Abstract
This document describes changes in HPE OneView for VMware vCenter to help administrators understand the benefits of obtaining the 8.3 software update. This document is intended for administrators who configure, manage, and troubleshoot HPE OneView for VMware vCenter.
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Introduction

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 from 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 HPE OneView for VMware vCenter Installation Guide.

- **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

  For installation instructions, see the HPE OneView for VMware vCenter Installation Guide.

Update recommendation

Recommended

Supersedes

HPE OneView for VMware vCenter v8.2.1.

Devices supported

For device support information, see the following:
Operating Systems

Supported VMware operating systems
- ESXi 5.5 (initial release, U1, U2 and U3)
- ESXi 6.0 (initial release, U1, U1a, U1b, U2 and U3)
- ESXi 6.5 (initial release, U1)

Hewlett Packard Enterprise recommends that you install the latest service packs and patches.

Supported vCenter Server versions

Table 1: vCenter Server support for HPE OneView for vCenter 8.3

<table>
<thead>
<tr>
<th>vCenter Server version</th>
<th>vSphere Web Client</th>
</tr>
</thead>
<tbody>
<tr>
<td>5.5</td>
<td>Yes</td>
</tr>
<tr>
<td>6.0</td>
<td>Yes</td>
</tr>
<tr>
<td>6.0 U1</td>
<td>Yes</td>
</tr>
<tr>
<td>6.0 U1a</td>
<td>Yes</td>
</tr>
<tr>
<td>6.0 U2</td>
<td>Yes</td>
</tr>
<tr>
<td>6.0 U3</td>
<td>Yes</td>
</tr>
<tr>
<td>6.5</td>
<td>Yes</td>
</tr>
<tr>
<td>6.5 U1</td>
<td>Yes</td>
</tr>
</tbody>
</table>

Changes

HPE OneView for VMware vCenter version 8.3 includes the following changes:

General
- Support for HPE ProLiant and Synergy Gen10
- Support for HPE OneView 3.10
- HPE Synergy Image streamer edit cluster enhancements

HPE OneView for VMware vCenter Server Module

New hardware support
- Supports HPE Synergy D3940 Storage Module
- Supports HPE Synergy 12Gb SAS Connection Module

HPE OneView for VMware vCenter Storage Module
New hardware support
- Support StoreVirtual OS 12.7 and 13.5.
- Supports 3PAR StoreServ 9450.
- Supports 3PAR StoreServ 20800 R2/20840 R2/20850 R2.
- Supports MSA 2050 SAN (FC, iSCSI)

New firmware support
- Supports HPE 3PAR StoreServ OS 3.3.1 MU1 (FC, iSCSI)
- Supports HPE StoreVirtual OS 13.5 (FC, iSCSI)

Navigation change in VMware vSphere v6.5 Web Client
Navigation change in VMware vSphere 6.5 Web Client brings about tab reorganization. The Manage tab is renamed to Configure. As a result of the change, HPE Management tabs are now available under the Configure tab.

HPE OneView 3.0 and 3.1 support

**IMPORTANT:**
HPE OneView for vCenter 8.3 is compatible with HPE OneView 3.0 and 3.1 versions of c7000 and Synergy enclosure.

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 2: 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>
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<tbody>
<tr>
<td>7.4</td>
<td>1.10–1.10.03</td>
<td>7.3 Update 1</td>
<td>7.1</td>
<td>spp.baseiso_201 4.06.0</td>
<td>vSphere version: 5.0u3/5.1u2/5.5u2 ESXi images: 5.0u3/5.1u2/5.5u2</td>
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<tr>
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*Table Continued*
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</table>

**NOTE:** Does not support 7.4 Update 1.
<table>
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<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>
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<tr>
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</tr>
</tbody>
</table>

Table Continued
### Installation instructions

For installation instructions, see the HPE OneView for VMware vCenter Installation Guide. This version supports upgrades from HPE OneView for VMware vCenter 8.0.1, 8.1, 8.2 and 8.2.1.

Before performing backup and restore to upgrade to 8.3, migrate from 7.8.3 to 8.0.1 using a migration tool.

