Abstract
This document describes changes in HPE OneView for VMware vCenter to help administrators understand the benefits of obtaining the 9.2.1 software update. This document is intended for administrators who configure, manage, and troubleshoot HPE OneView for VMware vCenter.
Notices

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Acknowledgments

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HPE OneView for VMware vCenter Release Notes

Version

9.2.1

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. HPE 3PAR StoreServ also supports scheduling snapshots.
  - 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

9.2
Supported products and Operating systems

For device support information, see the following:

- *HPE OneView for VMware vCenter Installation Guide* at [Hewlett Packard Enterprise Information Library](https://www.hpe.com/info).

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

- For HPE OneView for VMware vCenter Storage Module and array management software support, see [Single Point of Connectivity Knowledge (SPOCK)](https://www.hpe.com/info).

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>
</table>
| 9.0                                   | 3.1, 4.0                    | 7.6                                                                            | Not Applicable                           | vCenter version: 6.0, 6.5  
ESXi images: 6.0, 6.5 |
| 9.1                                   | 4.0, 4.1                    | 7.6                                                                            | Not Applicable                           | vCenter version: 6.5, 6.7  
ESXi images: 6.0, 6.5, 6.7 |
| 9.2.1                                 | 4.0, 4.1                    | Not supported                                                                  | Not Applicable                           | vCenter version: 6.5, 6.7  
ESXi images: 6.0, 6.5, 6.7 |

**Fixes**

The following issues are fixed in HPE OneView for VMware vCenter 9.2.1:

1. Create VVOL Datastore option can be carried out from the following options:
   a. Select Actions menu of HPE OneView for VMware vCenter.
   b. Right-click the Host or Cluster, select All HPE Storage Actions, and then click Create VVOL Datastore.

2. Using Create VVOL Datastore option on the cluster creates VVOL datastore on all the hosts in the cluster.

3. Using Delete Datastore option on the host or cluster deletes the last datastore created on the HPE MSA 1050/2050/2052 storage system.

**Enhancements**

HPE OneView for VMware vCenter 9.2.1 includes the following changes:
HPE OneView for VMware vCenter for server

- Introduced HPE OneView for VMware vCenter Deployment Server to perform grow cluster.
- Introduced reporting of the cluster and host-level consistency for non HPE OneView-managed clusters.
- Introduced Remote Support page under Monitor tab for hosts and enclosures.

**NOTE:** Remote support information or events are displayed only for the HPE OneView-managed hosts and enclosures. If a specific host or enclosure is not managed by the HPE OneView, following error message is displayed:

Remote Support is not enabled for this device.

- Introduced Proactive HA option under Monitors tab to display the cluster-level configuration of HPE Proactive HA provider.
- Introduced Health dashboard at cluster level under Summary.
- Support for Insight Control provisioning server is no longer available starting with the HPE OneView for VMware vCenter plugin 9.2 release.
- Introduced option to view and edit the current firmware baseline settings of a cluster from HPE OneView for VMware vCenter plugin.

**NOTE:** This option is applicable only for HPE OneView-managed clusters.

HPE OneView for VMware vCenter for storage

- Introduced Scheduled Snapshots option under All HPE Storage Actions. You can schedule an underlying storage volume snapshot for a VMFS datastore from the context of Host, Clusters, or Datastore. Scheduled jobs will be displayed under HPE Storage Schedules menu in the list of the administration pages.
- Introduced creation of VVOL (Virtual Volumes) datastores. VVOL datastores are only supported for HPE 3PAR storage systems.
- Introduced HPE Storage performance menu under Monitor tab of Datastore > HPE Storage which displays the aggregate or individual view of all the underlying storage volumes. Performance data is only shown for VMFS Datastore.
- Split HPE Storage Replications view into two views:
  - HPE Storage Local Replications
  - HPE Storage Remote Replications
- Introduced HPE Storage Systems page in HPE OneView for VMware vCenter section under Administration page.
- Added VASA section under HPE Storage Systems Page. This section displays the status of the VASA service provider as well as the vCenter storage VASA provider. This section also allows you to enable or disable VASA provider at storage and register or unregister the provider with vCenter.

**Installation instructions**

For installation instructions, see the HPE OneView for VMware vCenter Installation Guide. Version 9.2.1 supports upgrades from HPE OneView for VMware vCenter 9.1 and 9.2.
NOTE: HPE ProLiant Gen10 and HPE Synergy Gen10 support ESXi 6.0 or newer.

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

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

This topic provides information on the known issues in the HPE OneView for VMware vCenter and the workarounds to overcome these issues. The issues and the workarounds have been divided based on whether they impact HPE OneView for VMware vCenter for servers or HPE OneView for VMware vCenter for storage.

