Abstract
This document describes changes in HPE OneView for VMware vCenter to help administrators understand the benefits of obtaining the 9.1 software update. This document is intended for administrators who configure, manage, and troubleshoot HPE OneView for VMware vCenter.
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HPE OneView for VMware vCenter Release Notes

Version

9.1

Description

HPE OneView for VMware vCenter is a single integrated application that you can use to manage HPE ProLiant servers and storage systems. The application consists of two modules.

• **HPE OneView for VMware vCenter for server**
  - 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 for server and the HPE OneView for VMware vCenter for storage are no longer a separate installation. However, the HPE OneView for VMware vCenter for server services do not activate unless credentials are provided.

• **HPE OneView for VMware vCenter for storage**
  Provides storage configuration and status information for mapping VMs, datastores, and hosts to LUNs on Hewlett Packard Enterprise storage systems.

  - The HPE OneView for VMware vCenter for storage enables you to register HPE Storage Systems and to switch peer persistence. 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.

For information on how to install and use HPE OneView for VMware vCenter for server and HPE OneView for VMware vCenter for storage, see the following documents:

• **HPE OneView for VMware vCenter Installation Guide**
• **HPE OneView for VMware vCenter Help System**
• **HPE OneView for VMware vCenter User Guide**

Update recommendation

Recommended

Supersedes

9.0
Supported products and Operating systems

For device support information, see the following:


- For server support information, see the *HPE Insight Management Support Matrix* at [Hewlett Packard Enterprise Information Library](https://www.hpe.com/en-us informação/lot).

- For HPE OneView for VMware vCenter Storage Module and array management software support, see *Single Point of Connectivity Knowledge (SPOCK)*.

The following table lists the HPE OneView for VMware vCenter compatibility with HPE OneView and with related products.

**Table 1: 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>
<tbody>
<tr>
<td>8.3</td>
<td>3.0, 3.1</td>
<td>7.6</td>
<td>8.0.0</td>
<td>vCenter version: 5.5, 6.0, 6.5 ESXi images: 5.5, 6.0, 6.5</td>
</tr>
<tr>
<td>9.0</td>
<td>3.1, 4.0</td>
<td>7.6</td>
<td>Not Applicable</td>
<td>vCenter version: 6.0, 6.5 ESXi images: 6.0, 6.5</td>
</tr>
<tr>
<td>9.1</td>
<td>4.0, 4.1</td>
<td>7.6</td>
<td>Not Applicable</td>
<td>vCenter version: 6.5, 6.7 ESXi images: 6.0, 6.5, 6.7</td>
</tr>
</tbody>
</table>

**Fixes**

N/A

**Enhancements**

HPE OneView for VMware vCenter 9.1 includes the following changes:

**General**

- Support for HPE OneView 4.1.
- vCenter tasks page lists all HPE storage provisioning operations handled through HPE OneView for VMware vCenter.
- Scheduling DS protection and VM protection using Recovery Manager Central (RMC) during datastore/VM creation.
- Datastore created on ESXi host 6.5 and 6.7 will be created as VMFS6.
HPE OneView for VMware vCenter for server

• General
  ◦ Introduced Monitor tab for enclosure which provides detailed enclosure data.
  ◦ Support for Import Cluster and Shrink Cluster.

HPE OneView for VMware vCenter for storage

• New firmware support
  ◦ Supports HPE 3PAR StoreServ OS 3.3.1 MU2 and 3.2.2 MU6 (FC, iSCSI).
  ◦ Supports HPE StoreVirtual OS 13.6 (FC, iSCSI).

Installation instructions

For installation instructions, see the HPE OneView for VMware vCenter Installation Guide. Version 9.1 supports upgrades from HPE OneView for VMware vCenter 8.3 and 9.0.

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

NOTE: See the VMware Product Interoperability Matrixes to know the interoperability between ESXi and vCenter versions.

