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

Starting with 8.0 release, HPE OneView for VMware vCenter is available as an appliance only. Launch the Administrator Console using the appliance hostname or IP. For example, https://<ApplianceHostnameOrIP>. For information about configuring the appliance, see the Configuring vCenters and Storage Systems section in the HPE OneView for VMware vCenter User Guide. You cannot install the appliance on Windows Platform. However, you can migrate the configuration information from the existing Windows platform to the appliance with the help of Migration Tool. For more information about using the Migration Tool, see the Running Migration tool for HPE OneView for VMware vCenter.

• **HPE OneView for VMware vCenter Server Module**—Adds HPE ProLiant and HPE BladeSystem hardware monitoring into the HPE OneView for VMware vCenter console. 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 Hewlett Packard Enterprise servers in the VMware environment.

**IMPORTANT:**

The HPE OneView for VMware vCenter Server Module and the HPE OneView for VMware vCenter Storage Module are no longer a separate installation. However, the HPE OneView for VMware vCenter Server Module services do not activate unless credentials are provided.

• **HPE OneView for VMware vCenter Storage Module**—Provides storage configuration and status information for mapping VMs, datastores, and hosts to LUNs on Hewlett Packard Enterprise storage systems. The Storage Module enables you to register HPE Storage Systems and use the VASA provider for supported Hewlett Packard Enterprise storage systems, including HPE 3PAR StoreServ systems. Supports provisioning on HPE 3PAR StoreServ, HPE StoreVirtual, and HPE MSA 1040/2040/2050 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. HPE OneView for VMware vCenter Storage Module deploys the following virtual appliances:
  - HPE StoreOnce VSA
  - HPE StoreVirtual VSA

HPE OneView for vCenter is integrated with the vCenter management server and the vSphere Web 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 Web Client software.

The HPE OneView for vCenter software is now deployed as an Appliance from VMware web client and is then configured to connect and register with a vCenter server. After HPE OneView for vCenter is registered with a vCenter server, all vCenter clients connected to the vCenter server can access the HPE OneView for vCenter software.
You can access HPE OneView for vCenter using the vSphere Web Client.

HPE OneView for VMware vCenter

HPE now integrates with VMware vSphere Web Client in more locations, providing you easier access to HPE content. This page helps you quickly navigate the product. Find more in-depth information in the online help.

Navigating the product

All content in the product is context-sensitive based on the selection in the inventory list. The HPE Management tab is divided under Monitor and Manage for clusters, hosts, virtual machines, and storage.

The following tabs are available for a host. Click on the tab name to navigate directly to that tab for the selected host:

- **Summary Tab**: Provides links to launch ProLiant tools.
- **Health Tab**: Provides inventory and status information. This information is collected from HPE ProLiant tools such as Onboard Administrator, iLO, Virtual Connect Manager, and HPE ESXi Offline Bundle for VMware ESXi.
- **Events Feed**: Sends events to the HPE OneView for vCenter News Feed and events page based on SNMP traps, WBEM indications, Onboard Administrator events, and HPE OneView information for hosts managed by HPE OneView.
- **Actions**: 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.
- **Configuring the product**: Provides the ability to configure vSwitches on a host based on the networks available in the Virtual Connect profile.

The Server Module for vCenter:

- Provides inventory and status information. This information is collected from HPE ProLiant tools such as Onboard Administrator, iLO, Virtual Connect Manager, and HPE ESXi Offline Bundle for VMware ESXi.
- Sends events to the HPE OneView for vCenter News Feed and events page based on SNMP traps, WBEM indications, Onboard Administrator events, and HPE OneView information 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 configure vSwitches on a host based on the networks available in the Virtual Connect profile.