**NOTE:**
HPE ProLiant Gen10 and Synergy Gen10 support ESXi 6.0 or newer.

**NOTE:**
vCenter 6.5 is needed when supporting ESXi 6.5. vCenter 6.0 and earlier does not support ESXi 6.5 OS.

### HPE Insight Control server provisioning

To use the Insight Control server provisioning in HPE OneView for vCenter (vSphere Web Client), you must install Insight Control server provisioning software, available for download from [HPE Insight Control](#) website.

### Administrator Console web browser language preference

The HPE OneView for VMware vCenter Administrator Console supports English language for displaying the web pages. In case of multiple languages, set to use English as the first preference.

### Known Issues

- Grow Cluster for Gen10 server hardware is supported only using Image Streamer. Due to ICSP limitation Gen10 server hardware is not supported for Grow Cluster using ICSP.
- Edit Cluster OS Deployment plan operation follows fail fast approach. The entire operation will be aborted immediately if one host failed.
- Network Detail page on the VMware vSphere Web Client fails to report network information for the Synergy hosts having SAN connections.

<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>
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<td>7.6</td>
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<td>vSphere version: 5.5u3d/6.0u2/6.5 ESXi images: 5.5u3b/6.0u2/6.5</td>
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<td>8.3</td>
<td>3.00.08, 3.1</td>
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<td>8.0.0</td>
<td>SNAP1 SPP2017.07</td>
<td>vSphere version: 5.5, 6.0u3, 6.5u1 ESXi images: 5.5u1, 5.5u2, 5.5u3, 6.0u3, 6.5u1</td>
</tr>
</tbody>
</table>
• Network Diagram page fails to display the Telemetry Graph for the Synergy blade hosts having Ethernet and FC uplink port connections.

• The available capacity value of a storage pool is an estimated value and may not match the actual available capacity.

• Attempts to perform firmware updates through SUT with the Apply Recommended Actions, does not include the SUT status in the task bar. The task bar only reports the status of the associated OneView related tasks.

• During cluster expansion with Server Profile Template (SPT) selection, the hostname shows localhost instead of the actual host for the hostname prefix of the target server enclosure.

• OneView managed C-Class enclosures do not generate an event when power redundancy is restored. Power Supply related alerts configured to trigger in vCenter must be manually cleared in vCenter after the power issue is resolved.

• The Elapsed and Estimated time to complete the refresh action is inaccurate at certain times, even though the refresh continues to progress in the background.

• A refresh option is unavailable for vCenters. However, a refresh can be triggered either from the Storage Systems action or an implicit refresh is triggered by editing a vCenter or when adding a new vCenter.

• When deploying the StoreVirtual VSA through HPE OneView for VMware vCenter, the resulting management group is added to the Administrator Console. Consequently, the HPE OneView for VMware vCenter provisioning operations gets the access to storage on the StoreVirtual VSA. Ensure that the StoreVirtual VSA is listed in the HPE OneView for VMware vCenter provisioning operations and is added in the Administrator Console during the deployment process. If it does not, then manually add it using the Administrator Console.

• After a successful StoreVirtual VSA deployment, the storage pools of the newly deployed StoreVirtual system are configured as Read Only. Change the permissions to Read/Write by editing the storage system in the Administrator Console, before attempting to create datastores and virtual machines.

• When deploying a StoreOnce VSA through HPE OneView for VMware vCenter, the auto download and deploy option might fail at the checksum validation stage. If it fails, then manually download the version of StoreOnce VSA and select the option to upload the downloaded image and deploy.

• The Host details page on the vSphere Web Client displays null values for Server Power if Advanced license is not installed on the host's iLO. With a standard license, you can still launch remote access using Single Sign-On login, but the access will disconnect shortly after. In order to utilize the remote desktop feature, it is necessary to obtain an Advanced license.

• HPE OneView for VMware vCenter requires each 3PAR StoreServ storage system to use a single certificate for all services. Therefore, the new 3PAR StoreServ firmware 3.2.1 onwards, the feature enabling different certificates on different services is not supported.