HPE Insight Control server provisioning

To use Grow Cluster feature in a non-HPE Synergy Image Streamer environment, you must install HPE Insight Control server provisioning software, available for download from HPE Insight Control website. Post installation, configure the plugin with the IP address and credentials of the HPE ICsp server.

Languages

The HPE OneView for VMware vCenter Administrator Console supports English language for displaying the webpage. If there are multiple languages, set to use English as the first preference.

Issues and workarounds

• 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 the HPE OneView for VMware vCenter, but this event is not displayed in the Recent Tasks window until the vSphere Client is refreshed.

• An attempt to use the Management Deployment wizard to add hosts to vCenter results in a License not available to perform the operation error.
  Workaround: Manually add hosts.

• As per design, if any failure occurs while presenting the volume, the Create datastore task will not delete the created volume. It becomes an unmanageable volume in the storage system. The volume size of the storage system is considerable when you try to create a datastore on linear storage pool.
**Workaround:** If a failure occurs when you create the datastore, you have to do a manual cleanup for the unmanageable volume in the storage system.

- 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 HPE OneView related tasks.
- Boot order is not manageable in UEFI or UEFI optimized mode with Gen9 BL460c server ROM.
  **Workaround:** Update the server ROM to a version that supports UEFI boot order management. See the HPE OneView Support Matrix for supported versions.
- Creation of datastore is not supported on linear storage pool of HPE MSA 1050/2050 array. Starting with HPE MSA 1050/2050, 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 1050/2050/2052 array. Due to this, you might not be able to run provision operations on any linear storage pools on HPE MSA 1050/2050 array.
  **Workaround:** For methods to recover data and clean up linear storage pools and the associated entities, see the **HPE MSA 1050/2050/2052 User Guide**.
- Creation or expansion of datastores is not supported on HPE MSA 1050/2050 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.
  **Workaround:** Log in to HPE MSA 1050/2050/2052 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 1050/2050/2052 User Guide**.
- Creating a user account and assigning it administrator privileges can cause idle sessions to accumulate on vCenter servers.
  **Workaround:** Use the administrator account that was created by VMware during the install instead of creating a user account and assigning it administrator privileges.
- Erasing a job on a server can reset the date and time on that server to a default value.
  **Workaround:** Set the date and time as described in the Remote Desktop Protocol (RDP) knowledge base article at **Multipath SAN Deployment Support**.
- Edit Cluster OS Deployment plan operation follows fail-fast approach. If one host fails, the entire operation will be aborted immediately.
- For Gen10 server hardware, Grow Cluster is supported only while using HPE Synergy Image Streamer. Gen10 server hardware with HPE Insight Control server provisioning does not support Grow Cluster due to the limitations of HPE Insight Control server provisioning.
- Grow cluster deployment might not supported in both UEFI and legacy mode when using Intelligent Provisioning version 2.20 or 2.30 and HPE Insight Control server provisioning on HPE ProLiant BL660c Gen9 server with multiple LAN on motherboards (LOM)
  **Workaround:** 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.

● Grow Cluster using 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 Optimized Boot mode fails because VFC is not created for virtual MAC.

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

NOTE: Grow cluster supports only the "Managed volume" option for Boot from SAN cases.

● HPE OneView for VMware vCenter requires each 3PAR StoreServ storage system to use a single certificate for all services. Therefore, for 3PAR StoreServ firmware 3.2.1 and later, enabling different certificates on different services is not supported.

● HPE Storage provisioning operations in vCenter Enhanced Linked Mode is not supported.

● HPE MSA SAS models do not support the HPE OneView for VMware vCenter provisioning when using in ESXi 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.

Workaround: Update the ESXi version to 6.0 Update 3 or later to use provisioning operation on HPE MSA SAS hardware.

● If you are using the VMware vSphere Client 6.5u1 for the first time, when you right-click the cluster in the HPE Server Management Actions you cannot see any options. To resolve this issue, restart the vSphere Client.

