



# HP Virtualization Performance Viewer

Software Version: 2.10

Linux operating system

## Release Notes

Document Release Date: December 2014  
Software Release Date: December 2014

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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](mailto:ey@cryptsoft.com))

This product includes software written by Tim Hudson ([tjh@cryptsoft.com](mailto:tjh@cryptsoft.com))

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

- Software Version number, which indicates the software version.
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# Contents

HP Virtualization Performance Viewer Release Notes .....	5
What's New in This Release? .....	6
Support Matrix .....	8
Installation Notes .....	9
Known Problems and Workarounds .....	10
Limitations .....	14
Documentation Updates .....	15
Localization Support .....	15
Open Source and Third-Party Components .....	16
Send Documentation Feedback .....	17

# HP Virtualization Performance Viewer Release Notes

for the Linux operating system

**Software version:** 2.10

**Publication date:** December 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.
- Determine the impact of adding or deleting the resources in your environment to proactively plan your hardware requirements

**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?

- **Business Grouping**

The **Business Grouping** feature in HP vPV allows you to customize the operational view of the virtual infrastructure based on your business applications and services. Using the Business Grouping feature, you can do the following:

- Work with a restricted set of virtual elements (VMs, Hosts, or Datastores) in a well - defined group.
- Define and create your own business metrics such as response time, number of transactions, and so on.
- Link business metrics with infrastructure performance and utilization metrics.
- Analyze the capacity, usage, and allocation trends for the virtual elements in a Business Grouping
- Forecast the resource utilization trends of entities in a Business Group.

For more information on Business Grouping, see *Working with Business Groups* section in *HP Online Help*.

- **OMi Management Pack for vPV to seamlessly integrate HP vPV with HP Operations Manager i (OMi)**

HP vPV integration with OMi using the **OMi Management Pack for vPV** helps you to seamlessly monitor your virtual infrastructure from OMi. The OMi Management Pack for vPV provides the following features:

- Ready to deploy Management Template to suit different monitoring requirements
- Ability to view HP vPV alerts and topology on OMi
- Ability to view Performance Graphs

For more information on HP vPV and OMi integration, see *HP vPV and HP OMi* section in *HP Online Help*.

- **Integration with HP OneView**

You can now integrate HP vPV with HP OneView. HP OneView is a converged infrastructure management product that provides a single integrated platform to manage your physical infrastructure. With HP vPV and HP OneView integration, you can perform the following tasks:

- Get a unified view of the physical and virtual infrastructure overlaid on the Enclosure layout.
- Determine the capacity impact of removing a Blade or Enclosure on the respective clusters and business services using Out-of-the-box reports.
- Understand the power efficiency of various servers and take decisions to optimize the power utilization of a cluster or datacenter.

For more information on HP vPV integration with HP OneView, see *Integrating HP vPV with HP OneView* section in *HP Online Help*.

- **Integration with HP Cloud Service Automation (HP CSA)**

HP vPV integration with HP CSA has been enhanced with the following new features:

- Application Programming Interfaces (APIs) for VM placement suggestions and optimization recommendations
- Capability to view, monitor, and forecast HP CSA organizations from HP vPV

For more information on HP vPV integration with HP CSA, see *Integrating HP vPV with HP CSA* section in *HP Online Help*.

- **Alerting Capabilities for Microsoft Hyper-V**

The Alerting feature in HP vPV has been enhanced to monitor performance anomalies in Microsoft Hyper-V environments.

For more information on Alerting for Hyper-V, see *Conditions Used to Generate the Alert Messages in Hyper-V* section in *HP Online Help*.

- **Performance Filter**

The Performance Filter feature in HP vPV allows you to filter domain specific entities based on metric values. You can add multiple filters for the entities. The filters are based on the rules applied to the metrics.

For more information on Performance Filter, see *Filter* section in *HP Online Help*.

- **Support for OpenStack Icehouse**

HP vPV now supports the Icehouse release of OpenStack.

For more information on using OpenStack data sources in HP vPV, see *Adding OpenStack Data Sources* section in *HP Online Help*.

- **Ability to monitor Physical servers**

In addition to monitoring virtual infrastructure, HP vPV has been enhanced to monitor non-virtualized or physical servers as well. With the capability of monitoring physical servers, HP vPV now gives a comprehensive top-to-bottom visibility and control of the infrastructure. You can view CPU and memory utilization forecast for physical servers.

