

Accelerate with ATG

IBM Storage Ceph 30 Minute Installation Challenge

John Shubeck – ATG Storage Technical Specialist Date: March 21, 2023





Accelerate with ATG Technical Webinar Series

Advanced Technology Group experts cover a variety of technical topics.

Audience: Clients who have or are considering acquiring IBM Storage solutions. Business Partners and IBMers are also welcome.

To automatically receive announcements of upcoming Accelerate with IBM Storage webinars, Clients, Business Partners and IBMers are welcome to send an email request to <u>accelerate-join@hursley.ibm.com</u>.

2023 Upcoming Webinars – click on the link to register for the live event:

March 28 - <u>How to Size for FlashSystem Safeguarded Copy 201 –</u> <u>Using IBM Storage Insights to Gather Data</u>

April 18 – IBM TS7700 Best Practices for Disaster Recover Testing

April 25 – IBM Storage Virtualize 8.5.4 and Storage Sentinel Technical Update

May 2 – IBM Storage Ceph S3 Object Storage Demo

Important Links to bookmark:



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ATG Accelerate Support Site: <u>https://www.ibm.com/support/pages/node/1125513</u>

ATG MediaCenter Channel: <u>https://ibm.biz/BdfEgQ</u>



ATG-Storage Offerings

CLIENT WORKSHOPS

- IBM Cloud Object Storage System
- IBM Storage Scale and Storage Scale System
- > IBM DS8900F Advanced Functions May 9-10, 2023, in Dallas, TX
- IBM Storage Point of View on Cyber Resiliency
- IBM FlashSystem 9500 Deep Dive & Advanced Functions
- IBM Storage Fusion

Please reach out to your IBM Rep or Business Partner for future dates and to be nominated.

TEST DRIVE / DEMO'S

- > North America ATG Storage IBM Storage Scale and Storage Scale System GUI
- > North America ATG Storage IBM Storage Virtualize Test Drive
- > North America ATG Storage IBM DS8900F Storage Management Test Drive
- > North America ATG Storage Managing Copy Services on the DS8000 Using IBM Copy Services Manager Test Drive
- > North America ATG Storage IBM DS8900F Safeguarded Copy (SGC) Test Drive
- > North America ATG Storage IBM Cloud Object Storage Test Drive (Appliance based)
- > North America ATG Storage IBM Cloud Object Storage Test Drive (VMware based)
- North America ATG Storage IBM Storage Protect Live Test Drive
- > North America ATG Storage IBM Storage Protect Plus Live Test Drive
- > North America ATG Storage IBM Storage Ceph Test Drive (VMware based)

Please reach out to your IBM Rep or Business Partner for more information.

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About the Presenter



John Shubeck is an information technology professional with over 41 years of industry experience spanning both the customer and technology provider experience. John is currently serving as a Senior Storage Technical Specialist on IBM Object Storage platforms across all market segments in the Americas.



Introducing our panelists



Lloyd Dean is an IBM Principal Storage Technical Specialist in IBM Storage Solutions. Lloyd has held numerous senior technical roles at IBM during his 22 plus years at IBM. Lloyd most recently is leading efforts in the Advanced Technology Group as the IBM Storage for Red Hat OpenShift focal and as a Hybrid Cloud storage solution SME covering IBM Block, File and Object storage solutions and their use cases supporting IBM Cloud Paks.



Shawn Houston is a programmer and Software Defined Storage Specialist with over 30 years of professional experience. Shawn's career so far has included Electrical Engineering, Space Communications, High Performance Computing, Web Security, and Bioinformatics prior to his career's current Software Defined Storage trajectory. Shawn is currently a Senior Solution Architect at IBM on the America's Fusion Team.

Agenda



- What is IBM Storage Ceph
- IBM Storage Ceph Basics
- IBM Storage Ceph POC Node topology
- Installing IBM Storage Ceph
- IBM Storage Ceph bootstrap on the first node
- Expanding the cluster to a total of four (4) nodes
- Incorporating the Object Storage Daemons/Devices (OSDs)
- Day 2 bonus topic
- Summing it all up

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What is IBM Storage Ceph?