● If any of the HPE OneView for VMware vCenter server Monitor pages are left idle for more than 30 minutes, the session times out and displays the following error message:

  Internal server error has occurred. Please try after some time.

Workaround: If you encounter this issue, navigate to the VMware vCenter Home screen and navigate back to the page that you were working with.

● If there are any connection issues between HPE OneView, Deployment Manger, or vCenter, the Grow Cluster wizard displays connectivity failure error messages or fails to list Server Profile Templates.
**Workaround:** You can check the connectivity status under vCenter **Administration > Server Integrations.** If the physical connectivity is restored, reregister Deployment Manager or vCenter using the HPE OneView Configuration option.

- Intermittently, after you update the appliance with star file, HPE Insight Control server provisioning credentials do not appear onscreen.
  **Workaround:** Users must re-enter the HPE Insight Control server provisioning credentials to resolve the issue.

- If the **Hostname to Register** option is set to true in Grow Cluster, assigning an IP from an IP pool will fail.
  **Workaround:** Disable **Hostname to Register** in Grow Cluster or use a static IP configuration with a predefined FQDN name.

- In the HPE Create datastore wizard, if number of datastores is more than one, in the 'starts with' numeric field of datastore name, only integers are allowed.

- If the OS deployment plan consistency issue is reported, trigger **Apply Recommended Actions** at the 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, **Apply Recommended Actions** task for adding shared volume attachment using SPT fails.
  **Workaround:** Use **Apply Recommended Actions** to manually enable Server Profile to manage Shared Volumes before attaching the Volume to the SPT.

- Provisioning operations in HPE OneView for VMware vCenter do not work properly when an HPE MSA 1050/2050/2052 SAS storage system is connected through an HPE Smart Array E208e-p SR Gen10 Controller.
  **Workaround:** You may use VMware provided options to create, expand, or delete any datastore on HPE MSA 1050/2050/2052 SAS storage systems.

- Provisioning operations in HPE OneView for VMware vCenter do not work properly with vSphere version 6.5 and 6.7 when an HPE MSA 1050/2050/2052 SAS storage system is connected through an HPE H241 Smart Host Bus Adapter.
  **Workaround:** Users may use VMware provided options to create, expand, or delete any datastore on HPE MSA 1050/2050/2052 SAS storage systems.

- Sometimes in the Administrator UI, Network, and Management information page the loading icon continues to display without getting the requested information. This does not impact the regular functionality of the HPE OneView for VMware vCenter in the vCenter.
  **Workaround:** Reboot the appliance and browse to administrator UI. As prompted, set up the administrator password again to existing or any new password.

- Special characters
  - VMware does not support multibyte or special characters to be used for credentials. The credentials specified for the Administrator Console User during the installation of HPE OneView for VMware vCenter must not contain such characters.
  - When using the Active Management operations, the names for VMs or datastores specified in the wizards must not contain multibyte or special characters.
• The Physical NIC labels of some blade servers might be incorrect if the plug-in has not discovered the HPE Onboard Administrator of the enclosure. This can happen for the first few minutes after the plug-in is installed or when new hardware is added.

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

   vSphere Client: Host > Manage > Storage > Storage Adapters

• 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 VMware vCenter network diagram is incomplete.

   Workaround: 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 the HPE OneView for VMware 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 prompts to continue to run the script or stop running it.

   Workaround: 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.

• If proxy authentication is required to reach the node, HPE OneView for VMware vCenter cannot communicate with a node.

   Workaround: Disable the proxy setting to enable the HPE OneView for VMware vCenter to communicate with the node.

• 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.

   Workaround: Click the link again to display the page.

• The HPE Enclosures page cannot be loaded when you use VMware vSphere Client 6.5u1 for the first time. To resolve this issue, restart the vSphere Client.

• The ASR status for servers running the CIM Providers is displayed with a white status icon. The current CIM providers do not monitor ASR.
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:
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

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