### Important Notes and Suggested Actions

- If OS deployment plan consistency issue is reported, trigger **Apply Recommended Actions** at host level to update the OS deployment plan for the selected host.

- If Server Profile is not set to manage storage volumes at the time of cluster creation, then **Apply Recommended Actions** task for adding shared volume attachment using SPT fails.

  - **Suggested Action:** Manually enable Server Profile to manage Shared Volumes before attaching the Volume to the SPT by using "Apply Recommended Actions".

- Enhanced Grow Cluster using SPT selection for Boot from SAN fails when UEFI optimized boot mode is used instead of the legacy BIOS. The issue is observed when the environment is using:

  - ProLiant Gen9 servers
  - SPT as cluster settings for Grow Cluster
  - Boot from SAN
  - Managed Volume
Virtual MAC
FCOE network with HP59XX series switch

In this environment, UEFI optimised boot mode fails because VFC is not created for virtual MAC.

**Suggested Action:** To resolve this issue, use Legacy BIOS instead of UEFI as the boot mode option.

---

**NOTE:**
Enhanced grow cluster using SPT selection supports only the "Managed volume" option for Boot from SAN cases.

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- When the "update cluster setting to ServerProfileTemplate" operation fails to add hosts to the cluster, then you cannot re-trigger the operation on the failed hosts. Additionally, consistency data also becomes unavailable after the failure.

**Suggested Action:** To resolve this issue, delete the hosts from the cluster and add it using Grow Cluster.

- HPE OneView for VMware vCenter version 8.3 does not support MSA 2040/1040 SAS storage systems using vSphere version 6.5.

**Suggested Action:** Alternatively users can use VMware provided options to create, expand, or delete any datastores on MSA 1040/2040 SAS storage systems.

- Expansion of datastores created on ESXi 6.5 with a powered-on VM may fail through HPE OneView for VMware vCenter. The issue happens because in spite of the volume expansion on the storage system, VMware is unable to obtain the expanded LUN size after HPE OneView for VMware vCenter triggers a rescan of Storage Host Adapter.

**Suggested Action:** To resolve this issue:
1. Trigger a manual rescan of the Host Bus Adapter through VMware Storage Adapter options. After VMware is able to detect the increased LUN size, use the **Increase Datastore Capacity** option for the datastore in vCenter to expand the datastore capacity.
2. Trigger a manual cache refresh for HPE OneView for VMware vCenter to obtain the updated information.

- MSA 2040 and 1040 SAS models do not support HPE OneView for VMware vCenter provisioning when using in vCenter 6.0 Update 1 and Update 2. This is due to the host port name change in the VMware 6.0 release. This only applies to the SAS models and to HPE OneView for VMware vCenter provisioning.

**Suggested Action:** Update the vCenter and ESXi version to 6.0 Update 3 to use provisioning operation on MSA 2040 and 1040 SAS hardware.

- HPE Delete Datastore operation on a managed Datastore may fail with the error message "The Array for Datastore is not managed."

**Suggested Action:** Refresh the HPE OneView for VMware vCenter cache and retry the operation.

- Configure all the vCenters in linked mode using the Administrator Console for the configured storage systems to appear on the HPE Infrastructure page on the vSphere web client.

- The HPE OneView for VMware vCenter’s Alarm Definition page displays duplicate entries with HP and HPE respectively after upgrading HPE OneView for VMware vCenter to version 8.0.1.

**Suggested Action:** To resolve this issue, either ignore or delete the duplicate entry from the Alarm Definition page of VMware vCenter.

- Grow cluster deployment using Intelligent Provisioning version 2.20 or 2.30 and Insight Control server provisioning on HPE ProLiant BL660c Gen9 server with multiple LOMs may fail in both UEFI and in the Legacy mode.

**Suggested Action:** Perform any one of the following three actions to resolve this issue:

- Disable the LOM2 in BIOS before deploying.
- Use LOM2 Port 1 as your deployment NIC. Do not assign network to LOM1 port.
- Add the server and deploy the operating system only through PXE and not through Intelligent Provisioning.
- Boot order is not manageable in UEFI or UEFI optimized mode with Gen9 BL460c server ROM

**Suggested Action:** Update the server ROM to a version that supports UEFI boot order management. See the HPE OneView Support Matrix for supported versions.