The Storage Module for vCenter:

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

HPE OneView for vCenter and VMware configuration shows a typical VMware configuration with HPE OneView for vCenter integrated into the environment.
HPE OneView for vCenter provides hardware management capabilities to administrators, enabling comprehensive monitoring, remote control, and power optimization from the VMware vCenter Server console. HPE OneView for vCenter consists of the core HPE OneView capabilities with a plug-in for the HPE OneView for vCenter environment that adds many of the HPE OneView features into the HPE OneView for 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 Hewlett Packard Enterprise server components and launch Hewlett Packard Enterprise management tools, such as Systems Insight Manager, 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 Web Client on blade servers in a Virtual Connect environment only.
- **Remote control**—Provide the capability to launch into remote management tools.
- **Proactive power management**—Get the most out of your existing power envelope by comprehending and proactively managing power for hosts and pools of VMs across hosts. This feature is supported on clusters configured with DPM.
- **Role-based security**—HPE OneView for vCenter uses role-based security access to the users. It assigns permission to HPE OneView for vCenter Single-sign on and provides the level of access and control, based on the role. For more information, see the *HPE OneView for VMware vCenter User Guide* or online help.
• **Stability**—Monitor and deploy firmware on HPE ProLiant vSphere/ESXi hosts that have the Hewlett Packard Enterprise software bundle installed (firmware deployment is supported with the vSphere Web Client only).

• **Deployment of vSphere/ESXi hosts on bare-metal ProLiant servers directly from VMware vCenter**—The deployment wizard is not supported on the vSphere Web Client, which uses HPE Insight Control Server Provisioning. For vSphere/ESXi version information, see the *HPE OneView for VMware vCenter Release Notes*.

• **Automated host networking configuration**—Automatically configure host networking based on networks available in the Virtual Connect profile. This feature is available only on the vSphere Web Client on blade servers in a Virtual Connect environment.

In addition to these tasks, when HPE OneView for vCenter is installed with Insight Control, you have the full capabilities of both tools to manage your VMware environment. For more information about Insight Control capabilities, see the Insight Control documentation on the Hewlett Packard Enterprise website:

http://www.hpe.com/info/insightcontrol/docs

### Storage Module for vCenter Features

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

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

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

• Preserve storage resources when placing a temporary test database on HPE MSA 1040/2040/2050 storage volumes.

From the vSphere Web Client, the Storage Module for vCenter enables you to do the following:

• Monitor the status and health of Hewlett Packard Enterprise 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 (ESX servers) to Hewlett Packard Enterprise storage systems.

• Provision storage on supported Hewlett Packard Enterprise storage systems.

• Take advantage of VASA storage API features. The Storage Module for vCenter supports the VASA storage API from VMware. The VASA API provides visibility into the physical storage infrastructure through vCenter. VASA capabilities are supported for HPE 3PAR StoreServ, HPE StoreVirtual, and HPE MSA 1040/2040/2050 storage systems.
Installing, upgrading, and removing the software

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

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

HPE OneView for vCenter licensing

Starting with version 1.20, HPE OneView includes both standard and advanced server licensing. In previous versions of HPE OneView, all servers had only advanced licenses. In HPE OneView 1.20 and later, servers can also have a standard license. Standard license servers have basic support in HPE OneView. The most significant difference between the standard and advanced license is that the standard license server does not have server profiles. For Hewlett Packard Enterprise 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 Virtual Connect and not by HPE OneView.

HPE OneView for VMware vCenter is licensed with either HPE Insight Control or HPE OneView. To license HPE OneView for vCenter:

• HPE OneView: See the HPE OneView for VMware vCenter website at http://www.hpe.com/info/ovvcenter for licensing.
• HPE Insight Control: HPE OneView for vCenter does not have separate license keys from HPE Insight Control. You must have one Insight Control license for each HPE ProLiant server managed by HPE OneView for vCenter. The Storage Module for vCenter does not require this license. For more information about licensing HPE OneView for vCenter through HPE Insight Control, see http://www.hpe.com/info/insightcontrol and click on the License tab.

