failed	objects. If these objects still fail to be backed up, contact IBM
Too many concurrent connections opened. Cannot open mailbox.	Failed	Software Support.

Common

Job Report Comment	Status	Causes and Solutions
Cannot find the service account "{0}" in IBM Storage Protect for Cloud. To synchronize new service accounts, either run a one-time scan job in Auto Discovery or wait a scheduled	Failed	You may get this message when a synchronization issue occurred. Run the scan job in Auto Discovery to fix the synchronization issue and then
scan job to complete.		run the backup job again.
The service account "{0}" or account pool user used for running job does not have Project Online license in Microsoft 365.	Failed	Assign the Project Online license to the user who is used to back up the Project Online site collections in Microsoft 365.
The specified mailbox may be expired.	Failed	Check if the specific mailbox has a license.
Cannot find the mailbox for this email address. The mailbox may have been deleted, or this account may not have a mailbox associated. Please check if the Auto Discovery profile has been enabled to remove the objects that were deleted in Microsoft 365.	Failed	Check if the specific mailbox still exists in Microsoft 365 or if the user has a mailbox associated.
The mailbox is temporarily unavailable. The mailbox database may be offline, corrupt, shutting down, or exhibiting other conditions.	Failed	You can try to access the mailbox first. If the mailbox cannot be accessed, contact Microsoft Support; if the mailbox can be accessed, wait for the next backup job to automatically include this mailbox for backup.
Cannot back up the specified data from Exchange Online server. The server is busy now.	Failed	This may be due to a throttling issue. You can wait for the next backup job to back up this mailbox.
Cannot connect to the Exchange Online server. The network connection is not stable, or the credentials used to scan the mailboxes are incorrect.	Failed	Check the network connection and the credentials of the user who is used to scan the mailbox.
The Microsoft 365 user credentials specified for scanning mailboxes cannot be used to connect the Exchange Online server. The user may not have a mailbox.	Failed	Check if the user who is used to scan the mailboxes has a mailbox associated.
Cannot connect to the mailbox. The Microsoft 365 account does not have permission to access the mailbox.	Failed	Check if the user who is used to scan the mailbox has permission or not.

Job Report Comment	Status	Causes and Solutions
Cannot connect to the device due to network issues.	Failed	Check your device and the storage configurations, especially when your device is FTP/SFTP
There is no data in the backup scope to protect. You can go to the Auto Discovery interface in the IBM Storage Protect for Cloud portal to review your rules and include additional objects.	Failed	
Cannot find the service account for the destination node. Please configure a service account in IBM Storage Protect for Cloud and then try again.	Failed	The service account may have been deleted from IBM Storage Protect for Cloud. Go to the IBM Storage Protect for Cloud interface to configure the service account and run the Auto Discovery job to scan the object into the system.
Cannot find the service account for the source node. Please configure a service account in IBM Storage Protect for Cloud, and then try again.	Failed	The service account may have been deleted from IBM Storage Protect for Cloud. Go to the IBM Storage Protect for Cloud interface to configure the service account and run the Auto Discovery job to scan the object into the system.
Cannot find a service account or an app profile for this mailbox. Please go to IBM Storage Protect for Cloud to configure an account or profile with access to this mailbox.	Failed	Go to the IBM Storage Protect for Cloud interface to configure a service account or an app profile with the account that has access to the mailbox.
There is no available service account, app profile, or account pool for this Microsoft 365 tenant in IBM Storage Protect for Cloud. Please configure a service account or an app profile with required permissions in IBM Storage Protect for Cloud, and then try again.	Failed	Go to the IBM Storage Protect for Cloud interface to configure a service account or an app profile with required permissions to this tenant, and then retry the backup.
The device currently being used has no free space.	Failed	You can expand your device storage space or adjust the retention time for the data in your storage.
The custom storage location is not available. Check your storage configurations and status.	Failed	The custom device's credentials may be incorrect, or you changed the device location.
Chapter 30. Troubleshooting

This troubleshooting guide is aimed at addressing unexpected issues and errors that you may encounter when using IBM Storage Protect for Cloud Microsoft 365.

CO-IncorrectUserNameOrPassword

Issue:

A site failed in backup with the following error code:

CO-IncorrectUserNameOrPassword

Details:

The user credentials of the service account or account pool users may have been updated.

Solution:

You need to verify the user credentials provided to the service account profile or account pool users in the IBM Storage Protect for Cloud interface. Then, you can wait for the subsequent backup job and monitor the status.

CO-NotFound

Issue:

The object failed in backup with the following error code:

CO-NotFound

Details:

The object to back up may have been deleted. Deleted or corrupted objects cannot be retrieved.

Solution:

Please check if the object exists, and whether it can be displayed or used properly. Then, you can wait for the subsequent backup job and monitor the status. If the error persists, contact <u>IBM Software</u> Support.

CO-Throttling

Issue:

Some items failed in backup with the following error code:

CO-Throttling

Details:

This is the error code for 429 throttling issues.

Solution:

Due to the throttling control by Microsoft during weekday daytime hours, we recommend that you schedule backups outside business hours and consider reducing the frequency of backups as necessary during the workweek.

We also recommend you configure an app profile for your tenant when you are using the service account authentication for Auto Discovery. Therefore, IBM Storage Protect for Cloud Microsoft 365 backup services will switch to the <u>Hybrid Approach</u> for data protection. If you are OK with the data support status in app context (See the <u>Default/Custom App Profile</u> column for the support status of each service type), we strongly recommend that you use app profile authentication for both Auto Discovery and data protection.

If you need additional assistance, contact IBM Software Support.

SP-CannotCreateSubsite

Issue:

A file failed in backup with the following error code:

SP-CannotCreateSubsite

Details:

Your tenant setting does not allow the creation of subsites, so the subsite cannot be restored.

Solution:

You must update the tenant settings to enable the creation of subsites and try to restore them again.

Follow the steps below to enable the creation of subsites at the tenant level:

- 1. Sign in to the SharePoint admin center with a Microsoft 365 SharePoint administrator role.
- 2. Click **Settings** on the left panel.
- 3. In the **Settings** page, scroll down to the bottom and click **classic settings page**.
- 4. In the classic **Settings** page, find the **Subsite Creation** field and select the **Enable subsite creation for all sites** option.
- 5. Click **OK** to save your changes.

SP-FileBackupFailedDueToVirusScanner

Issue:

A file failed in backup with the following error code:

SP-FileBackupFailedDueToVirusScanner

Details:

SharePoint virus scanner detected invalid information or sensitive code in the file and prevented it from being downloaded. Basically, this file also cannot be downloaded in SharePoint as well. You can check the file status in SharePoint.

Solution:

To dismiss this error code, you can delete the file from SharePoint, or move this file to a dedicated folder and contact IBM Software Support to configure a filter to exclude the folder from backup.

SP-IRMProtectedFileFailed

Issue:

An IRM protected file failed in the backup with the following error code:

• SP-IRMProtectedFileFailed

Details:

The super user's symmetric key configured for the tenant in **Backup Settings** is invalid. Therefore, the backup job failed to decrypt this IRM-protected file for backup.

Solution:

Check the super user configuration in **Backup Settings** and watch out for the status of the subsequent backup jobs. For details on configuring backup settings and super users, refer to <u>Chapter 12</u>, "Configure Backup Settings," on page 69.

SP-PDFBackupFailedDueToIRM

Issue:

A PDF file failed in the backup with the following error code:

SP-PDFBackupFailedDueToIRM

Details:

The PDF file is encrypted with non-SharePoint encryption, and the library it resides in has enabled IRM settings. Therefore, this PDF cannot be downloaded and backed up.

Solution:

You can remove the IRM settings of this library or move this file to a library without IRM settings enabled. After that, you can monitor the subsequent backup jobs for the backup status of this file.

SP-SiteLocked

Issue:

A site is skipped from the backup with the following error code:

SP-SiteLocked

Details:

This site is locked and cannot be backed up.

Solution:

The locked site is inaccessible. Please check the status of your site. If you want to back up this site, you must unlock it first. It will be automatically included in the subsequent backup job. If you want to dismiss this error, you can remove this object from the container through the **IBM Storage Protect for Cloud** > **Microsoft & Salesforce** > **Auto Discovery** > **Containers** page.

SP-SiteNotExist

Issue:

The site was skipped from backup with the following error code:

SP-SiteNotExist

Details:

The site may have been removed from your Microsoft 365 environment.

Solution:

You can go to Auto Discovery in IBM Storage Protect for Cloud interface to rescan and update the site status. For detailed instructions, refer to Manage Scan Profiles.

SP-SkipBackupRecordingsFolder

Issue:

The Recordings folder that stores Teams meeting recordings was skipped from backup:

SP-SkipBackupRecordingsFolder

Details:

The **Back up Recordings folder** option in the **Backup Settings** is deselected. Therefore, the Recordings folder that stores the Teams meeting recordings has been excluded from backup. For details on the Recordings folder in OneDrive or SharePoint site, refer to the Microsoft article: <u>Use</u> OneDrive for Business and SharePoint or Stream for meeting recordings.

If you want to back up the Recordings folder, go to **Settings** > **Backup Settings** to select the **Back up Recordings folder** option.

SP-WebPartNotExist

Issue:

An item failed in the backup with the following error code:

SP-WebPartNotExist

Details:

While backing up the item, the Web parts on the corresponding page may have errors.

Solution:

Check all Web parts on this page to see if they are working properly and try to fix them. Then, you can wait for the subsequent backup job and monitor the status.

If you need additional assistance, contact IBM Software Support.

SP-OneNoteBackupFailed

Issue:

A OneNote section file failed in backup with the following error code:

SP-OneNoteBackupFailed

Details:

The OneNote section file cannot be downloaded by the Microsoft API.

Solution:

You may find the OneNote section files that failed in backup can still be accessed and viewed through the OneNote client application or OneNote Online because the OneNote client application or the OneNote Online simply loads the page for you. However, Cloud Backup needs to download the entire section for backup.

For the failed section file, the site URL where the failed file resides is provided in the report comment. You can navigate to the site to check whether the file can be manually downloaded from the website. If you can't download it either, try the following resolutions:

- If you still want to back up this file, you can create a new section in your OneNote notebook, copy the pages from the corresponding section with exceptions to the new one, and then delete the original one to avoid exceptions. Then, try again in the next backup job.
- Contact Microsoft support to check it out and share Microsoft's feedback with us.

If you want to ignore the exception and avoid the impact on the job status, you can contact <u>IBM</u> <u>Software Support</u> to set the status of these failed OneNote files to Skipped.

Chapter 31. Appendices: Supported and Unsupported Data Types

The following table details the appendices included in this document:

Note: We list all the data types that have been covered in our test for each service. If you do not find the data type that you are interested in, you can consult our consult the IBM Storage Protect for Cloud Team at the following website: www.ibm.com/support support team.

Note: IBM Storage Protect for Cloud Auto discovery scan profiles created after July 2023 release will only use app profile authentication. The IBM Storage Protect for Cloud jobs for protecting objects scanned in app context (app profile authentication) will use app profile authentication only, except for Project Online. For the supported or unsupported data types, refer to the **Default/Custom App Profile** column in the tables below. For the support list of Project Online, refer to <u>"Project Online Data Types" on page 201</u>.

Appendix	Description
"SharePoint Sites Data Types" on page 174	Lists the supported and unsupported data types of SharePoint Online sites in IBM Storage Protect for Cloud Microsoft 365.
	The support information also applies to the Project Online sites and the team sites of Microsoft 365 Groups and Teams.
Modern Team Site Data Types	Lists the supported and unsupported data types of Modern Team Site.
Project Online Data Types	Lists the supported and unsupported data types of Project Online.
Exchange Online Data Types	Lists the supported and unsupported data types of Exchange Online.
Public Folders Data Types	Lists the supported and unsupported data types of Public Folders.
Microsoft 365 Groups Data Types	Lists the supported and unsupported data types of Microsoft 365 Groups.
Teams Data Types	Lists the supported and unsupported data types of Teams.
"Viva Engage Data Types" on page 256	Lists the supported and unsupported data types of Viva Engage.
"OneDrive Data Types" on page 259	Lists the supported and unsupported data types of OneDrive.
Document-Related Data Types	Lists the supported and unsupported document- related data types.
"Power BI Data Types" on page 278	Lists the data types and limitations of Power BI backup service.
"Power Automate Data Types" on page 279	Lists the supported and unsupported attributes of Power Automate flows.
Power Apps Data Types	Lists the data types and limitations of Power Apps backup service.

Appendix	Description
Restore Options for Different Object Types	Lists the supported and unsupported restore options upon different object types.
"Restore Conflict Resolutions" on page 299	Lists the available container level conflict resolutions, content level conflict resolution, and app conflict resolutions for each object type.

SharePoint Sites Data Types

The table below lists the supported and unsupported SharePoint Sites data types in IBM Storage Protect for Cloud Microsoft 365.

For the document-related data, refer to "Document-Related Data Types" on page 261.

Site Collection Settings

Data Type		Default/Custom App Profile	Service Account (Obsolete)	
Recycle bin			Unsupported	Unsupported
Search Result Sourc	es	Unsupported	Unsupported	
Search Result Types	i		Unsupported	Unsupported
Search Query Rules			Unsupported	Unsupported
Search Schema			Unsupported	Unsupported
Search Settings		Enter a Search Center URL	Supported	Supported
		Which search results page should query be sent to?	Supported	Supported
Search Configuration	n Import		Supported	Supported
Search Configuration	n Export		Unsupported	Unsupported
Site collection featu	res		Supported	Supported
Site hierarchy			Unsupported	Unsupported
Search Engine Sitem	nap Settings		Supported	Supported
Search engine optimization	Verify ownership of this site with search engines		Supported	Supported
settings	Consolidate link popularity with canonical URLs		Supported	Supported
Site collection	Navigation Enabled		Supported	Supported
navigation	Security Trimming		Supported	Supported
	Audience Targeting		Supported	Supported
Site collection	Audit Log Trimming		Supported	Supported
audit settings	Documents and Iten	ns	Supported	Supported
	Lists, Libraries, and	Sites	Supported	Supported

Data Type		Default/Custom App Profile	Service Account (Obsolete)	
Audit log reports			Supported	Supported
Portal site connectic	n		Unsupported	Supported
Content Type Policy	Templates		Supported	Supported
Storage Metrics			Unsupported	Unsupported
Site collection app p	ermissions		Supported	Supported
Record declaration s	settings (With in	Record Restrictions	Supported	Supported
activated)	ement feature	Record Declaration Availability	Supported	Supported
		Declaration Roles	Supported	Supported
Site Policies			Unsupported	Supported
Content type service	e application error log		Supported	Supported
Site collection outpu	ıt cache	Output Cache	Supported	Supported
		Default Page Output Cache Profile	Supported	Supported
		Page Output Cache Policy	Supported	Supported
		Debug Cache Information	Supported	Supported
Popularity and Searc	ch Reports		Unsupported	Unsupported
Content type	Refresh All Publishe	d Content Types	Supported	Supported
publishing	Content type publish	ning error log	Unsupported	Unsupported
	Hubs		Supported	Supported
Variations Settings	Site, List, and Page C	Creation Behavior	Supported	Supported
	Recreate Deleted Ta	rget Page	Supported	Supported
	Update Target Page	Web Parts	Supported	Supported
	Notification		Supported	Supported
Variation labels			Supported	Supported
Variation logs			Supported	Supported
Note: The Row ID of ranking in the restor	the items cannot be e destination may be			
Translatable column	S		Supported	Supported
Suggested Content E	Browser Locations		Supported	Supported
Document ID	Assign Document ID	S	Supported	Supported
Settings	Document ID Looku	o Search Scope	Supported	Supported
HTML Field Security	Allow external ifram	es	Unsupported	Unsupported

Data Type		Default/Custom App Profile	Service Account (Obsolete)
SharePoint Designer Settings	Allow Site Owners and Designers to use SharePoint Designer in this Site Collection	Supported	Supported
	Allow Site Owners and Designers to Detach Pages from the Site Definition	Supported	Supported
	Allow Site Owners and Designers to Customize Master Pages and Page Layouts	Supported	Supported
	Allow Site Owners and Designers to See the Hidden URL structure of their Web Site	Supported	Supported
Site collection healt	h checks	Partially Supported	Partially Supported
Site collection upgra	de	Unsupported	Unsupported

Site Settings

Data Types		Default/ Custom App Profile	Service Account (Obsolete)	Comment
Users and	People and groups	Supported	Supported	
sions	Site permissions	Supported	Supported	
	Site collection administrators (Top-level site)	Supported	Supported	
	Site app permissions	Supported	Supported	
Web	Site columns	Supported	Supported	
Designer Galleries	Site content types	Supported	Supported	
	Web parts (Top-level site)	Supported	Supported	
	List templates (Top-level site)	Supported	Supported	
	Master pages and page layouts	Partially Supported	Partially Supported	The Modified by column value becomes SharePoint App after being restored.
	Theme (Top-level site)	Supported	Supported	
	Solutions (Top-level site)	Supported	Supported	
	Composed looks	Supported	Supported	

Data Types				Default/ Custom App Profile	Service Account (Obsolete)	Comment
Site	Regional	Time Zone		Supported	Supported	
tration	oottingo	Region	Locale	Supported	Supported	The existing Locale setting in the destination will not be updated.
			Sort Order	Supported	Supported	
			Set Your Calendar	Supported	Supported	
			Enable an Alternate Calendar	Supported	Supported	
			Define Your Work Week	Supported	Supported	
			Time Format	Supported	Supported	
			Subsite Settings	Supported	Supported	

Data Types		Default/ Custom App Profile	Service Account	Comment	
				(Obsolete)	
Site	Language Settings	Default Language	Supported	Supported	
tration		Alternate language(s)	Supported	Supported	
		Overwrite Translations	Unsupported	Supported	
	Site libraries and lists		Supported	Supported	
	User alerts		Unsupported	Unsupported	
	RSS	Site Collection RSS	Unsupported	Supported	
		Enable RSS	Supported	Supported	
		Advanced Settings	Supported	Supported	
	Sites and workspaces		Unsupported	Unsupported	
	Workflow settings	Unsupported	Supported		
	Site Closure and	Site Closure	Supported	Supported	
	Deletion	Site Deletion	Supported	Supported	
		Site Policy	Unsupported	Supported	
	Site output cache	Page Output Cache Profile	Supported	Supported	
	Term store manageme	nt	Supported	Supported	
	Popularity Trends		Unsupported	Unsupported	
	Content and structure		Supported	Supported	
	Manage catalog conne	ctions	Supported	Supported	
	Content and structure	logs	Supported	Supported	
	Site variation settings		Supported	Supported	
	Translation Status		Supported	Supported	
	Content Organizer Settings	Redirect Users to the Drop Off Library	Supported	Supported	
		Sending to Another Site	Supported	Supported	
		Folder Partitioning	Supported	Supported	
		Duplicate Submissions	Supported	Supported	
		Preserving Context	Supported	Supported	
		Rule Managers	Supported	Supported	
		Submission Points	Supported	Supported	
	Content Organizer Rule	Supported	Supported		

Data Types			Default/ Custom App Profile	Service Account (Obsolete)	Comment
Search	Result Source	ces	Unsupported	Unsupported	
	Result Type	s	Unsupported	Unsupported	
	Ouerv Rules		Unsupported	Unsupported	
	Schema		Unsupported	Unsupported	
	Search Settings	Enter a Search Center URL	Supported	Supported	
		Which search results page should query be sent to?	Supported	Supported	
		Configure Search Navigation	Supported	Supported	
	Searchable columns		Partially Supported	Partially Supported	The SharePoint Server Publishing Infrastructur e site collection feature must be activated.
	Search and	Indexing Site Content	Supported	Supported	
	offline availability	Indexing ASPX Page Content	Unsupported	Supported	
		Offline Client Availability	Supported	Supported	
		Reindex site	Supported	Supported	
	Configuratio	on Import	Supported	Supported	
	Configuratio	on Export	Unsupported	Unsupported	
Communit	Manage Disc	cussions	Supported	Supported	
y Adminis tration (root site)	Manage Cat Note: The C items.	egories ategories list will have duplicate	Supported	Supported	
	Manage Mer	mbers	Partially Supported	Partially Supported	The community members of the Discussion List will not be restored to another tenant.
	Communit	Established Date	Supported	Supported	
	y Settings	Auto-approval for permission requests	Supported	Supported	
		Reporting of offensive content	Supported	Supported	

Data Types			Default/ Custom App	Service Account	Comment	
				Profile	(Obsolete)	
	Reputation	Rating settings		Unsupported	Unsupported	
	Settings	Member achievemer system	nts point	Unsupported	Unsupported	
		Achievement level p	oints	Unsupported	Unsupported	
		Achievement level representation	Achievement level representation		Unsupported	
	Manage Rep	oorted Posts		Unsupported	Unsupported	
	Note: You ca and select th content opt	an go to Community s he Enable reporting (ion to enable this feat	settings of offensive cure.			
Look and	Design	Welcome		Supported	Supported	
Feel	Manager	Manage Device Channels	Supported	Supported		
		Upload Design Files	Supported	Supported		
		Edit Master Pages	Supported	Supported		
		Edit Display Templates	Supported	Supported		
		Edit Page Layouts	Supported	Supported		
		Publish and Apply Design	Supported	Supported		
	Master	Site Master Page		Supported	Supported	
	page	System Master Page		Supported	Supported	
		Theme		Supported	Supported	
		Alternate CSS URL		Supported	Supported	
	Title,	Title and Description	1	Supported	Supported	
	, and logo	Logo and Descriptior	ı	Supported	Supported	
	Page	Subsite Templates		Supported	Supported	
	layouts and site	Page Layouts		Supported	Supported	
	templates	New Page Default Se	ettings	Supported	Supported	
	Welcome Pa	age		Supported	Supported	
	Device Chan	nels		Supported	Supported	

