Abstract
This document contains detailed instructions for installing, upgrading, and removing HPE OneView for VMware vCenter. The intended audience is system administrators who are experienced in virtual and physical IT infrastructure administration and understand server virtualization, storage, and networking concepts.
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Overview

HPE OneView for VMware vCenter is a VMware vCenter Plugin that you use to manage HPE ProLiant servers and storage systems. The application provides the following features for HPE Server and Storage.

- **HPE OneView for VMware vCenter for server**—Adds HPE ProLiant, HPE Synergy, and HPE BladeSystem hardware monitoring. Provides server hardware management capabilities, including comprehensive monitoring, firmware update, vsphere/ESXi image deployment, remote control, end-to-end monitoring for Virtual Connect, and power optimization for HPE servers in the VMware environment.

- **HPE OneView for VMware vCenter for storage**—Provides storage configuration and status information for mapping VMs, datastores, and hosts to LUNs on HPE storage systems. Supports provisioning on HPE 3PAR StoreServ, HPE StoreVirtual, and HPE MSA 1050/2050/2052 storage systems. Supported provisioning tasks include creating, expanding, or deleting a datastore, and creating a VM. Displays view-only information for the HPE StoreOnce Backup systems. Scheduling underlying storage volume(s) snapshots of HPE 3PAR StoreServ related datastore is now supported.

HPE OneView for VMware vCenter is integrated with the vCenter management server and the vSphere Client software from VMware. VMware vCenter is used as the single point of management for VMware virtual environments, which can consist of many standalone or clustered vsphere configurations. The virtual environment administrator accesses the vCenter management capabilities using the vSphere Client software.

The HPE OneView for VMware vCenter software is deployed as a virtual appliance from VMware Client and is then configured to connect and register with a vCenter server. After HPE OneView for VMware vCenter is registered with a vCenter server, all vCenter clients connected to the vCenter server can access the HPE OneView for VMware vCenter software.

You can access HPE OneView for VMware vCenter using the vSphere Client.

![Figure 1: HPE OneView for VMware vCenter Getting Started page](image)

The HPE OneView for VMware vCenter for server:
• Provides inventory and status information. This information is collected from HPE ProLiant tools such as, HPE OneView Onboard Administrator, iLO, Virtual Connect Manager, and HPE ESXi Offline Bundle for VMware ESXi.

• Sends events to vCenter Event Log, WBEM indications, Onboard Administrator events, and HPE OneView alerts for hosts managed by HPE OneView.

• Provides links to launch ProLiant tools.

• Provides a method for software and firmware deployment.

• Provides graphical status indications collected from the HPE ProLiant tools, and a graphical view of the end-to-end network for each host. A graphical view of the end-to-end network for each blade server is also provided.

• Provides the ability to deploy, grow, and manage the configuration consistency of clusters.

The HPE OneView for VMware vCenter for storage:

• Uses the established connection to the vCenter server to resolve the storage used for each host, datastore, and VM in the virtual environment. This information is cached in HPE OneView for VMware vCenter.

• Uses the configured information for storage systems in the environment to obtain detailed information for devices provisioned from the storage systems to virtual server hosts. This information is cached in HPE OneView for VMware vCenter.

• Creates relationships between VMware objects and storage system devices and presents the information to the vSphere Clients.

HPE OneView for VMware vCenter and VMware configuration shows a typical VMware configuration with HPE OneView for VMware vCenter integrated into the environment.
HPE OneView for VMware vCenter for server features

HPE OneView for VMware vCenter for server provides hardware management capabilities to administrators, enabling comprehensive monitoring, remote control, and power optimization from the VMware vCenter server console. HPE OneView for VMware vCenter for server consists of the core HPE OneView capabilities with a plug-in for the HPE OneView for VMware vCenter environment that adds many of the HPE OneView features into the HPE OneView for VMware vCenter console, including the following:

- **Combined physical and virtual view**—From a single pane of glass, monitor host systems.
- **Integrated troubleshooting**—Receive pre-failure and failure alerts on HPE server components and launch HPE management tools, such as iLO, Virtual Connect Manager, Converged Infrastructure Controller, HPE OneView, and Onboard Administrator, from the vCenter console.
- **End-to-end network monitoring**—Visually trace and monitor your network end-to-end from the host to the network modules connected in your domain. This feature is available with the vSphere Client on blade servers in a Virtual Connect environment only.
- **Remote control**—Provide the capability to launch remote management tools.

Licensing

HPE OneView for VMware vCenter use is covered under the HPE OneView Advanced License. Basic monitoring and inventory is supported with HPE OneView for VMware vCenter using HPE OneView Standard Licenses; all other functionality requires HPE OneView Advanced Licenses. For more information, please visit [Software License Documents](#).
• **Stability**—Monitor and deploy firmware on HPE ProLiant vSphere/ESXi hosts that have the HPE software bundle installed.

