



# **OnCommand Workflow Automation data sources**

## **OnCommand Workflow Automation**

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# OnCommand Workflow Automation data sources

OnCommand Workflow Automation (WFA) operates on data that is acquired from data sources. Various versions of Active IQ Unified Manager and VMware vCenter Server are provided as predefined WFA data source types. You must be aware of the predefined data source types before you set up the data sources for data acquisition.

A data source is a read-only data structure that serves as a connection to the data source object of a specific data source type. For example, a data source can be a connection to an Active IQ Unified Manager database of an Active IQ Unified Manager 6.3 data source type. You can add a custom data source to WFA after defining the required data source type.

For more information about the predefined data source types, see the Interoperability Matrix.

## Related information

[NetApp Interoperability Matrix Tool](#)

## Configuring a database user on DataFabric Manager

You must create a database user on DataFabric Manager 5.x to configure read-only access of the DataFabric Manager 5.x database to OnCommand Workflow Automation.

### Configure a database user by running ocsetup on Windows

You can run the ocsetup file on the DataFabric Manager 5.x server to configure read-only access of the DataFabric Manager 5.x database to OnCommand Workflow Automation.

#### Steps

1. Download the wfa\_ocsetup.exe file to a directory in the DataFabric Manager 5.x server from the following location: `https://WFA_Server_IP/download/wfa_ocsetup.exe`.

*WFA\_Server\_IP* is the IP address (IPv4 or IPv6 address) of your WFA server.

If you have specified a non-default port for WFA, you must include the port number as follows:  
`https://wfa_server_ip:port/download/wfa_ocsetup.exe`.

*port* is the TCP port number that you have used for the WFA server during installation.

If you are specifying an IPv6 address, you must enclose it with square brackets.

2. Double-click the wfa\_ocsetup.exe file.
3. Read the information in the setup wizard and click **Next**.
4. Browse or type the OpenJDK location and click **Next**.
5. Enter a user name and password to override the default credentials.

A new database user account is created with access to the DataFabric Manager 5.x database.



If you do not create a user account, the default credentials are used. You must create a user account for security purposes.

6. Click **Next** and review the results.
7. Click **Next**, and then click **Finish** to complete the wizard.

## Configure a database user by running ocsetup on Linux

You can run the ocsetup file on the DataFabric Manager 5.x server to configure read-only access of the DataFabric Manager 5.x database to OnCommand Workflow Automation.

### Steps

1. Download the wfa\_ocsetup.sh file to your home directory on the DataFabric Manager 5.x server using the following command in the terminal:

```
wget https://WFA_Server_IP/download/wfa_ocsetup.sh
```

WFA\_Server\_IP is the IP address (IPv4 or IPv6 address) of your WFA server.

If you have specified a non-default port for WFA, you must include the port number as follows:

```
wget https://wfa_server_ip:port/download/wfa_ocsetup.sh
```

port is the TCP port number that you have used for the WFA server during installation.

If you are specifying an IPv6 address, you must enclose it with square brackets.

2. Use the following command in the terminal to change the wfa\_ocsetup.sh file to an executable: `chmod +x wfa_ocsetup.sh`
3. Run the script by entering the following in the terminal:

```
./wfa_ocsetup.sh OpenJDK_path
```

OpenJDK\_path is the path to OpenJDK.

```
/opt/NTAPdfm/java
```

The following output is displayed in the terminal, indicating a successful setup:

```
Verifying archive integrity... All good.
Uncompressing WFA OnCommand Setup.....
*** Welcome to OnCommand Setup Utility for Linux ***
    <Help information>
*** Please override the default credentials below ***
Override DB Username [wfa] :
```

4. Enter a user name and password to override the default credentials.

A new database user account is created with access to the DataFabric Manager 5.x database.



If you do not create a user account, the default credentials are used. You must create a user account for security purposes.

The following output is displayed in the terminal, indicating a successful setup:

```
***** Start of response from the database *****
>>> Connecting to database
<<< Connected
*** Dropped existing 'wfa' user
=== Created user 'username'
>>> Granting access
<<< Granted access
***** End of response from the database *****
***** End of Setup *****
```

## Configure a database user on Active IQ Unified Manager

You must create a database user on Active IQ Unified Manager to configure read-only access of the Active IQ Unified Manager database to OnCommand Workflow Automation.