Data Types				Default/ Custom App Profile	Service Account (Obsolete)	Comment
Look and	Tree view	Enable Qı	uick Launch	Supported	Supported	
Feel		Enable Tr	ee View	Supported	Supported	
	Change the	look		Supported	Supported	
	Import Desi	gn Package	9	Supported	Supported	
	Navigation	Global Na	vigation	Supported	Supported	
		Current N	avigation	Supported	Supported	
		Structura	l Navigation: Sorting	Supported	Supported	
	Structural Navigation: Editing and Sorting		Supported	Supported	The Recent navigation will be updated according to the order of objects being restored.	
		Show and	l Hide Ribbon	Supported	Supported	
	Image Renc	litions		Supported	Supported	
Site	Manage site	Manage site features			Supported	
Actions	Reset to site	Reset to site definition			Supported	
	Delete this site			Supported	Supported	
Hold	Hold Report	:S		Supported	Supported	
	Holds			Supported	Supported	
	Discover an	d hold	Search Criteria	Supported	Supported	
	content		Local Hold or Export	Supported	Supported	
			Relevant Hold	Supported	Supported	

List/Library Settings

Data Types			Default/ Custom App Profile	Service Account (Obsolete)	Comment
Title, description, and navigation	Name		Partially Supported	Partially Supported	The name will not be updated if a list/library with the same URL exists in the destination.
	Description		Supported	Supported	
	Navigation		Supported	Supported	
	Survey Options	Show user names in survey results?	Supported	Supported	
		Allow multiple responses?	Unsupported	Supported	
	Group Calendar Use this Options calendar to share member's schedule?		Unsupported	Supported	
Versioning settings	Content Approval		Supported	Supported	Note that the Approval Status column values cannot be restored.
	Document Version History	No versioning	Supported	Supported	
		Create major versions	Supported	Supported	
		Create major and minor (draft) versions	Supported	Supported	
		Keep the following number of major versions	Supported	Supported	
		Keep drafts for the following number of major versions	Supported	Supported	
	Draft Item Secur	ity	Supported	Supported	
	Require Check O	ut	Supported	Supported	

Data Types		Default/ Custom App Profile	Service Account (Obsolete)	Comment	
Advanced	Content Types		Supported	Supported	
settings	Document Temp	late	Supported	Supported	
	Opening Docume Browser	ents in the	Unsupported	Supported	
	Custom Send To Destination	Destination name	Unsupported	Supported	
		URL	Unsupported	Supported	
	Folders		Supported	Supported	
	Item-level	Read all items	Supported	Supported	
	Permissions	Read items that were created by the user	Supported	Supported	
		Create and edit all items	Supported	Supported	
		Create items and edit items that were created by the user	Supported	Supported	
		None	Supported	Supported	
	Search		Supported	Supported	
	Index Non-Defau	ult Views	Supported	Supported	
	Reindex Document Library		Supported	Supported	
	Offline Client Availability		Unsupported	Supported	
	Site Assets Libra	ry	Supported	Supported	
	Quick Edit		Unsupported	Supported	
	Dialogs		Unsupported	Supported	
	Automatic Index	Management	Unsupported	Supported	
Validation	Formula		Supported	Supported	
settings	User Message		Supported	Supported	
Column default value settings		Supported	Supported		
Manage item sch	eduling		Supported	Supported	
Rating settings			Supported	Supported	
Audience	Enable Audience	Targeting	Supported	Supported	
settings	Enable Classic A Targeting	udience	Supported	Supported	

Data Types		Default/ Custom App Profile	Service Account (Obsolete)	Comment
Metadata	Configure Navigation Hierarchies	Supported	Supported	
settings	Configure Key Filters	Supported	Supported	
	Configure automatic column indexing for this list	Supported	Supported	
Catalog Settings		Partially Supported	Supported	
Save document l	ibrary as template	Supported	Supported	
Manage files whi	ch have no checked-in version	Unsupported	Supported	
Workflow Setting	gs (see workflow for more details)	Unsupported	Supported	
Generate file plan report		Supported	Supported	
Enterprise Metadata and Keywords Settings		Supported	Supported	
Information mar	agement policy settings	Unsupported	Supported	
Permissions for	Group	Supported	Supported	
this document librarv	User	Supported	Supported	
	Role Assignments	Supported	Supported	
RSS Setting		Unsupported	Unsupported	
Calendar View		Supported	Supported	Mobile list simple view is unsupported
Custom View in S	SharePoint Designer	Supported	Supported	
Datasheet View		Supported	Supported	
Gantt View		Supported	Supported	
Standard View		Supported	Supported	Mobile list simple view is unsupported
Public View		Supported	Supported	
Personal View		Unsupported	Unsupported	

Admin Center

Data Types		Default/ Custom App Profile	Service Account (Obsolete)
Apps	App Catalog Site Collection	Supported	Supported
BCS		Unsupported	Unsupported
Info path		Unsupported	Unsupported
Records management		Unsupported	Unsupported

Data Types			Default/ Custom App Profile	Service Account (Obsolete)	
Search				Unsupported	Unsupported
Secure Store				Unsupported	Unsupported
Site Collection				Supported	Supported
Term Store	rm Store Term Group General Group Name		Supported	Supported	
			Description	Supported	Supported
			Group Managers	Unsupported	Unsupported
			Distributors	Unsupported	Unsupported
	Term Set	General	Term Set Name	Supported	Supported
			Description	Supported	Supported
			Owner	Supported	Supported
			Contact	Supported	Supported
			Stakeholders	Unsupported	Supported
			Submission Policy	Supported	Supported
		Intended Use	Available for Tagging	Supported	Supported
			Use this Term Set for Site Navigation	Supported	Supported
			Use this Term Set for Faceted Navigation	Supported	Supported
		Custom Sort	Custom Sort Order	Supported	Supported
		Term-Driven Pages	Target Page Settings	Supported	Supported
			Catalog Item Page Settings	Supported	Supported
		Custom Properties	Properties	Supported	Supported

Data Types				Default/ Custom App Profile	Service Account (Obsolete)
Term Store	Term	General	Available for Tagging	Supported	Supported
			Language	Supported	Supported
			Description	Supported	Supported
			Default Label	Supported	Supported
		Other Labels	Supported	Supported	
	Navigation	Navigation Node Title	Supported	Supported	
		Navigation Hover Text	Supported	Supported	
		Visibility in Menus	Supported	Supported	
			Simple Link or Header	Supported	Supported
			Term-Driven Page with Friendly URL	Supported	Supported
			Associated Folder	Supported	Supported
		Term-Driven Pages	Target Page Settings	Supported	Supported
			Category Image	Supported	Supported
			Catalog Item Page Settings	Supported	Supported
		Faceted Navigation	Refiner	Unsupported	Unsupported
		Custom Properties	Shared Properties	Supported	Supported
			Local Properties	Supported	Supported
User profiles		-	1	Unsupported	Unsupported

Features

Note that the features cannot be kept the same as the backup data if its restore destination is a site with a different template.

Data Types		Default/Custom App	Service Account
		Profile	(Obsolete)
Site Collection Features	Aggregated Business Calendar	Supported	Supported
	Content Type Syndication Hub	Supported	Supported
	Cross-Site Collection Publishing	Supported	Supported
	Custom Site Collection Help	Supported	Supported
	Disposition Approval Workflow	Supported	Supported
	Document ID Service	Supported	Supported
	Document Sets	Supported	Supported
	Duet End User Help Collection	Supported	Supported
	Duet Enterprise Reports Content Types	Supported	Supported
	In Place Records Management	Supported	Supported
	Library and Folder Based Retention	Supported	Supported
	Limited-access user permission lockdown mode	Supported	Supported
	Open Documents in Client Applications by Default	Supported	Supported
	Project Server Approval Content Type	Supported	Supported
	Project Web App Permission for Excel Web App Refresh	Supported	Supported
	Project Web App Ribbon	Supported	Supported
	Project Web App Settings	Supported	Supported
	Publishing Approval Workflow	Supported	Supported
	Reporting	Supported	Supported
	Reports and Data Search Support	Supported	Supported

Data Types		Default/Custom App	Service Account
		Profile	(Obsolete)
Site Collection Features	Sample Proposal	Supported	Supported
	Search Engine Sitemap	Supported	Supported
	Search Server Web Parts and Templates	Supported	Supported
	SharePoint 2007 Workflows	Supported	Supported
	SharePoint Server Enterprise Site Collection features	Supported	Supported
	SharePoint Server Publishing Infrastructure	Supported	Supported
	SharePoint Server Standard Site Collection features	Supported	Supported
	Site Policy	Supported	Supported
	Three-state workflow	Supported	Supported
	Video and Rich Media	Supported	Supported
	Workflows	Supported	Supported
Site Features	Access App	Supported	Supported
	Announcement Tiles	Supported	Supported
	Community Site Feature	Supported	Supported
	Content Organizer	Supported	Supported
	Duet Enterprise - SAP Workflow	Supported	Supported
	Duet Enterprise Reporting	Supported	Supported
	Duet Enterprise Site Branding	Supported	Supported
	External System Events	Supported	Supported
	Following Content	Supported	Supported
	Getting Started	Supported	Supported
	Getting Started with Project Web App	Supported	Supported

Data Types		Default/Custom App	Service Account
		Profile	(Obsolete)
Site Features	Hold	Supported	Supported
	Metadata Navigation and Filtering	Supported	Supported
	Minimal Download Strategy	Supported	Supported
	Mobile Browser View	Supported	Supported
	Offline Synchronization for External Lists	Supported	Supported
	Project Functionality	Supported	Supported
	Project Proposal Workflow	Supported	Supported
	Project Web App Connectivity	Supported	Supported
	SAP Workflow Web Parts	Supported	Supported
	Search Config Data Content Types	Supported	Supported
	Search Config Data Site Columns	Supported	Supported
	Search Config List Instance Feature	Supported	Supported
	Search Config Template Feature	Supported	Supported
	SharePoint Server Enterprise Site features	Supported	Supported
	SharePoint Server Publishing	Supported	Supported
	SharePoint Server Standard Site features	Supported	Supported
	Site Feed	Supported	Supported
	Site Mailbox	Supported	Supported
	Site Notebook	Supported	Supported
	Team Collaboration Lists	Supported	Supported
	Wiki Page Home Page	Supported	Supported
	Workflow Task Content Type	Supported	Supported

Templates

Data Types			Default/Custom	Service Account
			App Profile	(Obsolete)
Site Collection	Collaboration	Team Site	Supported	Supported
Templates		Blog	Supported	Supported
		Developer Site	Supported	Supported
		Project Site	Supported	Supported
		Community Site	Supported	Supported
	Enterprise	Document Center	Supported	Supported
		eDiscovery Center	Supported	Supported
		Records Center	Supported	Supported
		Team Site- SharePoint Online Configuration	Supported	Supported
		Note: This data type does not exist in the GCC High environment.		
		Business Intelligence Center	Unsupported	Supported
		Compliance Policy Center	Supported	Supported
		Note: This data type does not exist in the GCC High environment.		
		Enterprise Search Center	Supported	Supported
		Enterprise Wiki	Supported	Supported
		My Site Host	Supported	Supported
		Note: This data type does not exist in the GCC High environment.		
		Community Portal	Supported	Supported
		Basic Search Center	Supported	Supported
		Visio Process Repository	Supported	Supported
	Publishing	Publishing Portal	Supported	Supported
	Communication S	ite	Supported	Supported

Data Types			Default/Custom App Profile	Service Account (Obsolete)
Sub-Site Templates	Collaboration	Team Site	Supported	Supported
		Blog	Partially Supported	Partially Supported
		Project Site	Supported	Supported
		Community Site	Supported	Supported
	Enterprise	Document Center	Supported	Supported
		Records Center	Supported	Supported
		Business Intelligence Center	Supported	Supported
		Note: This data type does not exist in the GCC High environment.		
		Enterprise Search Center	Supported	Supported
		Note: This data type does not exist in the GCC High environment.		
		Basic Search Center	Supported	Supported
		Visio Process Repository	Supported	Supported
	Publishing	Publishing Site	Supported	Supported
	Note: This data type does not exist	Publishing Site with Workflow	Unsupported	Supported
	in the GCC High environment.	Enterprise Wiki	Supported	Supported
	Duet Enterprise	SAP Workflow Site	Unsupported	Supported

Data Types		Default/Custom	Service Account
		App Profile	(Obsolete)
Normal List	Announcements	Supported	Supported
Templates	Asset Library	Supported	Supported
	Calendar	Supported	Supported
	Contacts	Supported	Supported
	Custom List	Supported	Supported
	Custom List in Datasheet View	Supported	Supported
	Customized Template	Supported	Supported
	Note: This data type does not exist in the GCC High environment.		
	Data Connection Library	Supported	Supported
	Discussion Board	Supported	Supported
	Note: This data type does not exist in the GCC High environment.		
	Document Library	Supported	Supported
	External List	Unsupported	Unsupported
	Form Library	Supported	Supported
	Import Spreadsheet	Supported	Supported
	Note: This data type does not exist in the GCC High environment.		
	Issue Tracking	Supported	Supported
	Links	Supported	Supported
	Picture Library	Supported	Supported
	Promoted Links	Supported	Supported
	Record Library	Supported	Supported
	Related Actions List	Supported	Supported
	Note: This data type does not exist in the GCC High environment.		
	Report Library	Supported	Supported
	Survey	Supported	Supported
	Tasks	Supported	Supported
	Wikipage Library	Supported	Supported

Data Types		Default/Custom	Service Account
		App Profile	(Obsolete)
Design List	AppData	Supported	Supported
Templates	Badges	Supported	Supported
	Cache Profiles	Supported	Supported
	Composed looks	Supported	Supported
	Content type publishing error log	Supported	Supported
	Converted Forms	Supported	Supported
	Device Channels	Supported	Supported
	Form Templates	Supported	Supported
	FrontPage Data Sources	Supported	Supported
	Images	Supported	Supported
	List Template Gallery	Supported	Supported
	Long-Running Operation Status	Unsupported	Unsupported
	Maintenance Log Library	Supported	Supported
	Master Page Gallery	Supported	Supported
	Notification List	Supported	Supported
	Hold Reports	Supported	Supported
	Hold	Supported	Supported
	Pages	Supported	Supported
	Project Policy Item List	Supported	Supported
	Quick Deploy Items	Supported	Supported
	Relationships List	Supported	Supported
	Reports List	Supported	Supported
	Search Config List	Supported	Supported
	Site Assets	Supported	Supported
	Site Pages	Supported	Supported
	Solution Gallery	Supported	Supported
	Style Library	Supported	Supported
	Suggested Content Browser Locations	Supported	Supported
	Taxonomy Hidden List	Unsupported	Unsupported
	Theme Gallery	Supported	Supported
	Translation Package	Supported	Supported

Data Types		Default/Custom App Profile	Service Account (Obsolete)
Design List	Translation Status	Supported	Supported
Templates	User Information List	Unsupported	Unsupported
	Variation Labels	Supported	Supported
	Variation logs	Supported	Supported
	Web Part Gallery	Supported	Supported
	Workflow Tasks	Supported	Supported
	No Code Public Workflows	Unsupported	Unsupported
	No Code Workflows	Unsupported	Unsupported
	Workflow History	Unsupported	Unsupported
	Nintex Workflow	Unsupported	Unsupported
	MFSVC	Unsupported	Unsupported
	MicroFeed	Unsupported	Unsupported
	AppData Catalog	Unsupported	Unsupported
	SharingLinks	Unsupported	Unsupported
	TaxonomyHiddenList	Unsupported	Unsupported

Web Parts

Note that the table below is only applicable to built-in web parts of Microsoft 365, and the third-party web parts are not supported.

Data Types		Default/Custom App Profile	Service Account (Obsolete)
Blog	Blog Archives	Supported	Supported
	Blog Notifications	Supported	Supported
	Blog Tools	Supported	Supported

Data Types		Default/Custom App	Service Account
		Profile	(Obsolete)
Business Data	Business Data Actions	Supported	Supported
	Business Data Connectivity Filter	Supported	Supported
	Business Data Item	Supported	Supported
	Business Data Item Builder	Supported	Supported
	Business Data List	Supported	Supported
	Business Data Related List	Supported	Supported
	Excel Web Access	Supported	Supported
	Indicator Details	Supported	Supported
	Status List	Supported	Supported
	Visio Web Access	Supported	Supported
Community	About this community	Supported	Supported
	Join	Supported	Supported
	My membership	Supported	Supported
	Tools	Supported	Supported
	What's happening	Supported	Supported
Content Rollup	Categories	Supported	Supported
	Content Query	Supported	Supported
	Content Search	Unsupported	Unsupported
	Project Summary	Supported	Supported
	Relevant Documents	Supported	Supported
	RSS Viewer	Supported	Supported
	Site Aggregator	Supported	Supported
	Sites in Category	Supported	Supported
	Summary Links	Supported	Supported
	Table Of Contents	Partially Supported	Partially Supported
	Term Property	Supported	Supported
	Timeline	Supported	Supported
	WSRP Viewer	Supported	Supported
	XML Viewer	Supported	Supported
Document Sets	Document Set Contents	Supported	Supported
	Document Set Properties	Supported	Supported

Data Types		Default/Custom App	Service Account
		Profile	(Obsolete)
Duet Enterprise	Aggregated Business Calendar	Supported	Supported
	Documents	Supported	Supported
	Link Viewer	Supported	Unsupported
	My SAP Workflow Tasks	Supported	Supported
	Task Decision Makers	Supported	Supported
	Task Details	Supported	Supported
Filters	Apply Filters Button	Supported	Supported
	Choice Filter	Supported	Supported
	Current User Filter	Supported	Supported
	Date Filter	Supported	Supported
	Page Field Filter	Supported	Supported
	Query String (URL) Filter	Supported	Supported
	SharePoint List Filter	Supported	Supported
	SQL Server Analysis Services Filter	Supported	Supported
	Text Filter	Supported	Supported
Forms	HTML Form Web Part	Supported	Supported
	InfoPath Form Web Part	Supported	Supported
Media and Content	Content Editor	Supported	Supported
	Get started with your site	Supported	Supported
	Image Viewer	Supported	Supported
	Media Web Part	Supported	Supported
	Page Viewer	Supported	Supported
	Picture Library Slideshow Web Part	Supported	Supported
	Script Editor	Supported	Supported
	Silverlight Web Part	Supported	Supported
Search	Find by Document ID	Supported	Supported
	Refinement	Supported	Supported
	Search Box	Supported	Supported
	Search Navigation	Supported	Supported
	Search Results	Supported	Supported
	Taxonomy Refinement Panel	Supported	Supported

Data Types		Default/Custom App Profile	Service Account (Obsolete)
Search-Driven Content	Catalog-Item Reuse	Supported	Supported
Note: The Recently	Items Matching a Tag	Unsupported	Unsupported
Changed Items and Wiki Pages both display	Pages	Supported	Supported
real-time content and	Pictures	Supported	Supported
backup.	Popular Items	Supported	Supported
	Recently Changed Items	Supported	Supported
	Recommended Items	Supported	Supported
	Videos	Supported	Supported
	Web Pages	Supported	Supported
	Wiki Pages	Supported	Supported
Social Collaboration	Announcement Tiles	Supported	Supported
	Contact Details	Supported	Supported
	Note Board	Supported	Supported
	Organization Browser	Supported	Supported
	Site Feed	Unsupported	Unsupported
	Site Users	Supported	Supported
	Tag Cloud	Supported	Supported
	User Tasks	Supported	Supported

Others

Data Types			Default/Custom App Profile	Service Account (Obsolete)
Alert	Alert Configuration	Alert Title	Unsupported	Unsupported
		Change Type	Unsupported	Unsupported
		Delivery Method	Unsupported	Unsupported
		Send Alerts for These Changes	Unsupported	Unsupported
		Send Alerts To	Unsupported	Unsupported
		When to Send Alerts	Unsupported	Unsupported
	Alert Level	Alert on Document/Item	Unsupported	Unsupported
		Alert on Folder	Unsupported	Unsupported
		Alert on List/ Library	Unsupported	Unsupported

Data Types		Default/Custom App Profile	Service Account (Obsolete)
Арр	Provider Host App	Unsupported	Unsupported
	SharePoint Host App	Supported	Supported
Solution	User Solution	Supported	Supported
Discussion Board	Folder version	Unsupported	Unsupported

Hidden Lists

The following lists will not be included for backup by default. If you want to include the hidden lists, you can contact the <u>IBM Software Support</u> team for assistance.

- If a list or library is set to Hidden and the list or library is empty, the backup job will not include such hidden lists or libraries by default.
- Special lists, such as,
 - User Information
 - Workflow
 - wfpub
 - appdata
 - Workflow History
 - MicroFeed
 - SharingLinks
 - WebTemplateExtensionsList
 - Nintex Workflow
- The SYSTEM lists whose URL end with:

Relative URL	Title
/Lists/TaxonomyHiddenList	TaxonomyHiddenList
/Lists/ContentTypeSyncLog	Content type publishing error log
/Long Running Operation Status	Long Running Operation Status

The ghost files in the CATALOG lists whose URLs end with:

Relative URL	Title
/Style Library	Style Library
/_catalogs/masterpage	Master Page Gallery
/_catalogs/theme	Theme Gallery
/_catalogs/wp	Web Part Gallery

Modern Team Site Data Types

The table below shows the specific data types of Modern Team Site that are supported or unsupported in IBM Storage Protect for Cloud Microsoft 365.