Table 2: HPE OneView for VMware vCenter - generic issues and workarounds

<table>
<thead>
<tr>
<th>Known Issues</th>
<th>Workarounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>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.</td>
<td>Reboot the appliance and browse to administrator UI. As prompted, set up the administrator password again to existing or any new password.</td>
</tr>
</tbody>
</table>

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.

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.

Table Continued
### Known Issues

<table>
<thead>
<tr>
<th>Known Issues</th>
<th>Workarounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>The ASR status for servers running the CIM Providers is displayed with a white status icon. The current CIM providers do not monitor ASR.</td>
<td>No workaround</td>
</tr>
<tr>
<td>Search icon and search button are not functioning in the Online Help.</td>
<td>Type the search keyword in the Search field and press Enter.</td>
</tr>
</tbody>
</table>

**Table 3: HPE OneView for VMware vCenter for servers - issues and workarounds**

<table>
<thead>
<tr>
<th>Known Issues</th>
<th>Workarounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>After successfully deploying a server, the Recent Tasks window indicates 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.</td>
<td>Refresh the vSphere client.</td>
</tr>
<tr>
<td>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.</td>
<td>No workaround</td>
</tr>
<tr>
<td>Creating a user account and assigning it administrator privileges can cause idle sessions to accumulate on vCenter servers.</td>
<td>Use the administrator account that was created by VMware during the install instead of creating a user account and assigning it administrator privileges.</td>
</tr>
<tr>
<td>Erasing a job on a server can reset the date and time on that server to a default value.</td>
<td>Set the date and time as described in the Remote Desktop Protocol (RDP) knowledge base article at Multipath SAN Deployment Support.</td>
</tr>
<tr>
<td><strong>Edit Cluster OS Deployment plan</strong> operation follows fail-fast approach. If one host fails, the entire operation is aborted immediately.</td>
<td>No workaround</td>
</tr>
</tbody>
</table>

*Table Continued*
### Known Issues

<table>
<thead>
<tr>
<th>Workarounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>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:</td>
</tr>
<tr>
<td>- ProLiant Gen9 servers</td>
</tr>
<tr>
<td>- SPT as cluster settings for Grow Cluster</td>
</tr>
<tr>
<td>- Boot from SAN</td>
</tr>
<tr>
<td>- Managed Volume</td>
</tr>
<tr>
<td>- Virtual MAC</td>
</tr>
<tr>
<td>- FCOE network with HP59XX series switch</td>
</tr>
<tr>
<td>To resolve this issue, use Legacy BIOS instead of UEFI as the boot mode option.</td>
</tr>
<tr>
<td><strong>NOTE:</strong> Grow cluster supports only the &quot;Managed volume&quot; option for Boot from SAN cases.</td>
</tr>
</tbody>
</table>

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

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.*

If there are any connection issues between HPE OneView and vCenter, the Grow Cluster wizard displays connectivity failure error messages or fails to list Server Profile Templates.

If the **Hostname to Register** option is set to true in Grow Cluster, assigning an IP from an IP pool will fail.

Consistency issue reported for OS Deployment plan.

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.

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 plugin is installed or when new hardware is added.

No workaround

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**Table Continued**
<table>
<thead>
<tr>
<th>Known Issues</th>
<th>Workarounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>Boot order is not manageable in UEFI or UEFI optimized mode with Gen9 BL460c server ROM.</td>
<td>Update the server ROM to a version that supports UEFI boot order management. For information on supported versions, see the <a href="#">HPE OneView Support Matrix</a>.</td>
</tr>
<tr>
<td>The network diagram display is incomplete.</td>
<td>The workaround in the two situations is as follows:</td>
</tr>
<tr>
<td>• 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.</td>
<td>• Reattach the datastore to the host to get a complete network diagram.</td>
</tr>
<tr>
<td>• 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.</td>
<td>• Click <strong>Yes</strong> to stop the script from running, which prevents the diagram from completing, or click <strong>No</strong> to wait for the complete diagram to appear.</td>
</tr>
<tr>
<td>If proxy authentication is required to reach the node, HPE OneView for VMware vCenter cannot communicate with a node.</td>
<td>Disable the proxy setting to enable the HPE OneView for VMware vCenter to communicate with the node.</td>
</tr>
<tr>
<td>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.</td>
<td>No workaround</td>
</tr>
<tr>
<td>If you trigger the firmware update again while a firmware update is already in progress, you will see a task failure message.</td>
<td>Do not trigger it again until the running task is completed.</td>
</tr>
<tr>
<td>If a user performs a shrink cluster operation and the operation may be successfully completed, the subtask may still display the following message:</td>
<td>Ignore the subtask failure error message. The fix for this issue will be made available in the subsequent HPE OneView release.</td>
</tr>
<tr>
<td><strong>Error while performing the selected operation.</strong></td>
<td></td>
</tr>
<tr>
<td>For HPE OneView managed cluster configuration, the edit of the cluster name is not supported. If the user changes the cluster name in the vCenter, the plugin will report consistency issues.</td>
<td>Edit the cluster name in the HPE OneView Hypervisor Cluster Profiles page.</td>
</tr>
</tbody>
</table>