- Grow cluster action with a reference profile having both local storage and a private SAN does not complete successfully.

**Suggested Action:** If the server has local disks and Boot from SAN is required, then disable the local disk through the BIOS settings on the blade server.

- Creating a user account and assigning it administrator privileges can cause Idle sessions to accumulate on vCenter servers.

**Suggested Action:** Use the administrator account that was created by VMware during the install instead of creating a user account and assigning it administrator privileges.

- Special characters

  - VMware does not support multi-byte or special characters to be used for credentials. The credentials specified for the Administrator Console User during the installation of HPE OneView for vCenter should not contain such characters.
  - When using the Active Management operations, the names for VMs or Datastores specified in the wizards should not contain multi-byte or special characters.

- The Physical NIC labels of some blade servers may be incorrect if the plug-in has not discovered the enclosure’s Onboard Administrator. This can happen for the first few minutes after the plug-in is installed or when new hardware is added.

- When using the HPE SIM launch link with Internet Explorer 9, the browser must be set to Compatibility View.

- After successfully deploying a server, the Recent Tasks window will indicate that the deployment was successful. A task to add the target server to vCenter is initiated by HPE OneView for vCenter, but this event is not displayed in the Recent Tasks window until the vSphere Web Client is refreshed.

- When working with datastores using an StoreVirtual Storage System, the time required for HPE OneView for VMware vCenter Storage Module to create and delete both iSCSI and Fibre Channel datastores is proportional to the number of paths utilized by the StoreVirtual Storage System. To view the paths in VMware’s Storage Adapters GUI page, select the following:

  - vSphere Web Client: **Host > Manage > Storage > Storage Adapters**

- Erasing a job on a server can reset the date and time on that server to a default value.

**Suggested Action:** Set the date and time as described in the RDP knowledge base article at [http://www.hpe.com/support/Multipath-SANDeployment](http://www.hpe.com/support/Multipath-SANDeployment).

- An attempt to use the Management Deployment Wizard to add hosts to vCenter results in a License not available to perform the operation error.

**Suggested Action:** Manually add hosts.

- If you enter VMware host credentials using an IP address that is different from the host IP address, those credentials do not change. The Host Property option on the settings icon list is intended for the selected host only. Do not attempt to change credentials for a different host.

- Moving the cursor over the Consolidated health or Setting icon does not display a window.

  **Suggested Action 1:** Refresh the page.

  **Suggested Action 2:** Ensure that the page is fully loaded before attempting to view the status window.

- Server Status Information and Power Status information is missing from the Host portlet. In order to display all information in the portlets, you must install HPE CIM providers (HPE ESXi Offline Bundle for VMware and ESXi, and HPE Management Agents for VMware ESX).

- The network diagram display is incomplete.

  - When a VM is not accessible by the Hypervisor (such as if the VM is on a datastore which has been detached from the host), the HPE OneView for vCenter network diagram is incomplete.
Suggested Action: Reattach the datastore to the host to get a complete network diagram.
- On a configuration with large number of VMs and datastores, it can take a long time for HPE OneView for vCenter to draw the network diagram. You might see a dialog box prompt indicating that it is taking too long to run the script on the page and be prompted to continue to run the script or stop running it.

Suggested Action: Click Yes to stop the script from running, which prevents the diagram from completing, or click No to wait for the complete diagram to appear.
- The vSphere Web Client does not display information in the host details page unless an iLO Advanced license is installed on the host’s iLO.

Suggested Action: Install an iLO Advanced license for each host that is managed by HPE OneView for vCenter.
- Different parts of the user interface update failure status at different intervals. For example, when a fan fails, the failure is displayed:
  - In the News feed within 2 minutes
  - In the consolidated status and the status detail in up to 11 minutes
  - In the host or cluster detail information area in up to 21 minutes

Suggested Action: Do not be concerned if a recent event does not appear in all areas of the GUI immediately.
- Running the Management Deployment Wizard on a USB flash drive fails.