Installation configurations

Starting with 8.0 release, HPE OneView VMware for vCenter is available only as an appliance. It is no longer available as a Windows installer. The new HPE OneView for vCenter Migration Tool in place of the legacy installer, will help you in migrating the configuration data from the previous Windows based product to the new appliance. Running Migration tool for HPE OneView for VMware vCenter on page 16 provides the instructions to export the legacy configuration data on Windows platform, to deploy the appliance from the VMware web client, and to import the data into the new appliance.

HPE OneView for vCenter Requirements

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

NOTE:
For the latest support information, see the HPE Insight Management Support Matrix at http://www.hpe.com/info/insightmanagement/docs.
### Table 1: Hardware requirements

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
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</table>
| Server             | HPE OneView for vCenter works in any heterogeneous environment, but data is only reported for the Hewlett Packard Enterprise infrastructure. The recommended servers are:  
• HPE ProLiant BladeSystem c-Class  
• HPE ProLiant 100, 300, 500, 700, or 900 series ML or DL servers  
• HPE Synergy D3940 Storage Module  
• HPE Synergy 12Gb SAS Connection Module  
• HPE Synergy Server |
| Disk space         | Minimum 1 GB of available disk space                                                                                                              |
| Processor          | Minimum of two processors on a supported Hewlett Packard Enterprise server                                                                          |

### Table 2: Software requirements

<table>
<thead>
<tr>
<th>Component</th>
<th>Specification</th>
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</table>
| Applications                                   | • Microsoft Internet Explorer 8.0 or later (default)  
• Mozilla Firefox  
• Google Chrome  
• Adobe Flash player 11.0                                                                                                                                 |
| Storage systems software (Storage Module for vCenter only) | You must use supported storage systems with the required management software installed. For more information, see the storage systems documentation. |
| HPE Insight Control Server Provisioning        | Required If you want to do server provisioning using the vSphere Web Client. The HPE Insight Control server provisioning software is available for download from the following website: [http://www.hpe.com/info/insightcontrol](http://www.hpe.com/info/insightcontrol) |
| HPE ESXi Offline Bundle for VMware ESXi, included in the HPE ESXi image. | This plugin requires the HPE CIM providers. These are available in the HPE ESXi image or by installing the HPE ESXi Offline Bundle. |
### Table 3: Network connectivity requirements

<table>
<thead>
<tr>
<th>Modules</th>
<th>Specification</th>
</tr>
</thead>
</table>
| HPE OneView for vCenter includes:  
  • Server Module for vCenter  
  • Storage Module for vCenter  
  • HPE Virtual Networking | Network connectivity for HPE OneView for vCenter to the following:  
  • Systems running HPE OneView for vCenter  
  • Systems running VMware vSphere Web Client  
  vSphere 5.x/ESXi 5.x or vSphere 6.0/ESXi 6.0 or vSphere 6.5/ESXi 6.5 host system network connectivity for servers to the following:  
  • HPE SIM (required for SIM-enabled functionality)  
  • All instances of iLO that you want to manage  
  • All Onboard Administrator modules that you want to manage  
  • All Virtual Connect modules that you want to manage  
Network connectivity for storage to the following:  

**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 requires:  
  ◦ Network connectivity to the management port of the HPE 3PAR StoreServ  
  ◦ CIM provider must be enabled  
  ◦ SSH service must be enabledTo 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.  

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

• HPE MSA 1040/2040/2050 requires:  
  ◦ Network connectivity to the storage system’s management port  
  ◦ SMI-S provider must be enabled on the storage system. To verify, log into v2 SMU of the storage systems. Select Configuration > Services > Management to verify that the SMI-S Enabled box is selected. To verify SMI-S with v3 SMU select System > Action > Set Up System Services and verify that Storage Management Initiative Specification (SMI-S) is enabled.  

• HPE StoreOnce Backup requires:  
  ◦ Network connectivity to the backup system’s management port
NOTE:
For additional details about the hardware and software that HPE Storage Module for vCenter supports, see the HPE SPOCK website at [http://www.hpe.com/storage/spock](http://www.hpe.com/storage/spock).

