

Enabling Experimental Support for OpenLDAP, PostgreSQL, and MySQL in VMware vCenter Orchestrator

VMware vCenter Orchestrator 4.1.x

This technical note describes how to enable experimental support for OpenLDAP, PostgreSQL, and MySQL if you want to use them with VMware® vCenter Orchestrator.

Orchestrator requires a working LDAP server in your infrastructure and a database that is separate from the standard VMware vCenter Server database. You can configure Orchestrator to work with the experimentally supported LDAP server and databases only for testing and evaluation purposes.

Enable Support for OpenLDAP

Although Orchestrator provides experimental support for OpenLDAP, the option for this LDAP client is not available in the drop-down menu on the **LDAP** tab. You can configure the Orchestrator configuration interface to display the option by setting a system property in the `vmo.properties` Orchestrator configuration file.

To enable support for OpenLDAP

- 1 Log in as an administrator to the machine on which the Orchestrator server is installed.
- 2 Navigate to the configuration folder on the Orchestrator server system.
 - If you installed Orchestrator with the vCenter Server installer, the folder is located at:
`install_directory\VMware\Infrastructure\Orchestrator\appserver\server\vm\conf`
 - If you installed Orchestrator as a standalone application, the folder is located at:
`install_directory\VMware\Orchestrator\appserver\server\vm\conf`
- 3 Open the `vmo.properties` configuration file in a text editor.
- 4 Set the `ch.dunes.config.enable-unsupported-ldap-providers` system property by adding the following line at the end of the `vmo.properties` file.
`ch.dunes.config.enable-unsupported-ldap-providers=true`
- 5 Save and close the `vmo.properties` file.
- 6 Restart the Orchestrator Configuration service.
 - a In the Orchestrator configuration interface, click the **Startup Options** tab.
 - b Click **Restart the vCO configuration server**.

OpenLDAP is available in the **LDAP client** drop-down menu on the **LDAP** tab. You can configure Orchestrator to work with OpenLDAP in the same way as you configure it with other LDAP servers. For more information about configuring the LDAP settings, see *vCenter Orchestrator Installation and Configuration Guide*.

Enable Experimental Database Providers

Orchestrator provides experimental support for MySQL and PostgreSQL. The options for these database types are not available in the drop-down menu on the **Database** tab. You can display the options by setting a system property in the `vmo.properties` Orchestrator configuration file.

To enable support for experimental database providers

- 1 Log in as an administrator to the machine on which the Orchestrator server is installed.
- 2 Navigate to the configuration folder on the Orchestrator server system.
 - If you installed Orchestrator with the vCenter Server installer, the folder is located at:
`install_directory\VMware\Infrastructure\Orchestrator\appserver\server\vmo\conf`
 - If you installed Orchestrator as a standalone application, the folder is located at:
`install_directory\VMware\Orchestrator\appserver\server\vmo\conf`
- 3 Open the `vmo.properties` configuration file in a text editor.
- 4 Set the `ch.dunes.config.enable-unsupported-db-providers` system property by adding the following line at the end of the `vmo.properties` file.
`ch.dunes.config.enable-unsupported-db-providers=true`
- 5 Save and close the `vmo.properties` file.
- 6 Restart the Orchestrator Configuration service.
 - a In the Orchestrator configuration interface, click the **Startup Options** tab.
 - b Click **Restart the vCO configuration server**.

MySQL and PostgreSQL are available as options in the **Select the database type** drop-down menu on the **Database** tab of the Orchestrator configuration interface.

You can configure Orchestrator to work with PostgreSQL in the same way as you configure it with Oracle and SQL Server. For more information about configuring the database connection settings, see *vCenter Orchestrator Installation and Configuration Guide*.

To configure Orchestrator to work with MySQL, you must first download the MySQL driver and copy it to the appropriate locations, so that you can populate the tables by using the Orchestrator configuration interface.

Enable Support for MySQL Database on Windows

To use MySQL database, you must download the driver and copy it to the appropriate locations. The Orchestrator installer does not install drivers for MySQL databases.

To enable support for MySQL database

- 1 Download the latest MySQL driver from <http://dev.mysql.com/downloads/connector/j/>.
- 2 Extract the downloaded archive.
- 3 In the extracted folder, locate the `mysql-connector-java-x.x.x.jar` file, where `x.x.x` is the current subminor version.
- 4 To make the driver available to the Orchestrator server and Orchestrator configuration interface, copy `mysql-connector-java-x.x.x.jar` to the following locations:
 - Orchestrator server:
`install_directory\VMware\Orchestrator\app-server\server\vmo\lib\`

- Orchestrator configuration interface:

install_directory\VMware\Orchestrator\configuration\jetty\lib\ext

- 5 Restart the Orchestrator Configuration services.
 - a In the Orchestrator configuration interface, click the **Startup Options** tab.
 - b Click **Restart service**.
 - c Click **Restart the vCO configuration server**.

You installed the MySQL database driver.

MySQL Database Parameters

When you use a MySQL database, you must set the `max_allowed_packet` parameter on the database server to 16M.

To configure the MySQL database server

- 1 Open the `C:\Program Files\MySQL\MySQL Server X.X\my.ini` file for editing.
- 2 In the `[mysql]` section, add the following line: **`max_allowed_packet = 16M`**.

You can now log in to the Orchestrator configuration interface and configure the database connection parameters for MySQL. For more information about configuring the database connection parameters, see *vCenter Orchestrator Installation and Configuration Guide*.

If you have comments about this documentation, submit your feedback to: docfeedback@vmware.com

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