• **Cluster Management**—Deploy, grow, and manage the configuration consistency of clustered hosts using HPE OneView and deployment solutions.

## HPE OneView for VMware vCenter for storage features

The HPE OneView for VMware vCenter for storage enhances VMware functionality by providing details about the disks presented to the virtual environment. This improved visibility helps administrators make informed decisions when designing, deploying, maintaining, and troubleshooting a virtual environment. For example, an administrator can use the information provided by the HPE OneView for VMware vCenter for storage to do the following:

• Ensure that mission-critical VMs reside on storage provided by a HPE StoreVirtual storage system meeting established replication requirements.

• Ensure that a production database application is located on the HPE StoreServ RAID 5 storage volumes that are replicated to a remote datacenter.

• Preserve storage resources when placing a temporary test database on HPE MSA 1050/2050/2052 storage volumes.

From the vSphere Client, the HPE OneView for VMware vCenter for storage enables you to do the following:

• Monitor the status and health of HPE storage systems.

• Understand the relationships between physical storage and virtual objects.
  ◦ **VM**—VM to datastore mapping and VM to raw device mapping
  ◦ **Datastore**—Datastore to physical device mapping and datastore to VM mapping
  ◦ **RDM**—RDM to physical device mapping and RDM to VM mapping

• Manage LUN and volume connections from VMs, datastores, and hosts (ESXi servers) to HPE storage systems.

• Provision storage on supported HPE storage systems.
Installing, upgrading, and removing the software

This chapter provides the procedures to install, upgrade, and remove HPE OneView for VMware vCenter.

**NOTE:** Administrative privileges are required to perform the software installation.

**HPE OneView for VMware vCenter licensing**

HPE OneView for VMware vCenter use is covered under the HPE OneView Advanced License. Basic monitoring and inventory is supported with HPE OneView for VMware vCenter using HPE OneView Standard Licenses; all other functionality requires HPE OneView Advanced Licenses. HPE Synergy includes the Advanced license, so no additional license is required when using HPE Synergy. The most significant difference between the standard and advanced license is that the standard license server does not have server profiles. For HPE blade servers, licensing is determined at the enclosure level. When an enclosure is imported, you can select either a standard or an advanced license. Enclosures cannot have a mix of standard and advanced licensed blade servers. The virtual connect modules in standard license enclosures are managed by HPE Virtual Connect and not by HPE OneView.

**HPE OneView for VMware vCenter requirements**

This section describes the hardware, software, and network connectivity requirements for HPE OneView for VMware vCenter.

**NOTE:** For the latest support information, see the HPE Insight Management Support Matrix at Hewlett Packard Enterprise Information Library.

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>Server</td>
<td>HPE OneView for VMware vCenter works in any heterogeneous environment, but data is only reported for the HPE infrastructure. The recommended servers are:</td>
</tr>
<tr>
<td></td>
<td>• HPE ProLiant BladeSystem c-Class</td>
</tr>
<tr>
<td></td>
<td>• HPE ProLiant 100, 300, 500, 700, or 900 series ML, DL, or XL servers</td>
</tr>
<tr>
<td></td>
<td>• HPE Synergy D3940 Storage Module</td>
</tr>
<tr>
<td></td>
<td>• HPE Synergy 12Gb SAS Connection Module</td>
</tr>
<tr>
<td></td>
<td>• HPE Synergy Server</td>
</tr>
<tr>
<td>Disk space</td>
<td>150GB (Thick Provisioning) / 4.1GB (Thin Provisioning) of available disk space</td>
</tr>
<tr>
<td>Processor</td>
<td>Two processors on a supported HPE server</td>
</tr>
<tr>
<td>RAM</td>
<td>4GB</td>
</tr>
</tbody>
</table>
## Table 2: Software requirements

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Applications</strong></td>
<td>• Microsoft Internet Explorer&lt;br&gt;• Mozilla Firefox&lt;br&gt;• Google Chrome</td>
</tr>
<tr>
<td><strong>Storage systems software (HPE OneView for VMware vCenter for storage only)</strong></td>
<td>You must use supported storage systems with the required management software installed. For more information, see the storage systems documentation.</td>
</tr>
<tr>
<td><strong>Server Deployment</strong></td>
<td>For HPE OneView, HPE Synergy Image Streamer for Synergy or set up OS build plan inside HPE OneView for VMware vCenter Deployment Server.</td>
</tr>
<tr>
<td><strong>ESXi Offline Bundle for VMware ESXi, included in the HPE ESXi image</strong></td>
<td>These are available in the HPE ESXi image or by installing the HPE ESXi Offline Bundle.</td>
</tr>
</tbody>
</table>
### Table 3: Network connectivity requirements