HPE OneView for VMware vCenter compatibility matrix

**Compatibility Matrix** 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>HP SUM version — Maximum version(s) supported</th>
<th>SPP snap version — Maximum version(s) supported</th>
<th>VMware vSphere/Esxi</th>
</tr>
</thead>
</table>
| 7.4                                   | 1.10–1.10.03                | 7.3 Update 1                                                                   | 7.1                                           | spp.baseiso_2014.06.0                          | vSphere version: 5.0u3/5.1u2/5.5u2  
Esxi images: 5.0u3/5.1u2/5.5u2 |
| 7.4 Update 1                          | 1.10–1.10.03                | 7.3 Update 2                                                                   | 7.1                                           | spp.baseiso_2014.06.0                          | vSphere version: 5.0u3/5.1u2/5.5u2  
Esxi images: 5.0u3/5.1u2/5.5u2 |
| 7.4 Update 2                          | 1.10–1.10.03                | 7.4                                                                            | 7.1                                           | spp.base.iso_2014.09.0                         | vSphere version: 5.0u3/5.1u2/5.5u2  
Esxi images: 5.0u3/5.1u2/5.5u2 |
| 7.4 Update 5                          | 1.10.09                     | 7.4                                                                            | 7.2                                           | spp.base.iso_2015.02.0                         | vSphere version: 5.0u3/5.1u2/5.5u2  
Esxi images: 5.0u3/5.1u2/5.5u2 |
| 7.5                                   | 1.20.03–1.20.05             | 7.4                                                                            | 7.2                                           | spp.base.iso_2015.03                           | vSphere version: 5.0u3/5.1u2/5.5u2  
Esxi images: 5.0u3/5.1u2/5.5u2 |
| 7.5 Update 1                          | 1.20.03–1.20.05             | 7.4                                                                            | 7.2                                           | spp.base.iso_2015.04                           | vSphere version: 5.0u3/5.1u2/5.5u2  
Esxi images: 5.0u3/5.1u2/5.5u2 |

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<td>1.20.03–1.20.05</td>
<td>7.4</td>
<td>7.2</td>
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<td>vSphere version: 5.0u3/5.1u2/5.5u2 Esxi images: 5.0u3/5.1u2/5.5u2</td>
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<td>7.2</td>
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<td>Esxi images: 5.5u1/5.5u2/5.5u3/6.0u3/6.5u1</td>
</tr>
</tbody>
</table>

**NOTE:**

HPE ProLiant Gen10 and Synergy Gen10 support ESXi 6.0 or newer.
Table 5: Grow Cluster Support Matrix

<table>
<thead>
<tr>
<th></th>
<th>HPE OneView for VMware vCenter 7.8</th>
<th>HPE OneView for VMware vCenter 7.8.1</th>
<th>HPE OneView for VMware vCenter 7.8.2</th>
<th>HPE OneView for VMware vCenter 7.8.3</th>
<th>HPE OneView for VMware vCenter 8.0</th>
<th>HPE OneView for VMware vCenter 8.1</th>
<th>HPE OneView for VMware vCenter 8.2</th>
<th>HPE OneView for VMware vCenter 8.3</th>
</tr>
</thead>
<tbody>
<tr>
<td>Reference Profile for Enhanced Grow Cluster</td>
<td>Unassigned Server Profile</td>
<td>Unassigned Server Profile</td>
<td>Unassigned Server Profile</td>
<td>Unassigned Server Profile</td>
<td>Unassigned Server Profile</td>
<td>Unassigned Server Profile</td>
<td>Unassigned Server Profile</td>
<td>Unassigned Server Profile/Server Profile Template</td>
</tr>
<tr>
<td>Ethernet</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</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>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>FCoE</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>iSCSI</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>No ¹</td>
<td>Yes ²</td>
<td>No</td>
</tr>
<tr>
<td>Local Disk Boot</td>
<td>Yes ³</td>
<td>Yes ⁴</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</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>
<td>Yes</td>
<td>Yes</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>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
</tr>
<tr>
<td>Insight Control server</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes ⁵</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>server provisioning 7.5</td>
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<td></td>
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<tr>
<td>Insight Control server</td>
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<td>No</td>
<td>No</td>
<td>No</td>
<td>No</td>
<td>Yes</td>
<td>Yes</td>
<td>Yes</td>
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<tr>
<td>server provisioning 7.6</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<td></td>
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<td></td>
</tr>
</tbody>
</table>