Table 2. Data Types					
Data Types			Default/Custom App Profile	Service Account (Obsolete)	
Home page	Page Details	Thumbnail	Supported	Supported	
	Page Layout	Layout Options	Supported	Supported	
		Section background	Supported	Supported	

Table 2. Data Types (continued)				
Data Types		Default/Custom	Service Account	
		App Profile	(Obsolete)	
Web part	Text	Supported	Supported	
	Image	Supported	Supported	
	File viewer	Supported	Supported	
	Link	Supported	Supported	
	Embed	Supported	Supported	
	Highlighted content	Supported	Supported	
	Bing Maps	Supported	Supported	
	Code Snippet	Supported	Supported	
	Countdown Timer	Supported	Supported	
	Divider	Supported	Supported	
	Document Library	Supported	Supported	
	Events	Supported	Supported	
	Group Calendar	Supported	Supported	
	Hero	Supported	Supported	
	Image Gallery	Supported	Supported	
	Kindle Instant Preview	Supported	Supported	
	List	Supported	Supported	
	Markdown	Supported	Supported	
	Microsoft Forms	Supported	Supported	
	Note: The restore of this Web part cannot restore the connected forms.			
	Microsoft PowerApps	Supported	Supported	
	News	Supported	Supported	
	Page properties	Supported	Supported	
	People	Supported	Supported	
	Power BI	Supported	Supported	
	Quick chart	Supported	Supported	
	Quick links	Supported	Supported	
	Recent documents	Supported	Supported	
	Site activity	Supported	Supported	
	Sites	Supported	Supported	
	Spacer	Supported	Supported	

Table 2. Data Types (continued)				
Data Types		Default/Custom	Service Account	
		App Profile	(Obsolete)	
Web part	Stream (preview)	Supported	Supported	
	Twitter (preview)	inued) Perfault/Custom App Profile am (preview) Supported ather Supported a	Supported	
	Stream (preview)SupportedTwitter (preview)SupportedWeatherSupportedViva EngageSupportedYouTubeSupportedAsanaSupportedBitbucketSupportedBitbucket ServerSupportedButtonSupportedCall to actionSupportedConversationSupportedGithubSupportedGithub EnterpriseSupportedJiraSupportedMicrosoft 365 ConnectionsSupportedPlannerUnsupportedRSSSupported	Supported	Supported	
	Viva Engage	Supported	Supported	
	YouTube	Supported	Supported	
	Asana	Supported	Supported	
	Bitbucket	Supported	Supported	
	Bitbucket Server	Supported	Supported	
	Button	Supported	Supported	
	Call to action	Supported	Supported	
	Conversation	Supported	Supported	
	Github	Supported	Supported	
	Github Enterprise	Supported	Supported	
	Google Analytics	Supported	Supported	
	Jira	Supported	Supported	
	Microsoft 365 Connections	Supported	Supported	
	Planner	Unsupported	Supported	
	RSS	Supported	Supported	
	Stack Overflow	Supported	Supported	
	Trello	Supported	Supported	
	UserVoice	Supported	Supported	
	World clock	Supported	Supported	
	Wunderlist	Supported	Supported	
Site designs	Design	Supported	Supported	
	Script	Supported	Supported	

Project Online Data Types

The table below shows the Project Online data types that are supported or unsupported in IBM Storage Protect for Cloud Microsoft 365.

Note: Apart from the data types detailed below, the data types listed as unsupported in <u>"SharePoint Sites</u> Data Types" on page 174 are also unsupported in Project Online site collections.

Additional notes:

- Project Online data is not supported in app context (using app profile authentication).
- Project Online service cannot protect the **Project for the web** data due to the lack of APIs.

- Project Online service cannot fully support the data added through Project Online desktop client, for example, custom fields.
- Project Online service cannot protect the data types that can be created through Project Professionals but cannot be created through the Web interface, such as Global template, subproject, etc.

Top Level	Second Level	Third Level		Support Status
Strategy	Driver Library	Name and Description		Supported
		Departments	Supported	
		Status	Supported	
		Project Impact Statements	Supported	
	Driver Prioritization	Define properties	Name and Description	Supported
			Department	Supported
			Prioritization Type	Supported
			Prioritize the following drivers	Supported
		Prioritize Drivers		Supported
		Review Priorities	Review Priorities	
	Portfolio Analyses	Define properties	Name and Description	Supported
			Department	Supported
			Prioritization Type	Supported
			Prioritize these projects	Supported
			Analysis Primary Cost Constraint	Supported
			Resource Planning	Supported
			Planning Horizon and Granularity	Supported
			Resource role custom field	Supported
			Resource filtering	Supported
			Resource capacity impact for a project outside the analysis	Supported
			Project start and finish dates	Supported
			Alias project Force- in and Force-out options	Supported

The following table is provided for service account authentication.

Top Level	Second Level	Third Level		Support Status
		Prioritize Projects		Supported
	Review		eview Priorities	
		Analyze Cost		Supported
		Analyze Resources		Supported
		Project Dependencies		Supported
Project	Project	•	Project ID	Supported
			Project Name	Supported
			Start Time	Supported
			Finish Time	Supported
			%Complete	Supported
			Work	Supported
			Duration	Supported
			Owner	Supported
			Last Published	Unsupported
			Description	Supported
			Custom Fields	Supported
			Strategic Impact	Unsupported
			Timeline	Supported
			Workflow Instance	Unsupported
			Baseline	Unsupported
			Project Permissions	Supported

Top Level	Second Level	Third Level		Support Status
Project Tas	Project Tasks	•	Mode	Supported
			Task Name	Supported
			Unique ID	Unsupported
			Subtask	Supported
			Duration	Supported
			Start Time	Supported
			Finish Time	Supported
			%Complete	Supported
			Actual Work	Supported
			Work	Supported
			Resource Names	Supported
			Timeline	Supported
			Custom Fields	Unsupported
	Project Site		PWA Settings	Supported
			Custom SharePoint Site Content	Supported
Approvals				Supported

Project Professional

The table below lists the supported and unsupported data types of Project Professional.

Top Level	Second Level	Third Level	Support Status	
Project Information	Start date		Supported	
	Finish date		Unsupported	
	Current date		Supported	
	Status date		Supported	
	Schedule from Calendar Priority		Unsupported	
			Unsupported	
			Unsupported	
	Calculate Resource Utilization from		Unsupported	
	Department		Unsupported	
	Custom Field Name		Supported	
	Value		Partially supported	
Top Level	Second Level	Third Level		Support Status
------------------	--------------	---	-------------------	----------------
Project – Custom	Cost	Name		Supported
Fields		Custom attributes	Supported	
		Calculation for task and group summary rows	Supported	
		Calculation for assignment rows	Supported	
		Values to display	Supported	
	Date	Name		Supported
		Custom attributes		Supported
		Calculation for task a rows	and group summary	Supported
		Calculation for assig	nment rows	Supported
		Values to display		Supported
	Duration	Name		Supported
		Custom attributes		Supported
		Calculation for task and group summary rows		Supported
		Calculation for assignment rows		Supported
		Values to display		Supported
	Flag	Name	Supported	
		Custom attributes		Supported
		Calculation for task and group summary rows		Supported
		Calculation for assignment rows		Supported
		Values to display		Supported
	Number	Name		Supported
		Custom attributes		Supported
		Calculation for task and group summary rows		Supported
		Calculation for assig	nment rows	Supported
		Values to display		Supported
	Text	Name		Supported
		Custom attributes		Supported
		Calculation for task a rows	and group summary	Supported
		Calculation for assig	nment rows	Supported
		Values to display		Supported

Top Level	Second Level	Third Level		Support Status
Resource	Name	•		Supported
Information	Initials			Supported
	Max units	Unsupported		
	Base cal			Supported
	Group			Supported
	Code			Supported
	Costs	Std rate		Unsupported
		Ovt rate		Unsupported
		Per use		Unsupported
		Accrue at		Supported
Resource – Custom	Cost	Name		Unsupported
Fields		Custom attributes	Unsupported	
		Calculation for task and group summary rows	Unsupported	
		Calculation for assignment rows	Unsupported	
		Values to display	Unsupported	
	Date	Name	•	Unsupported
		Custom attributes		Unsupported
		Calculation for task and group summary rows		Unsupported
		Calculation for assig	nment rows	Unsupported
		Values to display		Unsupported
	Duration	Name		Unsupported
		Custom attributes		Unsupported
		Calculation for task rows	Unsupported	
		Calculation for assig	nment rows	Unsupported
		Values to display		Unsupported

Top Level	Second Level	Third Level	Support Status
	Finish	Name	Unsupported
		Custom attributes	Unsupported
		Calculation for task and group summary rows	Unsupported
		Calculation for assignment rows	Unsupported
		Values to display	Unsupported
	Flag	Name	Unsupported
		Custom attributes	Unsupported
		Calculation for task and group summary rows	Unsupported
		Calculation for assignment rows	Unsupported
		Values to display	Unsupported
	Number	Name	Unsupported
		Custom attributes	Unsupported
		Calculation for task and group summary rows	Unsupported
		Calculation for assignment rows	Unsupported
		Values to display	Unsupported
	Start	Name	Unsupported
		Custom attributes	Unsupported
		Calculation for task and group summary rows	Unsupported
		Calculation for assignment rows	Unsupported
		Values to display	Unsupported
	Text	Name	Unsupported
		Custom attributes	Unsupported
		Calculation for task and group summary rows	Unsupported
		Calculation for assignment rows	Unsupported
		Values to display	Unsupported
	Outline code	Name	Unsupported
		Custom attributes	Unsupported
		Calculation for task and group summary rows	Unsupported
		Calculation for assignment rows	Unsupported
		Values to display	Unsupported

Top Level	Second Level	Third Level		Support Status
Task Information	General	Name		Supported
		Duration	Unsupported	
		Estimated	Unsupported	
		Percent complete	Supported	
		Priority	Supported	
		Schedule Mode	Supported	
		Inactive	Supported	
		Dates Start	Supported	
		Dates Finish	Supported	
		Display on Timeline	Supported	
		Hide Bar	Unsupported	
		Rollup	Unsupported	
	Predecessors	Name		Supported
		Duration		Unsupported
		Estimated		Unsupported
		ID		Unsupported
		Task name		Unsupported
		Туре		Unsupported
		Lag		Unsupported
	Resources	Name		Supported
		Duration		Unsupported
		Estimated		Unsupported
		Resource name		Supported
		Assignment owner		Unsupported
		Request/demand		Unsupported
		Units		Unsupported
		Cost		Unsupported
	Advanced	Name		Supported
		Duration		Unsupported
		Estimated		Unsupported
		Deadline		Supported
		Constraint type		Unsupported

Top Level	Second Level	Third Level		Support Status	
Task Information	Advanced	Constraint date		Unsupported	
		Task type		Supported	
		Effort driven		Unsupported	
		Calendar		Unsupported	
		Scheduling ignores	resource calendars	Unsupported	
		WBS code		Unsupported	
		Earned value metho	d	Supported	
		Mark task as milesto	one	Unsupported	
	Notes	Name		Supported	
		Duration		Unsupported	
		Estimated		Unsupported	
		Format and font	Font	Unsupported	
			Font style	Unsupported	
			Size	Unsupported	
			Underline	Unsupported	
			Strikethrough	Unsupported	
			Color	Unsupported	
		Align left	Unsupported		
		Center	Unsupported		
		Align right	Unsupported		
		Bulleted list	Bulleted list		
		Insert object	Create new	Unsupported	
			Create from file	Unsupported	
			Link	Unsupported	
			Display as icon	Unsupported	
		Text	Special characters	Unsupported	
			Chinese	Unsupported	
	Custom fields	Name		Supported	
		Duration	Unsupported		
		Estimated		Unsupported	
		Custom Field Name		Supported	
		Value		Partially supported	

Top Level	Second Level	Third Level		Support Status
Task – Custom	Cost	Name		Unsupported
Fields		Custom attributes	Unsupported	
		Calculation for task and group summary rows	Unsupported	
		Calculation for assignment rows	Unsupported	
		Values to display	Unsupported	
	Date	Name	-	Unsupported
		Custom attributes		Unsupported
		Calculation for task a rows	and group summary	Unsupported
		Calculation for assignment rows		Unsupported
		Values to display		Unsupported
	Duration	Name		Unsupported
		Custom attributes		Unsupported
		Calculation for task and group summary rows		Unsupported
		Calculation for assignment rows		Unsupported
		Values to display		Unsupported
	Finish	Name		Unsupported
		Custom attributes		Unsupported
		Calculation for task and group summary rows		Unsupported
		Calculation for assig	nment rows	Unsupported
		Values to display		Unsupported
	Flag	Name		Unsupported
		Custom attributes		Unsupported
		Calculation for task rows	and group summary	Unsupported
		Calculation for assig	nment rows	Unsupported
		Values to display		Unsupported

Top Level	Second Level	Third Level	Support Status
Task – Custom Fields	Number	Name	Unsupported
Fields		Custom attributes	Unsupported
		Calculation for task and group summary rows	Unsupported
		Calculation for assignment rows	Unsupported
		Values to display	Unsupported
	Start	Name	Unsupported
		Custom attributes	Unsupported
		Calculation for task and group summary rows	Unsupported
		Calculation for assignment rows	Unsupported
		Values to display	Unsupported
	Text	Name	Unsupported
		Custom attributes	Unsupported
		Calculation for task and group summary rows	Unsupported
		Calculation for assignment rows	Unsupported
		Values to display	Unsupported
	Outline code	Name	Unsupported
		Custom attributes	Unsupported
		Calculation for task and group summary rows	Unsupported
		Calculation for assignment rows	Unsupported
		Values to display	Unsupported

PWA Settings

The table below lists the PWA Settings supported or unsupported for Project Online in IBM Storage Protect for Cloud Microsoft 365:

Top Level	Second Level	Third Level		Support Status		
Personal	Manage My	Tasks		Unsupported		
settings	Alerts and Reminders	Status Reports	Unsupported			
		Queue Job Failures	Unsupported			
		Language Setting	Unsupported			
	Manage My	My Team Members' Tasks	ł	Unsupported		
	Resources' Alerts and	My Resource Requests		Unsupported		
	Reminders	My Resources' Status Reports		Unsupported		
		Language Setting		Unsupported		
	Manage	Delegation		Supported		
	Delegates	Filters		Supported		
	Act as a Delegate	9		Unsupported		
	My Queued Jobs			Unsupported		
Look and feel	Manage Views Note: If the following views exist in the restore destination, the fields of the view in the backup that does not exist in destination will be added to the destination view, and the fields in the destination view that do not exist in the backup will not be removed: • Select Tasks for Timeline view for Project • Summary view for Resource Assignments • Details view for My Work • Resource Team Assignments view for Team Tasks • My Timesheet view for Timesheet • Summary view for Portfolio Analyses			Partially supported		
	Grouping format	Grouping formats				
	Gantt chart form	ats		Supported		
	Quick launch			Supported		
Workflow and	Enterprise	Name		Supported		
Project Detail Pages	project types	Description	Supported			
		Project ID	Supported			
		SharePoint Tasks List Project	Supported			
		Site Workflow Association Note: If the destination has a conflicting Enterprise project type, this setting will not be updated.	Partially supported			

Top Level	Second Level	Third Level			Support Status
Workflow and Project Detail Pages	Enterprise project types	New Project Page/Project Detail Pages Note: If the destination has a conflicting Enterprise	Partially supported		
		project type, this setting will not be updated.			_
		Default		Supported	
		Departments		Unsupported	
		Image		Supported	
		Order		Supported	
		Site Creation		Supported	
		Synchronization		Supported]
		Site Language		Supported	
		Site Template		Supported	
		Project Plan Tem	plate	Unsupported]
		System Identific	ation Data	Supported]
	Workflow	Name and	Name		Supported
	phases	Description	Description	Supported	
			System Identification Data	Supported	
	Workflow	Name and	Name		Supported
	stages	Description	Description	Supported	
		Description for Submit	Description (sub	mit)	Supported
		Workflow Phase			Supported
		Workflow Stage S	Status Project Det	ail Page	Supported
		Visible Project D	etail Pages		Supported
		Additional Settings for the Visible Project Detail Page			Supported
		Required Custon	n Fields		Supported
		Read Only Custom Fields			Supported
		Strategic Impact	Behavior		Supported
		Project Check-In	Required		Supported
		System Identification Data			Supported

Top Level	Second Level	Third Level			Support Status
Workflow and	Workflow Definit	ion			Supported
Project Detail Pages	Project detail pa	ges	_		Supported
Enterprise data	Enterprise	Enterprise	Name		Supported
ar	and lookup	Custom Fields	Description	Supported	
	tables		Entity and Type	Supported	
			Custom Attributes	Supported	
			Department	Unsupported	
			Calculation for Summary Rows	Supported	
			Calculation for Assignment Rows	Supported	
			Values to Display	Supported	
			Behavior	Supported	
			System Identification Data	Supported	
			Last Updated	Unsupported	
			System Identification Data	Supported	
		Lookup Tables	Name		Supported
		for Custom Fields	Туре	Partially supported	
		Note: If there are conflicts, the Type Code	Code Mask	Partially supported	
		Mask, and	Lookup Table	Supported	1
		Lookup Table fields will not be updated.	Last Updated	Partially supported	
	Enterprise calend	dars			Partially
	Note: Due to the restored.	Enterprise calendars Note: Due to the API limitations, the Work Weeks cannot be restored.			

Top Level	Second Level	Third Level		Support Status
Enterprise data	Resource center	Туре	Туре	Supported
		Note: If there are conflicts, the Budget, and Generic fields will	Budget	Partially supported
		not be updated.	Generic	Partially supported
		Identification Information	Display Name	Supported
			Email Address	Supported
			RBS	Unsupported
			Initials	Supported
			Hyperlink Name	Unsupported
			Hyperlink URL	Unsupported
			Account Status	Supported
		Assignment Attributes Note: If there are conflicts, the Base Calendar, Timesheet Manager, Default Assignment Owner, Earliest Available, and the Latest Available fields will not be updated.	Resource requires approval for all project assignments	Supported
			Resource can be leveled	Supported
			Base Calendar	Partially supported
			Default Booking Type	Supported
			Timesheet Manager	Partially supported
			Default Assignment Owner	Partially supported
			Earliest Available	Partially supported
			Latest Available	Partially supported
			Standard Rate	Unsupported
			Overtime Rate	Unsupported
			Current [®] Max. Units (%)	Unsupported
			Cost/Use	Unsupported

Top Level	Second Level	Third Level		Support Status
Enterprise data	Resource	Departments		Supported
	center	Resource Custom Fields		Supported
		Security Groups		Supported
		Security Categories		Supported
		Global Permissions		Supported
		Group Fields	Group	Supported
			Code	Supported
			Cost Center	Supported
			Cost Type	Unsupported
		Team Details	Team Assignment Pool	Supported
			Team Name	Supported
		System Identification Data		Supported
	Reporting	Timephased Data		Supported
Time and task	Fiscal periods	Manage Fiscal Period		Supported
management		Adjust Fiscal Months	Supported	
	Time Reporting	Define Bulk Period Parameters	Supported	
	Periods	Define Batch Naming Convention	Supported	
		Create Periods	Supported	
	Line classifications	Edit, Enter Line Classification		Supported
	Timesheet	Project Web App Display		Supported
	Defaults	Default Timesheet Creation Mode		Supported
		Timesheet Grid Column Units		Supported
		Default Reporting Units		Supported
		Hourly Reporting Limits		Supported
		Timesheet Policies		Supported
		Auditing		Supported
		Approval Routing		Supported
		Single Entry Mode	Supported	

Top Level	Second Level	Third Level		Support Status
Time and task	Administrative Ti	ime		Supported
management	Task Settings	Tracking Method		Supported
	and Display	Reporting Display		Supported
		Protect User Updates		Supported
		Define Near Future Planning Wind	ow	Supported
		Team Tasks and the Team Assignn	nent Pool	Supported
	Manage Timeshe	eets		Unsupported
	Timesheet Mana	gers		Unsupported
Queue and	Manage Queue	Filter Type		Unsupported
Administration	Jobs	Job History	Unsupported	
		Job Types	Unsupported	
		Job Completion States	Unsupported	
		Columns	Unsupported	
		Advanced Options	Unsupported	
		Jobs Grid (View, Retry, or Cancel Jobs):	Unsupported	
Operational	Additional	Project Professional Versions		Supported
Policies	Server Settings	Enterprise Settings	Supported	
		Currency Settings	Supported	
		Resource Capacity Settings	Supported	
		Full-time Equivalent Calculation	Supported	
		Task Mode Settings	Supported	
		Notification Email Settings	Supported	
	Active Directory	Active Directory Group	Partially	
	Resource Pool Synchronization	Note: Cannot be restored to another tenant.		supported
		Synchronization Status		Supported
		Sync options		Supported

Top Level	Second Level	Third Level	Support Status	
Security	Manage Users	Identification Information	Supported	
		User Authentication	Supported	
		Departments	Supported]
		Security Groups	Supported]
		Security Categories	Supported]
		Global Permissions	Supported]
	Manage Groups	Group Information		Supported
		Active Directory Group		Partially
		Note: Cannot be restored to anoth	supported	
		Users		Supported
		Categories		Supported
		Global Permissions		Supported
	Manage Categories	Name and Description	Supported	
		Projects		Supported
		Resources		Supported
		Views		Supported
		Permissions		Supported
	Manage	Name		Supported
	Templates	Category Permissions		Supported
		Global Permissions		Supported
	Manage User	Sync Options		Supported
	Sync Settings	Sync Status		Supported
	Manage	Set Delegation Period		Supported
	Delegates	Set Delegate		Supported
		Working on Behalf of		Supported

Exchange Online Data Types

The table below lists the data types supported or unsupported for Exchange Online in IBM Storage Protect for Cloud Microsoft 365:

- Folder permissions are not supported.
- By default, the **Deleted Items** folder and the **Junk Emails** folder will be excluded from the backup for better performance. If you want to include the folders in your backup, contact <u>IBM Software Support</u> for assistance.