IBM Storage Ceph is a scalable, open, softwaredefined storage platform that combines an enterprise-hardened version of the Ceph storage system, with a Ceph management platform, deployment utilities, and support services.

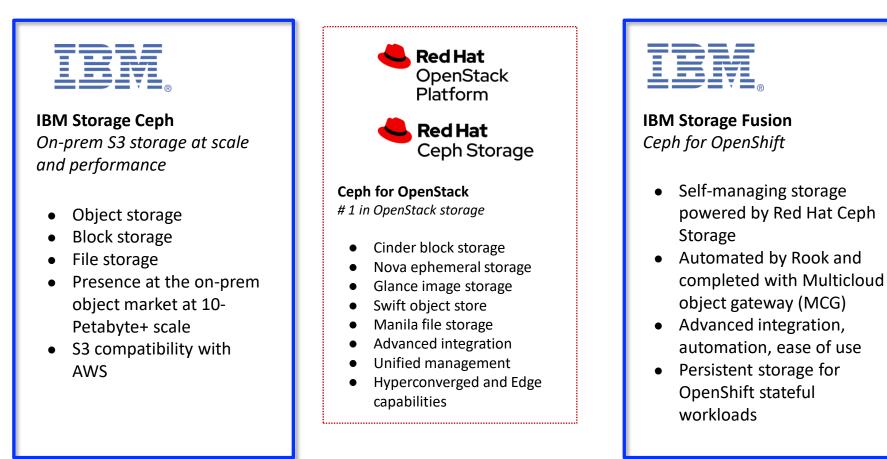
IBM Storage Ceph is a bundled product containing Ceph, IBM Spectrum Control, and Red Hat Enterprise Linux (RHEL).

It is packaged as two deployment options and is fully supported by IBM.