*Table Continued*
<table>
<thead>
<tr>
<th>Optional components</th>
</tr>
</thead>
</table>

**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>iLO</td>
<td>• Power management</td>
</tr>
<tr>
<td></td>
<td>• Remote control</td>
</tr>
<tr>
<td></td>
<td>• HPE OneView for vCenter displays additional server information</td>
</tr>
<tr>
<td>Onboard Administrator</td>
<td>• Events</td>
</tr>
<tr>
<td></td>
<td>• Enclosure information</td>
</tr>
<tr>
<td></td>
<td>• Status</td>
</tr>
<tr>
<td>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>Smart components and ESXi Offline Bundle for VMware ESXi</td>
<td>Updated firmware components on vSphere 6.0/ESXi 6.0 hosts</td>
</tr>
</tbody>
</table>

---

1. *Partial support only.*
2. *Partial support only.*
3. *Supported with limitations.*
4. *Supported with limitations.*
5. *Synergy supports version 7.6 only.*
<table>
<thead>
<tr>
<th>Component</th>
<th>Functional advantage</th>
</tr>
</thead>
</table>
| HPE ESXi Offline Bundle for VMware ESXi and HPE Management Agents for VMware ESX | • Events  
• Hardware status  
• Additional status information displays in the Host Information portlet and Host Details page |
| HPE ESXi Offline Bundle for VMware ESXi                                   | Firmware inventory                                                                    |
| HPE Insight Control Server Provisioning                                   | Enables server provisioning using the vSphere Web Client                               |

**Installing the software**

- If you are currently using HPE OneView for VMware vCenter 7.8.3, using the Migration Tool, migrate the configuration data from existing Windows installation of HPE OneView for VMware vCenter. For more information see [Running Migration tool for HPE OneView for VMware vCenter](#).
- If you are currently using HPE OneView for VMware vCenter 8.x, import the configuration details exported from the existing installation. For information about exporting configuration details, see [Using Backup and Restore for HPE OneView for VMware vCenter](#).
- If you are a new user, deploy HPE OneView for VMware vCenter from VMware web client and specify new configuration details in the appliance. For more information, see [Deploying HPE OneView for VMware vCenter Server appliance](#).

⚠️ **IMPORTANT:**

HPE OneView for vCenter 8.3 is not compatible with the optional component HPE OneView versions 1.10 or later and 1.20 or later. Use HPE OneView version 3.0 and 3.1.

⚠️ **IMPORTANT:**

Log out of vSphere Web 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 plug-in.

**Running Migration tool for HPE OneView for VMware vCenter**

The HPE OneView for vCenter migration tool helps in migrating from the Windows version to the virtual appliance version of the product.

To upgrade from OV4VC 7.8.3 to the latest version, first, use migration tool to upgrade from 7.8.3 to 8.0.1 and then use backup and restore method to upgrade to latest version of OV4VC.
NOTE:
Starting with version 8.0, HPE OneView for VMware vCenter does not support the following:

- HPE EVA storage systems
- HPE XP/P9000 storage systems
- HPE MSA 2000 G2/ P2000 G3 storage systems
- HPE Recovery Manager Central (RMC) virtual appliances

In case the above storage systems or component is currently configured on the Windows environment, the migration tool throws a warning that the configuration details cannot be exported. You can either cancel the migration process and continue using the Windows version of the product, or uninstall HPE OneView for VMware vCenter to continue using the migration tool.

