IBM Content Collector
4.0.1.15 Interim Fix 9

Readme

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IBM Content Collector 4.0.1.15 Interim Fix 9

Readme documentation for IBM® Content Collector 4.0.1.15 interim fix 9 including installation-related instructions, prerequisites and co-requisites, and information about fixes, changes, and limitations for IBM Content Collector for Email, IBM Content Collector for File Systems and IBM Content Collector for Microsoft SharePoint.

Readme file for:
IBM Content Collector

Product / Component release:
Version 4.0.1.15

Update Name:
Interim Fix 009

Fix ID:
4.0.1.15-IBM-ICC-IF009

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Download location

The following deliverables are available for download from the IBM Fix Central:

Download Collector 4.0.1.15 interim fix 9 fix files
https://www.ibm.com/support/fixcentral/swg/selectFixes?parent=Enterprise%2BContent%2BManagement&product=ibm/Information+Management/Content+Collector&release=4.0.1.15&platform=ALL&function=fixId&fixids=4.0.1.15-IBM-ICC-IF009&includeRequisites=1&includeSuperse

It includes steps to install the IBM Runtime Environment Java 8.0.8.15 which is used by Content Collector.

Note: This interim fix is not applicable for Solaris platform because IBM Java 8 32-bit JRE is not available for Solaris.

Product / Component name	Platform	File name
IBM Content Collector 4.0.1.15 interim fix 9 readme https://www.ibm.com/support/pages/node/7116567	Not applicable	4.0.1.15-IBM-ICC-IF009.pdf
IBM Content Collector Server https://www.ibm.com/support/fixcentral	Windows	4.0.1.15-IBM-ICC-WIN-IF009.zip
Content Collector 4.0.1.15 interim fix 9 CM8 Text Search Support	AIX	4.0.1.15-IBM-ICC-AIX-IF009.gz
	Linux	4.0.1.15-IBM-ICC-Linux32-IF009.tgz
	Linux for zSeries	4.0.1.15-IBM-ICC-Linuxz-IF009.tgz

Prerequisites and corequisites

1. The server package of this interim fix requires one of the following Content Collector versions installed on your operating system:

Content Collector 4.0.1
• Content Collector 4.0.1.10 • Content Collector 4.0.1.11 • Content Collector 4.0.1.12 • Content Collector 4.0.1.13 • Content Collector 4.0.1.14 • Content Collector 4.0.1.15

2. This interim fix is completely independent of following interim fixes and can be deployed on top of it:

Content Collector release version	Components	Release content
Content Collector 4.0.1.15 interim fix 1 https://www.ibm.com/support/pages/node/6823863	Server	**Java PSIRT fixes** CVE-2022-21496, CVE-2022-21434, CVE-2022-21443, CVE-2022-21299, CVE-2021-35561 Solution: Upgrade Java to 8.0.7.10.
Content Collector 4.0.1.15 interim fix 2 https://www.ibm.com/support/pages/node/6846217	Server (Web Application)	**Liberty PSIRT fixes** CVE-2022-34165 Solution: Upgrade Liberty to 22.0.0.10.
Content Collector 4.0.1.15 interim fix 3 https://www.ibm.com/support/pages/node/6954449	Server	**Java PSIRT fixes** CVE-2022-3676, CVE-2022-21624 Solution: Upgrade Java to 8.0.7.20.
Content Collector 4.0.1.15 interim fix 4 https://www.ibm.com/support/pages/node/7006055	P8 Content Search service support	**P8 Content Search service support plugin fix files :** 1. Support for Semeru Java 11 for Content Platform Engine. 2. Support enablement for keystore type JCEKS and PKCS12 to establish SSL connection.

Content Collector release version	Components	Release content
Content Collector 4.0.1.15interim fix 5 https://www.ibm.com/support/pages/node/7005863	Server CM8 Text Search Support	**Java PSIRT fixes** CVE-2022-21426 Solution: Upgrade Java to 8.0.8.0.
Content Collector 4.0.1.15interim fix 6 https://www.ibm.com/support/pages/node/7030364	Server	**Log4j upgrade 2.19.0** **APAR Fixes** HE13098, HE13100, HE13109, HE13110, HE13111
Content Collector 4.0.1.15interim fix 7 https://www.ibm.com/support/pages/node/7031985	Server	**Log4j upgrade 2.19.0** **APAR Fixes** HE13098, HE13100, HE13109, HE13110, HE13111
Content Collector 4.0.1.15interim fix 8 https://www.ibm.com/support/pages/node/7105444	Server Web Application	**Struts upgrade** CVE -CVE-2023-50164 Solution: Upgrade **Struts to 2.5.33**

For information about hardware and software compatibility, see the detailed system requirements document at:

- **Latest updates**: IBM Software Product Compatibility Reports https://www.ibm.com/software/reports/compatibility/clarity/index.html
- **Additional information**:
    - Prerequisites for IBM Content Collector 4.0 - https://www.ibm.com/support/pages/node/612697
    - Prerequisites for IBM Content Collector 4.0.1 - https://www.ibm.com/support/pages/node/614445

Known issues

No known issues.