<table>
<thead>
<tr>
<th>Modules</th>
<th>Specification</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE OneView for VMware vCenter includes:</td>
<td>Network connectivity for HPE OneView for VMware vCenter to the following:</td>
</tr>
<tr>
<td>• HPE OneView for VMware vCenter for server</td>
<td>• Systems running HPE OneView for VMware vCenter</td>
</tr>
<tr>
<td>• HPE OneView for VMware vCenter for storage</td>
<td>• Systems running VMware vSphere Client</td>
</tr>
<tr>
<td>• HPE Virtual Networking</td>
<td>vSphere/ESXi host system network connectivity for servers to the following:</td>
</tr>
<tr>
<td></td>
<td>• HPE SIM (required for SIM-enabled functionality)</td>
</tr>
<tr>
<td></td>
<td>• All instances of iLO that you want to manage</td>
</tr>
<tr>
<td></td>
<td>• All Onboard Administrator modules that you want to manage</td>
</tr>
<tr>
<td></td>
<td>• All virtual connect modules that you want to manage</td>
</tr>
<tr>
<td></td>
<td>Network connectivity for storage to the following:</td>
</tr>
</tbody>
</table>

**NOTE:** It is recommended that the iSCSI targets be discovered using Dynamic Discovery rather than Static Discovery. Configuring iSCSI targets using Static Discovery may cause the iSCSI adapter to not detect newly assigned iSCSI volumes upon rescan of the adapter.

- HPE 3PAR StoreServ requirements:
  - Network connectivity to the ports (WS-API, CIM, SSH) of the HPE 3PAR StoreServ
  - CIM provider must be enabled
  - SSH service must be enabled. To verify, log into the storage system’s management server as an administrator. Install the HPE 3PAR OS Command Line Interface and run it. If you can log into it, the SSH service is running and enabled.
  - WS-API service must be enabled.

- HPE StoreVirtual requirements:
  - Network connectivity to the storage system’s management port
  - CIM provider is always enabled on LeftHand OS

- HPE MSA 1050/2050/2052 requirements:
- Network connectivity to the storage system's management port
- Secured SMI-S provider must be enabled on the storage system. To verify SMI-S, login to the SMU, select System > Action > System Settings > Services and verify that Storage Management Initiative Specification (SMI-S) is enabled.

- HPE StoreOnce Backup requirements:
  Network connectivity to the backup system’s management port

**NOTE:** For additional details about the hardware and software that HPE OneView for VMware vCenter for storage supports, see the HPE Single Point of Connectivity Knowledge website at Welcome to SPOCK.

## HPE OneView for VMware vCenter compatibility matrix

**Compatibility Matrix** table lists the HPE OneView for VMware vCenter compatibility with HPE OneView and with the related products.

**Table 4: Compatibility Matrix**

<table>
<thead>
<tr>
<th>HPE OneView for VMware vCenter Release</th>
<th>HPE OneView version support</th>
<th>HPE Insight Control server provisioning version — Maximum version(s) supported</th>
<th>SUM version — Maximum version(s) supported</th>
<th>VMware vCenter/ESXi</th>
</tr>
</thead>
</table>
| 9.0                                   | 3.1, 4.0                    | 7.6                                                                             | Not Applicable                            | vCenter version: 6.0, 6.5  
ESXi images: 6.0, 6.5 |
| 9.1                                   | 4.0, 4.1                    | 7.6                                                                             | Not Applicable                            | vCenter version: 6.5, 6.7  
ESXi images: 6.0, 6.5, and 6.7 |
| 9.2                                   | 4.0, 4.1                    | Not supported                                                                   | Not Applicable                            | vCenter version: 6.5, 6.7  
ESXi images: 6.0, 6.5, and 6.7 |
NOTE:

1. HPE ProLiant Gen10 and Synergy Gen10 support ESXi 6.0 or newer.
2. For firmware update support, see the HPE OneView Support Matrix.
3. In HPE OneView for VMware vCenter, 9.0 and above SUM firmware upgrades are not applicable. It happens through HPE OneView.
4. Starting HPE OneView for VMware vCenter 9.2 release, HPE Insight Control server provisioning support is no longer available.