When migrating from v7.8.3 to latest version of HPE OneView for VMware vCenter, the migration tool does not migrate the following:

- RMC related data, as RMC is not integrated with HPE OneView for VMware vCenter v 8.0
- Registration details about RMV with VMware vCenter
- HPE OneView for VMware vCenter storage and server log files from any existing Windows installation
- Smart Update packages and firmware packages
- Installed images of StoreVirtual, StoreOnce VSAs, and RMC appliance
- VMware-related log files. These log files will be available on the vCenter server
- Storage-related data for EVA, XP/P9000, and MSA 2000 G2/P2000 G3

When migrating from v7.8.3 to latest version of HPE OneView for VMware vCenter, the following is migrated:

- Configuration of all supported Storage Systems and the storage pools
- News Feed and Tasks, which typically is saved in the Postgres database
- Information about vCenters that are configured in HPE OneView for VMware vCenter
- Configuration of Server module components

To migrate:

Procedure

1. From the console, run the HPE OneView for VMware vCenter Migration Tool on the Windows server or on virtual machine, where the windows version of HPE OneView for vCenter is installed. Introduction screen
2. Click **Next**. If the Windows version of HPE OneView for VMware vCenter is already installed, the tool analyzes the configuration details and warns you if any of the unsupported storage systems are detected during the analysis. For example, if the migration tool cannot connect to any of the configured MSA P2000 G3 storage systems, the details of that storage systems is not exported and they will have to be re-configured, after the appliance is setup. The following image shows an example of such an instance.

![Image of HPE OneView for VMware vCenter Migration Tool]

**The following platforms are no longer supported in OV4VC 8.x:**

- HP XP
- HP EVA
- HP MSA G2/G3 (MSA 04 is supported in OV4VC 8.0)
- HPE StoreOnce RMC 1.2.x (RMC customers should upgrade to 3.0 or later before installing OV4VC 8.x)

Customers that require OV4VC support for these platforms should continue using OV4VC 7.x.

**The following unsupported platforms were detected:**

- HPE StoreOnce RMC "10.10.30.61" at 10.10.30.61
- HP EVA "Monsoon_B"
- HP P9000 "53035" at 16.105.235.219

OV4VC version 8.x does not support RMC - RMC must be either upgraded or uninstalled (and unregistered from OV4VC) before OV4VC can be updated to OV4VC 8.x.

Quit to cancel the migration and continue using OV4VC 7.x
3. If the Windows version of HPE OneView for VMware vCenter is not installed or was not installed previously on the server, where the tool is running, it will prompt you to run on the server where the product is/was installed.

4. In the following panel, you can modify the default location where the exported configuration file will be created. The exported configuration data is encrypted. You must provide a valid password during data encryption and remember it. The password is later used while importing data into the appliance.

5. Click Next.

The Summary page appears.
6. Verify the summary details and click **Install**.
7. Allow the migration tool to complete the uninstallation of the HPE OneView for VMware vCenter. Use the backup file from the location specified in the **Export Settings** page to restore the configurations on the HPE OneView for VMware vCenter appliance. For more information about restoring configurations, see the **Restore procedure for HPE OneView for VMware vCenter**.

   **NOTE:**
   Restore configurations on the freshly installed HPE OneView for VMware vCenter appliance, prior to changing the configuration settings.

---

Using Backup and Restore for HPE OneView for VMware vCenter

Use the Backup and Restore feature of HPE OneView for VMware vCenter while upgrading OneView for VMware vCenter from v8.0 onwards to the latest version.

**Backup procedure for HPE OneView for VMware vCenter**

**Procedure**

1. From the Administrator Console, navigate to the **Backup and Restore** section on the **Settings page** and select the **Create backup** option.

   ![Create Backup](image)

   **Figure 2: Create Backup**

2. Enter the password and click **Create backup**.

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

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

4. 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. From the Administrator Console, navigate to the Backup and Restore section on the Settings page and select **Restore from backup** option.

