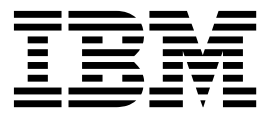


IBM Cloud Object Storage System™
Version 3.14.3

System Upgrade Guide



This edition applies to IBM Cloud Object Storage System™ and is valid until replaced by new editions.

© **Copyright IBM Corporation 2016, 2019.**

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

Contents

Chapter 1. Introduction	1	Chapter 6. Upgrading storage pools . .	11
Chapter 2. Backing up the Manager database	3	Chapter 7. Upgrading file server pools	13
Chapter 3. Upgrade the Manager	5	Trademarks.	15
Chapter 4. Upgrading appliances	7	Homologation statement	17
Chapter 5. Upgrading access pools . . .	9		

Chapter 1. Introduction

You can upgrade the physical and virtual appliances in the system using the Manager Web Interface.

The general flow of procedures is as follows:

1. Backup the Manager database
2. Upgrade the Manager
3. Upgrade appliances
4. Upgrading access pools
5. Upgrading storage pools
6. Upgrading file server pools

Chapter 2. Backing up the Manager database

Before you begin

CAUTION:

The FTP server must be configured before a backup can be done.

About this task

You can back up the IBM Cloud Object Storage Manager™ database.

CAUTION:

If any error messages appear during the backup process, contact IBM Customer Support.

Procedure

1. Navigate to the Administration page.
2. Click **Backup**. The **Backup Configuration** page displays.
3. Enter the information in the **Backup Configuration** and click **Update** in the **Backup Configuration** action bar.
4. Click **Backup Manually** on the **Backup Manager Manually** action bar.
5. Select the location to which you want to back up the Manager database:
 - Desktop (default)
 - The location that is defined as the automatic backup location.
6. Click **Backup** in the **Backup Manager Now** action bar.
7. Click **Save** to save the backup file.
8. Click **Open** to select the upgrade file and close the dialog box.

Chapter 3. Upgrade the Manager

You can upgrade the physical and virtual appliances in the system using the Manager Web Interface.

Note: You should do a manual backup just before executing an upgrade. If the Manager backup has not completed, contact customer support before doing a system upgrade. If an automatic backup is in progress, wait until it is complete before upgrading the Manager.

See the "Maintenance>Upgrade" section of the *Manager Administration Guide* for information about how to upgrade the Manager.

Chapter 4. Upgrading appliances

About this task

The best practice is to upgrade a storage pool and a couple of devices, first. When an upgrade completes successfully, continue the upgrade with other appliances.

Note: When upgrading a system that is using Concentrated Dispersal, to ensure the data are fully available during an upgrade, it is necessary to wait for rebuilding to be completed between each Slicestor® that is being upgraded. There is a 72-hour delay between each Slicestor being upgraded. For instance, if you are upgrading a Concentrated Dispersal system with three Slicestor devices, it will take nine days to complete all upgrades. The UI will show a delay countdown between each device that is pending an upgrade.

Procedure

1. Select the **Maintenance** tab.
2. Click **Upgrade**. The Upgrade System Software page displays.
3. Within **Step 1 – Upload Manager Upgrade File** of the Upgrade section, click **Browse...** to find your upgrade file.
4. Select the upgrader file in the **Browse...** dialog box.

Note: The upgrader file is large (more than 1.5 GB). It might take a few seconds on a LAN, or much longer over a slower connection.

5. Click **Open** to select the upgrade file and close the dialog box.
6. Click **Upload** to upload the file.
7. Click **Start upgrade** within **Step 2 – Upgrade Manager step of the Upgrade** section to start the Manager upgrade process.
8. Click **Start Upgrade** to start the upgrade. A dialog titled Manager Upgrade In Progress appears.
9. Click **Upgrade without performing backup**.
10. Wait for the upgrade to complete.
11. Confirm that the Manager appliances' *Upgrade Status* shows **current** and the *Manager Version* shows the correct version.