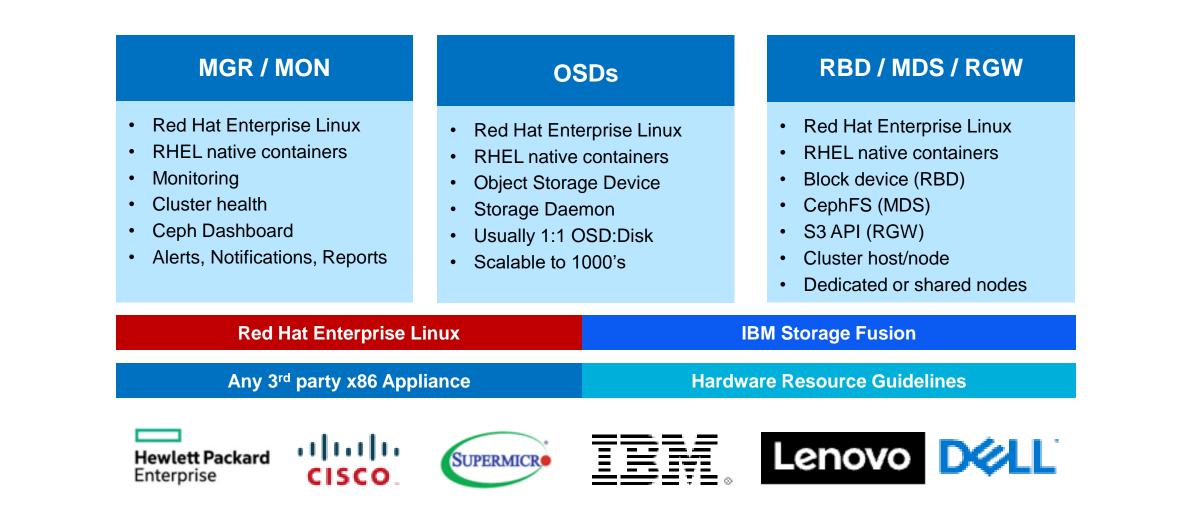


IBM Storage Ceph Offering

IBM Storage Ceph and Red Hat Ceph packaging



IBM Storage Ceph high level overview

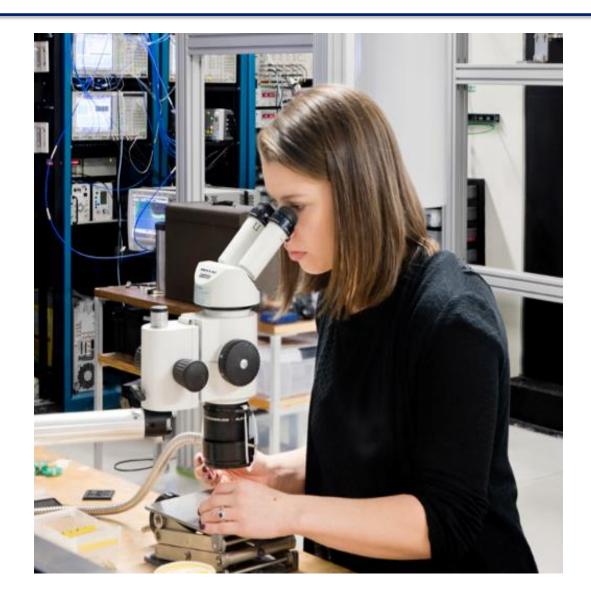


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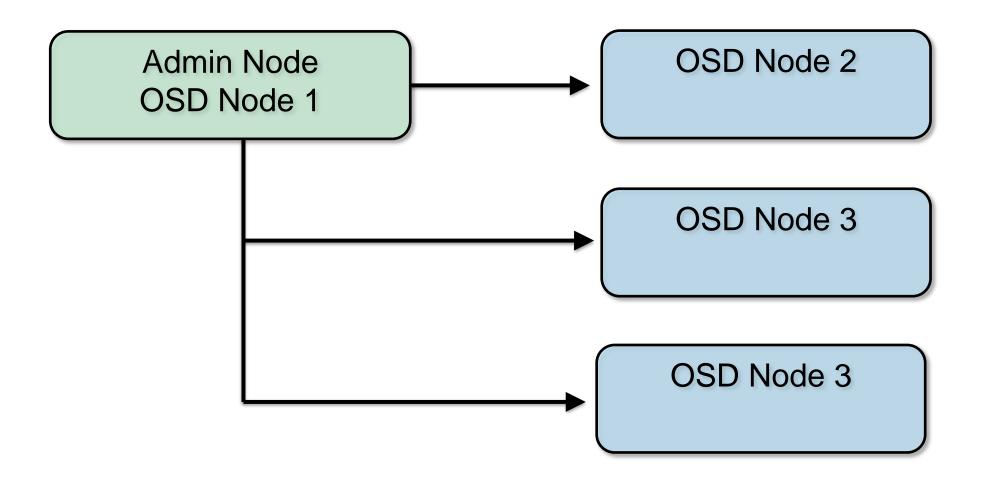
IBM Storage Ceph Demo Configuration