   Restore from Backup page appears.
2. Click **Upload file** to upload the backup file. You can either select **Select a backup file** or select **Restore from local backup**.
   a. Select **Select a backup file** to restore from a previously downloaded backup file by browsing or dragging and dropping it into the dialog.
   b. Select **Restore from local backup** to restore from a local backup, if it exists.
3. Provide the password that was specified at the time of creating the backup file.
4. Click **Restore**.

**Setting up HPE OneView for vCenter**

Log in to the Administrator Console after installation to obtain the VMware vCenter credentials.

For more information and instructions, see the *HPE OneView for VMware vCenter User Guide* or online help.

**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 Web Client, using the Deploy OVF Template.

**Procedure**

1. Select the host and right click **Deploy OVF Template**...
The Deploy OVF Template page appears.
2. Select the source location by either selecting the URL or the Local file. For local file, click Browse and provide the OVF location. Click Next.

The Deploy OVF template page appears with the template details.

3. Review the details and click Next.

The End User License Agreement page appears.
4. Accept the agreement and click **Next**.

The page to select the destination name and folder appears.

5. Specify the name and location for the deployed template and click **Next**.

The page where you choose the location to store the file appears.
6. Select Thin Provision for the virtual disk format and choose destination from the accessible datastores. Click Next.

The page to setup networks appears.

7. Select the desired network for your virtual machine and click Next.

It is mandatory to configure only one network during deployment. However, 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 private network and vCenter on public network. Configure additional networks from the Administrator Console post deployment as needed.

The page to customize the deployment properties appears.

8. Customize the template with valid deployment properties and click Next.

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

The Ready to Complete page appears.
9. Verify the setting selection. Select the **Power on after deployment** check box, to turn the power on for the appliance, after it is deployed. Click **Finish**.

After HPE OneView for VMware vCenter appliance is deployed and running, the next step is to configure the appliance, to start using it. For instructions about configuration, see Configuring HPE OneView for VMware vCenter appliance section in the *HPE OneView for VMware vCenter User Guide*.

**Assigning the vCenter role**

HPE OneView for vCenter uses role-based security access. Windows or domain users/groups can be assigned any of the vCenter roles. HPE OneView for vCenter classifies these roles into three categories:

- **Administrator**—the vCenter administrator role maps to this category
- **Read-only**—the vCenter read-only and view-only roles map to this category
- **User**—all other vCenter roles map to this category

For more information about security access, see the *HPE OneView for VMware vCenter User Guide* or online help.

To access the HPE OneView for vCenter configuration pages and storage provisioning features, administrators must have the vCenter Administrator role assigned in the HPE OneView for vCenter.

**To assign the vCenter Administrator role:**

1. Start the vSphere Web Client.
2. Log in to the HPE OneView for vCenter.
3. Click the **Permissions** tab.
4. Right-click in the **Permissions** tab, and then select **Add Permission**.
   
   The Assign Permissions window opens.
5. Click **Add**.
   
   The Select Users and Groups window opens.
6. Select a domain from the domain list.
7. Select a user, and then click **Add**.
8. Click **OK** to return to the Assign Permissions window.
9. Select **Administrator** in the Assigned Role list.
   The Administrator role assigns all of the available privileges to the selected user, including the HPE Storage permission.

10. Click **OK** to save the changes and close the Assign Permissions window.

11. Exit the vSphere Web Client.

### Setting the iLO address

In order for iLO information to display on the HPE OneView for vCenter — Server module Overview page, iLO must be associated with the host. The association occurs automatically when you use global credentials and install either HPE Management Agents for VMware ESX or HPE ESXi Offline Bundle for VMware ESXi. If HPE Management Agents for VMware ESX or HPE ESXi Offline Bundle for VMware ESXi is not installed, you can manually set the iLO TCP/IP address of the target vSphere/ESXi host as follows:

#### Procedure

1. From the vSphere Web Client Configuration tab:
   a. Start the vSphere Web Client.
   b. Log in to HPE OneView for vCenter.
   c. In the Inventory tree, select a host.
   d. Click the **Configuration** tab.
   e. In the Software pane, click **Power Management**.
      The IPMI/iLO Settings for Power Management information appears.
   f. In the upper right corner of the Power Management Settings pane, click **Properties**.
      The Edit IPMI/iLO Settings dialog box appears.
   g. Specify the username, password, BMC IP address, and BMC MAC Address, and then click **OK**.
2. From the HPE Management page:
   a. Select a host.
   b. From the host overview, click the **Setting** icon, and then select **Host Properties**.
   c. Select an iLO host.
   d. Click the edit icon.
   e. Change the credentials, and then click **Submit**.