## Grow cluster support matrix

### Table 5: Grow Cluster Support Matrix

<table>
<thead>
<tr>
<th></th>
<th>HPE OneView for VMware vCenter 9.0</th>
<th>HPE OneView for VMware vCenter 9.1</th>
<th>HPE OneView for VMware vCenter 9.2</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Profile for Enhanced Grow Cluster</td>
<td>Unassigned Server Profile/Server Profile Template</td>
<td>Server Profile Template</td>
<td>Server Profile Template</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Fiber Channel (FC)</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>FCoE</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>iSCSI</td>
<td>No</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>Local Disk Boot</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Boot From SAN</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>SAN data disk</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Insight Control server provisioning 7.5</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Insight Control server provisioning 7.5 Update 1</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>Insight Control server provisioning 7.6</td>
<td>Yes</td>
<td>Yes</td>
<td>No</td>
</tr>
<tr>
<td>HPE OneView 3.10</td>
<td>Yes</td>
<td>No</td>
<td>No</td>
</tr>
<tr>
<td>HPE OneView 4.00</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>HPE OneView 4.10</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
</tr>
</tbody>
</table>
## Optional components

Advantages of installing optional components describes the benefits of using optional components.

### Table 6: Advantages of installing optional components

<table>
<thead>
<tr>
<th>Component</th>
<th>Functional advantage</th>
</tr>
</thead>
<tbody>
<tr>
<td>HPE iLO</td>
<td>• Power management</td>
</tr>
<tr>
<td></td>
<td>• Remote control</td>
</tr>
<tr>
<td></td>
<td>• HPE OneView for VMware vCenter displays additional server information</td>
</tr>
<tr>
<td>HPE Onboard Administrator</td>
<td>• Events</td>
</tr>
<tr>
<td></td>
<td>• Enclosure information</td>
</tr>
<tr>
<td></td>
<td>• Status</td>
</tr>
<tr>
<td>HPE Virtual Connect Manager</td>
<td>End-to-end network connectivity information for Virtual Connect environments</td>
</tr>
<tr>
<td>HPE OneView</td>
<td>End-to-end connectivity information for Virtual Connect environments managed by HPE OneView. Can manage multiple Virtual Connect environments.</td>
</tr>
<tr>
<td>HPE ESXi Offline Bundle for VMware ESXi and HPE Management Agents for VMware ESXi</td>
<td>• Events</td>
</tr>
<tr>
<td></td>
<td>• Hardware status</td>
</tr>
<tr>
<td></td>
<td>• Additional status information displays in the Host Information portlet and Host Details page</td>
</tr>
</tbody>
</table>

## Installing the software

- If you are currently using HPE OneView for VMware vCenter 9.0 and 9.1, import the configuration details from the existing installation. For information about exporting configuration details, see [Using Backup and Restore for HPE OneView for VMware vCenter](#).
- If you are currently using HPE OneView for VMware vCenter 9.0 and 9.1, use the STAR file for the seamless upgrade process. For information, see [In Place Upgrade](#).
- If you are a new user, deploy HPE OneView for VMware vCenter from VMware Client and specify new configuration details in the appliance. For more information, see [Deploying HPE OneView for VMware vCenter Server appliance](#).

**IMPORTANT:** Any store virtual systems must be removed using administrator console, prior to performing Backup or In Place upgrade.

If you have store virtual systems after the Backup and Restore or In Place upgrade, you have to remove and re-add the virtual systems.
IMPORTANT: For upgrade, using Backup-Restore or In Place upgrade process, it is recommended to restart the vCenter so that old plugins are completely removed. Log out of vSphere Client before adding vCenter through HPE OneView for VMware vCenter Administrator Console. Alternatively, log out and log in after adding the vCenter to view the HPE OneView for VMware vCenter plugin.

Using backup and restore for HPE OneView for VMware vCenter

Use the Backup and Restore feature of HPE OneView for VMware vCenter while upgrading HPE OneView for VMware vCenter from v9.0 onward to the latest version.

Backup procedure for HPE OneView for VMware vCenter

Procedure

1. Log in to Administrator Console using vSphere Client.
2. From the Administrator Console, navigate to **Settings** > **Backup and Restore** and select the **Create backup** option.

![Create Backup](image)

3. Enter the password and confirm password. Click **Create backup**.

   This replaces any existing backup available on your local system. You can also download and manage the backup outside the system.

4. Click **Download backup** to download the created backup file. The backup file will be stored in the default downloads folder.

5. Deploy the latest HPE OneView for VMware vCenter appliance. See **Deploying HPE OneView for VMware vCenter Server appliance**.

Restore procedure for HPE OneView for VMware vCenter

Procedure

1. Log in to Administrator Console using vSphere Client.
2. From the Administrator Console, navigate to **Settings** > **Backup and Restore** and select the **Restore from backup** option.

   The **Restore from Backup** page appears.
3. Do one of the following:

   a. Select **Select a backup file** to restore from a previously downloaded backup file by browsing or dragging and dropping it into the dialog box.

   b. Select **Restore from local backup** to restore from a local backup, if it exists.