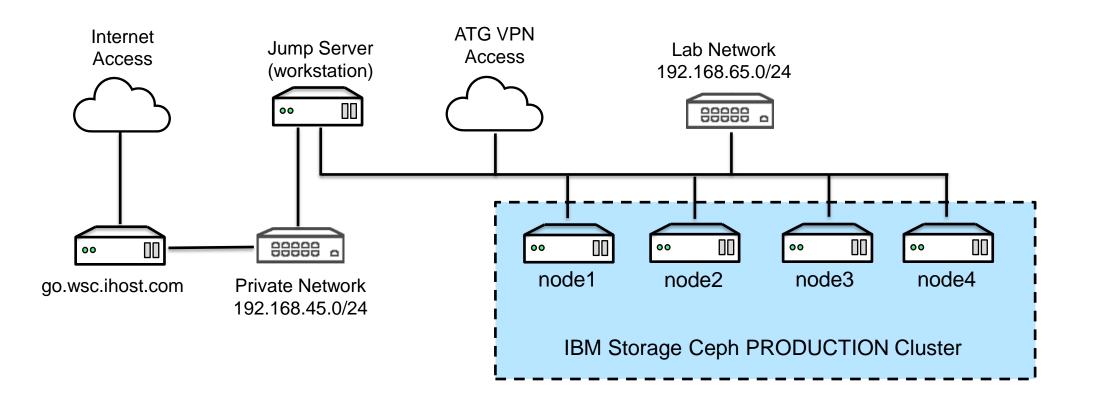




IBM Technology Zone: Ceph Test Drive Cluster Layout



IBM Storage Ceph – Minimum production cluster

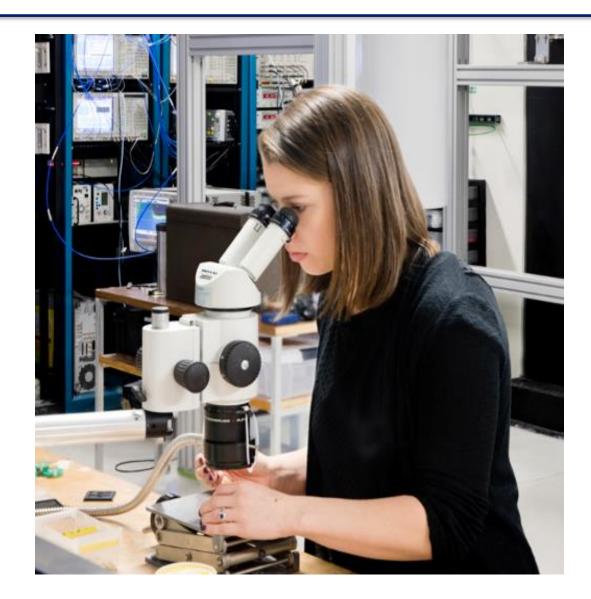


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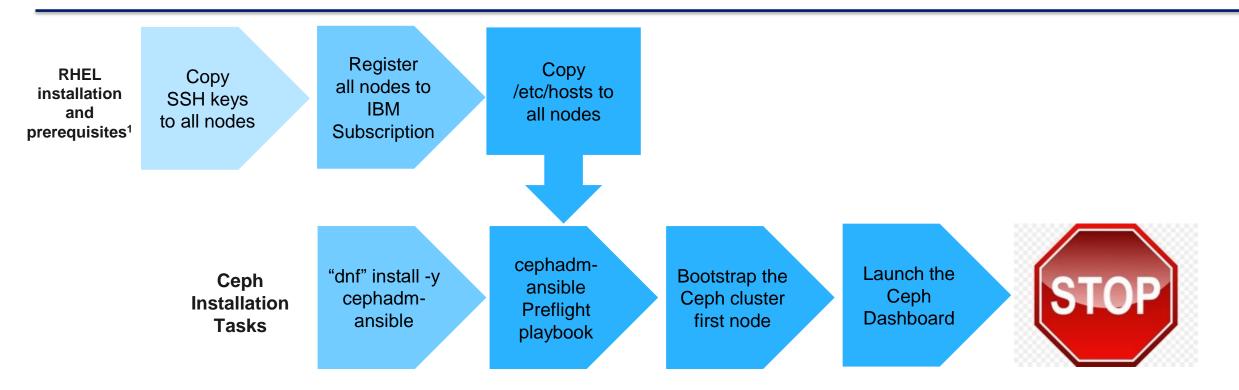


