

HP Virtualization Performance Viewer

For the Linux operating system

Software Version: 2.00

Release Notes

Document Release Date: June 2014

Software Release Date: June 2014



Legal Notices

Warranty

The only warranties for HP products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. HP shall not be liable for technical or editorial errors or omissions contained herein.

The information contained herein is subject to change without notice.

Restricted Rights Legend

Confidential computer software. Valid license from HP required for possession, use or copying. Consistent with FAR 12.211 and 12.212, Commercial Computer Software, Computer Software Documentation, and Technical Data for Commercial Items are licensed to the U.S. Government under vendor's standard commercial license.

Copyright Notice

© Copyright 2012-2014 Hewlett-Packard Development Company, L.P.

Trademark Notices

Adobe® is a trademark of Adobe Systems Incorporated.

Microsoft® and Windows® are U.S. registered trademarks of the Microsoft group of companies.

UNIX® is a registered trademark of The Open Group.

Acknowledgements

This product includes software developed by the Apache Software Foundation (<http://www.apache.org>).

This product includes software developed by the OpenSSL Project for use in the OpenSSL Toolkit (<http://www.openssl.org>)

This product includes cryptographic software written by Eric Young (ey@cryptsoft.com)

This product includes software written by Tim Hudson (tjh@cryptsoft.com)

This product includes software developed by the Apache Software Foundation (<http://www.apache.org>).

Documentation Updates

The title page of this document contains the following identifying information:

- Software Version number, which indicates the software version.
- Document Release Date, which changes each time the document is updated.
- Software Release Date, which indicates the release date of this version of the software.

To check for recent updates or to verify that you are using the most recent edition of a document, go to: <http://h20230.www2.hp.com/selfsolve/manuals>

This site requires that you register for an HP Passport and sign in. To register for an HP Passport ID, go to: <http://h20229.www2.hp.com/passport-registration.html>

Or click the **New users - please register** link on the HP Passport login page.

You will also receive updated or new editions if you subscribe to the appropriate product support service. Contact your HP sales representative for details.

Support

Visit the HP Software Support Online web site at: <http://www.hp.com/go/hpsupport>

This web site provides contact information and details about the products, services, and support that HP Software offers.

HP Software online support provides customer self-solve capabilities. It provides a fast and efficient way to access interactive technical support tools needed to manage your business. As a valued support customer, you can benefit by using the support web site to:

- Search for knowledge documents of interest
- Submit and track support cases and enhancement requests
- Download software patches
- Manage support contracts
- Look up HP support contacts
- Review information about available services
- Enter into discussions with other software customers
- Research and register for software training

Most of the support areas require that you register as an HP Passport user and sign in. Many also require a support contract. To register for an HP Passport ID, go to:

<http://h20229.www2.hp.com/passport-registration.html>

To find more information about access levels, go to:

http://h20230.www2.hp.com/new_access_levels.jsp

HP Software Solutions Now accesses the HPSW Solution and Integration Portal Web site. This site enables you to explore HP Product Solutions to meet your business needs, includes a full list of Integrations between HP Products, as well as a listing of ITIL Processes. The URL for this Web site is <http://h20230.www2.hp.com/sc/solutions/index.jsp>

Contents

Contents	4
HP Virtualization Performance Viewer Release Notes	5
What's New in This Release?	6
Support Matrix	6
Installation Notes	7
Known Problems and Workarounds	8
Limitations	13
Documentation Updates	13
Localization Support	14
Open Source and Third-Party Components	14
We appreciate your feedback!	15

HP Virtualization Performance Viewer

Release Notes

for the Linux operating system

Software version: 2.00

Publication date: June 2014

HP Virtualization Performance Viewer (HP vPV) is a web-based analysis and visualization tool that analyzes performance trends of elements in virtualized environments. It enables virtualization monitoring by providing an overview of the environment, near-real-time and historical data analysis and triaging using an interactive dashboard. It also enables monitoring for cloud and hypervisor environments. HP vPV helps you visualize performance data for elements in the context of each other to rapidly analyze bottlenecks. HP vPV provides performance monitoring, graphing, and reporting in a single interface.

Some of the key features of HP vPV are as follows:

- Triage analysis with the Workbench and capability to trend server utilization across days, weeks, and a month.
- Analyze the capacity, usage, and allocation trends for various resources in a virtualized environment.
- Right sizing recommendation based on historical resource utilization and reclaiming unused resources.
- Analyze the impact of increasing the workload.