*Table Continued*
<table>
<thead>
<tr>
<th>Known Issues</th>
<th>Workarounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>For non-HPE OneView-managed HPE hardware components, the HPE OneView for VMware vCenter plugin may fail to display server hardware details under the Monitor tab.</td>
<td>Reboot the HPE OneView for VMware vCenter appliance.</td>
</tr>
<tr>
<td>For Proactive HA enabled clusters, Grow Cluster operation will fail while adding the host to vCenter due to add host operation incompatibility.</td>
<td>Disable proactive HA before performing the Grow Cluster operation. Once Grow Cluster operation is completed, you can enable proactive HA again.</td>
</tr>
</tbody>
</table>

Table 4: HPE OneView for VMware vCenter for storage - issues and workarounds

<table>
<thead>
<tr>
<th>Known issues</th>
<th>Workarounds</th>
</tr>
</thead>
<tbody>
<tr>
<td>An attempt to use the Management Deployment wizard to add hosts to vCenter results in the following error:</td>
<td>Manually add hosts.</td>
</tr>
<tr>
<td><strong>License not available to perform the operation</strong></td>
<td></td>
</tr>
<tr>
<td>As per design, if any failure occurs while presenting the volume, the Create datastore task will not delete the created volume. The volume created remains unused in the storage system.</td>
<td>If a failure occurs when you create the datastore, you have to manually delete the created volume in the storage system.</td>
</tr>
<tr>
<td>Creation of datastore is not supported on linear storage pool of HPE MSA 1050/2050/2052 storage systems.</td>
<td>For methods to recover data and clean up linear storage pools and the associated entities, see the HPE MSA 1050/2050/2052 User Guide.</td>
</tr>
<tr>
<td>Starting with HPE MSA 1050/2050/2052, 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 storage systems. Due to this, you might not be able to run provision operations on any linear storage pools on HPE MSA 1050/2050/2052 storage systems.</td>
<td></td>
</tr>
<tr>
<td>Creation or expansion of datastores is not supported on HPE MSA 1050/2050/2052 storage systems with degraded pool(s).</td>
<td>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.</td>
</tr>
<tr>
<td>If the pool health is degraded due to pool space consumption crossing high threshold, datastore creation and expansion operations are blocked on the pool.</td>
<td></td>
</tr>
<tr>
<td>Unable to create Peer Persistence datastore when there are no Remote copy groups with volumes in array.</td>
<td>Create at least one Remote Copy group with volumes in array and refresh OV4VC before creating Peer persistence datastore.</td>
</tr>
</tbody>
</table>

Table Continued
### Known issues

<table>
<thead>
<tr>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Workarounds</strong></td>
</tr>
<tr>
<td>Update the ESXi version to 6.0 Update 3 or later to use provisioning operation on HPE MSA SAS hardware.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Workarounds</strong></td>
</tr>
<tr>
<td>You may use VMware provided options to create, expand, or delete any datastore on HPE MSA 1050/2050/2052 SAS storage systems.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>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.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Workarounds</strong></td>
</tr>
<tr>
<td>Users may use VMware provided options to create, expand, or delete any datastore on HPE MSA 1050/2050/2052 SAS storage systems.</td>
</tr>
</tbody>
</table>

<table>
<thead>
<tr>
<th>Provisioning operations in HPE OneView for VMware vCenter may not work properly with HPE MSA 1050/2050/2052 SAS storage systems without any mapped volumes when it is connected through HPE H241 Smart Host Bus Adapter.</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>Workarounds</strong></td>
</tr>
<tr>
<td>Manually create at least one volume on the HPE MSA 1050/2050/2052 SAS storage system and map it to the HPE H241 Smart Host Bus Adapter port(s).</td>
</tr>
</tbody>
</table>
Documentation notes

This chapter provides information about any or all of the following:

- **Addendum**
  This section provides information on updates to HPE OneView for VMware vCenter documents that are not being revised in this release. This information will be included in future document revisions.

- **Correction**
  This section provides the information meant to clarify certain inaccuracies that are required to be updated in the HPE OneView for VMware vCenter documents that are not being revised in this release or exist in the version already released.
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 information for your product, see the links provided below:

HPE ProLiant and IA-32 Servers and Options
www.hpe.com/support/ProLiantServers-Warranties
HPE Enterprise and Cloudline Servers
www.hpe.com/support/EnterpriseServers-Warranties
HPE Storage Products
www.hpe.com/support/Storage-Warranties
HPE Networking Products
www.hpe.com/support/Networking-Warranties
Regulatory information

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

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

Additional regulatory information

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

www.hpe.com/info/reach

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

www.hpe.com/info/ecodata

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

www.hpe.com/info/environment

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