IBM Storage Ceph Installation Challenge



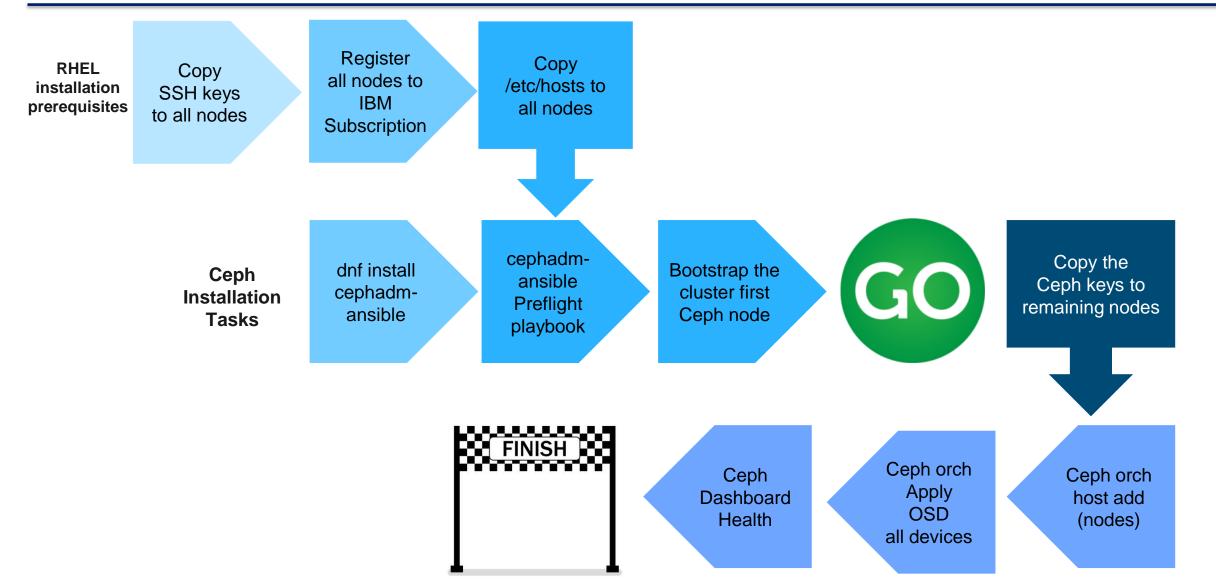


IBM Storage Ceph S3 Object Storage tasks



1. https://www.ibm.com/docs/en/storage-ceph/5?topic=installation-registering-storage-ceph-nodes © Copyright IBM Corporation 2023 IN

IBM Storage Ceph S3 Object Storage tasks

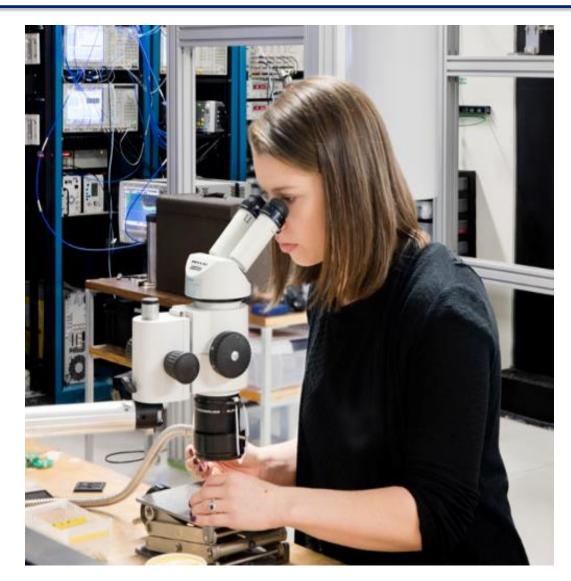


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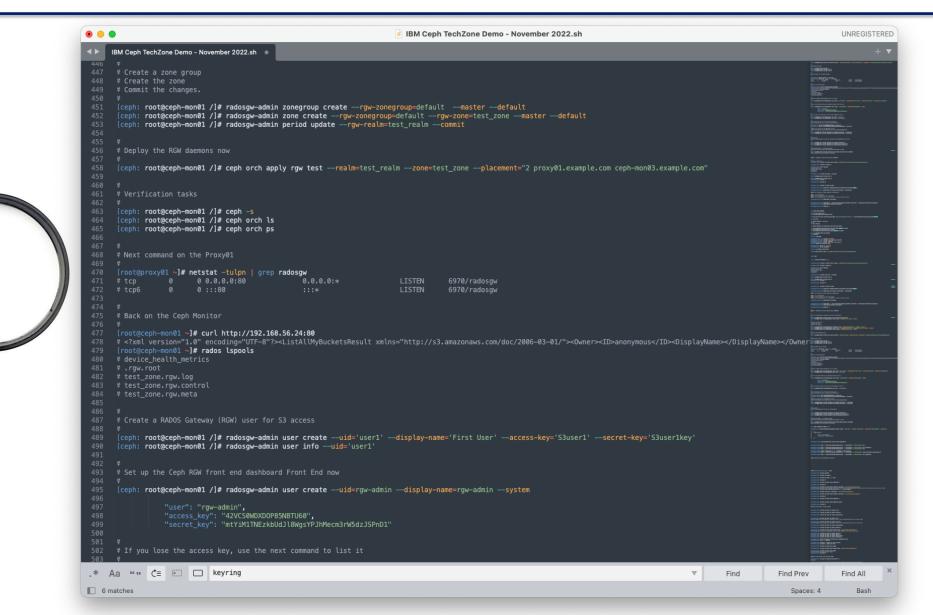


