



# **Installing Unified Manager on Windows**

## **Active IQ Unified Manager 9.9**

NetApp  
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# Installing Unified Manager on Windows

It is important that you understand the sequence of steps to download and install Unified Manager on Windows.

## Installing Unified Manager

You can install Unified Manager to monitor and troubleshoot data storage capacity, availability, performance, and protection issues.

### Before you begin

- The system on which you plan to install Unified Manager should meet the system and software requirements.

[Hardware system requirements](#)

[Windows software and installation requirements](#)



Starting with Unified Manager 9.5, OpenJDK is provided in the installation package and installed automatically. Oracle Java is not supported starting with Unified Manager 9.5.

- You should have Windows administrator privileges. Ensure that your user name does not begin with an exclamation mark "!". Installation of Unified Manager might fail if the user name of user running the installation begins with "!".
- You should have a supported web browser.
- The Unified Manager maintenance user password should be between 8 and 20 characters, should contain upper-case letters or lower-case letters, numerals, and special characters.
- The following special characters are not allowed in the password string for the maintenance user or for the MySQL root user: " ' ` % , = & < > | ^ \ / ( ) [ ] ; :

The following special characters are allowed: ~ ! @ # \$ \* - ? . + { }

### Steps

1. Log in to Windows using the default local administrator account.
2. Log in to the NetApp Support Site, and navigate to the **Download** page for Unified Manager: [NetApp Support Site](#)
3. Select the required version of Unified Manager and accept the end-users license agreement (EULA).
4. Download the Unified Manager Windows installation file to a target directory on the Windows system.
5. Navigate to the directory where the installation file is located.
6. Right-click and run the Unified Manager installer executable ( .exe ) file as an administrator.

Unified Manager detects missing or pre-installed third-party packages and lists them. If the required third-party packages are not installed in the system, Unified Manager installs them as part of the installation.

7. Click **Next**.

8. Enter the user name and password to create the maintenance user.
9. In the **Database Connection** wizard, enter the MySQL root password.
10. Click **Change** to specify a new location for the Unified Manager installation directory and MySQL data directory.

If you do not change the installation directory, Unified Manager is installed in the default installation directory.

11. Click **Next**.
12. In the **Ready to Install Shield** wizard, click **Install**.
13. After the installation is complete, click **Finish**.

## Results

The installation creates multiple directories:

- Installation directory

This is the root directory for Unified Manager, which you specified during installation. Example:

`C:\Program Files\NetApp\`

- MySQL data directory

This is the directory where the MySQL databases are stored, which you specified during installation.

Example: `C:\ProgramData\MySQL\MySQLServerData\`

- Java directory

This is the directory where OpenJDK is installed. Example: `C:\Program Files\NetApp\JDK\`

- Unified Manager application data directory (appDataDir)

This is the directory where all the application-generated data is stored. This includes logs, support bundles, backup, and all other additional data. Example: `C:\ProgramData\NetApp\OnCommandAppData\`

## After you finish

You can access the web UI to perform the initial setup of Unified Manager, as described in [Using the maintenance console](#).

# Performing an unattended installation of Unified Manager

You can install Unified Manager without user intervention by using the command-line interface. You can complete the unattended installation by passing the parameters in key-value pairs.

## Steps

1. Log in to the Windows command-line interface by using the default local administrator account.

2. Navigate to the location where you want to install Unified Manager, and choose one of the following options:

| Option                                    | Instructions   |
|---|--|
| If third-party packages are pre-installed | <pre>ActiveIQUnifiedManager-x.y.exe /V"MYSQL_PASSWORD=mysql_password INSTALLDIR="Installation directory\" MYSQL_DATA_DIR="MySQL data directory\" MAINTENANCE_PASSWORD=maintenance_passw ord MAINTENANCE_USERNAME=maintenance_usern ame /qn /l*v CompletePathForLogFile"</pre> <p><b>Example:</b></p> <pre>ActiveIQUnifiedManager.exe /s /v"MYSQL_PASSWORD=netapp21! INSTALLDIR="C:\Program Files\NetApp\" MYSQL_DATA_DIR="C:\ProgramData\MySQL\ MySQLServer\" MAINTENANCE_PASSWORD=* MAINTENANCE_USERNAME=admin /qn /l*v C:\install.log"</pre> |
| If third-party packages are not installed | <pre>ActiveIQUnifiedManager-x.y.exe /V"MYSQL_PASSWORD=mysql_password INSTALLDIR="Installation directory\" MYSQL_DATA_DIR="MySQL data directory\" MAINTENANCE_PASSWORD=maintenance_passw ord MAINTENANCE_USERNAME=maintenance_usern ame /qr /l*v CompletePathForLogFile"</pre> <p><b>Example:</b></p> <pre>ActiveIQUnifiedManager.exe /s /v"MYSQL_PASSWORD=netapp21! INSTALLDIR="C:\Program Files\NetApp\" MYSQL_DATA_DIR="C:\ProgramData\MySQL\ MySQLServer\" MAINTENANCE_PASSWORD=* MAINTENANCE_USERNAME=admin /qr /l*v C:\install.log"</pre> |

The `/qr` option enables quiet mode with a reduced user interface. A basic user interface is displayed, which shows the installation progress. You are not prompted for inputs. If third-party packages such as JRE, MySQL, and 7zip are not pre-installed, you must use the `/qr` option. Installation fails if the `/qn` option is used on a server where third-party packages are not installed.

The `/qn` option enables quiet mode with no user interface. No user interface or details are displayed during installation. You must not use the `/qn` option when third-party packages are not installed.

3. Log in to the Unified Manager web user interface by using the following URL:

`https://IP address`

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