Data Types		Check Points	Default/Custom App Profile	Service Account (Obsolete)
Different types of	User's mailbox		Supported	Supported
Mailboxes	In-Place Archived Mailboxes		Supported	Supported
	Note: IBM Storage Protect for Cloud Microsoft 365also protects the archived mailboxes that have been auto-expanded.			
	The PersonMetadata folder in the user's mailbox is excluded from backup as a system folder. However, the PersonMetadata folder in the in-place archived mailbox is not a system folder and can be protected.			
	Resource (Room and Equipment) Mailboxes		Supported	Supported
	Shared Mailboxes		Supported	Supported

Data Types		Check Points	Default/Custom	Service Account
			Арр Ргопіе	(Obsolete)
Different types of	Calendar	Long name, special	Supported	Supported
Folders	Contacts	characters, and display languages	Supported	Supported
not supported.	Note: Unsupported in GCC High environment	Folders in the same name		
	Conversation History		Supported	Supported
	Deleted Items		Supported	Supported
	Drafts		Supported	Supported
	Inbox		Supported	Supported
	Journal		Supported	Supported
	Note: For the attachment of the Journal item that is added by the Insert pictures feature via Outlook desktop app, the attached picture cannot display after the restore. In the West Europe (Netherlands) data center, the body content of the journal in RTF format cannot display after the restore.			
	Junk Email		Supported	Supported
	Notes®		Supported	Supported
	Outbox		Supported	Supported
	RSS Feeds		Supported	Supported
	Sub Folder		Supported	Supported
	Sent Items		Supported	Supported
	Tasks		Supported	Supported

Data Types		Check Points	Default/Custom	Service Account
			App Profile	(Obsolete)
Different types of Items and Item Properties	Mail	Content	Supported	Supported
		Sender	Supported	Supported
		Recipient (Including CC and BCC)	Supported	Supported
		Attachment	Supported	Supported
		Sent time	Supported	Supported
		Category	time Supported Supported gory Supported Supported wup Supported Supported /Unread Supported Supported rtance Supported Supported ted pictures Supported Supported bles Supported Supported ard Supported Supported ard Supported Supported art word, al character, lisplay	
		Follow up	Supported	Supported
		Read/Unread	Supported	Supported
		Importance	Supported	Supported
		Inserted pictures or tables	Supported	Supported
		Signature	Supported	Supported
		Forward	Supported	Supported
		Reply	Supported	Supported
		Font, art word, special character, and display languages	Supported	Supported
		Sort (by size; by conversation)	Supported	Supported
	Post	Intact content	Supported	Supported
		Post location	Supported	Supported
		Category	Supported	Supported
		Follow up	Supported	Supported
		Read/Unread	Supported	Supported
		Inserted pictures or tables	Supported	Supported
		Forward	Supported	Supported
		Reply	Supported	Supported
		Font, art word, special character, and display languages	Supported	Supported

Data Types		Check Points	Default/Custom	Service Account
			App Profile	(Obsolete)
	Appointment	Event	Supported	Supported
		Location	Supported	Supported
		Attendees	Supported	Supported
		Start time	Supported	Supported
		End time	Supported	Supported
		Duration	Supported	Supported
		Reminder	Supported	Supported
		Show as	Supported	Supported
		Repeat	Supported	Supported
		Mark as	Supported	Supported
		Online meeting	Supported	Supported
		Attachment	Supported	Supported
		Picture	Supported	Supported
		Category	Supported	Supported
		Font, art word, special character, and display languages	Supported	Supported
	Meeting	Event	Supported	Supported
		Location	Supported	Supported
		Attendees	Supported	Supported
		Start time	Supported	Supported
		End time	Supported	Supported
		Duration	Supported	Supported
		Reminder	Supported	Supported
		Show as	Supported	Supported
		Repeat	Supported	Supported
		Mark as	Supported	Supported
		Online meeting	Supported	Supported
		Attachment	Supported	Supported
		Picture	Supported	Supported
		Category	Supported	Supported
		Font, art word, special character, and display languages	Supported	Supported

Data Types		Check Points	Default/Custom	Service Account
			App Profile	(Obsolete)
	Contact Note: Unsupported	Name (Full name; First name; Middle name; Last name)	Supported	Supported
	environment	Email (display as)	Supported	Supported
		Phone	Supported	Supported
		IM	Supported	Supported
		Work	Supported	Supported
		Address	Supported	Supported
		Notes	Supported	Supported
		Other	Supported	Supported
		Picture	Supported	Supported
		Private	Supported	Supported
		Follow up	Supported	Supported
		Category	Supported	Supported
		Linked in	Supported	Supported
	Contact group	Member	Supported	Supported
	Note: Unsupported in GCC High environment	Group Settings	Supported	Supported
	Task	Content	Supported	Supported
		Attachment	Supported	Supported
		Inserted pictures or tables	Supported	Supported
		Font, art word, special character, and display languages	Supported	Supported
		From	Supported	Supported
		Assign to	Supported	Supported
		Details	Supported	Supported
		Recurrence	Supported	Supported
		Category	Supported	Supported
		Follow up	Supported	Supported
		Importance	Supported	Supported
		Private	Supported	Supported
		Status	Supported	Supported
		Complete	Supported	Supported

Data Types		Check Points	Default/Custom	Service Account
			App Profile	(Obsolete)
		Start date	Supported	Supported
		Due date	Supported	Supported
		Alert	Supported	Supported
	Task request	Content	Supported	Supported
		Attachment	Supported	Supported
		Inserted pictures or tables	Supported	Supported
		Font, art word, special character, and display languages	Supported	Supported
		From	Supported	Supported
		Assign to	Supported	Supported
		Details	Supported	Supported
		Recurrence	Supported	Supported
		Category	Supported	Supported
		Follow up	Supported	Supported
		Importance	Supported	Supported
		Private	Supported	Supported
		Status	Supported	Supported
		Complete	Supported	Supported
		Start date	Supported	Supported
		Due date	Supported	Supported
		Alert	Supported	Supported
	Note	Content	Supported	Supported
		Special character and display language	Supported	Supported
		Category	Supported	Supported
	Journal Entry	Туре	Supported	Supported
		Subject	Supported	Supported
		Start time	Supported	Supported
		Duration	Supported	Supported
		Contact	Supported	Supported
		Category	Supported	Supported
		Content	Supported	Supported

Data Types		Check Points	Default/Custom App Profile	Service Account (Obsolete)
Conversation	Conversation	Participants	Supported	Supported
		Content	Supported	Supported
		Subject	Supported	Supported
		Modes	Supported	Supported
		Category	Supported	Supported
		Follow up	Supported	Supported
		Read/Unread	Supported	Supported
		Hyperlink	Supported	Supported
		Font, art word, special character, and display languages	Supported	Supported

Public Folders Data Types

Refer to the table below for the supported and unsupported data types of Public Folders in IBM Storage Protect for Cloud Microsoft 365.

Note: If the URL or the name of an object in Public Folder contains "\", "\" will be replaced by "/" on Restore overview page.

Object Level		Check Points	Default/ Custom App Profile	Service Account (Obsolete)
Mail and Post items	Mail	Content	Supported	Supported
		Sender	Supported	Supported
		Recipient (Including CC and BCC)	Supported	Supported
		Attachment	Supported	Supported
		Sent time	Supported	Supported
		Category	Supported	Supported
		Read/Unread	Supported	Supported
		Importance	Supported	Supported
		Inserted pictures or tables	Supported	Supported
		Signature	Supported	Supported
		Forward	Supported	Supported
		Reply	Supported	Supported

Object Level		Check Points	Default/ Custom App Profile	Service Account (Obsolete)
Contact items	Contact	Name (Full name; First name; Middle name; Last name)	Supported	Supported
		Email (Display as)	Supported	Supported
		Phone	Supported	Supported
		IM	Supported	Supported
		Work	Supported	Supported
		Address	Supported	Supported
		Notes	Supported	Supported
		Other	Supported	Supported
		Picture	Supported	Supported
		Private	Supported	Supported
		Category	Supported	Supported
Info Path Form	Mail	Content	Supported	Supported
Items		Sender	Supported	Supported
		Recipient (Including CC and BCC)	Supported	Supported
		Attachment	Supported	Supported
		Sent time	Supported	Supported
		Category	Supported	Supported
		Read/Unread	Supported	Supported
		Importance	Supported	Supported
		Inserted pictures or tables	Supported	Supported
		Signature	Supported	Supported
		Forward	Supported	Supported
		Reply	Supported	Supported
Note items	Note	Content	Supported	Supported
		Category	Supported	Supported

Object Level		Check Points	Default/ Custom App Profile	Service Account (Obsolete)
Task items	Task request	Content	Supported	Supported
		Attachment	Supported	Supported
		Inserted pictures or tables	Supported	Supported
		From	Supported	Supported
		Assign to	Supported	Supported
		Details	Supported	Supported
		Recurrence	Supported	Supported
		Category	Supported	Supported
		Follow up	Supported	Supported
		Importance	Supported	Supported
		Private	Supported	Supported
		Status	Supported	Supported
		Complete	Supported	Supported
		Start date	Supported	Supported
		Due date	Supported	Supported
		Remember	Supported	Supported
Journal items	Journal Entry	Туре	Supported	Supported
		Subject	Supported	Supported
		Start time	Supported	Supported
		Duration	Supported	Supported
		Contact	Supported	Supported
		Category	Supported	Supported
		Content	Supported	Supported

Object Level		Check Points	Default/ Custom App Profile	Service Account (Obsolete)
Calendar items	Appointment	Event	Supported	Supported
		Location	Supported	Supported
		Attendees	Supported	Supported
		Start time	Supported	Supported
		End time	Supported	Supported
		Duration	Supported	Supported
		Reminder	Supported	Supported
		Show as	Supported	Supported
		Repeat	Supported	Supported
		Mark as Complete	Supported	Supported
		Meeting	Supported	Supported
		Attachment	Supported	Supported
		Inserted pictures	Supported	Supported
		Category	Supported	Supported
		Font, art word, special character, and display languages	Supported	Supported
	Meeting	Event	Supported	Supported
		Location	Supported	Supported
		Attendees	Supported	Supported
		Start time	Supported	Supported
		End time	Supported	Supported
		Duration	Supported	Supported
		Reminder	Supported	Supported
		Show as	Supported	Supported
		Repeat	Supported	Supported
		Mark as	Supported	Supported
		Online meeting	Supported	Supported
		Attachment	Supported	Supported
		Inserted pictures	Supported	Supported
		Category	Supported	Supported
		Font, art word, special character, and display languages	Supported	Supported

Object Level		Check Points	Default/ Custom App Profile	Service Account (Obsolete)
Metadata	Enable	Enable	Supported	Supported
		Disable	Supported	Supported
	Folder Permission	User	Supported	Supported
		Group	Supported	Supported
	General	Name	Supported	Supported
		Path	Supported	Supported
		Total items	Supported	Supported
		Size	Supported	Supported
		Public folder mailbox	Supported	Supported
		Modified	Supported	Supported
		Maintain per-user read and unread information for this public folder	Supported	Supported
	Statistics	Associated items	Supported	Supported
		Deleted items	Supported	Supported
		Total size of associated items (MB)	Supported	Supported
		Total size of deleted items (MB)	Supported	Supported
		Owner count	Supported	Supported
		Contact count	Supported	Supported
		Last modified time	Supported	Supported
	Limits	Use organization quota defaults	Supported	Supported
		Issue warning at (MB)	Supported	Supported
		Prohibit post at (MB)	Supported	Supported
		Maximum item size: (MB)	Supported	Supported
		Use organization retention defaults	Supported	Supported
		Retain deleted items for (days)	Supported	Supported
		Use organization age limit defaults	Supported	Supported
		Age limit for folder content (days)	Supported	Supported

Microsoft 365 Groups Data Types

Refer to the table below for the supported and unsupported data types of Microsoft 365 Groups in IBM Storage Protect for Cloud Microsoft 365.

Note: IBM Storage Protect for Cloud Microsoft 365 Groups can protect the Microsoft 365 Group team sites for the teams that are created in Microsoft Teams.

To protect Planner data in app context, you can now go to the App Management page in IBM Storage Protect for Cloud interface to configure a Microsoft delegated app for IBM Storage Protect for Cloud Microsoft 365 with the Protect Planner data option selected. The authentication user of this delegated app must have the Global administrator role and the Exchange license. When you are using app profile authentication for Auto Discovery, IBM Storage Protect for Cloud Microsoft 365 will use this delegated app for the backup and restore of the Planner data.

For the support status of data types in the Microsoft 365 Groups team site, refer to <u>"SharePoint Sites Data</u> Types" on page 174.

Object Lev	<i>r</i> el	Details	Default/ Custom App Profile	Service Account (Obsolete)	Note
		Content	Supported	Supported	
		Sender	Supported	Supported	
		Recipient (Including CC and BCC)	Supported	Supported	
		Attachment	Supported	Supported	
		Sent time	Supported	Supported	
		Category	Supported	Supported	
		Follow up	Supported	Supported	
	Conversations (Mails)	Read/ Unread	Supported	Supported	
Microsoft		Importance	Supported	Supported	
365 Group Mailbox		Inserted pictures or tables	Supported	Supported	
		Signature	Supported	Supported	
		Forward	Supported	Supported	
		Reply	Supported	Supported	
		Font, art word, special character, and display languages	Supported	Supported	
		Sort (by size; by conversation)	Supported	Supported	

Object Level		Details	Default/ Custom App Profile	Service Account (Obsolete)	Note	
	Calendar	Appointments	Event	Supported	Supported	
			Location	Supported	Supported	
			Attendees	Supported	Supported	
			Start time	Supported	Supported	
			End time	Supported	Supported	

Object Lev	el		Details	Default/ Custom App Profile	Service Account (Obsolete)	Note
			Duration	Supported	Supported	
			Reminder	Supported	Supported	
			Show as	Supported	Supported	
			Repeat	Supported	Supported	
			Mark as	Supported	Supported	
			Online meeting	Supported	Supported	
			Attachment	Supported	Supported	
			Picture	Supported	Supported	
			Category	Supported	Supported	
			Font, art word, special character, and display languages	Supported	Supported	
		Meetings	Event	Supported	Supported	
			Location	Supported	Supported	
			Attendees	Supported	Supported	
			Start time	Supported	Supported	
			End time	Supported	Supported	
			Duration	Supported	Supported	
			Reminder	Supported	Supported	
			Show as	Supported	Supported	
			Repeat	Supported	Supported	
			Mark as	Supported	Supported	
			Online meeting	Supported	Supported	
			Attachment	Supported	Supported	
			Picture	Supported	Supported	
			Category	Supported	Supported	
			Font, art word, special character, and display languages	Supported	Supported	

Object Lev	vel		Details	Default/ Custom App Profile	Service Account (Obsolete)	Note
Group Typ	e	Microsoft 365 Gr	oup	Supported	Supported	
		Distribution Grou	р	Unsupported	Unsupported	
		Mail-enabled Sec	curity Group	Unsupported	Unsupported	
		Security Group		Unsupported	Unsupported	
Group set	ting	Follow in inbox		Unsupported	Unsupported	
Planner	Board	Bucket		Supported	Supported	
Note: Without		Task	Task Member	Supported	Supported	
Delegate			Progress	Supported	Supported	
d app			Start Time	Supported	Supported	
d, the			Due Date	Supported	Supported	
planner data is			Description	Supported	Supported	
unsuppor			Checklist	Supported	Supported	
ted in app			Attachment	Supported	Supported	
context.			Comments	Supported	Supported	
			Label	Supported	Supported	
			Priority	Supported	Supported	
	Chart	Status		Supported	Supported	
		Member		Supported	Supported	

Object Level		Details	Default/ Custom App Profile	Service Account (Obsolete)	Note
Group Information	Name		Supported	Supported	
	Description		Supported	Supported	
	Privacy		Supported	Supported	
	Hide from my org global address li	ganization's st	Unsupported	Unsupported	
	Aliases	Aliases		Unsupported	
	Send copies of group conversations and events to group members' inboxes		Unsupported	Supported	
	Let people outsic organization ema	de the ail the group	Unsupported	Supported	
	Language for gro notifications	oup-related	Unsupported	Unsupported	
	Manage group er	mail setting	Unsupported	Unsupported	
	Send all group conversations and events to members' inboxes. They can stop following this group later if they want to		Unsupported	Supported	API limitation
Group Membership			Supported	Supported	

Teams Data Types

For the support status of Teams data types, note the following and refer to the tables in the following sections:

- With the update of Teams API, Teams can now be protected by using app profile authentication. By leveraging App Context when connecting your Microsoft 365 environment to IBM Storage Protect for Cloud, IBM does not store any of your administrative credentials (only consent) and will not require service users to be the owners and members of your Teams in order to manage and protect them. With this update, many of the per-user throttling limits that are common with service accounts can be avoided.
- The restore of the Team's owner and members may take a couple of hours to synchronize to the destination Teams interface. In addition, the guest users in Teams cannot be restored due to API limitations.
- Private Channels in Teams can now be protected with limitations. For details, refer to <u>"Components in</u> Private/Shared Channels" on page 241.
- IBM Storage Protect for Cloud Microsoft 365 does not support protecting Teams Chats (personal chats).
- For the support status of data types in the team's Team site, refer to <u>"SharePoint Sites Data Types" on</u> page 174.
- Most tab types can be created, but many cannot be configured currently through the API. For the support of tabs, the current release is designed to recover the tabs that have been deleted. The current release does not support updating existing tabs to previous settings and configurations apart from the following five tabs: Planner, Word, Excel, PowerPoint, and PDF.

Note: If you have performed a restore for any tabs in one of the six types before and at that time the configurations were not being restored to the destination, you can now remove that tab from the Team and run the restore job again. The configurations can be restored properly.

Refer to the following tables:

- "Components in Teams Channel" on page 235
- "Components in Private/Shared Channels" on page 241
- <u>"Settings and Permissions" on page 247</u>
- "Planner Data" on page 250
- "SharePoint Sites Data Types" on page 174
- <u>"Archived Teams" on page 251</u>

Components in Teams Channel

Refer to the following table for the supported and unsupported status of the components in Channel, and the supported and unsupported status for the data that are added or attached to the Channel through the corresponding methods.

Conversations

Note the following for Conversations:

- Conversations can be restored as posts or to HTML files.
 - If the conversations are restored to HTML files, these restored files are stored in the Files tab. To
 open or download the attached files in the restored conversation, you can right-click the file link
 and select Open in new tab or Open in new window. Note that due to the API limitations, the
 conversation time in the restored HTML file is UTC time.
 - Currently, the restore as posts feature only works under the circumstance where you are using service account authentication to scan Teams and have a Microsoft Delegated app configured in your tenant.
- Tab conversations will be restored with Channel conversations to HTML files or posts.
- The conversations that are generated by creating meetings will be restored with no details.
- If Teams has a new app installed, a conversation for the new app will be started. After the conversation is restored to the HTML file, there may be extra strings and lines displayed in the HTML file.

Components/Properties		Default/Cus Profile	stom App	Service Account (Obsolete)		Comment
		Restore to HTML file	Restore as Posts	Restore to HTML file	Restore as Posts	
Format	Add subject	Supported	Supported	Supported	Supported	
	Mention/Ta g (@)	Supported	Supported	Supported	Supported	The link cannot be kept after being restored to the HTML file.
	Bold	Supported	Supported	Supported	Supported	
	Italic	Supported	Supported	Supported	Supported	
	Underline	Supported	Supported	Supported	Supported	
	Strikethrou gh	Supported	Supported	Supported	Supported	
	Text highlight color	Supported	Supported	Supported	Supported	
	Font color	Supported	Supported	Supported	Supported	
	Font size	Supported	Supported	Supported	Supported	
	Monospace d	Supported	Supported	Supported	Supported	
	Heading	Supported	Supported	Supported	Supported	
	Paragraph	Supported	Supported	Supported	Supported	
	Decrease indent	Supported	Supported	Supported	Supported	
	Increase indent	Supported	Supported	Supported	Supported	
	Bulleted list	Supported	Supported	Supported	Supported	
	Numbered list	Supported	Supported	Supported	Supported	

Components/Properties		Default/Cus Profile	stom App	Service Account (Obsolete)		Comment
		Restore to HTML file	Restore as Posts	Restore to HTML file	Restore as Posts	
	Quote	Supported	Supported	Supported	Supported	
	Insert link	Partially Supported	Supported	Supported	Partially Supported	
	Code Snippet	Supported	Unsupport ed	Unsupport ed	Supported	API limitation
	Inset horizontal rule	Supported	Supported	Supported	Supported	
	Insert table	Supported	Supported	Supported	Supported	
	Mark as important	Supported	Supported	Supported	Supported	
	Show for me	Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	API limitation
	Show for members	Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	API limitation
Post in multiple channels		Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	
Announcement type post's specific elements	Backgroun d	Unsupport ed	Unsupport ed	Unsupport ed	Supported	
	Icon	Unsupport ed	Unsupport ed	Unsupport ed	Supported	
	Color scheme	Unsupport ed	Unsupport ed	Unsupport ed	Supported	
	Subheader	Supported	Supported	Supported	Supported	
	Headline	Unsupport ed	Unsupport ed	Unsupport ed	Supported	
Attach:	Recent	Supported	Supported	Supported	Supported	
Note: In the restored HTML file, you can right- click the file link and	Browse Teams and Channels	Supported	Supported	Supported	Supported	
then click Open in new	OneDrive	Supported	Supported	Supported	Supported	
window to open or download the file.	Upload from my computer	Supported	Supported	Supported	Supported	
Emoji		Supported	Supported	Supported	Supported	
Giphy		Supported	Supported	Supported	Supported	
Praise		Supported	Unsupport ed	Unsupport ed	Partially Supported	
Sticker		Supported	Supported	Supported	Supported	

Components/Properties	Default/Cus Profile	stom App	Service Acc (Obsolete)	Comment	
	Restore to HTML file	Restore as Posts	Restore to HTML file	Restore as Posts	
Stream	Unsupport ed	Supported	Unsupport ed	Supported	
Form	Unsupport ed	Supported	Unsupport ed	Partially Supported	
News	Partially Supported	Supported	Partially Supported	Partially Supported	
Places	Partially Supported	Supported	Partially Supported	Partially Supported	The links in the Stocks,
Stocks	Unsupport ed	Unsupport ed	Unsupport ed	Partially Supported	Weather, Places, and Wikipedia
Weather	Partially Supported	Partially Supported	Partially Supported	Partially Supported	data cannot be
Wikipedia Search	Partially Supported	Partially Supported	Partially Supported	Partially Supported	and the map in the restored Places is not available. To view the map in the restored Places, access Teams using the same browser, and then reopen the restored file.
YouTube	Partially Supported	Partially Supported	Partially Supported	Partially Supported	
Post	Supported	Supported	Supported	Supported	
Voice Message	Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	
Reply	Supported	Supported	Supported	Supported	
Edit Post/Reply	Partially Supported	Unsupport ed	Partially Supported	Unsupport ed	The Edited status of a post or reply cannot be kept.