IBM Storage Ceph Installation – Summing it all up



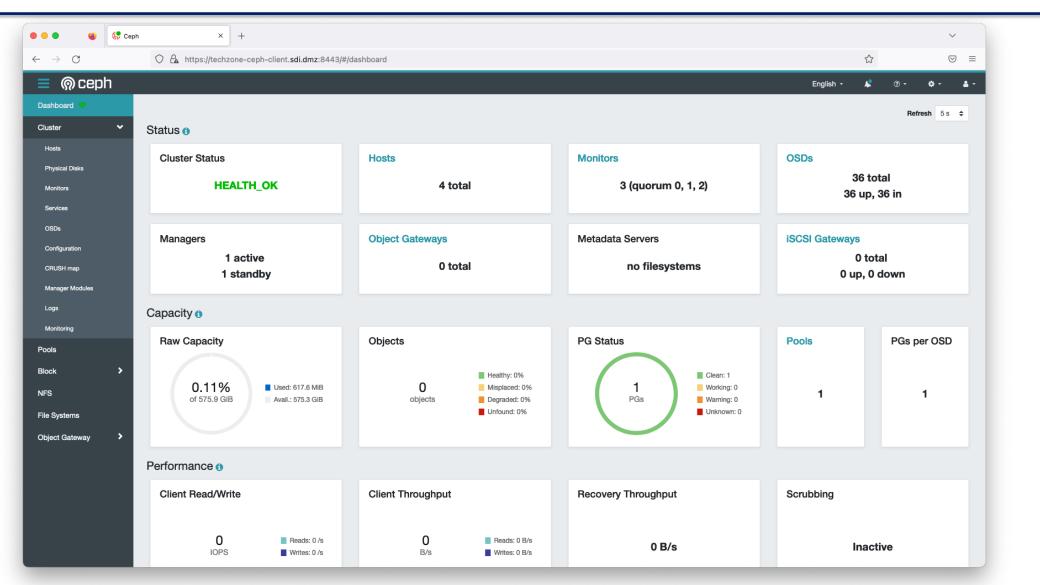


"cephadm" – The Command Line Interface



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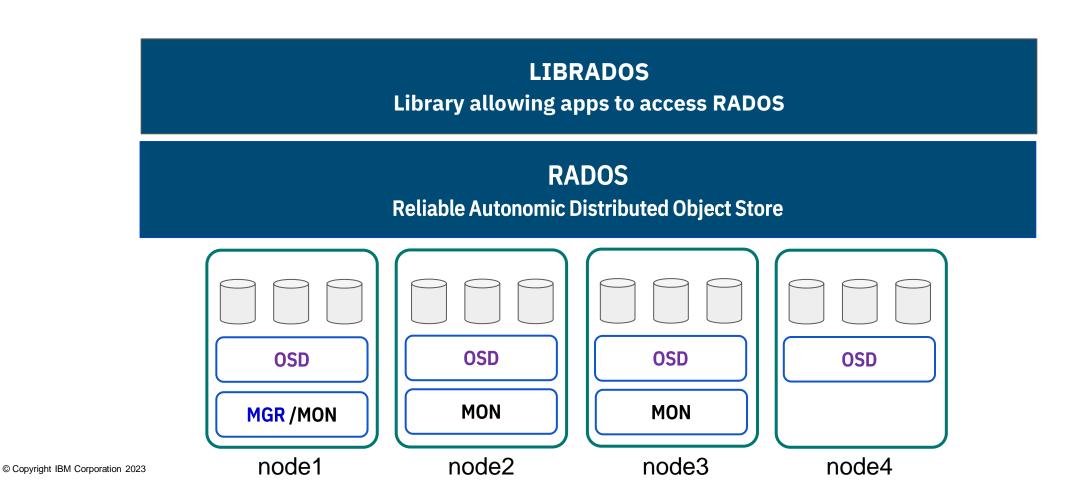
Ceph Dashboard – The Browser Interface





