



# **Upgrading Unified Manager on Red Hat Enterprise Linux or CentOS**

## **OnCommand Unified Manager 9.5**

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 on Red Hat Enterprise Linux or CentOS

You can upgrade from Unified Manager version 7.3 or 9.4 to Unified Manager 9.5 by downloading and running the installation file on the Red Hat platform.

### Before you begin

- 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](#)

- Starting with Unified Manager 9.4, Red Hat Enterprise Linux 6.x is no longer supported. If you are using RHEL 6, you must upgrade your instance of RHEL to version 7.x prior to upgrading to Unified Manager 9.5.
- Starting with Unified Manager 9.5, Oracle Java is no longer supported. The correct version of OpenJDK must be installed prior to upgrading to Unified Manager 9.5.
- 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.
- You should have completed any running operations, because Unified Manager is unavailable during the upgrade process.

### About this task



These steps contain information for systems that are configured for high availability using Veritas Operation Manager. If your system is not configured for high availability, ignore these additional steps.

## 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 OnCommandUnifiedManager-rhel7-9.5.zip`

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

4. Confirm the presence of the listed modules: `ls *.rpm`

The following RPM modules are listed:

- `ocie-au-<version>.x86_64.rpm`
- `ocie-server-<version>.x86_64.rpm`
- `ocie-serverbase-<version>.x86_64.rpm`
- `netapp-application-server-<version>.x86_64.rpm`
- `netapp-platform-base-<version>.x86_64.rpm`
- `netapp-ocum-<version>.x86_64.rpm`

5. For systems that are not connected to the Internet or that are not using the RHEL 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 *.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. Download the missing packages on another system that has Internet access: `yum install package_name --downloadonly --downloadaddir=.`



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. Copy the missing packages from the Internet-connected system to your installation system.
6. If Unified Manager is configured for high availability, then using Veritas Operation Manager, stop all Unified Manager services on the first node.
  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 will conflict with the upgrade of Unified Manager. If the script identifies any issues, you must fix the issues prior to upgrading Unified Manager.



Do not attempt to upgrade by using alternative commands (such as `rpm -Uvh ...`). A successful upgrade requires that all Unified Manager files and related files are upgraded in a specific order to a specific directory structure that are executed and configured automatically by the script.

8. For high availability installations, stop all Unified Manager services on the second node with Veritas Operation Manager.
9. For high availability installations, switch the service group to the second node in the high-availability setup and upgrade Unified Manager on the second node.
10. 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:

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

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

## After you finish

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 6.x to 7.x

If you previously installed Unified Manager on a Red Hat Enterprise Linux 6.x system and now need to upgrade to Red Hat Enterprise Linux 7.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 6.x system, and then restore the backup onto a Red Hat Enterprise Linux 7.x system.

### About this task

The difference between the two options listed below is that in one case you are performing the Unified Manager restore onto a new RHEL 7.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 6.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 will appear in the Unified Manager UI for the period of time during which the Red Hat Enterprise Linux 6.x system is shut down and

before the new Red Hat Enterprise Linux 7.x is started.

See the *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 RHEL 7.x software so that you can perform the Unified Manager restore on that system while the RHEL 6.x system is still available.

1. Install and configure a new server with Red Hat Enterprise Linux 7.x software.

#### [Red Hat software and installation requirements](#)

2. On the Red Hat Enterprise Linux 7.x system, install the same version of Unified Manager software that you have on the existing Red Hat Enterprise Linux 6.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 6.x system, from the Administration menu in the web UI, create a Unified Manager backup and then copy the backup file to an external location.
4. On the Red Hat Enterprise Linux 6.x system, shut down Unified Manager.
5. On the Red Hat Enterprise Linux 7.x system, copy the backup file from the external location to `/data/ocum-backup/`, and then 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>
```
6. Enter the IP address or URL into a supported 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 6.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 RHEL 7.x software.

1. From the Administration menu in the web UI, create a Unified Manager backup and then copy the backup file to an external location.
2. Remove the Red Hat Enterprise Linux 6.x image from the system and completely wipe the system.
3. Install and configure Red Hat Enterprise Linux 7.x software on the same system.

#### [Red Hat software and installation requirements](#)

4. On the Red Hat Enterprise Linux 7.x system, install the same version of Unified Manager software that you had on the Red Hat Enterprise Linux 6.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.

5. Copy the backup file from the external location to `/data/ocum-backup/`, and then 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>`
6. Enter the IP address or URL into a supported web browser to start the Unified Manager web UI, and then log in to the system.

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