Note: HP vPV supports the VMware vCenter Server versions 5.0, 5.1, and 5.5.

This document is an overview of the features provided by HP vPV. It contains important information not included in the manuals or Online Help. You can find information about the following in this document:

- ["What's New in This Release? "](#)
- ["Support Matrix"](#)
- ["Installation Notes"](#)
- ["Known Problems and Workarounds "](#)
- ["Limitations"](#)
- ["Documentation Updates "](#)

- ["Localization Support "](#)
- ["Open Source and Third-Party Components "](#)

What's New in This Release?

- **Dashboard View**

The Dashboard view provides at-a-glance overview about the health of the environment. In addition, the view provides easy navigation and drill-down option. For more information on Dashboard, see *Working with HP vPV Dashboard* section in *HP Virtualization Performance Viewer Online Help*.

- **Modeler**

The Modeler feature helps to determine the impact of adding or deleting the resources in your environment. You can estimate the future capacity utilization to proactively plan your hardware requirements. For more information on Modeler, see *Modeler* section in *HP Virtualization Performance Viewer Online Help*.

- **Managing Alerts**

Using the Alerting feature, you can monitor alerts corresponding to the entities in your environment. You can identify and troubleshoot the action for the alert generated in your virtualized environment. For more information on Alerts, see *Managing Alerts* section in *HP Virtualization Performance Viewer Online Help*.

- **Placement and Optimization support for Hyper-V domain**

You can add, view, and monitor the resources in the Hyper-V domain. HP vPV provides you solution for triaging and identifying performance problems in the Hyper-V domain. For more information on Hyper-V datasource, see *Adding Hyper-V Data Source* section in *HP Virtualization Performance Viewer Online Help*

- **Integration with other HP Products**

You can integrate HP vPV with other HP products such as HP Operations Manager (HPOM). With the help of integration, you can view the alert messages on HPOM console. For more information on Integrations, see *Integrating HP vPV with Other HP Products* in *HP Virtualization Performance Viewer Online Help*.

Support Matrix

You can find the Support Matrix for this product that lists all the software and hardware requirements. The support matrix may be updated between releases, and so is only available at the HP Support web site: [HP Support matrices](#).

Note: Most of the support areas require that you register as an HP Passport user and sign in. Many also require an active support contract. To find more information about support access levels, go to: [Access levels](#).

To register for an HP Passport ID, go to: [HP Passport Registration](#).

The support matrix includes the following information:

- **Requirements**
 - Hardware
 - Operating System
 - Databases
 - Application Servers
 - Web Browsers and Plug-ins
- **Compatibility**
 - Languages
 - Internationalization Variances
 - Virtualization Products
 - High-Availability Products
 - HP Software Integrations
 - HP Software Coexistence
 - Performance and Sizing

Installation Notes

Installation requirements, as well as instructions for installing HP vPV are documented in the *HP Virtualization Performance Viewer Installation Guide* provided in PDF (.pdf) format. You can find the Installation Guide on the product installation media at the location - `\paperdocs\vPVInstallGuide.pdf`. You can install the product using the HP vPV Virtual Appliance, or Linux-based installer.

Virtual Appliance

The OVA file for the virtual appliance version of HP vPV is signed using GNU Privacy Guard (GPG). You can use the GPG signature to verify that the binaries you have downloaded are from HP and are not tampered. To verify the signature, follow the steps mentioned in the section Verification using GPG, available at the URL:

<https://h20392.www2.hp.com/portal/swdepot/displayProductInfo.do?productNumber=HPLinuxCodeSigning>.

To log in to the virtual appliance, the user name is **root** and password is **vperf*viewer**.

Note:

- Unlike on the US English keyboard layout, the location of the asterisk (*) key may be different on localized keyboards. Check this when typing the password.
- If there is a firewall on the system where HP vPV is installed, ensure that port 8081 is open to ensure that HP vPV is accessible from the browser. For accessing in the HTTPS mode, port 8444 must be open. For more information on port settings, see the *HP Virtualization Performance Viewer Online Help*.

For more information on Installing HP vPV, see the *HP Virtualization Performance Viewer Installation Guide*.

After installing HP vPV, launch the user interface using the URL: <http://<servername>:8081/PV>
OR <https://<servername>:8444/PV>.