4. Click **Upload file**.

5. Provide the password that was specified at the time of creating the backup file.

6. Click **Restore**.

**In Place upgrade**

**IMPORTANT:** It is recommended to have a backup before you attempt an In Place upgrade.
**Procedure**

1. Log in to Administrator Console using vSphere Client.

2. Click **HPE OneView for VMware vCenter**, select **Settings**.

3. Click **Upgrade**.

4. Select **Actions**, click **Upload update package**.

5. Select **Choose File** and browse. Choose the STAR (Signed tar) File and click **Start upload**.

6. Post uploading the file, click **Close**.

7. Click **Actions**, select **Perform update**.

8. Click **Check** for System Readiness. Post completion of test, click **Begin Update**.

9. You can monitor upgrade activity on the administrator console. Post completion of all tasks, perform appliance reboot.

**Setting up HPE OneView for VMware vCenter**

Log in to the Administrator Console after installation to add any VMware vCenter or storage systems.

For more information and instructions, see the *HPE OneView for VMware vCenter User Guide* or *HPE OneView for VMware vCenter Help System*.
Deploying HPE OneView for VMware vCenter server appliance

HPE OneView for VMware vCenter is now available only in the VMware appliance mode.

You can deploy the HPE OneView for VMware vCenter appliance from the vSphere Client, using the Deploy OVF Template.

Procedure

1. Log in to the Administrator Console using vSphere Client.
2. Select the host and right-click **Deploy OVF Template**.

![Screenshot of vSphere Client]

3. For the source location, select the **URL** or the **Local file**.
4. For the local file, click **Browse** and provide the OVF template location. For the URL, enter the specified URL. Click **Next**.

   The **select name and location** page appears.
5. Specify the name and location for the deployed template and click **Next**.

   The **select a resource** page appears.
6. Click **Browse**. Select where to run the deployed template and click **Next**.

   The **review details** page appears.
7. Review the details and click **Next**.

   The **accept license agreements** page appears.
8. Click **Accept** for the HPE End User License Agreement and click **Next**.

   The **select storage** page appears.
9. Select the virtual disk format and choose the destination from the available datastores. Click **Next**.

   The **select networks** page appears.
10. Select the desired network for your virtual machine and click **Next**.
It is mandatory to configure at least one network during deployment. However, HPE OneView for VMware vCenter allows you to configure up to three networks. You may configure additional networks for redundancy or if the user has their storage on a private network and vCenter on a public network. Configure additional networks from the Administrator Console post deployment as needed.

The **customize template** page appears.

11. Customize the template with valid deployment properties listed in the table and click **Next**.

<table>
<thead>
<tr>
<th>Fully Qualified Domain Name</th>
<th>name.in.home.abcdcorp.net</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boot Protocol</td>
<td>Static</td>
</tr>
<tr>
<td>DNS Servers</td>
<td>10.0.0.2, 10.0.0.3</td>
</tr>
<tr>
<td>Default Gateway</td>
<td>10.0.0.1</td>
</tr>
<tr>
<td>IP Address</td>
<td>10.102.100.120</td>
</tr>
<tr>
<td>Subnet Mask</td>
<td>255.255.248.0</td>
</tr>
</tbody>
</table>

**NOTE:** The hostname must be a fully qualified domain name registered in the DNS server.

The **Ready to Complete** page appears.

12. Verify the setting selection and click **Finish**.
Post deployment, launch the HPE OneView for VMware vCenter appliance and then configure the appliance to start using it. For instructions about configuration, see *HPE OneView for VMware vCenter User Guide*.

**Post-installation tasks**

After you install HPE OneView for VMware vCenter 9.2, perform the following task.

**Launching administrator console**

**Procedure**

1. Launch the *Administrator Console* using the appliance hostname or IP from `https://<ApplianceHostname>`.
   
   Here, the `<applianceHostname>` must be a Fully Qualified Domain Name (FQDN), registered in the DNS server, when deploying HPE OneView for VMware vCenter appliance. The *Setup* page appears.

2. Enter the *New password* and *Confirm password*. Click *OK*.
The HPE OneView for VMware vCenter Settings page appears.

### Options | Description
--- | ---
**Management VM >** | To configure the network and DNS settings.
**Log Collection >** | To generate logs required for logging a support call for the product.
**Sessions >** | Displays information about all the active sessions (deployment, provisioning, and so on) in the appliance.
**Time >** | Displays the log in time and date.
**Upgrade >** | Displays the last upgrade activity status and can be used to update the appliance to the latest version.

Table Continued
Options | Description
--- | ---
Backup and Restore | Displays the date and time of the last backup taken. Used to initiate the backup or restore from the backup of the configuration date about the servers, enclosures, and storage systems in the HPE OneView for VMware vCenter plugin.
Custom Properties | Used to define the custom properties that can be used for debugging with help from the support personnel.
Logging | Used to enable or disable Trace-level logging, if required by the support personnel for troubleshooting.