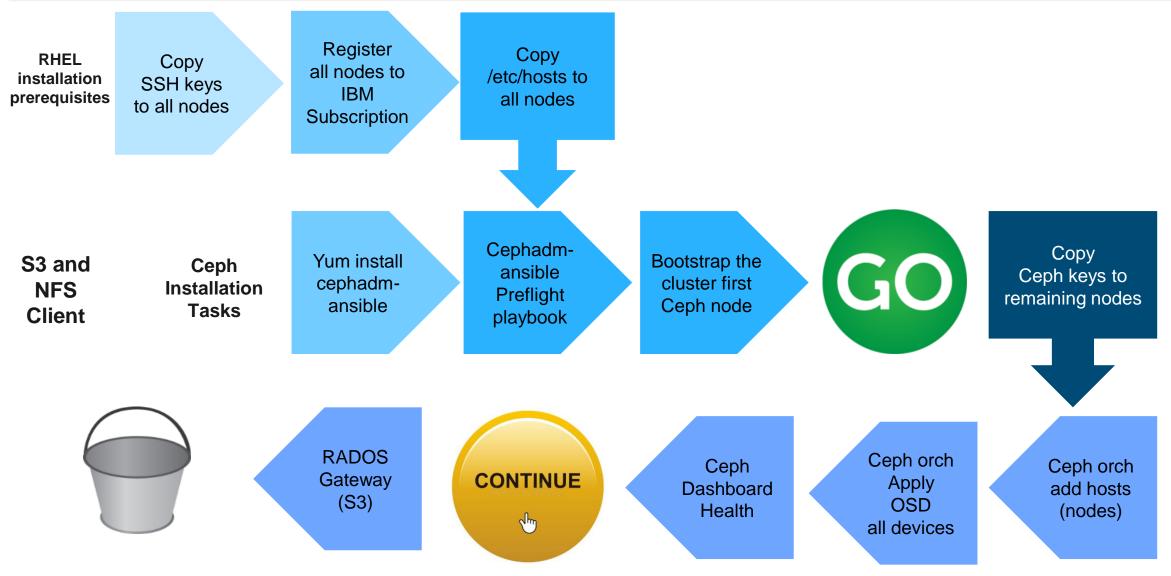
IBM Storage Ceph – Colocated daemons

Installation challenge node layout





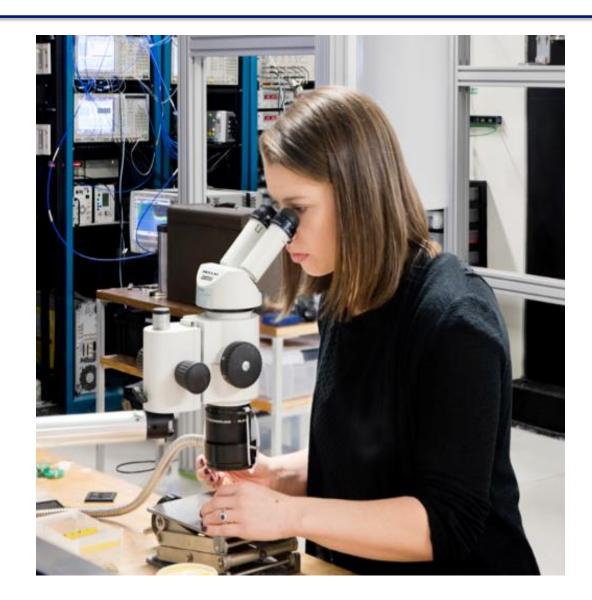
IBM Storage Ceph Day 2 Storage tasks – Day 2