Known Problems and Workarounds

Known Problems and Workarounds

Problem	When querying the performance metrics for datastore, if the value returned is larger than 32-bit, the VMware vCenter services fail.
Workaround	If you have vCenter version 5.0, you can apply the Update 1 for 5.0, which contains the fix for the issue. For more information, see the VMware vCenter Server Release Notes available at https://www.vmware.com/support/vsphere5/doc/vsp_vc50_u1_rel_notes.html#clientissues .
Problem	When a VM is on the Network File System (NFS) datastore and belongs to the Distributed Virtual Switch (DVS) port group, no data is collected. Hence, on the HP vPV console, there is no data available on the Treemap.
Workaround	None
Problem	Installation of HP Operations Manager (HPOM) integration package fails on HPOM for Unix with the following error: "/etc/opt/OV/share/conf/OpC/mgmt_sv/integration/cfgupld/post/cvp_upload.sh: [[: not found"

Workaround	<p>Follow the steps:</p> <ol style="list-style-type: none">1. Log on to the node as root.2. Go to the following locations: /etc/opt/OV/share/conf/OpC/mgmt_sv/integration/cfgupld/post/ or /etc/opt/OV/share/conf/OpC/mgmt_sv/integration/cfgdwn/post/3. Open the <code>cvp_upload.sh</code> or <code>cvp_download.sh</code> file. Replace <code>#!/bin/sh</code> with <code>#!/usr/xpg4/bin/sh</code>.4. Save and close the file.
------------	---

<p>Problem</p>	<p>The following metrics are not collected for Host, VM, or Datastore for Windows 2008 R2 SP1:</p> <p>Host Class</p> <ul style="list-style-type: none"> • CPUReadyTime • CPUPhysReadyUtil <p>Guest Class</p> <ul style="list-style-type: none"> • SystemOSName • MemoryDemand • CPUReadyTime • CPUUserModeUtil • CPUSysModeUtil • IPAddress <p>DataStore Class</p> <ul style="list-style-type: none"> • DiskSnapShotUsed • DiskVMDKUsed • DiskProvisioned • DiskOthersUsed <p>These metrics which are not collected cannot be used in Workbench. Also, Hyper-V (Placement and Optimization) and Forecast do not show data for these metrics.</p>
<p>Workaround</p>	<p>None</p>
<p>Problem</p>	<p>Disk Provisioned values that appear in the report do not match the provisioned space shown in the VMware vSphere Client.</p>
<p>Workaround</p>	<p>HP vPV shows the size of the virtual disk specified while creating the virtual machine as the provisioned space for the virtual machine. VMware uses additional parameters such as swap used, snapshots and so on to calculate the provisioned space. In such cases, the disk provisioned values might differ.</p>
<p>Problem</p>	<p>Alert messages are not localized when the HP vPV server locale is changed to another locale.</p>

Workaround	<p>To display alert messages in the specified locale, follow the steps:</p> <ol style="list-style-type: none"> 1. Log on to HP vPV server as root. 2. Run the following commands: <pre> ovc -kill ovc -start </pre>
Problem	<p>When a vCenter is down and started after 15 to 20 minutes, HP vPV does not collect performance data for that vCenter.</p>
Workaround	<p>If a vCenter is down and started after 15 to 20 minutes, performance data is not collected. HP vPV reports only configuration data for the vCenter. When the vCenter is up and running, HP vPV will automatically re-establish the connection and collect the performance data. The collection may take some time, depending upon the configuration of the environment and its responsiveness.</p> <p>If you want to immediately restart the performance data collection, run the following command:</p> <pre> ovc -restart pvcd </pre>
Problem	<p>If the hosts takes more time for collection than the default interval, Treemap does not show correct information.</p>
Workaround	<p>You can increase the collection interval if the hosts does not complete the collection in the default interval. To increase the collection interval, follow these steps:</p> <ol style="list-style-type: none"> 1. Open the <code>vPVWinVirtCollector.properties</code> file. 2. Update <code>CollectionIntervalInSeconds=600</code>. By default, the value is set to 300 seconds. 3. Restart the HP vPV Collector Service.
Problem	<p>If VMware tools are not installed, HP vPV does not collect the mac address. Hence, HP vPV is not able to register the details of HP ComputeSensor running on a VM.</p>
Workaround	<p>Enable VMware tools for the VM in VMware vSphere Client. For more information, see the VMware documentation.</p>
Problem	<p>Data collection fails when both HP vPV versions 1.20 and 2.00 are integrated with HP Service Health Reporter (SHR) version 9.20 on Windows operating system.</p>
Workaround	<p>None</p>