Installation information

You can apply this fix directly on Content Collector 4.0.1 fix pack 15 (4.0.1.15).

Notes:

- When following the instructions, replace *<ICC_installation_directory>* with the name of your Content Collector installation directory.
- If the installation directory path contains space, you must use Windows short names while navigating. For example:

  Directory path with spaces: *C:\Program Files (x86)\IBM\ContentCollector* should be written as

  Desired path: *c:\progra~2\IBM\ContentCollector*.

  You can find the short name for a directory by running this command: *dir /x*.

Installing IBM Runtime Environment Java Technology Edition

The following section provides information on how to install IBM Runtime Environment Java Technology Edition.

Prerequisite

1. Download and extract the fix files for your operating system from the IBM Fix Central to a temporary directory:

   https://www.ibm.com/support/fixcentral/swg/selectFixes?parent=Enterprise%2BContent%2BManagement&product=ibm/Information+Management/Content+Collector&release=4.0.1.15&platform=ALL&function=fixId&fixids=4.0.1.15-IBM-ICC-IF009&includeRequisites=1&includeSuperse

   For example, for Windows operating system, you need to extract from following compressed folder:

   4.0.1.15-IBM-ICC-WIN-IF009.zip

2. The Java fixes are available in the folder named **java**.

Installing

1. **Close** the Content Collector Configuration Manager and stop the following services:
   a. All the services on IBM Content Collector Server
   b. **For CM8 Text Search Support 4.0.1.9 to 4.0.1.12**:

      DB2EXT Service on CM8 Server

   Note: CM8 Text Search Support 4.0.1.8 and earlier use Java 6, and this Content Collector interim fix is applicable only for Java 8.

2. Take a backup of the respective Java directory present within the Content Collector product directory.

   If you used the default location for installation, the paths are as follows:

Component	Platform	Default location
Server	Windows	*<ICC_installation_directory>*/java
CM8 Text Search Support	Windows	C:/Program Files (x86)/IBM/ICCIndexer/java
CM8 Text Search Support	Unix	/opt/IBM/ICCIndexer/java

3. Replace the contents of the Java directory in your installation folder (from Step 2) with the fix file for your operating system.
4. Start the services you stopped in Step 1.

Uninstalling

The following sections provide information on how to uninstall IBM Runtime Environment Java Technology Edition and rollback Ant.

1. Close the Content Collector Configuration Manager and stop the following services:

a. All the services on IBM Content Collector Server

b. **For CM8 Text Search Support 4.0.1.9 to 4.0.1.12**:

DB2EXT Service on CM8 Server

2. Navigate to the Java directory and replace the files with the backup taken in Step 2 of installation.
3. Start the services you stopped in Step 1.

Fixes and changes

This interim fix addresses the following security vulnerabilities in the IBM Runtime Environment Java Technology 8 used by Content Collector.

Security vulnerabilities

IBM Runtime Environment Java Technology Edition

1. A flaw in the NIO component leads to incorrect conversion of java.net.URI objects to java.nio.file.Path objects, which allows an attacker to access or modify arbitrary files or directories. This is related to CVE-2023-21968 from the April 2023 CPU. This fix ensures that URIs are converted to Paths correctly.

   CVE-2023-22049 - https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2023-22049

2. A flaw in the CertPath component (java.security.cert.CertPath*) allows an attacker to inflict a denial of service by presenting a maliciously crafted certificate chain for validation. This fix ensures that certificate chains constructed are handled gracefully.

   CVE-2023-22081 - https://cve.mitre.org/cgi-bin/cvekey.cgi?keyword=CVE-2023-22081

3. A flaw in the ORB deserlization implementation allows an attacker to induce outbound network connections via specially crafted serialized object data. This fix corrects the flaw.

   CVE-2023-22067- https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2023-22067

Fixed defects

No defects

Documentation

- Download IBM Content Collector 4.0.1.15 interim fix 9 (Readme file)
  https://www.ibm.com/support/pages/node/7116567
  Note: For the latest version of the Readme file, use this link.

- IBM Content Collector Downloads
  https://www.ibm.com/support/pages/node/613127

- IBM Software Product Compatibility Reports
  https://www.ibm.com/software/reports/compatibility/clarity/index.html

- IBM Content Collector 4.0.1 documentation
  https://www.ibm.com/docs/en/content-collector/4.0.1

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Document change history

Date	Description of change
14th February 2024	Original version published