4. Click the down arrow to open the HPE OneView for VMware vCenter menu.
5. Under MANAGERS, click **vCenters**. To add vCenters:
   a. Click **+ Add vCenter** button in the left pane. Alternatively, from the **Actions** drop-down, click **Add**.
      The **Add vCenter** page opens.
   b. Enter the following details:
      • **Name** - vCenter host name or IPv4 address
      • **Username** - Enter the vCenter username
      **NOTE:** The Username used must have the vCenter Administrator privileges.
      • **Password** - Enter the vCenter password.
   c. Click **Add**.
   d. To add multiple vCenters, click **Add +**.

For detailed information on Administrator Console options, adding storage systems, adding users, adding RMC Instances, settings, and so on, see, *HPE OneView for VMware vCenter User Guide*.

**NOTE:** If you are unable to see plugin in VMware vCenter after adding vCenter in HPE OneView for VMware vCenter, see *VMware Knowledge Base*.

### Setting server and infrastructure credentials

To allow the HPE OneView for VMware vCenter plugin to collect information about your servers and infrastructure, you must configure the plugin with credentials. Credentials can be managed by logging into the vSphere Client and navigating to Administration. Select Server Integrations under the HPE OneView for VMware vCenter section.

**HPE OneView**

Enter the Hostname and credentials for each HPE OneView appliance in your environment. For HPE OneView managed servers and enclosures, only the HPE OneView credentials must be configured. You do not need to configure iLO, Onboard Administrator, or Virtual Connect credentials.

**NOTE:** For information on using domain accounts, see the *HPE OneView for VMware vCenter User Guide*.

**Servers**
For Non HPE OneView managed servers, you must provide HPE iLO, HPE Onboard Administrator, and Virtual Connect credentials. If all or most of your servers and infrastructure use the same credentials, then you can enter those in the Global Device Credentials section.

If all or certain devices have unique credentials, then enter those in the Device Credentials section. The device Credentials list will be checked first and if specific credentials are not found for a device, the Global Credentials will be used.

**NOTE:** Device credentials are not needed for HPE OneView managed hardware.

**Uninstalling the software**

**Procedure**

1. Create a backup of the appliance, if required using the Administrator Console. For more information about Backup and restore, see the *HPE OneView for VMware vCenter User Guide*.

2. Delete the vCenter from the Administrator Console. For more information about deleting a vCenter, see Configuring HPE OneView for VMware vCenter appliance section in the *HPE OneView for VMware vCenter User Guide*.

3. Power off the appliance from the Administrator Console and delete it from the inventory.
Default port values

The following tables identify the HPE OneView for VMware vCenter default port values for each installation option.

**Table 7: Available ports when installing the product**

<table>
<thead>
<tr>
<th>Port</th>
<th>Protocol</th>
<th>Used by</th>
</tr>
</thead>
<tbody>
<tr>
<td>22</td>
<td>Web Service, SSH</td>
<td>vSphere Client, HPE OneView for VMware vCenter</td>
</tr>
<tr>
<td>80</td>
<td>Web Service</td>
<td>vSphere Client</td>
</tr>
<tr>
<td>443</td>
<td>Web Service (VMware APIs)</td>
<td>vSphere Client, HPE OneView for VMware vCenter</td>
</tr>
<tr>
<td>1009</td>
<td>FC, Web Service</td>
<td>HPE OneView for VMware vCenter</td>
</tr>
<tr>
<td>2374</td>
<td>SMI-S, Web Service, SSH, CIM, WBEM</td>
<td>HPE OneView for VMware vCenter</td>
</tr>
<tr>
<td>3500 - 3512 (Typical Install of HPE OneView for VMware vCenter)</td>
<td>Web Service</td>
<td>HPE OneView for VMware vCenter</td>
</tr>
<tr>
<td>5989</td>
<td>SMI-S, Web Service, SSH</td>
<td>HPE OneView for VMware vCenter</td>
</tr>
<tr>
<td>8090</td>
<td>Web Service</td>
<td>HPE OneView for VMware vCenter</td>
</tr>
<tr>
<td>9443</td>
<td>HTTPS (VMware)</td>
<td>Customer’s Web Browser</td>
</tr>
<tr>
<td>50004</td>
<td>Web Service, CIM, WBEM</td>
<td>HPE OneView for VMware vCenter</td>
</tr>
<tr>
<td>63002</td>
<td>Web Service</td>
<td>HPE OneView for VMware vCenter</td>
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</table>
Port configuration information

Port information

The following table displays all external entities that HPE OneView for VMware vCenter can connect to. These external entities vary, depending upon the customer environment.