For more information on monitoring Physical Servers, see *Adding Physical Server as a Data Source* section in *HP 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\vPV\InstallGuide.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 <a href="https://www.vmware.com/support/vsphere5/doc/vsp_vc50_u1_rel_notes.html#clientissues">https://www.vmware.com/support/vsphere5/doc/vsp_vc50_u1_rel_notes.html#clientissues</a> .
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/0V/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"><li>1. Log on to the node as root.</li><li>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/</li><li>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>.</li><li>4. Save and close the file.</li></ol>
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Problem	<p>The following metrics are not collected for Host, VM, or Datastore for Windows 2008 R2 SP1:</p> <p><b>Host Class</b></p> <ul style="list-style-type: none"> <li>• CPUReadyTime</li> <li>• CPUPhysReadyUtil</li> </ul> <p><b>Guest Class</b></p> <ul style="list-style-type: none"> <li>• SystemOSName</li> <li>• MemoryDemand</li> <li>• CPUReadyTime</li> <li>• CPUUserModeUtil</li> <li>• CPUSysModeUtil</li> <li>• IPAddress</li> </ul> <p><b>DataStore Class</b></p> <ul style="list-style-type: none"> <li>• DiskSnapshotUsed</li> <li>• DiskVMDKUsed</li> <li>• DiskProvisioned</li> <li>• DiskOthersUsed</li> </ul> <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>
Workaround	None

Problem	Alert messages are not localized when the HP vPV server locale is changed to another locale.
Workaround	<p>To display alert messages in the specified locale, follow the steps:</p> <ol style="list-style-type: none"> <li>1. Log on to HP vPV server as root.</li> <li>2. Run the following commands:</li> </ol> <pre style="margin-left: 40px;"> ovc -kill ovc -start                     </pre>

Problem	When a vCenter is down and started after 15 to 20 minutes, HP vPV does not collect performance data for that vCenter.
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	If the hosts in Hyper-V domain take more time for collection than the default interval, treemap does not show correct information.
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"> <li>1. Open the <code>vpvWinVirtCollector.properties</code> file.</li> <li>2. Update <code>CollectionIntervalInSeconds=600</code>. By default, the value is set to 300 seconds.</li> <li>3. Restart the HP vPV Collector Service.</li> </ol>
Problem	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.
Workaround	Enable VMware tools for the VM in VMware vSphere Client. For more information, see the VMware documentation.
Problem	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.
Workaround	None
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	If HP vPV and Service Health Reporter (SHR) are installed on same system, Service Health Reporter (SHR) does not work after uninstalling HP vPV.
Workaround	Restart <code>ovtomcatB</code> using command <code>/opt/OV/bin/ovc -restart ovtomcatB</code> .

Problem	<p>The collection daemon does not start after reboot. The <code>ovc -status</code> shows <i>pvcd</i> in aborted state, after rebooting.</p> <p><b>OR</b></p> <p>Vertica Database does not start after rebooting.</p>
Workaround	<p>If the HP vPV Virtual Appliance is shutdown abruptly, sometimes the database does not start. Due to this, <i>pvcd</i> exits on rebooting.</p> <p>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.</p>
Problem	<p>When a CSA administrator reassigns a VM subscription from one user to another user, the earlier CSA user continues to see the VM name in his inventory when he logs on to vPV.</p> <p>For example, the CSA administrator has reassigned the VM subscription from User1 to User2. User1 continues to see the VM name in his inventory when he logs on to vPV. However, User2 is also able to view his VM subscription correctly.</p>
Workaround	<p>The CSA administrator is recommended to clear the cache using the <b>Clear Cache</b> button available in the <b>CSA Integration</b> section in the <b>Admin &gt; Integrations</b> tab.</p>

## Limitations

- HP vPV version 2.10 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 datastores of OpenStack datasource. Some of the disk usage metrics data for different OpenStack entities are logged and available for graphing in HP vPV workbench.
- When a target is removed from HP vPV, it continues to show data for that target for three successive collection intervals. After that, no data is shown for that target and the instance count is also updated.
- 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 some time to load if there are more than 2000 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.

- Localized date and number format is not supported in German Locale.
- The Physical Server collector identifies a host as a KVM host even if the KVM hypervisor is uninstalled from the host.
- Installation of the Physical Server collector is not supported on the machine where Real Time Guest OS Drill Down is configured.

## 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.

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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 for HP vPV in the following languages:

- English
- Simplified Chinese

- Japanese
- French
- Spanish
- Russian
- Korean
- German

HP supplies localized documentation for HP vPV in English

## 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.



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