■ NetApp

Upgrading Unified Manager on Red Hat Enterprise Linux or CentOS

Active IQ Unified Manager 9.11

NetApp
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Upgrading Unified Manager on Red Hat Enterprise Linux or CentOS

You can upgrade Unified Manager when a new version of software is available.

Patch releases of Unified Manager software, when provided by NetApp, are installed using the same procedure as new releases.

If Unified Manager is paired with an instance of OnCommand Workflow Automation, and there are new versions of software available for both products, you must disconnect the two products and then set up a new Workflow Automation connection after performing the upgrades. If you are performing an upgrade to only one of the products, then you should log into Workflow Automation after the upgrade and verify that it is still acquiring data from Unified Manager.

Upgrading Unified Manager

You can upgrade from Unified Manager 9.9 or 9.10 to 9.11 by downloading and running the installation file on the Red Hat platform.

What you'll need

- The system on which you are upgrading Unified Manager must meet the system and software requirements.

  Hardware system requirements

  Red Hat and CentOS software and installation requirements

- You must install, or upgrade to the correct version of OpenJDK prior to upgrading Unified Manager.

  Upgrading JRE on Linux

- You must have a subscription to the Red Hat Enterprise Linux Subscription Manager.

- To avoid data loss, you must have created a backup of the Unified Manager database in case there is an issue during the upgrade. It is also recommended that you move the backup file from the `/opt/netapp/data` directory to an external location.

- During upgrade, you may be prompted to confirm whether you want to keep the previous, default settings for retaining performance data for 13 months or to change it to 6 months. On confirming, the historical performance data after 6 months is purged.

- You should have completed any running operations, because Unified Manager is unavailable during the upgrade process.

- MySQL Community Edition is automatically upgraded during Unified Manager upgrade. If the installed version of MySQL on your system is earlier than 8.0.28, the Unified Manager upgrade process automatically upgrades MySQL to 8.0.28.

Steps

1. Log in to the target Red Hat Enterprise Linux or CentOS server.
2. Download the Unified Manager bundle to the server.

   Downloading Unified Manager for Red Hat or CentOS

3. Navigate to the target directory and expand the Unified Manager bundle:

```
unzip ActiveIQUnifiedManager-<version>.zip
```

The required RPM modules for Unified Manager are unzipped to the target directory.

4. Verify that the following module is available in the directory:

```
ls *.rpm
```

```
netapp-um<version>.x86_64.rpm
```

5. **Optional:** For systems that are not connected to the Internet or that are not using the Red Hat Enterprise Linux repositories, perform the following steps to determine whether you are missing any required packages and download those packages:

   a. View the list of available and unavailable packages:

   ```
   yum install netapp-um<version>.x86_64.rpm --assumeno
   ```

   The items in the "Installing:" section are the packages that are available in the current directory, and the items in the "Installing for dependencies:" section are the packages that are missing on your system.

   b. On a different system that has Internet access, run the following command to download the missing packages.

   ```
   yum install package_name --downloadonly --downloaddir=.
   ```

   The packages are downloaded in the directory specified as `--downloaddir=`.

   Because the plug-in "yum-plugin-downloadonly" is not always enabled on Red Hat Enterprise Linux systems, you might need to enable the functionality to download a package without installing it:

   ```
   yum install yum-plugin-downloadonly
   ```

   c. Create a new directory in the installation system and copy the downloaded packages from the Internet-connected system.

   d. Change directories to the new directory on the installation system and run the following command for installing MySQL Community Edition, along with its dependencies.

   ```
   yum install *.rpm
   ```

   e. Start the Unified Manager server. Run these commands:

   ```
   systemctl start ocie
   ```

   ```
   systemctl start ocieau
   ```

6. Run the pre-installation script to ensure that there are no system configuration settings or any installed software that might conflict with the upgrade:

```
sudo ./pre_install_check.sh
```

The pre-installation script checks that the system has a valid Red Hat subscription, and that it has access

to the required software repositories. If the script identifies any issues, you must fix the issues before upgrading Unified Manager.

7. Upgrade Unified Manager using the following script:

   `upgrade.sh`

   This script automatically executes the RPM modules, upgrading the necessary supporting software and the Unified Manager modules that run on them. Additionally, the upgrade script checks whether there are any system configuration settings or any installed software that might conflict with the upgrade. If the script identifies any issues, you must fix the issues before upgrading Unified Manager.

8. After the upgrade is complete, scroll back through the messages until you see the message displaying an IP address or URL for the Unified Manager web UI, the maintenance user name (umadmin), and the default password.