Components/Properties		Default/Cus Profile	stom App	Service Account (Obsolete)		Comment
		Restore to HTML file	Restore as Posts	Restore to HTML file	Restore as Posts	
Delete post/	Reply	Unsupport ed	Supported	Unsupport ed	Supported	The message for a post or a reply being deleted cannot be kept.
Notification		Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	
Mark as unre	ead	Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	
Like/Unlike		Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	
Copy Link		Supported	Supported	Supported	Supported	
The "Save th	iis message" mark	Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	
Get email address	Send email to channel	Partially supported	Unsupport ed	Partially supported	Unsupport ed	The To informatio n and the Download original email link are not kept in the restored HTML file.

Others

Object	Component/F	Property Default/Custo Profile		om App	Service Account	Comment
Files	New	Folder		Supported	Supported	
		Word document	Supported	Supported		
		Excel spreadsheet	Supported	Supported		
		PowerPoint presentation	Supported	Supported		
		OneNote notebook	Supported	Supported		
		Forms for Excel	Supported	Supported		
	Send email to	channel		Supported	Supported	
	Upload			Supported	Supported	
	Add cloud	SharePoint		Unsupported	Unsupported	API limitation
	storage	Dropbox		Unsupported	Unsupported	
		Box		Unsupported	Unsupported	
		ShareFile		Unsupported	Unsupported	
		Google Drive		Unsupported	Unsupported	
Object	Component/Property	Default/Cust Profile	tom App	Service Account	Comment	
----------	--------------------	-------------------------	------------------------	------------------------	--	
Tab	Add a tab		Supported	Supported	Restore job supports adding your tabs back.	
	Word		Supported	Supported	Supports	
	Excel				tabs back	
	PowerPoint				and update	
	PDF				the previous	
	Document library	Document library			settings and	
	Planner				s.	
	Other tabs		Partially supported	Partially supported	Apart from the six tabs above, the restore for tabs now can only support adding them back. You must manually configure the tab settings to connect your data source.	
Meetings	Body		Supported	Supported		
	Title		Supported	Supported		
	Location		Supported	Supported		
	Start Time		Supported	Supported		
	End Time		Supported	Supported		
	Details		Supported	Supported		
	Channel		Supported	Supported		
	Invite People		Supported	Supported		
	Organizer		Supported	Supported		

Components in Private/Shared Channels

Refer to the following table for the supported and unsupported status of the components in private or shared channels, and the supported and unsupported status for the data that is added or attached to the private/shared channels through the corresponding methods.

Note the following for the private/shared channels:

• If you are using service account authentication for the backup of Teams' Private Channel, the service account must be the owner of the Private Channel.

• Private/shared channels can only be restored through the time-based restore wizard, and private/ shared channels do not support out-of-place restore.

Conversations

Components/Properties		App Profile	App Profile		Service Account (Obsolete)	
		Restore to HTML file	Restore as Posts	Restore to HTML file	Restore as Posts	
Format	Add subject	Supported	Supported	Supported	Supported	
	Mention (@)	Supported	Supported	Supported	Supported	
	Bold	Supported	Supported	Supported	Supported	
	Italic	Supported	Supported	Supported	Supported	
	Underline	Supported	Supported	Supported	Supported	
	Strikethrou gh	Supported	Supported	Supported	Supported	
	Text highlight color	Supported	Supported	Supported	Supported	
	Font color	Supported	Supported	Supported	Supported	
	Font size	Supported	Supported	Supported	Supported	
	Monospace d	Supported	Supported	Supported	Supported	
	Heading	Supported	Supported	Supported	Supported	
	Paragraph	Supported	Supported	Supported	Supported	
	Decrease indent	Supported	Supported	Supported	Supported	
	Increase indent	Supported	Supported	Supported	Supported	
	Bulleted list	Supported	Supported	Supported	Supported	
	Numbered list	Supported	Supported	Supported	Supported	
	Quote	Supported	Supported	Supported	Supported	
	Insert link	Partially Supported	Partially Supported	Partially Supported	Partially Supported	Cannot preview the link
	Code Snippet	Supported	Supported	Supported	Supported	
	Inset horizontal rule	Supported	Supported	Supported	Supported	
	Insert table	Supported	Partially Supported	Supported	Partially Supported	
	Mark as important	Supported	Supported	Supported	Supported	

Components/Properties		App Profile		Service Account (Obsolete)		Comment
		Restore to HTML file	Restore as Posts	Restore to HTML file	Restore as Posts	
Post in multiple channels			Unsupport ed	Unsupport ed	Unsupport ed	
Announcement type post's specific elements	Backgroun d	Unsupport ed	Unsupport ed	Unsupport ed	Supported	
	Color scheme	Unsupport ed	Supported	Unsupport ed	Supported	
	Subheader	Supported	Supported	Supported	Supported	
	Headline	Unsupport ed	Supported	Unsupport ed	Supported	
Attach:	Recent	Partially Supported	Supported	Partially Supported	Supported	
HTML file, you can right- click the file link and then click Open in new	Browse Teams and Channels	Partially Supported	Supported	Partially Supported	Supported	
tab or Open in new window to open or download the file.	OneDrive	Partially Supported	Supported	Partially Supported	Supported	
	Upload from my computer	Partially Supported	Supported	Partially Supported	Supported	
Emoji		Supported	Supported	Supported	Supported	
Giphy		Supported	Supported	Supported	Supported	
Sticker		Partially Supported	Supported	Partially Supported	Supported	
Post		Supported	Supported	Supported	Supported	
Voice Message		Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	
Reply		Supported	Supported	Supported	Supported	
Edit Post/Reply		Partially Supported	Partially Supported	Partially Supported	Unsupport ed	The Edited status of a post or reply cannot be kept.
Delete post/Reply		Unsupport ed	Unsupport ed	Unsupport ed	Supported	The message for a post or a reply being deleted cannot be kept.

Components/Properties		App Profile	App Profile		Service Account (Obsolete)	
		Restore to HTML file	Restore as Posts	Restore to HTML file	Restore as Posts	
Mark as unre	ead	Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	
Like/Unlike		Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	
The "Save this message" mark		Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	
Get email address	Send email to channel	Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	The To information and the Download original email link are not kept in the restored HTML file.
Image		Partially Supported	Supported	Partially Supported	Supported	
Recording		Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	
Meeting		Unsupport ed	Unsupport ed	Unsupport ed	Unsupport ed	

Others

Objects	Components/	Components/Properties		Service Account	Comment
Files	New	Folder	Supported	Supported	
		Word document	Supported	Supported	
		Excel spreadsheet	Supported	Supported	
		PowerPoint presentation	Supported	Supported	
		OneNote notebook	Supported	Supported	
	Send email to	channel	Supported	Supported	
	Upload		Supported	Supported	
	Add cloud	SharePoint	Unsupported	Unsupported	API limitation
	storage	Dropbox	Unsupported	Unsupported	
		Box	Unsupported	Unsupported	
		ShareFile	Unsupported	Unsupported	
		Google Drive	Unsupported	Unsupported	
Tab	Add a tab: Excel, Word, P Document libr	Add a tab: Excel, Word, PowerPoint, PDF, Document library		Supported	Supports adding the tabs back and update the tabs to the previous settings and configurations for the listed tabs.
Meetings	Body		Supported	Supported	
	Title		Supported	Supported	
	Location		Supported	Supported	
	Start Time		Supported	Supported	
	End Time		Supported	Supported	
	Details		Supported	Supported	
	Channel		Supported	Supported	
	Invite People		Supported	Supported	
	Organizer		Supported	Supported	

Settings and Permissions

Refer to the table below for the supported and unsupported settings and permissions.

Components	Settings/Permissions		Default/Custom App Profile	Service Account (Obsolete)	Comment	
Teams	Name		Supported	Supported		
	Description			Supported	Supported	
	Privacy			Partially Supported	Partially Supported	Org-wide cannot be restored to the destination. If the destination policy is Org-wide , the restore job cannot update it to other values apart from that Private is being restored.
	Send copies of group conversa	tions and even	ts to group members' inboxes	Unsupported	Supported	
	Let people outside the organiz	ation email the	group	Unsupported	Supported	
	Show/Hide team What used to be Favorite and	Remove Favor	ite is now Show and Hide.	Unsupported	Unsupported	Microsoft API limitation
	Tags			Unsupported	Unsupported	
	Hidden			Unsupported	Unsupported	
	Create a team from an existing	Microsoft 365	group	Supported	Supported	
Members	Add member			Supported	Supported	The restore of the Team's owner and members
	Add owner		Supported	Supported	destination Teams interface.	
Channel	Name		Supported	Supported		
You cannot change the	Description		Supported	Supported		
user role for members in	Owner/member			Supported	Supported	
Channels.	Privacy	Standard Private		Supported	Supported	
	Automatically favorite this channel for the whole team		Unsupported	Unsupported	Microsoft API limitation	
	Pin			Unsupported	Unsupported	
	Notification	All activities		Unsupported	Unsupported	
		Off		Unsupported	Unsupported	
		All new posts	Banner and feed	Unsupported	Unsupported	
			Only show in feed	Unsupported	Unsupported	
			Off	Unsupported	Unsupported	
		Channel	Banner and feed	Unsupported	Unsupported	•
		mentions	Only show in feed	Unsupported	Unsupported	
			Off	Unsupported	Unsupported	•
	Channel setting	Permission	Channel moderation	Unsupported	Unsupported	
			Who can start a new post?	Unsupported	Unsupported	
			Team member permissions	Unsupported	Unsupported	
	Show for me		Unsupported	Unsupported	Microsoft API limitation	
	Show for members			Unsupported	Unsupported	Microsoft API limitation
	Hidden			Unsupported	Unsupported	
Settings	Team picture			Unsupported	Unsupported	Microsoft API limitation
			Allow creating and updating	Supported	Supported	
			channels			

Components	Is Settings/Permissions		Default/Custom App Profile	Service Account (Obsolete)	Comment	
	Member permissions	Allow members to delet restore channels	e and	Supported	Supported	
		Allow members to add a remove apps	ınd	Supported	Supported	
		Allow members to uploa custom apps	ıd	Unsupported	Unsupported	Microsoft API limitation
		Allow members to creat update, and remove tab	e, s	Supported	Supported	
		Allow members to creat update, and remove con	e, nectors	Supported	Supported	
		Give members the optio delete their messages	n to	Supported	Supported	
		Give members the optio edit their messages	n to	Supported	Supported	
		General Channel	Anyo ne can post mess ages Anyo ne can	Unsupported	Unsupported	The setting will be restored to the default option: Anyone can post messages.
			show an alert that posti ng will notify every one (usef ul for large team s)			
			owne rs can post mess ages			
	Guest permissions	Allow creating and upda channels	ting	Supported	Supported	
		Allow guests to delete c	hannels	Supported	Supported	
	@Mentions	Allow @team or @[team name] mentions (this will send a notification to everyone on the team)		Supported	Supported	
		Allow @channel or @[channel name] mentions (this will send a notification to everyone who has favorited the channel being mentioned)		Supported	Supported	
	Team code			Unsupported	Unsupported	
	Tags > Who can add tags			Unsupported	Unsupported	
	Fun stuff	Enable Giphy for this tea	am	Supported	Supported	
		Filter out inappro- priate content using	Strict	Supported	Supported	
		one of the settings below	Allow all conte nt	Unsupported	Unsupported	Microsoft API limitation
			Mode rate	Supported	Supported	
		Enable stickers and mer	nes	Supported	Supported	
		Enable stickers and mer	nes	Supported	Supported	
		Allow memes to be uplo	aded	Supported	Supported	
Analytics				Supported	Supported	

Components	Settings/Permissions	Default/Custom App Profile	Service Account (Obsolete)	Comment
Apps	Forms	Supported	Supported	The restore of Teams apps only supports adding the apps back to your Teams. For the apps whose data is stored outside Teams, the restore job cannot restore the apps' data. To ensure a successful backup and restore for Teams' Apps when using service account authentication, the service account must have the Team Owner role.
	OneNote	Supported	Supported	
	Planner	Supported	Supported	For the details of Planner data supported status, refer to Planner Data.
	Stream	Supported	Supported	
	Others (Go to store)	Supported	Supported	

Planner Data

Refer to the table below for the supported Planner data and note the following issues for Planner backup and restore:

Authentication Method

• To protect Planner data, you can choose to configure a service account profile to scan Teams in Auto Discovery or configure a Delegated app to protect Planner data when using app profile authentication for Auto Discovery.

Note: If you use a service account for Auto Discovery, IBM Storage Protect for Cloud Microsoft 365 will use the service account to protect the Planner data regardless of whether that Delegated app is in place.

If your organization uses multi-factor authentication (MFA) in Microsoft 365, by default, Planner data cannot be protected using service account authentication. For more details, refer to the information in the table of <u>"Authentications in Auto Discovery and Backup" on page 44</u>.

- If you are using a service account profile for Auto Discovery, the service account must be both the owner and a member of the teams/groups.
- If you are using the Delegated app, the authentication user of this app must have an Exchange license. This authentication user is also required to be the owner and member of the teams/groups, and you can choose to allow the scan job to automatically add the authentication user as the owner and member of the scanned teams/groups.

General

- Microsoft Graph API now only allows you to create up to 200 plans in a Team or Group. Therefore, if the number of plans in the destination Microsoft 365 group or team reaches 200, the restore of the remaining plans that need to be created in the destination will fail.
- When restoring plans, the plan ID and plan name will be used to identify the plan. If the destination has a plan using the same ID, the backup data of the plan will be updated and merged into the destination plan. If there is no identical plan using the same ID, refer to the following:
 - If there is only one destination plan using the same name as the backup, the backup data of the plan will be updated and merged into the destination plan.
 - If there is no plan using the same name or more than one plan using the same name in the destination, the restore job will create new plans for restoring the plans in the backup.
- If you only selected plans to restore to a target channel, the plan cannot be automatically added to the Channel tabs. You must manually add the Planner app to the tab and select the restored plan to add.
- By default, the restore job will restore the Planner task's attachment link to the target. If you want to restore the latest files in the attachment of the Planner tasks, contact the <u>IBM Software Support</u> team for assistance.

Data Type			Default/Custom App Profile	Service Account/ Delegated App
				(Obsolete)
Plan			Supported	Supported
Board	Bucket		Supported	Supported
	Task	Task Member	Supported	Supported
		Progress	Supported	Supported
		Start Time	Supported	Supported
		Due Date	Supported	Supported
		Description	Supported	Supported
		Checklist	Supported	Supported
		Attachment	Supported	Supported
		Comments	Supported	Supported
		Label	Supported	Supported
		Priority	Supported	Supported
Chart		Status	Supported	Supported
		Members	Supported	Supported

Archived Teams

Refer to the table below for the supported and unsupported status of backup and restore for the archived teams.

Note: The archived status cannot be kept after restore, and the archived teams will be restored to active.

Object Type	Backup Status	Restore Status	Note
Teams mailbox	Supported	Supported	
Teams team site	Supported	Supported	
Public channels	Supported	Supported	

Object Type	Backup Status	Restore Status	Note
Private channels	Partially Supported	Partially Supported	If the team has been archived before being registered to Auto Discovery, the private channels' sites cannot be registered to IBM Storage Protect for Cloud or protected. If the team is archived after being registered, the private channels' sites can be protected.
			The Teams backup service does not protect the content of private channels other than the private channels' sites.
			The backup and restore the status of private channels in an archived team does not affect the job status and will not be reported in the job report.
Planner	Supported	Supported	
Tabs	Supported	Supported	The backup and restore
Apps	Supported	Supported	apps does not affect the job status and will not be reported in the job report.

Microsoft Education Environment

Refer to the table below for the supported and unsupported status of backup and restore for Teams in Microsoft Education Environment.

Object Type	Backup Status	Restore Status
Team	Supported	Supported
Team Site	Supported	Supported
Sites	Supported	Supported
List/Library	Supported	Supported
Folder	Supported	Supported
Document	Supported	Supported
Item	Supported	Supported
Apps	Supported	Supported
Team Mailbox	Supported	Supported

Object Type	Backup Status	Restore Status
Folder in Mailbox	Supported	Supported
Mailbox Item	Supported	Supported
Plan	Supported	Supported
Task	Supported	Supported
Public Channel	Supported	Supported
Channel Conversation (HTML)	Supported	Supported
Channel Conversation (Post)	Supported	Supported
Channel File	Supported	Supported
Private Channel Conversation (HTML)	Supported	Supported
Private Channel Conversation (Post)	Supported	Supported
Private Channel File	Supported	Supported
Class Notebook	Supported	Supported
Assignments	Unsupported	Unsupported
Grades	Unsupported	Unsupported
Insights	Unsupported	Unsupported
Meeting	Supported	Supported
Group Conversation	Supported	Supported

Teams Chat Data Types

Refer to the table below for the supported and unsupported data types of Teams chats.

Note the following:

- The Microsoft Teams Chat backup service can protect the 1:1 chats and the group chats in Teams.
- For the **default Microsoft Graph API**, the backup of chats started by external users is not supported, but chats started by internal users and including external users can be protected. For the **Teams Export API model B**, only plain text can be protected.
- Only the default Microsoft Graph API can be used to protect Teams Chat in GCC/GCCH environments.
- Due to API limitations, the self chat in Teams cannot be protected.
- Due to API limitations and unique message formats, certain chat messages sent by apps within Microsoft Teams cannot be protected. Given the extensive range of apps in Teams, it is not feasible to maintain a comprehensive support list for all of them. Please be aware of this limitation and consider this aspect when integrating with various apps with Teams.

Components/Prope	erties	Teams Export API	Microsoft Graph API	Comment
Format	Mention/Tag (@)	Supported	Supported	The link cannot be kept after being restored to the HTML file.
	Bold	Supported	Supported	
	Italic	Supported	Supported	
	Underline	Supported	Supported	
	Strikethrough	Supported	Supported	
	Text highlight color	Supported	Supported	
	Font color	Supported	Supported	
	Font size	Supported	Supported	
	Monospaced	Supported	Supported	
	Heading	Supported	Supported	
	Paragraph	Supported	Supported	
	Decrease indent	Supported	Supported	
	Increase indent	Supported	Supported	
	Bulleted list	Supported	Supported	
	Numbered list	Supported	Supported	
	Quote	Supported	Supported	
	Insert link	Supported	Supported	
	Code Snippet	Supported	Supported	
	Inset horizontal rule	Supported	Supported	
	Insert table	Partially Supported	Partially Supported	Only the content can be restored.
Delivery Options	Standard	Supported	Supported	
	Important	Supported	Supported	
	Urgent	Unsupported	Unsupported	
Attach File	OneDrive	Supported	Supported	
	Upload from my computer	Supported	Supported	

Components/Prope	erties	Teams Export API	Microsoft Graph API	Comment
Loop components	Bulleted list	Unsupported	Unsupported	
	Numbered list	Unsupported	Unsupported	
	Checklist	Unsupported	Unsupported	
	Paragraph	Unsupported	Unsupported	
	Table	Unsupported	Unsupported	
	Task list	Unsupported	Unsupported	
	progress tracker	Unsupported	Unsupported	
	Q&A	Unsupported	Unsupported	
	Voting table	Unsupported	Unsupported	
Emoji	•	Supported	Supported	
Giphy		Supported	Supported	
Sticker		Supported	Supported	
Apps	Stream	Unsupported	Unsupported	The links in the
	Update	Unsupported	Unsupported	Stocks, Weather, Places, and Wikipedia data cannot be restored, and the map in the restored Places is not available. To view the map in the restored Places access
	Praise	Unsupported	Unsupported	
	Form	Unsupported	Unsupported	
	News	Partially Supported	Partially Supported	
	Places	Supported	Supported	
	Power BI	Unsupported	Unsupported	
	Stocks	Unsupported	Unsupported	Teams using the
	Weather	Partially Supported	Partially Supported	then reopen the
	Wikipedia Search	Partially Supported	Partially Supported	restored file.
Action	Post	Supported	Supported	
	Reply	Supported	Supported	
	Edit Post/Reply	Supported	Supported	
	Delete Post/Reply	Unsupported	Unsupported	
	Reaction: Like	Unsupported	Unsupported	
	The "Save this message" mark	Unsupported	Unsupported	
	Translate	Unsupported	Unsupported	
Message Type	Image (screenshot)	Supported	Supported	
	Image (attachment)	Unsupported	Unsupported	
	Voice Message	Unsupported	Unsupported	
	Recordings/Video	Unsupported	Unsupported	

Viva Engage Data Types

The table below lists the data types supported or unsupported for Viva Engage in IBM Storage Protect for Cloud Microsoft 365:

Note:

- Viva Engage services currently support in place recovery only (restoring to the original location), meaning the Viva Engage community needs to be there already, as well as to export files and conversations.
- The External Network, Private Message, and Classic Viva Engage are not supported.
- Only the message content and comment are supported for the Discussions, Questions, Praise, and Poll messages. In the current release, Viva Engage messages are only available in the time-based recovery wizard and will be restored to HTML files.