### Steps

1. Log in to Active IQ Unified Manager with administrator credentials.
2. Click **Settings > Users**.
3. Click **Add a New User**.
4. Select **Database User** as the type of user.

The same user should be used in OnCommand Workflow Automation while adding Active IQ Unified Manager as a data source in OnCommand Workflow Automation.

## Set up a data source

You must set up a connection with a data source in OnCommand Workflow Automation (WFA) to acquire data from the data source.

- For Active IQ Unified Manager 6.0 and later, you must have created a database user account on the Unified Manager server.

See the *OnCommand Unified Manager Online Help* for details.

- The TCP port for incoming connections on the Unified Manager server must be open.

See the documentation on your firewall for details.

The following are the default TCP port numbers:

TCP port number	Unified Manager server version	Description
3306	6.x	MySQL database server

- For Performance Advisor, you must have created an Active IQ Unified Manager user account with a minimum role of GlobalRead.

See the *OnCommand Unified Manager Online Help* for details.

- For VMware vCenter Server, you must have created a user account on the vCenter Server.

See the VMware vCenter Server documentation for details.



You must have installed VMware PowerCLI. If you want to execute workflows only on vCenter Server data sources, setting up Unified Manager server as a data source is not required.

- The TCP port for incoming connections on the VMware vCenter Server must be open.

The default TCP port number is 443. See the documentation on your firewall for details.

You can add multiple Unified Manager server data sources to WFA using this procedure. However, you must not use this procedure if you want to pair Unified Manager server 6.3 and later with WFA and use the protection functionality in Unified Manager server.



For more information about pairing WFA with Unified Manager server 6.x, see the *OnCommand Unified Manager Online Help*.



While setting up a data source with WFA, you must be aware that Active IQ Unified Manager 6.0, 6.1, and 6.2 data source types are deprecated in the WFA 4.0 release, and these data source types will not be supported in future releases.

## Steps

1. Access WFA using a web browser.
2. Click **Settings**, and under **Setup** click **Data Sources**.
3. Choose the appropriate action:

To...	Do this...
Create a new data source	Click  on the toolbar.
Edit a restored data source if you have upgraded WFA	Select the existing data source entry, and click  on the toolbar.


If you have added a Unified Manager server data source to WFA and then upgraded the version of the Unified Manager server, WFA will not recognize the upgraded version of the Unified Manager server. You must delete the previous version of the Unified Manager server and then add the upgraded version of the Unified Manager server to WFA.


4. In the New Data Source dialog box, select the required data source type, and enter a name for the data

source and the host name.

Based on the selected data source type, the port, user name, password, and timeout fields might be automatically populated with the default data, if available. You can edit these entries as required.

5. Choose an appropriate action:


For...	Do this...
Active IQ Unified Manager 6.3 and later	<p>Enter the credentials of the Database User account that you created on the Unified Manager server. See <i>OnCommand Unified Manager Online Help</i> for details on creating a database user account.</p> <div><p>You must not provide the credentials of an Active IQ Unified Manager Database User account that was created using the command-line interface or the ocsetup tool.</p></div>
VMware vCenter Server (only for windows)	(only for windows) Enter the user name and password of the user that you created on the VMware vCenter server.

6. Click **Save**.
7. In the Data Sources table, select the data source, and click  on the toolbar.
8. Verify the status of the data acquisition process.


## Add an upgraded Unified Manager server as a data source


If Unified Manager server (5.x or 6.x) is added as a data source to WFA and then the Unified Manager server is upgraded, you must add the upgraded Unified Manager server as a data source because the data that is associated with the upgraded version is not populated in WFA unless it is manually added as a data source.

### Steps

1. Log into the WFA web GUI as an admin.
2. Click **Settings** and under **Setup**, click **Data Sources**.
3. Click  on the toolbar.
4. In the New Data Source dialog box, select the required data source type, and then enter a name for the data source and the host name.

Based on the selected data source type, the port, user name, password, and timeout fields might be automatically populated with the default data, if available. You can edit these entries as required.

5. Click **Save**.
6. Select the previous version of the Unified Manager server, and click  on the toolbar.
7. In the Delete Data Source Type confirmation dialog box, click **Yes**.

8. In the Data Sources table, select the data source, and then click  on the toolbar.
9. Verify the data acquisition status in the History table.



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