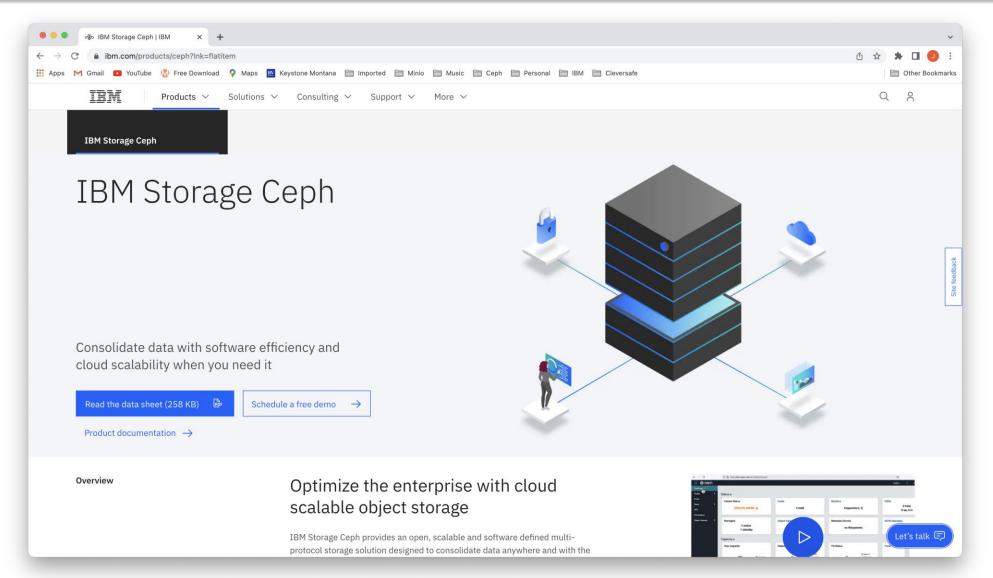


IBM Storage Ceph – Summing it all up





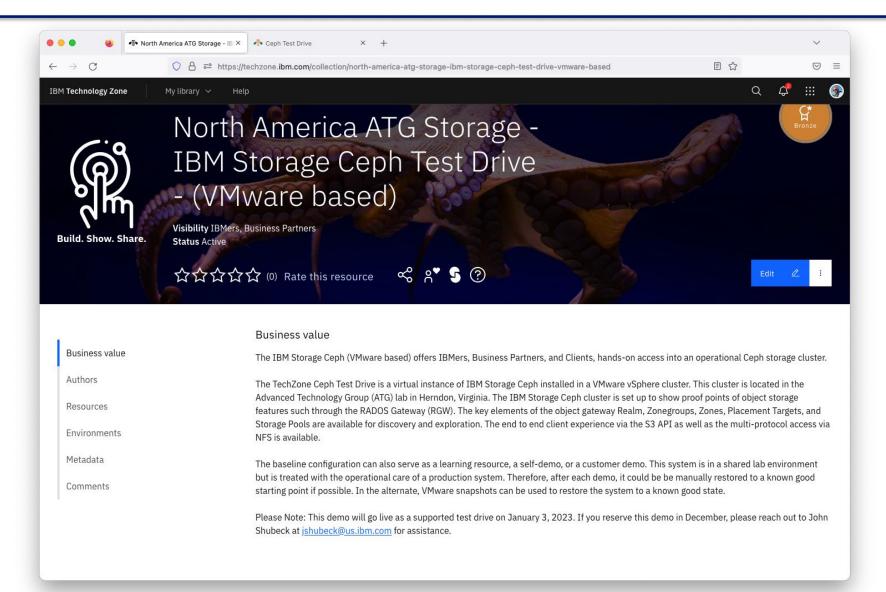
IBM Storage Ceph Product Page



IBM Storage Ceph Documentation

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IBM Technology Zone Test Drive



ATG Accelerate – May 2, 2023



Accelerate with ATG

IBM Storage <u>Ceph</u> S3 Object Storage Demo

John Shubeck – ATG Storage Technical Specialist Date: May 2, 2023



Storage Ceph



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