Data Type	Default Viva Engage
	Арр

Internal Network	Viva Engage Group		Supported
	Viva Engage community N	Supported	
	Viva Engage community f new Viva Engage view)	avorites status (Only in	Unsupported
	Viva Engage Group	Name	Unsupported
	settings	Description	Unsupported
		Image	Unsupported
		Who can view conversations and post messages?	Unsupported
		Default publisher type	Unsupported
		Pattern (Only in classic Viva Engage view)	Unsupported
	Mute/Unmute Viva Engag in new Viva Engage view)	e community status (Only	Unsupported
	Viva Engage community r (Only in new Viva Engage	Unsupported	
	Viva Engage community cover photo (Only in new Viva Engage view)		Unsupported
	Info	Unsupported	
	Pinned	Unsupported	
	Related Groups (Only in c	Unsupported	
	Discussion	Message content	Supported
		People in message	Unsupported
		Announcement	Unsupported
		Торіс	Unsupported
		Attachment	Unsupported
		GIF	Unsupported
		Like	Unsupported
		Comment	Supported
		Share	Unsupported
		Conversation open/close status	Unsupported
		Pin/Unpin status	Unsupported
		Follow/Unfollow in Inbox status	Unsupported
		Feature Conversation	Unsupported
		Read/Unread property	Unsupported

	Question	Message content	Supported
		People in message	Unsupported
		Announcement	Unsupported
		Торіс	Unsupported
		Attachment	Unsupported
		GIF	Unsupported
		Like	Unsupported
		Comment	Supported
		Share	Unsupported
		Conversation open/close status	Unsupported
		Pin/Unpin status	Unsupported
		Follow/Unfollow in Inbox status	Unsupported
		Feature Conversation	Unsupported
		Read/Unread property	Unsupported
	Praise	Message content	Supported
		People in message	Unsupported
		Announcement	Unsupported
		Торіс	Unsupported
		Attachment	Unsupported
		GIF	Unsupported
		Like	Unsupported
		Comment	Supported
		Share	Unsupported
		Conversation open/close status	Unsupported
		Pin/Unpin status	Unsupported
		Follow/Unfollow in Inbox status	Unsupported
		Feature Conversation	Unsupported
		Read/Unread property	Unsupported
	Poll	Message content	Supported
		People in message	Unsupported
		Announcement	Unsupported
		Торіс	Unsupported
		Attachment	Unsupported
		GIF	Unsupported

		LIKE	Unsupported
		Comment	Supported
		Share	Unsupported
		Conversation open/close status	Unsupported
		Pin/Unpin status	Unsupported
		Follow/Unfollow in Inbox status	Unsupported
		Feature Conversation	Unsupported
		Read/Unread property	Unsupported
		Question	Unsupported
		Answer	Unsupported
		Vote	Unsupported
	Events	Event details	Unsupported
		Questions in event	Supported
		Discussion in event	Supported
	Content in Viva Engage gr	Supported	
	Content in Viva Engage gr	Unsupported	
	Planner	Supported	
	Account settings	Networks	Unsupported
		My applications	Unsupported
		Notifications	Unsupported
		References	Unsupported
Private Messages	Message content	•	Unsupported
	GIF		Unsupported
	People in message		Unsupported
	Attachment		Unsupported
	Conversation open/close	status	Unsupported
	Follow/Unfollow status		Unsupported
	Feature Conversation		Unsupported
	Read/Unread property		Unsupported
	Like		Unsupported
	Comment		Unsupported

OneDrive Data Types

IBM Storage Protect for Cloud Microsoft 365 for OneDrive will protect the **Documents** library and will protect the **Site Assets** library as well if the site feature **Site NoteBook** is activated.

The service only protects content and permissions for OneDrive since OneDrive is the cloud service used to securely store, share, and access your files.

Data Types			Default/Custom App Profile	Service Account
	-			(Obsolete)
Lists/libraries	Permission	Users	Unsupported	Unsupported
		Note: Restore the users before the content.		
		Role Assignments	Unsupported	Unsupported
	Versioning settings	Content Approval	Unsupported	Unsupported
	Document Version	No versioning	Unsupported	Unsupported
	History	Create major versions	Unsupported	Unsupported
		Create major and minor (default) versions	Unsupported	Unsupported
	Content Types		Unsupported	Unsupported
	Columns		Unsupported	Unsupported
	List Views	List Views		Unsupported
Documents	Permission	Users	Supported	Supported
Note: Only protects the current version.		Note: Restore the users before the content.		
		Role Assignments	Unsupported	Unsupported
	Column values	Author	Supported	Supported
		Editor	Supported	Supported
		Modified	Supported	Supported
		Created	Supported	Supported
		Column values on the edit and view form	Unsupported	Unsupported
		Column values for the required fields	Unsupported	Unsupported
		Other	Unsupported	Unsupported
	Content		Supported	Supported

Refer to the table below for the supported and unsupported data types in OneDrive.

Data Types			Default/Custom App Profile	Service Account (Obsolete)
History Version	Column values	Author	Unsupported	Unsupported
		Editor	Unsupported	Unsupported
		Modified	Unsupported	Unsupported
		Created	Supported	Supported
	Content		Unsupported	Unsupported
List view			Unsupported	Unsupported
Workflow			Unsupported	Unsupported
Term set			Unsupported	Unsupported
Site settings			Unsupported	Unsupported
Library settings			Unsupported	Unsupported
Subsites			Unsupported	Unsupported
IRM			Supported	Supported
Asset library			Unsupported	Unsupported
Other lists/librarie	S		Unsupported	Unsupported
Web part			Unsupported	Unsupported
Site features			Unsupported	Unsupported
Storage metrics		Unsupported	Unsupported	
Region and langua	ige	Region setting	Unsupported	Unsupported
		Language setting	Unsupported	Unsupported

Document-Related Data Types

Refer to the following tables for the supported/unsupported/partially supported data types related to document restore.

The data types are grouped by the following tables: <u>Content</u>, <u>Workflow</u>, <u>Column</u>, and <u>Content Type</u>.

Content

Data Types			Default/Custom App Profile	Service Account (Obsolete)
Document	Document Properties	Checkout	Unsupported	Unsupported
		Note: The non- checkout versions of the checked- out file can be protected.		
	Document Version	Major and Minor Versions	Supported	Supported
		Major Versions	Supported	Supported

Data Types			Default/Custom	Service Account
			App Profile	(Obsolete)
Item	Item Field	Attachment	Supported	Supported
	Item Version	Item Version (not open approval)	Supported	Supported
		Item Version (open approval)	Unsupported	Supported
Page	Page Content	Embed	Supported	Supported
		Format Text	Supported	Supported
		Insert Links	Supported	Supported
		Insert Media	Supported	Supported
		Insert Tables	Supported	Supported
	Page Version	Version Page Content	Supported	Supported
SharePoint	Site Level Design	_catalogs	Supported	Supported
Designer Objects	Folders	_cts	Partially Supported	Supported
		_vti_pvt	Supported	Supported
		images	Supported	Supported
		Lists	Supported	Supported
		m	Supported	Supported
	Site Level Design Items	default.aspx	Supported	Supported
		GettingStarted.asp x	Supported	Supported
		newsfeed.aspx	Supported	Supported
	List/Library Level Design Folders	Forms	Supported	Supported
	List/Library Level	AllItems.aspx	Partially Supported	Supported
	Design Items	Combine.aspx	Partially Supported	Supported
	Note: The Modified By	DispForm.aspx	Partially Supported	Supported
	property cannot be	EditForm.aspx	Partially Supported	Supported
	кері.	repair.aspx	Partially Supported	Supported
		template.dotx	Partially Supported	Supported
		Thumbnails.aspx	Partially Supported	Supported
		Upload.aspx	Partially Supported	Supported
		NewForm.aspx	Partially Supported	Supported

Workflow

Note: SharePoint 2010 workflows are no longer suspported for restore as Microsoft no longer supports SharePoint 2010 workflows in Microsoft 365.

Data Types		Default/Custom App	Service Account
		Profile	(Obsolete)
Built-in Workflow	Approval Workflow	Supported	Supported
	Collect Feedback Workflow	Supported	Supported
	Collect Signatures Workflow	Supported	Supported
	Disposition Approval Workflow	Supported	Supported
	Three-State Workflow	Supported	Supported
Designer 10	If any _ equals _	Unsupported	Unsupported
Workflow_Condition	Else-If Branch	Unsupported	Unsupported
	The person is a valid SharePoint user	Unsupported	Unsupported
Designer 10	Core Actions	Unsupported	Unsupported
Workflow_Action	Document Set Actions	Unsupported	Unsupported
	List Actions	Unsupported	Unsupported
	Relational Actions	Unsupported	Unsupported
	Task Actions	Unsupported	Unsupported
	Utility Actions	Unsupported	Unsupported
Designer 10	Multiple Steps	Unsupported	Unsupported
Workflow_Step	Parallel Block	Unsupported	Unsupported
	Impersonation Step	Unsupported	Unsupported
Designer 13	If any _ equals _	Supported	Supported
Workflow_Condition	Else Branch	Supported	Supported
	The person is a valid SharePoint user	Supported	Supported
Designer 13	Coordination Actions	Supported	Supported
Workflow_Action	Core Actions	Supported	Supported
	List Actions	Supported	Supported
	Task Actions	Supported	Supported
	Utility Actions	Supported	Supported
Designer 13 Workflow_Stage	Multiple Stages	Supported	Supported
Designer 13	Multiple Steps	Supported	Supported
vvorkflow_Step	Parallel Block	Supported	Supported
Designer 13	Loop n Times	Supported	Supported
Workflow_Loop	Loop with Condition	Supported	Supported

Data Types		Default/Custom App Profile	Service Account (Obsolete)	
Workflow level	List Content Type Workflow	Supported	Supported	
	List/Library Workflow	Supported	Supported	
	Site Content Type Workflow	Supported	Supported	
	Site workflow	Supported	Supported	
Workflow Settings Start Options		Supported	Supported	
Workflow History		Unsupported	Unsupported	
Nintex Workflow for Offi	ce 365	Unsupported	Supported	

Column

Data Types			Default/Custom App Profile	Service Account (Obsolete)
Site Columns	Base Columns	Append-Only Comments	Supported	Supported
		Categories	Supported	Supported
		End Date	Supported	Supported
		Language	Supported	Supported
		Start Date	Supported	Supported
		URL	Supported	Supported
		Workflow Name	Supported	Supported
	Label	Retention label	Supported	Supported
		Label applied by	Unsupported	Unsupported
		Retention label applied	Unsupported	Unsupported
		Label Settings	Unsupported	Unsupported
	Business	Is Data	Supported	Supported
	Intelligence	Is Report	Supported	Supported
	Content Feedback	Number of Likes	Supported	Supported
		Number of Ratings	Supported	Supported
		Rating (0-5)	Supported	Supported

Data Types		Default/Custom	Service Account	
			App Profile	(Obsolete)
	Core Contact and	Address	Supported	Supported
	Calendar Columns	Anniversary	Supported	Supported
		Assistant's Name	Supported	Supported
		Assistant's Phone	Supported	Supported
		Birthday	Supported	Supported
		Business Phone	Supported	Supported
		Business Phone 2	Supported	Supported
		Callback Number	Supported	Supported
		Car Phone	Supported	Supported
		Children's Names	Supported	Supported
		City	Supported	Supported
		Company	Supported	Supported
		Company Main Phone	Supported	Supported
		Computer Network Name	Supported	Supported
		Contact Photo	Supported	Supported
		Country/Region	Supported	Supported
		Custom ID Number	Supported	Supported
		Department	Supported	Supported
		Email	Supported	Supported
		Email 2	Supported	Supported
		Email 3	Supported	Supported
		Event Address	Supported	Supported
		Fax Number	Supported	Supported
		First Name	Supported	Supported
		FTP Site	Supported	Supported
		Full Name	Supported	Supported
		Gender	Supported	Supported
		Government ID Number	Supported	Supported
		Hobbies	Supported	Supported
		Home Address City	Supported	Supported
		Home Address Country/Region	Supported	Supported

Data Types		Default/Custom	Service Account
		App Profile	(Obsolete)
	Home Address Postal Code	Supported	Supported
	Home Address State Or Province	Supported	Supported
	Home Address Street	Supported	Supported
	Home Fax	Supported	Supported
	Home Phone	Supported	Supported
	Home Phone 2	Supported	Supported
	IM Address	Supported	Supported
	Initials	Supported	Supported
	ISDN	Supported	Supported
	Job Title	Supported	Supported
	Location	Supported	Supported
	Manager's Name	Supported	Supported
	Middle Name	Supported	Supported
	Mobile Number	Supported	Supported
	Nickname	Supported	Supported
	Office	Supported	Supported
	Organizational ID Number	Supported	Supported
	Other Address City	Supported	Supported
	Other Address Country/Region	Supported	Supported
	Other Address Postal Code	Supported	Supported
	Other Address State Or Province	Supported	Supported
	Other Address Street	Supported	Supported
	Other Fax	Supported	Supported
	Other Phone	Supported	Supported
	Pager	Supported	Supported
	Personal Website	Supported	Supported
	Primary Phone	Supported	Supported
	Profession	Supported	Supported
	Radio Phone	Supported	Supported

Data Types			Default/Custom	Service Account
			App Profile	(Obsolete)
		Referred By	Supported	Supported
		Spouse/Domestic Partner	Supported	Supported
	Core Document	State/Province	Supported	Supported
	Columns	Suffix	Supported	Supported
		Telex	Supported	Supported
		TTY-TDD Phone	Supported	Supported
		User Field 1	Supported	Supported
		User Field 2	Supported	Supported
		User Field 3	Supported	Supported
		User Field 4	Supported	Supported
		Web Page	Supported	Supported
		ZIP/Postal Code	Supported	Supported
		Author	Supported	Supported
		Category	Supported	Supported
		Comments	Supported	Supported
		Contributor	Supported	Supported
		Copyright	Supported	Supported
		Coverage	Supported	Supported
		Date Created	Supported	Supported
		Date Modified	Supported	Supported
		Date Picture Taken	Supported	Supported
		Format	Supported	Supported
		Keywords	Supported	Supported
		Last Printed	Supported	Supported
		Publisher	Supported	Supported
		Relation	Supported	Supported
		Resource Identifier	Supported	Supported
		Resource Type	Supported	Supported
		Revision	Supported	Supported
		Rights Management	Supported	Supported
		Source	Supported	Supported
		Status	Supported	Supported

Data Types		Default/Custom	Service Account	
			App Profile	(Obsolete)
		Subject	Supported	Supported
		Version	Supported	Supported
	Core Task and	% Complete	Supported	Supported
Issue Columns	Actual Work	Supported	Supported	
	Assigned To	Supported	Supported	
		Billing Information	Supported	Supported
		Date Completed	Supported	Supported
		Due Date	Supported	Supported
		Mileage	Supported	Supported
		Predecessors	Supported	Supported
		Priority	Supported	Supported
		Related Company	Supported	Supported
		Role	Supported	Supported
Custom Columns		Task Status	Supported	Supported
		Total Work	Supported	Supported
	Custom Columns	Category Picture	Supported	Supported
		Description	Supported	Supported
		HashTags	Supported	Supported
		Task Outcome	Supported	Supported
		Wiki Categories	Supported	Supported
		WSEnabled	Supported	Supported
	Display Template Columns	Compatible Managed Properties	Supported	Supported
		Compatible Search Data Types	Supported	Supported
		Crawler XSL File	Supported	Supported
		Hidden Template	Supported	Supported
		Managed Property Mappings	Supported	Supported
		Target Control Type (Search)	Supported	Supported
		Template Level	Supported	Supported

Data Types			Default/Custom	Service Account
			App Profile	(Obsolete)
	Document	Active	Supported	Supported
	Management	Aliases	Supported	Supported
	Columns	Custom Router	Supported	Supported
		Description	Supported	Supported
		Priority	Supported	Supported
		Properties used in Conditions	Supported	Supported
		Property for Automatic Folder Creation	Supported	Supported
		Route To External Location	Supported	Supported
		Rule Name	Supported	Supported
		Submission Content Type	Supported	Supported
		Target Folder	Supported	Supported
Enterprise Keywords Group		Target Library	Supported	Supported
		Target Path	Supported	Supported
	Enterprise Keywords	Supported	Supported	
	Extended Columns	Company Phonetic	Supported	Supported
		First Name Phonetic	Supported	Supported
		Issue Status	Supported	Supported
		Last Name Phonetic	Supported	Supported
		Related Issues	Supported	Supported
		Task Group	Supported	Supported
		UDC Purpose	Supported	Supported
	Help Columns	Context Key	Supported	Supported
		Is On By Default	Supported	Supported
		Locale ID	Supported	Supported
		Product	Supported	Supported
		Resources	Supported	Supported
		See Also Help Topics	Supported	Supported

Data Types			Default/Custom	Service Account
			App Profile	(Obsolete)
	JavaScript Display	Hidden	Supported	Supported
Template Columns	Icon	Supported	Supported	
	Target Control Type	Supported	Supported	
		Target List Template ID	Supported	Supported
		Target Scope	Supported	Supported
	Page Layout	Byline	Supported	Supported
	Columns	Catalog-Item URL	Supported	Supported
		Image Caption	Supported	Supported
		Page Content	Unsupported	Unsupported
		Page Icon	Supported	Supported
		Page Image	Supported	Supported
		Redirect URL	Supported	Supported
		Rollup Image	Supported	Supported
		Summary Links	Supported	Supported
Publishing Columns		Summary Links 2	Supported	Supported
	Publishing	Article Date	Supported	Supported
	Columns	Browser Title	Supported	Supported
		Contact	Supported	Supported
		Contact Email Address	Supported	Supported
		Contact Name	Supported	Supported
		Contact Picture	Supported	Supported
		Hide from Internet Search Engines	Supported	Supported
		Hide physical URLs from search	Supported	Supported
		Meta Description	Supported	Supported
	Meta Keywords	Supported	Supported	
		Scheduling End Date	Supported	Supported
		Scheduling Start Date	Supported	Supported
		Target Audiences	Supported	Supported

Data Types			Default/Custom	Service Account
			App Profile	(Obsolete)
	Reports	Owner	Supported	Supported
		Report Category	Supported	Supported
		Report Description	Supported	Supported
		Report Status	Supported	Supported
		Save to report history	Supported	Supported
	Search Config	Notes	Supported	Supported
		Scope	Supported	Supported
		Status	Supported	Supported
	Status Indicators	Auto Update	Supported	Supported
		Data Source	Supported	Supported
		Description	Supported	Supported
		Detail Link	Supported	Supported
		Display Folder	Supported	Supported
		Formatted indicator goal	Supported	Supported
		Formatted indicator value	Supported	Supported
		Formatted indicator warning	Supported	Supported
		Goal Cell	Supported	Supported
		Goal from workbook	Supported	Supported
		Goal Sheet	Supported	Supported
		Include child indicators	Supported	Supported
		Indicator	Supported	Supported
		Indicator Comments	Supported	Supported
		Indicator Goal Threshold	Supported	Supported
		Indicator Status	Supported	Supported
		Indicator Value	Supported	Supported
		Indicator Warning Threshold	Supported	Supported
		Lower values are better	Supported	Supported

Data Types			Default/Custom App Profile	Service Account (Obsolete)
	Most recent indicator data update	Supported	Supported	
	Percent Expression	Supported	Supported	

Data Types			Default/Custom	Service Account
			App Profile	(Obsolete)
	Translation	Trend	Supported	Supported
	Columns	Update Error	Supported	Supported
		Value Cell	Supported	Supported
		Value Expression	Supported	Supported
	Value Sheet	Supported	Supported	
		View GUID	Supported	Supported
		Warning Cell	Supported	Supported
		Warning from workbook	Supported	Supported
		Warning Sheet	Supported	Supported
		Batch Id	Supported	Supported
		Download Link	Supported	Supported
		Errors	Supported	Supported
		Export Job Size	Supported	Supported
		Export Time	Supported	Supported
	Exporting User	Supported	Supported	
		Job Completion Time	Supported	Supported
		List	Supported	Supported
		List Link	Supported	Supported
		Number of Items	Supported	Supported
		Site	Supported	Supported
		Submission Time	Supported	Supported
		Terms	Supported	Supported
		Translated Items	Supported	Supported
		Translation Language	Supported	Supported
		Translation Status	Supported	Supported
		Translation type	Supported	Supported
		Translator Name	Supported	Supported
		Upload Job Size	Supported	Supported
		Upload Time	Supported	Supported
		Uploading User	Supported	Supported

Data Types			Default/Custom App Profile	Service Account (Obsolete)
List Column	Column Type	Single line of text	Supported	Supported
		Multiple lines of text	Supported	Supported
		Choice	Supported	Supported
		Number	Supported	Supported
		Currency	Supported	Supported
		Date and Time	Supported	Supported
		Lookup	Supported	Supported
		Yes/No	Supported	Supported
		Person or Group	Supported	Supported
		Hyperlink or Picture	Supported	Supported
		Calculated	Supported	Supported
		Task Outcome	Supported	Supported
		External Data	Supported	Supported
		Managed Metadata	Supported	Supported

Content Type

Note: The content type applied to the list item cannot be kept after restore.

Data Types			Default/Custom App Profile	Service Account (Obsolete)
Site Content Types	Business Intelligence	Excel-based Status Indicator	Supported	Supported
		Fixed Value-based Status Indicator	Supported	Supported
		Report	Supported	Supported
		Report Document	Supported	Supported
		SharePoint List based Status Indicator	Supported	Supported
		SQL Server Analysis Services based Status	Supported	Supported
		Indicator	Supported	Supported
		Web Part Page with Status List	Supported	Supported

Data Types			Default/Custom	Service Account
			App Profile	(Obsolete)
	Community Content Types	Category	Supported	Supported
		Community Member	Supported	Supported
		Site Membership	Supported	Supported
	Digital Asset Content Types	Audio	Supported	Supported
		Image	Supported	Supported
		Rich Media Asset	Supported	Supported
		Video	Supported	Supported
		Video Rendition	Supported	Supported
	Display Template Content-Type	Control Display Template	Supported	Supported
		Filter Display Template	Supported	Supported
		Group Display Template	Supported	Supported
		Item Display Template	Supported	Supported
		JavaScript Display Template	Supported	Supported
	Document Content Types	Basic Page	Supported	Supported
		Document	Supported	Supported
		Dublin Core Columns	Supported	Supported
		Form	Supported	Supported
		Link to a Document	Supported	Supported
		List View Style	Supported	Supported
		Master Page	Supported	Supported
		Master Page Preview	Supported	Supported
		Picture	Supported	Supported
		Web Part Page	Supported	Supported
		Wiki Page	Supported	Supported
	Document Set Content Types	Document Set	Supported	Supported
	Note: Document Set Settings are not supported.			