Chapter 5. Upgrading access pools

About this task

These instructions assume that you did not navigate away from the **Upgrade** page. If you did navigate to a different page, follow Steps 1-3 of *Upgrade Manager appliances* of the **Manager Web Interface**.

Procedure

1. Navigate to the **Upgrade devices** section of the **Upgrade** page.
2. Select anywhere on the left tab (except on the *Access Pool* link) of the Access Pool that you want to upgrade.
3. Do one of the following actions:
 - Select an individual device and click **Upgrade**.
 - Select **Upgrade Entire Access Pool**.
4. Confirm that the **Status** shows current and the version is correct for all IBM Cloud Object Storage System[™] appliances in the Access Pool.

Chapter 6. Upgrading storage pools

About this task

These instructions assume that you did not navigate away from the **Upgrade** page of the **Manager Web Interface**. If you did navigate to a different page, follow Steps 1-3 of *Upgrade Manager appliances* of the **Manager Web Interface**.

Procedure

1. Navigate to the **Upgrade** appliances section of the Upgrade page.
2. Navigate to the **Storage Pool** that you want to upgrade.
3. Select anywhere on the left tab (except on the *Storage Pool* link) of the Storage Pool you want to upgrade.
4. Do one of the following actions:
 - Select an individual device and click **Upgrade**.
 - Click **Upgrade Entire Storage Pool**.

Note: When you upgrade devices in a storage pool that uses Concentrated Dispersal vaults, the upgrade process waits 72 hours between successive Slicestor device upgrades.

5. Confirm that the Storage Pool's upgrade status shows current and the version is correct in the upgrade queue.
6. Confirm the **Complete** counter shows the number of devices that were upgraded for all IBM Cloud Object Storage Slicestor® appliances for the Storage Pool.

Attention: Slicestor® Devices can enter an inconsistent state during upgrade. If an error message is displayed in the Event Console, contact IBM Customer Support.

Chapter 7. Upgrading file server pools

About this task

These instructions assume that you did not navigate away from the **Upgrade** page. If you did navigate to a different page, follow Steps 1-3 of *Upgrade Manager appliances* of the **Manager Web Interface**.

Procedure

1. Navigate to the **Upgrade** appliances section of the **Upgrade** page.
2. Navigate to the **File Server Pool** for the wanted File Server Pool to upgrade.
3. Select anywhere on the left tab (except on the *File Server* link) of the File Server Pool you want to upgrade.
4. Do one of the following actions:
 - Select an individual device and click **Upgrade**.
 - Select **Upgrade Entire File Server Pool**.
5. Confirm the File Server Pool's upgrade Status shows **current** and the version is correct in the upgrade queue.
6. Confirm the *complete* counter shows the number of devices that were upgraded for all IBM Cloud Object Storage Slicestor® File Accesser® Devices for the Storage Pool.

CAUTION:

Upgrade or device failures can prevent other File Accesser devices in the same File Server Pool from upgrading. Taking down those devices for upgrade would adversely affect the accessibility of some or all of the file systems that they provide access to. If an error message is displayed in the Event Console, contact IBM Customer Support.

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.

Accesser®, Cleversafe®, ClevOS™, Dispersed Storage®, dsNet®, IBM Cloud Object Storage Accesser®, IBM Cloud Object Storage Dedicated™, IBM Cloud Object Storage Insight™, IBM Cloud Object Storage Manager™, IBM Cloud Object Storage Slicestor®, IBM Cloud Object Storage Standard™, IBM Cloud Object Storage System™, IBM Cloud Object Storage Vault™, SecureSlice™, and Slicestor® are trademarks or registered trademarks of Cleversafe, an IBM Company and/or International Business Machines Corp.

Other product and service names might be trademarks of IBM or other companies.

Homologation statement

This product may not be certified in your country for connection by any means whatsoever to interfaces of public telecommunications networks. Further certification may be required by law prior to making any such connection. Contact an IBM representative or reseller for any questions.



Printed in USA