<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Protocol</th>
<th>Source</th>
<th>Destination</th>
<th>Port number</th>
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<tr>
<td>Browser</td>
<td>Customer Web Browser</td>
<td>TCP</td>
<td>Customer Web Browser</td>
<td>HPE OneView for VMware vCenter</td>
<td>3500</td>
</tr>
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<td></td>
<td></td>
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<td></td>
<td></td>
<td>3501</td>
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<td></td>
<td>3504</td>
</tr>
<tr>
<td>vCenter</td>
<td>VMware vSphere Client Server</td>
<td></td>
<td>Customer Web Browser</td>
<td>VMware vSphere Client</td>
<td>9443</td>
</tr>
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<td></td>
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<tr>
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<td></td>
<td>VMware vSphere Client Server</td>
<td>HPE OneView for VMware vCenter</td>
<td>3500</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>VMware vSphere Client Server</td>
<td>HPE OneView for VMware vCenter</td>
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<tr>
<td></td>
<td></td>
<td></td>
<td>VMware vSphere Client Server</td>
<td>HPE OneView for VMware vCenter</td>
<td>3501</td>
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<td></td>
<td>VMware vSphere Client Server</td>
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</tr>
<tr>
<td>vCenter</td>
<td>vCenter Plugin Management</td>
<td></td>
<td>vCenter</td>
<td>HPE OneView for VMware vCenter</td>
<td>3502</td>
</tr>
<tr>
<td>Storage</td>
<td>HPE 3PAR StoreServ</td>
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<td>HPE OneView for VMware vCenter</td>
<td>HPE 3PAR StoreServ</td>
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<td></td>
<td>8080</td>
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<td></td>
<td>22</td>
</tr>
<tr>
<td>Storage</td>
<td>HPE StoreVirtual/HPE StoreVirtual VSA</td>
<td></td>
<td>HPE OneView for VMware vCenter</td>
<td>HPE StoreVirtual/HPE StoreVirtual VSA</td>
<td>5989</td>
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<td></td>
<td></td>
<td>8081</td>
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<tr>
<td>Storage</td>
<td>HPE StoreOnce/HPE StoreOnce VSA</td>
<td></td>
<td>HPE OneView for VMware vCenter</td>
<td>HPE StoreOnce/HPE StoreOnce VSA</td>
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<tr>
<td>Storage</td>
<td>HPE MSA 1050/2050/2052</td>
<td></td>
<td>HPE OneView for VMware vCenter</td>
<td>HPE MSA 1050/2050/2052</td>
<td>5989</td>
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<td>22</td>
</tr>
<tr>
<td>Server/ Infrastructure</td>
<td>HPE OneView</td>
<td></td>
<td>HPE OneView for VMware vCenter</td>
<td>HPE OneView</td>
<td>443</td>
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Table Continued
<table>
<thead>
<tr>
<th>Category</th>
<th>Description</th>
<th>Protocol</th>
<th>Source</th>
<th>Destination</th>
<th>Port number</th>
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</thead>
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<td>HPE OneView for VMware vCenter</td>
<td>HPE Onboard Administrator</td>
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<td>Server/Infrastructure</td>
<td>iLO Monitoring</td>
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<td>HPE OneView for VMware vCenter</td>
<td>iLO Monitoring</td>
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<td>Server/Infrastructure</td>
<td>HPE Virtual Connect</td>
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<td>HPE OneView for VMware vCenter</td>
<td>HPE Virtual Connect</td>
<td>80, 443</td>
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<tr>
<td>Server/Infrastructure</td>
<td>ESXi</td>
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<td>HPE OneView for VMware vCenter</td>
<td>ESXi</td>
<td>443</td>
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<td></td>
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<td></td>
<td>5989</td>
</tr>
<tr>
<td>Server/Infrastructure</td>
<td>HPE System Insight Manager</td>
<td></td>
<td>HPE OneView for VMware vCenter</td>
<td>HPE System Insight Manager</td>
<td>443</td>
</tr>
<tr>
<td>Server/Infrastructure</td>
<td>Smart Update Manager</td>
<td></td>
<td>HPE OneView for VMware vCenter</td>
<td>Smart Update Manager</td>
<td>443</td>
</tr>
</tbody>
</table>
Support and other resources

Accessing Hewlett Packard Enterprise Support

- For live assistance, go to the Contact Hewlett Packard Enterprise Worldwide website:
  http://www.hpe.com/assistance
- To access documentation and support services, go to the Hewlett Packard Enterprise Support Center website:
  http://www.hpe.com/support/hpec