Suggested Action: Install ESX/ESXi on the USB flash drive manually. HPE OneView for vCenter does not support deployment on a USB flash drive.
- When deploying ESX with the Management Deployment Wizard Use DHCP option selected, the target ESX is not configured with the reserved IP address.

Suggested Action: Log into the ESX host and do one of the following:
  - Configure the host network settings manually.
  - Obtain the generated MAC address from the host vSwitch, and use it to update the DHCP configuration.

Suggested Action: Verify that the ESXi offline bundle is installed for all ESXi hosts.
- Multiple credentials for iLO or the Onboard Administrator in the HPE OneView for vCenter password database can cause HPE OneView for vCenter to function unpredictably. Entering credentials with a new user name and then clicking Save in the Host Properties page or the Cluster Properties page adds a new set of credentials for that host.

Suggested action: If a configuration has multiple credentials per host, remove the duplicates:
1. From the home page, select HPE Management Administration icon.
2. Select Server Password Management from the drop-down menu.
3. Delete all duplicate entries from the database.
- HPE OneView for vCenter cannot communicate with a node if proxy authentication is required to reach the node.

Suggested Action: Disable the proxy setting to enable HPE OneView for vCenter to communicate with the node.
- The ASR status for servers running the CIM Providers is displayed with a white status icon. The current CIM providers do not monitor ASR.
- Software iSCSI storage is not displayed in the Network Diagram. The Network Diagram displays hardware configured in Virtual Connect only. iSCSI storage devices that use software HBAs are not displayed.
- If the vSphere Client is left idle on the Management tab, clicking another link might display the error message This program cannot display the webpage. This issue is seen intermittently.
Suggested Action: Click the link again to display the page.

- For volumes mapped to specific iSCSI ports on MSA 1040/2040/2050 SAN, the Paths tab (Manage > HPE Management > Storage > Paths) shows all the ports that are configured on the array rather than the specific iSCSI ports.

Suggested Action: Verify the actual port details using one of the following methods:

- Use an SSH connection to the MSA 1040/2040/2050 SAN array and execute the command show maps.
- Use the MSA 1040/2040/2050 web-based Storage Management Utility by selecting Volume > Maps.

- Creation of Datastore fails on Linear Storage Pool of HPE MSA 2050 array.

Starting with HPE MSA 2050, firmware does not support Linear (thickly provisioned) storage pools. Any linear storage pools present, will become read-only as part of the migration to HPE MSA 2050 array. Due to this OV4VC users will not be able to run provision operations on any linear storage pools on HPE MSA 2050 array. Please refer to HPE MSA 2050 User Guide on ways to recover data and clean up linear storage pools & the associated entities

Suggested Action: For methods to recover data and clean up linear storage pools and the associated entities, see the HPE MSA 2050 User Guide.

- Creation or Expansion of Datastore fails on HPE MSA 2050 array.

**Cause:** If the pool health is degraded due to pool space consumption crossing high threshold, datastore creation and expansion operations are blocked on the pool.

Suggested Action: Login to HPE MSA 2050 SMU/CLI to check pool health and event log for high threshold alarm and take corrective actions to make the pool healthy before creating or expanding datastores residing on that pool.

For more information, see the HPE MSA 2050 User Guide.

- If multiple vCenter servers are added to OV4VC appliance and if any of the vCenter is inaccessible or in a shutdown state, data may be missing in Vcenter web client > HPE Management > Consistency tab and few other pages.

Suggested Action: Remove vCenter from the OV4VC appliance which is not accessible or in a shutdown state and restart the OV4VC appliance.

**AD/LDAP support for OV4VC grow cluster and Host Networking detail feature**

If OneView is registered with OV4VC using AD/LDAP credential user cannot perform the following operations in OV4VC:

- Grow cluster
- Cannot get host or cluster consistency detail
- Apply Recommended action is not supported

Suggested Action: Register the OneView using Local Domain Administrator account and the default domain in OneView must be set to local.
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