### Uninstalling the software

To uninstall:

#### 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 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.

### Removing files after uninstallation

When OneView for VMware vCenter is uninstalled, the plug-in files may not be automatically removed from the file system of vCenter.

Login to VMware vCenter and delete the plugin files from the following paths:

For **Linux**: 
• /etc/vmware-vpx/extensions/com.hp.ov4vc.ngc.all.v6.0
• /etc/vmware-vpx/locale/com.hp.ov4vc.ngc.all.v6.0_catalog.zip
• /etc/vmware/vsphere-client/vc-packages/vsphere-client-serenity/com.hp.ov4vc.ngc.all.v6.0-8.2.0.816
• /tmp/vmware-root/com.hp.ov4vc.ngc.all.v6.0-servicespec.prop

For Windows:
C:\ProgramData\VMware\vSphere Web Client\vc-packages\vsphere-client-serenity

ProgramData is a hidden folder.
Websites

General websites

Hewlett Packard Enterprise Information Library
www.hpe.com/info/EIL

Single Point of Connectivity Knowledge (SPOCK) Storage compatibility matrix
www.hpe.com/storage/spock

Storage white papers and analyst reports
www.hpe.com/storage/whitepapers

For additional websites, see Support and other resources.
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/hpesc

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/hpesc
  
  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 for your product or to view the Safety and Compliance Information for Server, Storage,
Power, Networking, and Rack Products reference document, go to the Enterprise Safety and Compliance
website:

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

Additional warranty information

HPE ProLiant and x86 Servers and Options
www.hpe.com/support/ProLiantServers-Warranties

HPE Enterprise 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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The following tables identify the HPE OneView for 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 Web Client, HPE OneView for VMware vCenter</td>
</tr>
<tr>
<td>80</td>
<td>Web Service</td>
<td>vSphere Web Client</td>
</tr>
<tr>
<td>443</td>
<td>Web Service (VMware APIs)</td>
<td>vSphere Web 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>3500-3511 (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>
</tr>
</tbody>
</table>
## 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>
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Glossary

CIM
Common Information Model.

API
Application Programming Interface.

datastore
A storage location for VM files in the VMware environment.

DPM
Distributed power management.

ESX
An enterprise-level virtualization product offered by VMware.

ESXi
The latest version of ESX.

EVA
Enterprise Virtual Array.

FCP
Fibre Channel Protocol.

iLO
Integrated Lights-Out.

J2EE

LUN
Logical unit number. A LUN results from mapping a logical unit number, port ID, and LDEV ID to a RAID group. The size of the LUN is determined by the emulation mode of the LDEV and the number of LDEVs associated with the LUN.

MSA
Modular Smart Array.

NRAID
A RAID level that uses nonstriped mapping to a single disk.

OA
Onboard Administrator.

RAID
Redundant array of independent disks.

RDM
Raw device mapping.
RDP
HP Rapid Deployment Pack.

SAID
Service Agreement Identifier.

SMI-S
Storage Management Initiative Specification.

SNMP

SUM
Software Update Manager.

VASA
VMware Aware Storage APIs.

VM
Virtual Machine.

VMware vCenter Server
The central management server of the VMware environment, which combines a number of standalone hypervisors or one or more VMware clusters into a single point of management.

VMware vSphere Client
The VMware GUI used to view and manage the virtual environment.

WBEM
Web-Based Enterprise Management.