Problem	When reports are viewed in the PDF format in localized languages, incorrect text appears.
Workaround	View the reports in the HTML format. You can launch the HTML reports in a separate window and save the reports.
Problem	Removal of Hyper-V Host from Administration page does not stop data collection on the Hyper -V Host.
Workaround	Data collector on Hyper-V host must be stopped before removing the Hyper-V host from the Administration page.
Problem	While collecting data for clusters, data stores, and resources pools from vCenter 5.1 , the performance data collection fails with read time-out errors. Similar symptom is seen with VI client while plotting data for these entities.
Workaround	VMware recommends to upgrade to vSphere 5.5 where this issue is resolved. For more information about the issue and workaround, see the VMware KB article: http://kb.vmware.com/kb/1013829 .
Problem	HP vPV does not support some of the features when accessing with IPv6 address.
Workaround	Use the host name to access HP vPV instead of IP address.
Problem	After uninstalling HP vPV, Service Health Reporter (SHR) does not work.
Workaround	Restart ovtomcatB using command <code>/opt/OV/bin/ovc -restart ovtomcatB</code> .
Problem	PV Collection daemon does not start after reboot. The <code>ovc -status</code> shows <i>pvcd</i> in aborted state, after rebooting. OR Vertica Database does not start after rebooting.
Workaround	If the HP vPV Virtual Appliance is shutdown abruptly, sometimes the database does not start. Due to this, <i>pvcd</i> exits on rebooting. Restart the <i>pv</i> process (<i>pvcd</i> , Tomcat, and Vertica) after rebooting the machine. Run the command, <code>pv restart</code> from the HP vPV console.

Limitations

- HP vPV does not support upgrade from the previous versions to version 2.00.
- HP vPV version 2.00 has limited support for Internet Explorer version 9.0. You can only access few features such as Treemap, Workbench, and Admin.
- HP vPV does not collect data for disk and datastores of OpenStack datasource.
- HP vPV supports only graphs for VMware vApp on Workbench.
- When more than one vCenter is added to HP vPV and one of the vCenters is deleted, the resource count gets updated correctly within 15 to 20 minutes.
- HP vPV Collector Service collects only Hyper-V hosts monitored by SCVMM excluding the ESX servers from collection.
- When a datastore is mounted across multiple clusters, in HP vPV, the datastore is associated only with the first cluster. So, in Treemap and Workbench, you can view the details of the datastore only under the first cluster.
- The Configuration Items (CIs) list in the workbench takes a long time to load (4 to 5 minutes) if there are more than 5000 instances in HP vPV.
- Micro charts for data stores are not available for the first time when you configure the VMware vCenter Server in HP vPV. It appears after a couple of data collection cycles (after approximately 10 minutes) are complete.
- German locale does not support localized date and number format.

Documentation Updates

The first page of this release notes contains the following identifying information:

- Software Version number, which indicates the software version.
- Publication date, which changes each time the document is updated.

To check for recent updates or to verify that you are using the most recent edition, visit this URL: [HP Software Product Manuals](#)

To retrieve a document, select the following:

1. **Product** name.
2. **Product Version** list.
3. **Operating System**.

4. Preferred **Language**.
5. Document **Title**.
6. Click **Search**.

You must have Adobe Reader installed to view files in PDF format (*.pdf). To download Adobe Reader, go to the [Adobe](#) web site.

Localization Support

HP supplies localized software and documentation for HP vPV in the following languages:

- English
- Simplified Chinese
- Japanese
- French
- Spanish
- Russian
- Korean
- German

Open Source and Third-Party Components

The source code for the Open Source components for HP vPV is available at the product bits location for download.

We appreciate your feedback!

If you have comments about this document, you can [contact the documentation team](#) by email. If an email client is configured on this system, click the link above and an email window opens with the following information in the subject line:

Feedback on Release Notes (Virtualization Performance Viewer 2.00)

Just add your feedback to the email and click send.

If no email client is available, copy the information above to a new message in a web mail client, and send your feedback to docfeedback@hp.com.