Information to collect

- Technical support registration number (if applicable)
- Product name, model or version, and serial number
- Operating system name and version
- Firmware version
- Error messages
- Product-specific reports and logs
- Add-on products or components
- Third-party products or components

Accessing updates

- Some software products provide a mechanism for accessing software updates through the product interface. Review your product documentation to identify the recommended software update method.
- To download product updates:
  Hewlett Packard Enterprise Support Center
  www.hpe.com/support/hpec
  Hewlett Packard Enterprise Support Center: Software downloads
  www.hpe.com/support/downloads
  Software Depot
  www.hpe.com/support/softwaredepot
- To subscribe to eNewsletters and alerts:
  www.hpe.com/support/e-updates
- To view and update your entitlements, and to link your contracts and warranties with your profile, go to the Hewlett Packard Enterprise Support Center More Information on Access to Support Materials page:
  www.hpe.com/support/AccessToSupportMaterials
IMPORTANT: Access to some updates might require product entitlement when accessed through the Hewlett Packard Enterprise Support Center. You must have an HPE Passport set up with relevant entitlements.

Customer self repair

Hewlett Packard Enterprise customer self repair (CSR) programs allow you to repair your product. If a CSR part needs to be replaced, it will be shipped directly to you so that you can install it at your convenience. Some parts do not qualify for CSR. Your Hewlett Packard Enterprise authorized service provider will determine whether a repair can be accomplished by CSR.

For more information about CSR, contact your local service provider or go to the CSR website:

http://www.hpe.com/support/selfrepair

Remote support

Remote support is available with supported devices as part of your warranty or contractual support agreement. It provides intelligent event diagnosis, and automatic, secure submission of hardware event notifications to Hewlett Packard Enterprise, which will initiate a fast and accurate resolution based on your product's service level. Hewlett Packard Enterprise strongly recommends that you register your device for remote support.

If your product includes additional remote support details, use search to locate that information.

Remote support and Proactive Care information

HPE Get Connected
www.hpe.com/services/getconnected

HPE Proactive Care services
www.hpe.com/services/proactivecare

HPE Proactive Care service: Supported products list
www.hpe.com/services/proactivecaresupportedproducts

HPE Proactive Care advanced service: Supported products list
www.hpe.com/services/proactivecareadvancedsupportedproducts

Proactive Care customer information

Proactive Care central
www.hpe.com/services/proactivecarecentral

Proactive Care service activation
www.hpe.com/services/proactivecarecentralgetstarted

Warranty information

To view the warranty information for your product, see the links provided below:

HPE ProLiant and IA-32 Servers and Options
www.hpe.com/support/ProLiantServers-Warranties

HPE Enterprise and Cloudline Servers
www.hpe.com/support/EnterpriseServers-Warranties

HPE Storage Products
www.hpe.com/support/Storage-Warranties

HPE Networking Products
www.hpe.com/support/Networking-Warranties
Regulatory information

To view the regulatory information for your product, view the Safety and Compliance Information for Server, Storage, Power, Networking, and Rack Products, available at the Hewlett Packard Enterprise Support Center:

www.hpe.com/support/Safety-Compliance-EnterpriseProducts

Additional regulatory information

Hewlett Packard Enterprise is committed to providing our customers with information about the chemical substances in our products as needed to comply with legal requirements such as REACH (Regulation EC No 1907/2006 of the European Parliament and the Council). A chemical information report for this product can be found at:

www.hpe.com/info/reach

For Hewlett Packard Enterprise product environmental and safety information and compliance data, including RoHS and REACH, see:

www.hpe.com/info/ecodata

For Hewlett Packard Enterprise environmental information, including company programs, product recycling, and energy efficiency, see:

www.hpe.com/info/environment

Documentation feedback

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## Websites

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<td>Hewlett Packard Enterprise Information Library</td>
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<td>Hewlett Packard Enterprise Support Center</td>
<td><a href="http://www.hpe.com/support/hpesc">www.hpe.com/support/hpesc</a></td>
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<td>Contact Hewlett Packard Enterprise Worldwide</td>
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<td><a href="http://www.hpe.com/support/e-updates">www.hpe.com/support/e-updates</a></td>
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<td>Single Point of Connectivity Knowledge (SPOCK) Storage compatibility matrix</td>
<td><a href="http://www.hpe.com/storage/spock">www.hpe.com/storage/spock</a></td>
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<td>Storage white papers and analyst reports</td>
<td><a href="http://www.hpe.com/storage/whitepapers">www.hpe.com/storage/whitepapers</a></td>
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<td>HPE OneView for VMware vCenter documentation</td>
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<td>Insight Control documentation</td>
<td><a href="http://www.hpe.com/info/insightcontrol/docs">www.hpe.com/info/insightcontrol/docs</a></td>
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