   The message is similar to the following:

   ```
   Active IQ Unified Manager upgraded successfully.
   Use a web browser and one of the following URLs to access the Unified
   Manager GUI:

   https://default_ip_address/     (if using IPv4)
   https://[default_ip_address]/  (if using IPv6)
   https://fully_qualified_domain_name/
   ```

Enter the specified IP address or URL into a supported web browser to start the Unified Manager web UI, and then log in by using the same maintenance user name (umadmin) and password that you set earlier.

Upgrading the host OS from Red Hat Enterprise Linux 7.x to 8.x

If you previously installed Unified Manager on a Red Hat Enterprise Linux 7.x system and need to upgrade to Red Hat Enterprise Linux 8.x, you must follow one of the procedures listed in this topic. In both cases you must create a backup of Unified Manager on the Red Hat Enterprise Linux 7.x system, and then restore the backup onto a Red Hat Enterprise Linux 8.x system.

The difference between the two options listed below is that in one case you are performing the Unified Manager restore onto a new 8.x server, and in the other case you are performing the restore operation onto the same server.

Because this task requires that you create a backup of Unified Manager on the Red Hat Enterprise Linux 7.x system, you should create the backup only when you are prepared to complete the entire upgrade process so that Unified Manager is offline for the shortest period of time. Gaps in collected data appear in the Unified Manager UI for the period of time during which the Red Hat Enterprise Linux 7.x system is shut down and before the new Red Hat Enterprise Linux 8.x is started.

See the *Active IQ Unified Manager Online Help* if you need to review detailed instructions for the backup and

restore processes.

Upgrading the host OS using a new server

Follow these steps if you have a spare system on which you can install Red Hat Enterprise Linux 8.x software so that you can perform the Unified Manager restore on that system while the Red Hat Enterprise Linux 7.x system is still available.

1. Install and configure a new server with Red Hat Enterprise Linux 8.x software.

   Red Hat software and installation requirements

2. On the Red Hat Enterprise Linux 8.x system, install the same version of Unified Manager software that you have on the existing Red Hat Enterprise Linux 7.x system.

   Installing Unified Manager on Red Hat Enterprise Linux

   Do not launch the UI or configure any clusters, users, or authentication settings when the installation is complete. The backup file populates this information during the restore process.

3. On the Red Hat Enterprise Linux 7.x system, from the Administration menu in the web UI, create a Unified Manager backup and then copy the backup file (`.7z` file) and the contents of the database repository directory (`/database-dumps-repo` subdirectory) to an external location.

4. On the Red Hat Enterprise Linux 7.x system, shut down Unified Manager.

5. On the Red Hat Enterprise Linux 8.x system, copy the backup file (`.7z` file) from the external location to `/opt/netapp/data/ocum-backup/` and the database repository files to the `/database-dumps-repo` subdirectory under the `/ocum-backup` directory.

6. Enter the following command to restore the Unified Manager database from the backup file:

   `um backup restore -f /opt/netapp/data/ocum-backup/<backup_file_name>`

7. Enter the IP address or URL into your web browser to start the Unified Manager web UI, and then log in to the system.

Once you have verified that the system is operating properly you can remove Unified Manager from the Red Hat Enterprise Linux 7.x system.

Upgrading the host OS on the same server

Follow these steps if you do not have a spare system on which you can install Red Hat Enterprise Linux 8.x software.

1. From the Administration menu in the web UI, create a Unified Manager backup and then copy the backup file (`.7z` file) and the contents of the database repository directory (`/database-dumps-repo` subdirectory) to an external location.

2. Remove the Red Hat Enterprise Linux 7.x image from the system and completely wipe the system.

3. Install and configure Red Hat Enterprise Linux 8.x software on the same system.

   Red Hat software and installation requirements

4. On the Red Hat Enterprise Linux 8.x system, install the same version of Unified Manager software that you had on the Red Hat Enterprise Linux 7.x system.

Do not launch the UI or configure any clusters, users, or authentication settings when the installation is complete. The backup file populates this information during the restore process.

5. Copy the backup file (`.7z` file) from the external location to `/opt/netapp/data/ocum-backup/` and the database repository files to the `/database-dumps-repo` subdirectory under the `/ocum-backup` directory.

6. Enter the following command to restore the Unified Manager database from the backup file:

   `um backup restore -f /opt/netapp/data/ocum-backup/<backup_file_name>`

7. Enter the IP address or URL into your web browser to start the Unified Manager web UI, and then log in to the system.