Data Types			Default/Custom	Service Account
			App Profile	(Obsolete)
	Duet Enterprise Content Types	OBA Report	Supported	Supported
	Folder Content Types	Discussion	Supported	Supported
		Folder	Supported	Supported
		Summary Task	Supported	Supported
	Group Work Content Types	Circulation	Supported	Supported
		Holiday	Supported	Supported
		New Word	Supported	Supported
		Official Notice	Supported	Supported
		Phone Call Memo	Supported	Supported
		Resource	Supported	Supported
		Resource Group	Supported	Supported
		Timecard	Supported	Supported
		Users	Supported	Supported
		What's New Notification	Supported	Supported
	Help Content Types	Help Category	Supported	Supported
		Help Collection	Supported	Supported
		Help Media File	Supported	Supported
		Help Topic	Supported	Supported
	List Content Types	Announcement	Supported	Supported
		Comment	Supported	Supported
		Contact	Supported	Supported
		East Asia Contact	Supported	Supported
		Event	Supported	Supported
		Issue	Supported	Supported
		Item	Supported	Supported
		Link	Supported	Supported
		Message	Supported	Supported
		Post	Supported	Supported
		Reservations	Supported	Supported
		Schedule	Supported	Supported
		Schedule and Reservations	Supported	Supported
Data Types			Default/Custom App Profile	Service Account (Obsolete)
------------	-----------------------------	------------------------------------	-------------------------------	-------------------------------
		Task	Supported	Supported
		Workflow Task (SharePoint 2013)	Supported	Supported
	Page Layout	Article Page	Supported	Supported
	Content Types	Catalog-Item Reuse	Supported	Supported
		Enterprise Wiki Page	Supported	Supported
		Error Page	Supported	Supported
		Project Page	Supported	Supported
		Redirect Page	Supported	Supported
		Welcome Page	Supported	Supported
	Project Server Approval	PSWApprovalTask	Supported	Supported
	Publishing Content Types	ASP.NET Master Page	Supported	Supported
		HTML Master Page	Supported	Supported
		HTML Page Layout	Supported	Supported
		Page	Supported	Supported
		Page Layout	Supported	Supported
	Search Config	Search Config Content Type	Supported	Supported
	Special Content Types	Unknown Document Type	Supported	Supported

Document ID

Data			Default/Custom App Profile	Service Account (Obsolete)	
Library	Added by New	Folder	Unsupported	Unsupported	
		Word document	Supported	Supported	
		Excel workbook	Supported	Supported	
		PowerPoint presentation	Supported	Supported	
		OneNote notebook	Unsupported	Unsupported	
		Link	Supported	Supported	
		Text document	Supported	Supported	
		Image	Supported	Supported	
	Added by Upload	File	Unsupported	Unsupported	
		Folder	Unsupported	Unsupported	
Pages	Added by New	Site page	Supported	Supported	
		Wikipage	Supported	Supported	
		Web part page	Unsupported	Unsupported	
		Link	Unsupported	Unsupported	

Power BI Data Types

- IBM Storage Protect for Cloud Microsoft 365 Power BI service can only protect the Power BI content in the new workspace experience. (The personal workspace is the classic workspace, which is not supported.) In addition, the Cloud Backup Power BI service now can only protect the **.pbix** Power BI files that can be downloaded.
- For the limitations on downloading a report from Power BI, refer to Limitations when downloading a report .pbix file. The downloaded .pbix file includes both the report you're downloading and the data on which the report is based, the same as the download .pbix file of "A copy of the report and data" download mode in Power BI. Note that the backup data can only be exported and downloaded.
- To use IBM Storage Protect for Cloud Microsoft 365 to protect the Power BI data, you can configure an app profile for the Microsoft Delegated app with the Power BI option selected. For the list of the required permissions added to the Delegated app for Power BI, refer to <u>"App Profile Authentication" on page 47</u>. If you have been using a scan profile with service account authentication for Power Platform object types, the Auto discovery scan jobs and the IBM Storage Protect for Cloudjobs can continue using the service account authentication.
- If you use service account authentication or the Delegated app to protect the Power BI data, the service account or the authentication user of the Delegated app must have a **Power BI Pro** license or **Premium Per User (PPU)** license, and have the **Fabric Administrator** role (the former **Power BI admin** role).
- Before you enable the Power BI service, ensure the <u>Download reports</u> feature in the tenant settings has been enabled. This feature was enabled by default. In addition, the IBM Storage Protect for Cloud Power BI service now can only protect the <u>.pbix</u> Power BI files that can be downloaded. For the limitations on downloading report from Power BI, refer to <u>Limitations when downloading a report .pbix</u> file.
- If you use the service account authentication to protect Power BI data or the Delegated app to scan Power BI workspaces in IBM Storage Protect for Cloud, the Auto Discovery scan job will automatically add the service account or the authentication user of the Delegated app as the workspace admin.

• Due to the API limitation, the backup job of Power BI can back up at most 200 workspaces per hour.

Power Automate Data Types

IBM Storage Protect for Cloud Microsoft 365 for Power Automate only supports protecting the cloud flows. Refer to the table below for the supported attributes of flows that can be exported.

Data	Service Account	Microsoft Delegated App	Comment
Automated cloud flow	Supported	Supported	
Instant cloud flow	Supported	Supported	
Scheduled cloud flow	Supported	Supported	
Desktop flow	Unsupported	Unsupported	
Business process flow	Unsupported	Unsupported	
Flow ID	Supported	Supported	
Flow name	Supported	Supported	The flows whose name contains special characters (such as ~, !, @, #, etc.) cannot be imported into Power Platform.
Description	Unsupported	Unsupported	
Flow owner	Supported	Supported	
Status	Supported	Supported	
Created time	Supported	Supported	
Modified time	Supported	Supported	
Туре	Supported	Supported	
Plan	Unsupported	Unsupported	
Connection	Supported	Supported	
Environment	Supported	Supported	
Connections	Supported	Supported	
28-day run history	Unsupported	Unsupported	
Run only users	Unsupported	Unsupported	
Share permission	Supported	Supported	

Power Apps Data Types

Power Apps service can only protect Canvas apps which have been published and component libraries. Note that the Restore action is unsupported and the backup data can only be exported.

Power Apps service can only protect Canvas apps which have been published and component libraries. Note that the Restore action is unsupported and the backup data can only be exported.

• To use IBM Storage Protect for Cloud Microsoft 365 to protect the Power Apps data, you must configure an app profile for the Microsoft Delegated app. For the list of the required permissions added to the Delegated app for Power Apps, refer to <u>"Required Permissions of Microsoft Delegated App" on page 54</u>. If you have been using a scan profile with service account authentication for Power Platform object

types, the Auto discovery scan jobs and the IBM Storage Protect for Cloud jobs can continue using the service account authentication.

- If you use service account authentication or the Delegated app to protect the Power Apps data, the service account or the authentication user of the Delegated app must be the **Global Administrator** and the **Environment Admin/System Administrator**, and have the **Power Apps for Microsoft 365** license to proceed.
- The backup job will automatically add the service account or the authentication user of the Delegated app as the app's co-owner and flow owner (if the app has an associated flow).

The table below lists the data types supported or unsupported for Power Apps in IBM Storage Protect for Cloud Backup:

Data Type			Service Account	Microsoft Delegated App
App settings	General	Name	Supported	Supported
		Description	Supported	Supported
		Icon	Supported	Supported
		Icon background fill	Supported	Supported
		Icon fill	Supported	Supported
		Auto save	Supported	Supported
		Data row limit	Supported	Supported
		Debug published app	Supported	Supported
		Automatically create environment variables when adding data sources	atically Supported Support	
		Enable APP.Onstart property	Supported	Supported
	Display	Orientation	Supported	Supported
		Size	Supported	Supported
		Scale to fit	Supported	Supported
		Lock aspect ratio	Supported	Supported
		Lock orientation	Supported	Supported
	Support	Environment	Supported	Supported
		Authoring version	Unsupported	Unsupported

App detail	License designation	Supported	Supported
	Preload app for enhanced performance	Supported	Supported
	Owner	Supported	Supported
	Created Time	Supported	Supported
	Modified Time	Supported	Supported
	Web link	Supported	Supported Supported
	Mobile QR code	Supported	
	App ID	Supported	Supported
	Connections	Supported	Supported
	Flows	Supported	Supported
Canvas app		Supported	Supported
Component library		Supported	Supported
Note: The data center operated by 21Vian not support component libraries, so the b component libraries in such data centers well.			
Model-driven app		Unsupported	Unsupported
Website		Unsupported	Unsupported

Restore Options for Different Object Types

The table below shows the supported/unsupported restore options for different object types.

Note:

- The Project Online data, and the Apps are not supported when using the app profile only.
- Data exporting in IBM Storage Protect for Cloud Microsoft 365 does not support exporting metadata.

Object Type	Level	Restore to Original Location	Restore to Another Location (Destination)	Restore to Storage	Export
Exchange Online	Mailbox	Supported	Supported (Mailbox)	Supported	Supported
	Folder	Supported	Supported (Mailbox/ Folder)	Supported	Supported
	Mailbox Item	Supported	Supported (Folder)	Supported	Supported

Object Type	Level	Restore to Original Location	Restore to Another Location (Destination)	Restore to Storage	Export
Project Online	Project Online Site Collection	Supported	Supported (Site Collection)	Unsupported	Unsupported
	Subsite	Supported	Supported (Site Collection or Site)	Unsupported	Unsupported
	Project	Supported	Supported (Site Collection or Site)	Unsupported	Unsupported
	Library/List	Supported	Supported (Site Collection, Site, List, or Library)	Supported	Supported
	Folder	Supported	Supported (Library or Folder)	Supported	Supported
	Item/Document	Supported	Supported (Library or Folder)	Supported	Supported
	Apps	Supported	Supported (Site Collection or OneDrive)	Unsupported	Unsupported
Public Folder	Folder	Supported	Unsupported	Unsupported	Unsupported
	Items	Supported	Unsupported	Unsupported	Unsupported
Microsoft	User	Unsupported	Unsupported	Unsupported	Supported
reams Chat	Chat	Unsupported	Unsupported	Unsupported	Supported
	Chat Message	Unsupported	Unsupported	Unsupported	Supported

Object Type	Level	Restore to Original Location	Restore to Another Location (Destination)	Restore to Storage	Export
Viva Engage	Viva Engage Community	Supported	Unsupported	Unsupported	Unsupported
Note: In the	Site Collection	Supported	Unsupported	Unsupported	Unsupported
release, Viva	Site	Supported	Unsupported	Unsupported	Unsupported
Engage	List/Library	Supported	Unsupported	Supported	Supported
are only	Арр	Supported	Unsupported	Unsupported	Unsupported
available in the	Folder in SharePoint	Supported	Unsupported	Supported	Supported
timebased	Document	Supported	Unsupported	Supported	Supported
recovery wizard and will be restored to HTML files.	Viva Engage Messages	Supported	Unsupported	Supported	Supported

SharePoint Online Restore Options

Source Object	Restore to Original Location	Restore to Storage	Export	Destination Object (Restore to Another Location)	Action
Site Collection	Supported	Unsupported	Unsupported	Group Site	Attach/Merge
Site	Supported	Unsupported	Unsupported	Group Site	Attach/Merge
				Group Subsite	
List	Supported	Supported	Supported	Group Site	Attach
				Group Subsite	Attach
				Group List	Merge
Library	Supported	Supported	Supported	Group Site	Attach
				Group Subsite	Attach
				Group Library	Merge
Folder	Supported	Supported	Supported	Group Library	Attach
				Group Folder	Attach/Merge
Item List	Supported	Supported	Supported	Group List	Attach
Folder List	Supported	Supported	Supported	Group Folder List	Attach/Merge
				Group List	Attach
Document	Supported	Supported	Supported	Group Library	Attach
				Group Folder	

Source Object	Restore to Original Location	Restore to Storage	Export	Destination Object (Restore to Another Location)	Action
Apps	Supported	Unsupported	Unsupported	Group Site	Attach
				Group Subsite	

OneDrive Restore Options

Source Object	Restore to Original Location	Restore to Storage	Export	Restore to Another Location (Destination)	Action
OneDrive User	Supported	Unsupported	Supported	Group Site	Attach/Merge
Library	Supported	Supported	Supported	Group Site	Attach/Merge
				Group Library	Attach
Folder	Supported	Supported	Supported	Group Library	Attach/Merge
				Group Folder	Attach
Document	Supported	Supported	Supported	Group Library	Attach/Merge
				Group Folder	Attach

Teams Restore Options

How to Find Data	Source Object	Restore to Original Location	Restore to Storage	Export	Destination Object	(Restore to Another L	ocation)	Action	Comment
ObjectBased	Teams	Supported	Unsupported	Unsupported	Unsupported				
Restore	Group Mailbox	Supported	Unsupported	Unsupported	Unsupported				
	Folder in Mailbox	Supported	Unsupported	Unsupported	Unsupported				
	Mailbox Item	Supported	Unsupported	Unsupported	Unsupported				
	Group Team Site	Supported	Unsupported	Unsupported	Channel Site	Private Channel Site	Private Channel Site	Merge/Attach	
							Subsite	1	
						Shared Channel Site	Shared Channel Site]	
							Subsite		
					Team	Team Site			
					Site	Subsite			
	Site	Site Supported Unsupported	d Unsupported	Channel Site	Private Channel Site	Private Channel Site	Merge/Attach		
							Subsite		
					Shared Channel Site	Shared Channel Site			
							Subsite		
					Team	Team Site			
					Site	Subsite			
	Single List/Library	Supported	Unsupported	Unsupported	Channel Site	Private Channel Site	Private Channel Site	Attach	
			Subsite	Attach					
							List, or List Under Subsite	Merge	
					Shared Channel Site	Shared Channel Site	Attach		
							Subsite	Attach	
						List, or List Under Subsite	Merge		
					Team	Team Site	Attach		

How to Find Data	Source Object	Restore to Original Location	Restore to Storage	Export	Destination Object	(Restore to Another L	ocation)	Action	Comment
						Site	Subsite	Attach	
							List, or List Under Subsite	Merge	
						List	Merge		
	Multiple Lists & Libraries with the Same Template	Supported	Unsupported	Unsupported	Channel Site	Private Channel	Top Level Site Collection	Attach	
							Subsite		
						Shared Channel	Site Collection		
							Subsite		
					Team Site	Top Level Site Collection			
						Subsite			
	Multiple Lists & Libraries	Supported	Unsupported	Unsupported	Unsupported				
	Арр	Supported	Unsupported	Unsupported	Channel Site	Private Channel Site	Private Channel Site	Attach	
							Subsite		
						Shared Channel Site	Shared Channel Site		
							Subsite		
					Team	Team Site			
					Site	Subsite			
	Plan	Supported	Unsupported	Unsupported	Teams			Attach	Plan configurations and the tasks belonging to the selected plans can be restored.
	Task	Supported	Unsupported	Unsupported	Unsupported				
	Folder in SharePoint (Library	Supported	Supported	Supported	Channel	Private Channel		Attach	
	Folder)					Shared Channel			
						Standard channel			
					Channel	Private	Library	Attach	
					Site	Site	Folder	Merge/Attach	
						Shared	Library	Attach	
						Site	Folder	Merge/Attach	
					Team	Library	Attach		
					Site	Folder	Merge/Attach		

How to Find Data	Source Object	Restore to Original Location	Restore to Storage	Export	Destination	Object (Restore	e to Another Lo	ocation)	Action		Comment
						Subsite	te Library		Attach		
						Subsite Folder	te Library r	Merge/Attach			
	Folder in SharePoint (List Folder)	Supported	Supported	Supported	Channel Site	Private Channe Site	e nel	List, or List Under Subsite	Attach		
								Folder	Merge/Att	ach	
						Shared Channe Site	d nel	List, or List Under Subsite	Attach		
								Folder	Merge/Att	ach	
					Team Site	List, or Subsite	r List Under te	Attach			
						Folder	r	Merge/Attach			
	Multiple List & Library Folders	Supported	Supported	Supported	Unsupporte	d		•	-		
	Documents	Supported	Supported	Supported	Channel	Public Channe	nel	Library or Library Folder	Attach		
						Private Channe	e nel	Library or Library Folder		Γ	
						Shared Channe	d nel	Library or Library Folder			
					Channel Site	Private Channe	e nel	Subsite Library		ſ	
						Site		Subsite Library Folder		Ī	
								Library		ſ	
								Folder		Γ	
						Shared Channe	d nel	Subsite Library		Γ	
						Site		Subsite Library Folder		Γ	
								Library		Γ	
								Folder		Γ	
					Team Site	Subsite	te	Subsite Library		Γ	
								Subsite Library Folder	1		
						· · · · ·				I	
How to Find Data	Source Object		Restore to Original	Restore to Storage	Export	Destination Object (Restore to Another Location) Action		ction	Comment		

How to Find Data	Source Object	Restore to Original Location	Restore to Storage	Export	Destination Obj	ect (Restore to Anoth	er Location)	Action	Comment
						Library			
						Folder			

How to Find Data	Source Object			Restore to Original Location	Restore to Storage	Export	Destination Ob	ject (Restore to Anoth	er Location)	Action	Comment
TimeBased	Teams			Supported	Unsupported	Unsupported	Unsupported				
Restore *Note: The Private	Channel Site	Standard/ Private/ Shared Channel	Standard Channel Site	Supported	Unsupported	Unsupported	Channel Site	Private Channel Site	Private Channel Site	Merge/Attach	
Shared Channels can									Subsite		
only be restored through the timebased								Shared Channel Site	Shared Channel Site		
restore wizard, and both Privato									Subsite		
Channels and Shared							Team	Team Site			
Channels do not support							Site	Subsite			
the outof- place restore.			Subsite	Supported	Unsupported	Unsupported	Channel Site	Private Channel Site	Private Channel Site	Merge/Attach	
									Subsite		
								Shared Channel Site	Shared Channel Site		
									Subsite		
							Team	Team Site			
							Site	Subsite			
			Single List/Librar	Supported	Unsupported	Unsupported	Channel Site	Private Channel Site	Private Channel Site	Attach	
									Subsite	Attach	
									List/Library or List/Library Under Subsite	Merge	
								Shared Channel Site	Shared Channel Site	Attach	
									Subsite	Attach	
									List/Library or List/Library Under Subsite	Merge	
							Team	Team Site	Attach		
							Site	Subsite	Subsite	Attach	
									List/Library or List/Library	Merge	

How to Find Data	Source Object		Restore to Original Location	Restore to Storage	Export	Destination Ob	ject (Restore to Anoth	er Location)	Action	Comment
								Under Subsite		
							List/Library	Merge		
		Multiple Lists & Libraries with the	Supported	Unsupported	Unsupported	Channel Site	Private Channel	Top Level Site Collection	Attach	
		Same						Subsite	1	
		Template					Shared Channel	Top Level Site Collection		
								Subsite		
						Team Site	Top Level Site Collection			
							Subsite			
		Multiple Lists & Libraries	Supported	Unsupported	Unsupported	Unsupported				
		Library	Supported	Supported	Supported	Channels	Private Channel		Attach	
		Folder					Shared Channel			
							Standard channel			
						Channel	Private	Library	Attach	
						Site	Site	Folder	Merge/Attach	
							Shared	Library	Attach	
							Site	Folder	Merge/Attach	
						Team	Library	Attach		
						Site	Folder	Merge/Attach		
							Subsite Library	Attach		
							Subsite Library Folder	Merge/Attach		
		List Folder	Supported	Supported	Supported	Channel Site	Private Channel Site	List or List Under Subsite	Attach	
								Folder	Merge/Attach	
							Shared Channel Site	List or List Under Subsite	Attach	
								Folder	Merge/Attach	
						Team Site	List or List Under Subsite	Attach		
							Folder	Merge/Attach		
		Library Document	Supported	Supported	Supported	Channel	Public Channel	Library or Library Folder	Attach	

How to Find Data	Source Object		Restore to Original Location	Restore to Storage	Export	Destination Ob	ject (Restore to Anoth	er Location)	Action	Comment
							Private Channel	Library or Library Folder		
							Shared Channel	Library or Library Folder		
						Channel Site	Private Channel	Subsite Library		
							Site	Subsite Library Folder		
								Library		
								Folder		
							Shared Channel	Subsite Library		
							Site	Subsite Library Folder		
								Library		
								Folder		
						Team Site	Subsite	Subsite Library		
								Subsite Library Folder		
							Library			
							Folder			
		List Item & Attachment	Supported	Supported	Supported	Channel Site	Private Channel	List or List Folder	Attach	
							Site	Subsite List or List Folder		
							Shared Channel	List or List Folder		
							Site	Subsite List or List Folder		
						Team	List]	
						Site	List Folder		l	
							Subsite	List	ļ	
								Folder		
		Арр	Supported	Unsupported	Unsupported	Channel Site	Private Channel Site	Private Channel Site	Attach	

How to Find Data	Source Object		Restore to Original Location	Restore to Storage	Export	Destination Ob	ect (Restore to Anoth	er Location)	Action	Comment
								Subsite		
							Shared Channel Site	Shared Channel Site		
								Subsite		
						Team	Team Site			
						Sile	Subsite			
	Team Site	Team Site	Supported	Unsupported	Unsupported	Channel Site	Private Channel Site	Private Channel Site	Merge/Attach	
								Subsite		
							Shared Channel Site	Shared Channel Site		
								Subsite	1	
						Team	Team Site			
						Site	Subsite			
		Subsite	Supported	Unsupported	Unsupported	Channel Site	Private Channel Site	Private Channel Site	Merge/Attach	
								Subsite		
							Shared Channel Site	Shared Channel Site		
								Subsite		
						Team	Team Site			
						Site	Subsite			
		Single List/ Library	Supported	Unsupported	Unsupported	Channel Site	Private Channel Site	Private Channel Site	Attach	
								Subsite	Attach	
								List/Library or List/Library Under Subsite	Merge	
							Shared Channel Site	Shared Channel Site	Attach	
								Subsite	Attach	
								List/Library or List/Library Under Subsite	Merge	
						Team	Team Site	Attach		

How to Find Data	Source Object		Restore to Original Location	Restore to Storage	Export	Destination Object	(Restore to Another Lo	ocation)	Action	Comment
							Subsite	Subsite	Attach	
								List/Library or List/Library Under Subsite	Merge	
							List/Library	Merge		
		Multiple Lists & Libraries with the Same Template	Supported	Unsupported	Unsupported	Channel Site	Private Channel	Top Level Site Collection	Attach	
								Subsite		
							Shared Channel	Top Level Site Collection		
								Subsite		
						Team Site	Top Level Site Collection			
							Subsite			
		Multiple Lists & Libraries	Supported	Unsupported	Unsupported	Unsupported				
		Library Folder	Supported	Supported	Supported	Channels	Private Channel		Attach	
							Shared Channel			
							Standard Channel			
						Channel	Private	Library	Attach	
						Site	Site	Folder	Merge/Attach	
							Shared	Library	Attach	
							Site	Folder	Merge/Attach	
						Team Site	Library	Attach		
						5110	Folder	Merge/Attach		
							Subsite Library	Attach		
							Subsite Library Folder	Merge/Attach		
		List Folder	Supported	Supported	Supported	Channel Site	Private Channel Site	List or List Under Subsite	Attach	
								Folder	Merge/Attach	
							Shared Channel Site	List or List Under Subsite	Attach	
								Folder	Merge/Attach	
						Team Site	List or List Under Subsite	Attach		
							Folder	Merge/Attach		

How to Find Data	Source Object		Restore to Original Location	Restore to Storage	Export	Destination Object	(Restore to Another L	ocation)	Action	Comment
		Library Document	Supported	Supported	Supported	Channel	Public Channel	Library or Library Folder	Attach	
							Private Channel	Library or Library Folder		
							Shared Channel	Library or Library Folder		
						Channel Site	Private Channel	Subsite Library		
							Site	Subsite Library Folder		
								Library	1	
								Folder	1	
							Shared Channel	Subsite Library		
							Site	Subsite Library Folder		
								Library	1	
								Folder	1	
						Team	Subsite	Subsite	1	
						Site		Library		
								Subsite Library Folder		
							Library			
							Folder		1	
		List Item & Attachment	Supported	Supported	Supported	Channel Site	Private Channel	List or List Folder	Attach	
							Site	Subsite List or List Folder		
							Shared Channel	List or List Folder		
							Site	Subsite List or List Folder]	
						Team	List			
						Site	List Folder			
							Subsite	List		
								Folder		

How to Find Data	Source O	bject		Restore to Original Location	Restore to Storage	Export	Destination Object	(Restore to Another L	ocation)	Action	Comment
		Арр		Supported	Unsupported	Unsupported	Channel Site	Private Channel Site	Private Channel Site	Attach	
									Subsite		
								Shared Channel Site	Shared Channel Site		
									Subsite		
							Team	Team Site			
							Site	Subsite			
	Meetin gs	Meetin gs Folder		Supported	Unsupported	Unsupported	Unsupported				
		Meetin g Item		Supported	Unsupported	Unsupported	Unsupported				
	Channe Is	Standar d Channe l	Standar d Channe l	Supported	Supported	Unsupported	Team			Attach	
			Channe	Supported	Supported	Supported	Channel	Public Channel		Attach	
			l's Files					Private Channel			
			Folder					Shared Channel			
							Channel Site	Private Channel	Subsite Library	Attach	
								Site	Subsite Library Folder	Merge/Attach	
									Library	Attach	
									Folder	Merge/Attach	
								Shared Channel	Subsite Library	Attach	
								Site	Subsite Library Folder	Merge/Attach	
									Library	Attach	
									Folder	Merge/Attach	
							Team	Subsite	Library	Attach	
							Site		Folder	Merge/Attach	
								Library	Attach		
								Folder	Merge/Attach		
			Folder in the	Supported	Supported	Supported	Channel	Public Channel	1	Attach	
			Channe l's Files Folder					Private Channel Shared Channel			

How to Find Data	Source Object		Restore to Original Location	Restore to Storage	Export	Destination Obj	ect (Restore to Anoth	er Location)	Action	Comment
						Channel Site	Private Channel	Subsite Library	Attach	
							Site	Subsite Library Folder	Merge/Attach	
								Library	Attach	
								Folder	Merge/Attach	
							Shared Channel	Subsite Library	Attach	
							Site	Subsite Library Folder	Merge/Attach	
								Library	Attach	
								Folder	Merge/Attach	
						Team	Subsite	Library	Attach	
						Sile		Folder	Merge/Attach	
							Library	Attach		
							Folder	Merge/Attach		
		Files in the	Supported	Supported	Supported	Channels	Public Channel		Attach	
		Files Folder					Private Channel			
							Shared Channel			
						Channel Site	Private Channel	Subsite Library		
							Site	Subsite Library Folder		
								Library		
								Folder		
							Shared Channel	Subsite Library		
							Site	Subsite Library Folder		
								Library	1	
								Folder	1	
						Team	Subsite	Library	1	
						Site		Folder]	
							Library			
							Folder			
		Conversation	Supported	Supported	Supported	Unsupported				Channel conversations can be restored as

How to Find Data	Source Object			Restore to Original Location	Restore to Storage	Export	Destination Object (Restore to Another Location		er Location)	Action	Comment
											posts or to HTML files.
		Private Channel	Private Channel	Supported	Supported	Unsupported	Unsupported				
			Channel's	Supported	Supported	Supported	Channel	Public Channel		Attach	
			Files Folder					Private Channel		-	
								Shared Channel			
							Channel Site	Private Channel	Subsite Library	Attach	
								Site	Subsite Library Folder	Merge/Attach	
									Library	Attach	
									Folder	Merge/Attach	
								Shared Channel	Subsite Library	Attach	
								Site	Subsite Library Folder	Merge/Attach	
									Library	Attach	
									Folder	Merge/Attach	
							Team	Subsite	Library	Attach	
							Site		Folder	Merge/Attach	
								Library	Attach		
								Folder	Merge/Attach		
			Folder in the	Supported	Supported	Supported	Channel	Public Channel		Attach	
			Files Folder					Private Channel		4	
								Shared Channel			
							Channel Site	Private Channel	Subsite Library	Attach	
								Site	Subsite Library Folder	Merge/Attach	
									Library	Attach	
									Folder	Merge/Attach	
								Shared Channel	Subsite Library	Attach	
								Site	Subsite Library Folder	Merge/Attach	
									Library	Attach	

How to Find Data	Source Object			Restore to Original Location	Restore to Storage	Export	Destination Object (Restore to Another Location)		er Location)	Action	Comment
									Folder	Merge/Attach	
							Team	Subsite	Library	Attach	
							Site		Folder	Merge/Attach	
								Library	Attach		
								Folder	Merge/Attach		
			Files in the	Supported	Supported	Supported	Channels	Public Channel		Attach	
			Channel's Files Folder					Private Channel			
			Theorem and the second s					Shared Channel			
							Channel	Private	Subsite		
							Site	Channel Site	Library		
									Subsite Library		
									Folder		
									Library		
									Folder		
								Shared	Subsite		
								Channel Site	Library		
								Site	Subsite Library		
									Folder		
									Library		
									Folder		
							Team	Subsite	Library		
							Site		Folder		
								Library			
								Folder			
			Conversation	Supported	Supported	Supported	Unsupported				Channel conversations can be restored as posts or to HTML files.
		Shared Channel	Shared Channel	Supported	Supported	Unsupported	Unsupported				
			Channel's	Supported	Supported	Unsupported	Channel	Public Channel		Attach	
			Files Folder					Private Channel		1	
								Shared Channel			
							Channel Site	Private Channel	Subsite Library	Attach	
								Site	Subsite Library Folder	Merge/Attach	

How to Find Data	Source Object		Restore to Original Location	Restore to Storage	Export	Destination Obj	ect (Restore to Anoth	er Location)	Action	Comment
								Library	Attach	
								Folder	Merge/Attach	
							Shared Channel	Subsite Library	Attach	
							Site	Subsite Library	Merge/Attach	
								Folder	Attach	
								Eolder	Merge/Attach	
						Toom	Subsito	Library	Attach	
						Site	Subsite	Eoldor	Morgo/Attach	
							Library	Attach	Merge/Attach	
							Library	Attach		
		The second s					Folder	Merge/Attach	A.1	
		Channel's	Supported	Supported	Supported	Channel	Public Channel		Attach	
		Files Folder					Private Channel			
							Shared Channel			
						Channel Site	Private Channel	Subsite Library	Attach	
							Site	Subsite Library Folder	Merge/Attach	
								Library	Attach	
								Folder	Merge/Attach	
							Shared Channel	Subsite Library	Attach	
							Site	Subsite Library Folder	Merge/Attach	
								Library	Attach	
								Folder	Merge/Attach	
						Team	Subsite	Library	Attach	
						Site		Folder	Merge/Attach	
							Library	Attach		
							Folder	Merge/Attach		
		Files in the	Supported	Supported	Supported	Channels	Public Channel		Attach	
		Channel's					Private Channel			
		i iles rolder					Shared Channel			
						Channel	Private	Subsite		
						Site	Channel Site	Library		
								Subsite Library		
How to Find Data	Source Object		Restore to Original Location	Restore to Storage	Export	Destination Obj	ect (Restore to Anoth	er Location)	Action	Comment

How to Find Data	Source Object			Restore to Original Location	Restore to Storage	Export	Destination Object (Restore to Another Location)		Action	Comment	
									Folder		
									Library		
									Folder		
								Shared Channel	Subsite Library		
								Site	Subsite Library Folder		
									Library		
									Folder		
							Team	Subsite	Library		
							Site		Folder		
								Library			
								Folder			
			Conversation	Supported	Supported	Supported	Unsupported				Channel conversations can be restored as posts or to HTML files.
	Planner	Plan		Supported	Unsupported	Unsupported	Teams			Attach	Plan configurations and the tasks belonging to the selected plans can be restored.
		Task		Supported	Unsupported	Unsupported	Unsupported				
	Group	Group Conversa	tion	Supported	Unsupported	Unsupported	Unsupported				
	Conversation	Item in Group C	onversation	Supported	Unsupported	Unsupported	Unsupported				

Restore Conflict Resolutions

Refer to the table below for the available conflict resolutions against each object type in Exchange Online, OneDrive, SharePoint Online, Project Online, Public Folders, Microsoft 365 Groups, and Teams.

Note that the data in the table below shows the supported state while HSM is disabled.

Service Type	Object Type	Container Level Conflict Resolution	Content Level Conflict Resolution	App Conflict Resolution
Exchange Online	Mailbox	Skip Merge	Skip Append Overwrite	1
	Folder	Skip Merge	Skip Append Overwrite	/
	Mailbox Item	/	Skip Append Overwrite	/

Service Type	Object Type	Container Level Conflict Resolution	Content Level Conflict Resolution	App Conflict Resolution
OneDrive	OneDrive User	Skip	Skip	/
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Library	Skip	Skip	1
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Folder	Skip	Skip	1
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Documentt	/	Skip	/
			Overwrite	
			Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	

Service Type	Object Type	Container Level Conflict Resolution	Content Level Conflict Resolution	App Conflict Resolution
SharePoint Online	Site Collection	Skip	Skip	Skip
		Merge	Overwrite	Overwrite
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Site	Skip	Skip	Skip
		Merge	Overwrite	Overwrite
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	List/Library	Skip	Skip	/
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Folder	Skip	Skip	/
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Item/Document	/	Skip	/
			Overwrite	
			Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Арр	Skip	/	Skip
		Merge		Overwrite

Service Type	Object Type	Container Level Conflict Resolution	Content Level Conflict Resolution	App Conflict Resolution
Project Online	Site Collection	Skip	Skip	Skip
		Merge	Overwrite	Overwrite
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Site	Skip	Skip	Skip
		Merge	Overwrite	Overwrite
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Project	Skip	Skip	1
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	List/Library	Skip	Skip	/
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Folder	Skip	Skip	1
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	

Service Type	Object Type	Container Level Conflict Resolution	Content Level Conflict Resolution	App Conflict Resolution
	Document	/	Skip	/
			Overwrite	
			Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Арр	Skip	/	Skip
		Merge		Overwrite
Public Folder	Folder	Skip	Skip	1
			Overwrite	
	Mailbox Item	/	Skip	/
			Overwrite	
Microsoft 365	Group	Skip	Skip	Skip
Groups		Merge	Overwrite	Overwrite
			Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Group Team Site	Skip	Skip	Skip
		Merge	Overwrite	Overwrite
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	

Service Type	Object Type	Container Level Conflict Resolution	Content Level Conflict Resolution	App Conflict Resolution
	Site	Skip	Skip	Skip
		Merge	Overwrite	Overwrite
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	List/Library	Skip	Skip	/
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Folder in	Skip	Skip	1
	SharePoint	Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Document	/	Skip	/
			Overwrite	
			Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Арр	Skip	/	Skip
		Merge		Overwrite
	Group Mailbox	/	Skip	1
			Overwrite	
	Folder in Mailbox	/	Skip Overwrite	/
	Mailbox Item	/	Skip Overwrite	/

Service Type	Object Type	Container Level Conflict Resolution	Content Level Conflict Resolution	App Conflict Resolution
	Plan	/	Skip	/
			Overwrite	
	Task	/	Skip	/
			Overwrite	
Teams	Team	Skip	Skip	Skip
		Merge	Overwrite	Overwrite
			Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Group Team Site	Skip	Skip	Skip
		Merge	Overwrite	Overwrite
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Site	Skip	Skip	Skip
		Merge	Overwrite	Overwrite
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	List/Library	Skip	Skip	/
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	

Service Type	Object Type	Container Level Conflict Resolution	Content Level Conflict Resolution	App Conflict Resolution
	Folder in	Skip	Skip	/
	ShareFoint	Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Document	/	Skip	1
			Overwrite	
			Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Арр	Skip	/	Skip
		Merge		Overwrite
	Group Mailbox	/	Skip	/
			Overwrite	
	Folder in Mailbox	/	Skip Overwrite	/
	Mailbox Item	/	Skip Overwrite	/
	Plan	/	Skip	/
			Overwrite	
	Task	/	Skip	/
			Overwrite	
	Public Channel	Skip	Skip	/
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Channel > Conversations	/	1	/

Service Type	Object Type	Container Level Conflict Resolution	Content Level Conflict Resolution	App Conflict Resolution
	Channel > Files	Skip	Skip	/
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Channel > Files >	Skip	Skip	/
	Folder	Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Private Channel	Skip	Skip	/
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Private Channel > Conversations	/	/	/
	Private Channel >	Skip	Skip	/
	Files	Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Private Channel >	Skip	Skip	1
	Files > Folder	Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	

Service Type	Object Type	Container Level Conflict Resolution	Content Level Conflict Resolution	App Conflict Resolution
	Meetings	/	Skip	/
			Overwrite	
	Group	/	Skip	/
	Conversations		Overwrite	
Viva Engage	Viva Engage Community	Skip	Skip	Skip
		Merge	Overwrite	Overwrite
			Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Viva Engage Messages	Skip	Skip	/
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Viva Engage Files	Skip	Skip	/
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Site Collection	Skip	Skip	Skip
		Merge	Overwrite	Overwrite
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	

Service Type	Object Type	Container Level Conflict Resolution	Content Level Conflict Resolution	App Conflict Resolution
	Site	Skip	Skip	Skip
		Merge	Overwrite	Overwrite
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	List/Library	Skip	Skip	/
		Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Арр	Skip	/	Skip
		Merge		Overwrite
	Folder in	Skip	Skip	1
	SharePoint	Merge	Overwrite	
		Replace	Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Document	/	Skip	/
			Overwrite	
			Overwrite by Last Modified Time	
			Append an "_1" to the Item/ Document	
	Plan	/	Skip	1
			Overwrite	
	Task	/	Skip	/
			Overwrite	
Microsoft Teams Chat	User	/	/	/
	Chat	/	1	1
	Chat Message	/	/	/

IBM Storage Protect for Cloud Microsoft 365: User Guide

Appendix A - Accessibility features for the IBM Storage Protect for Cloud

Accessibility features assist users who have a disability, such as restricted mobility or limited vision, to use information technology content successfully.

Overview

The IBM Storage Protect for Cloud includes the following major accessibility features:

- · Keyboard-only operation
- · Operations that use a screen reader

The IBM Storage Protect for Cloud product ensures compliance with <u>US Section 508</u>, <u>Web Content</u> <u>Accessibility Guidelines (WCAG) 2.0</u>, and <u>EN 301 549</u>. To take advantage of accessibility features, use the latest release of your screen reader and the latest web browser that is supported by the product.

The product documentation in IBM Documentation is enabled for accessibility.

Keyboard navigation

This product uses standard navigation keys.

Interface information

User interfaces do not have content that flashes 2 - 55 times per second.

Web user interfaces rely on cascading style sheets to render content properly and to provide a usable experience. The application provides an equivalent way for low-vision users to use system display settings, including high-contrast mode. You can control font size by using the device or web browser settings.

Related accessibility information

In addition to standard IBM help desk and support websites, IBM has a TTY telephone service for use by deaf or hard of hearing customers to access sales and support services:

TTY service 800-IBM-3383 (800-426-3383) (within North America)

For more information about the commitment that IBM has to accessibility, see IBM Accessibility.

IBM Storage Protect for Cloud Microsoft 365: User Guide
Notices

This information was developed for products and services offered in the US. This material might be available from IBM in other languages. However, you may be required to own a copy of the product or product version in that language in order to access it.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

IBM Director of Licensing IBM Corporation North Castle Drive, MD-NC119 Armonk, NY 10504-1785 US

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

Intellectual Property Licensing Legal and Intellectual Property Law IBM Japan Ltd. 19-21, Nihonbashi-Hakozakicho, Chuo-ku Tokyo 103-8510, Japan

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM websites are provided for convenience only and do not in any manner serve as an endorsement of those websites. The materials at those websites are not part of the materials for this IBM product and use of those websites is at your own risk.

IBM may use or distribute any of the information you supply in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

IBM Director of Licensing IBM Corporation North Castle Drive, MD-NC119 Armonk, NY 10504-1785 US Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

The performance data discussed herein is presented as derived under specific operating conditions. Actual results may vary.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to the names and addresses used by an actual business enterprise is entirely coincidental.

COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

Each copy or any portion of these sample programs or any derivative work must include a copyright notice as follows: [©] (your company name) (year). Portions of this code are derived from IBM Corp. Sample Programs. [©] Copyright IBM Corp. _enter the year or years_.

Trademarks

IBM, the IBM logo, and ibm.com[®] are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the Web at "Copyright and trademark information" at www.ibm.com/legal/copytrade.shtml.

Adobe is a registered trademark of Adobe Systems Incorporated in the United States, and/or other countries.

Linear Tape-Open, LTO, and Ultrium are trademarks of HP, IBM Corp. and Quantum in the U.S. and other countries.

Intel and Itanium are trademarks or registered trademarks of Intel Corporation or its subsidiaries in the United States and other countries.

The registered trademark Linux[®] is used pursuant to a sublicense from the Linux Foundation, the exclusive licensee of Linus Torvalds, owner of the mark on a worldwide basis.

Microsoft, Windows, and Windows NT are trademarks of Microsoft Corporation in the United States, other countries, or both.

Java[™] and all Java-based trademarks and logos are trademarks or registered trademarks of Oracle and/or its affiliates.

Red Hat[®], OpenShift[®], Ansible[®], and Ceph[®] are trademarks or registered trademarks of Red Hat, Inc. or its subsidiaries in the United States and other countries.

UNIX is a registered trademark of The Open Group in the United States and other countries.

VMware, VMware vCenter Server, and VMware vSphere are registered trademarks or trademarks of VMware, Inc. or its subsidiaries in the United States and/or other jurisdictions.

Terms and conditions for product documentation

Permissions for the use of these publications are granted subject to the following terms and conditions.

Applicability

These terms and conditions are in addition to any terms of use for the IBM website.

Personal use

You may reproduce these publications for your personal, noncommercial use provided that all proprietary notices are preserved. You may not distribute, display or make derivative work of these publications, or any portion thereof, without the express consent of IBM.

Commercial use

You may reproduce, distribute and display these publications solely within your enterprise provided that all proprietary notices are preserved. You may not make derivative works of these publications, or reproduce, distribute or display these publications or any portion thereof outside your enterprise, without the express consent of IBM.

Rights

Except as expressly granted in this permission, no other permissions, licenses or rights are granted, either express or implied, to the publications or any information, data, software or other intellectual property contained therein.

IBM reserves the right to withdraw the permissions granted herein whenever, in its discretion, the use of the publications is detrimental to its interest or, as determined by IBM, the above instructions are not being properly followed.

You may not download, export or re-export this information except in full compliance with all applicable laws and regulations, including all United States export laws and regulations.

IBM MAKES NO GUARANTEE ABOUT THE CONTENT OF THESE PUBLICATIONS. THE PUBLICATIONS ARE PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.

Privacy policy considerations

IBM Software products, including software as a service solutions, ("Software Offerings") may use cookies or other technologies to collect product usage information, to help improve the end user experience, to tailor interactions with the end user, or for other purposes. In many cases no personally identifiable information is collected by the Software Offerings. Some of our Software Offerings can help enable you to collect personally identifiable information. If this Software Offering uses cookies to collect personally identifiable information about this offering's use of cookies is set forth below.

This Software Offering does not use cookies or other technologies to collect personally identifiable information.

If the configurations deployed for this Software Offering provide you as customer the ability to collect personally identifiable information from end users via cookies and other technologies, you should seek your own legal advice about any laws applicable to such data collection, including any requirements for notice and consent.

For more information about the use of various technologies, including cookies, for these purposes, see IBM's Privacy Policy at http://www.ibm.com/privacy and IBM's Online Privacy Statement at http://www.ibm.com/privacy and IBM's Online Privacy Statement at http://www.ibm.com/privacy and IBM's Online Privacy Statement at http://www.ibm.com/privacy and IBM's Online Privacy Statement at http://www.ibm.com/privacy/details in the section entitled "Cookies, Web Beacons and Other Technologies," and the "IBM Software Products and Software-as-a-Service Privacy Statement" at http://www.ibm.com/software-as-a-Service Privacy Statement" at http://www.ibm.com/software-as-a-Service Privacy Statement" at http://www.ibm.com/software/info/product-privacy.

IBM Storage Protect for Cloud Microsoft 365: User Guide



Product Number: 5900-AP6