

HP Virtualization Performance Viewer

For the Windows[®] and Linux operating systems

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Installation Guide

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Installation Overview

This chapter provides information about the following:

- Operating systems on which the current version of vPV is supported

Note: Only the x64-bit versions of all the operating systems are supported.

- Hardware and software components required to run vPV
- Components required for each operating environment

Before installing vPV, make sure you go through the ["Installation Requirements"](#).

Conventions Used in this Document

The following conventions are used in this document when referring to the location of files on the HP Virtualization Performance Viewer (vPV) system.

Convention	Description	Value
<install_dir>	The directory where vPV is installed.	On Linux systems, the installation directory is /opt/OV.
<data_dir>	The common data directory where data files and log files related to HP Software products are stored.	The data directory is /var/opt/OV.

vPV Installers

You can install vPV using any of the following installer:

- Linux-based installer
- Virtual appliance
- Archive Extractor

Note: The Archive Extractor version is available only for the Windows operating system (x64-bit only). It is a free version and cannot be upgraded to a licensed version.

Installation Requirements

During installation, the installer performs the following tasks:

- Checks if your system meets the disk space requirements. For information on the disk space, see "[Hardware Requirements](#)".
- Checks if your system has any other HP software product installed.
- Provides a detailed log of the system disk space and other HP software products detected.
- Provides a list of components installed.

Hardware Requirements

The minimum hardware requirements for installing vPV are:

Item	Value
CPU	2 vCPU
Memory	4 GB
Disk	40 GB

Installing on a slower system or one with less memory may result in slow performance.

The following table lists the hardware requirements for using vPV with the Premium and Express licenses.

License	vCPU	RAM	Disk Space	Instances Monitored
Express	2	4 GB	40 GB	2000*
Premium	2	4 GB	40 GB	1200

*vPV can monitor more than 2000 instances by increasing the RAM and CPU. For more information, see the *HP Virtualization Performance Viewer Sizing Guide*.

Supported Browsers

The following table lists the web browsers that are required to access vPV:

Operating Systems	Supported Browsers
Microsoft Windows	Firefox 24 (ESR) Internet Explorer 10 Google Chrome (latest version)
Linux	Firefox 24 (ESR)

To view the vPV home page, install Adobe® Flash Player 10.2 or above and enable JavaScript support for the Internet Explorer (IE) or Mozilla Firefox browser by adding vPV to your list of Trusted Sites.

Support Matrix

The following table lists the support matrix for vPV.

Deliverable	Platforms/Versions
Linux Installer	RHEL 6.2, 6.3, 6.4 CentOS 6.2, 6.4
Virtual appliance	CentOS 6.4

Pre-requisites

Following are the prerequisites for installing vPV:

- Ensure that port 8081 is open to make vPV accessible from the remote browser, if there is a firewall on the system where vPV is installed.
- Ensure that port 8444 is open to access in HTTPS mode.
- Ensure that the port used for accessing vPV (8081, by default) is open in the firewall, if there is a firewall between vPV and Microsoft System Center Virtual Machine Manager (SCVMM) server.
- Ensure that the port 5480 is opened, to access the Virtual Appliance Management Interface (VAMI).

Linux-based Installer

Following are the prerequisites for the Installer version of vPV:

- Install Libvirt and all its dependencies on the vPV server.

Libvirt is an open source management tool to manage virtualized platforms such as Linux, KVM, Xen, and so on.

Libvirt can be installed on following versions of the different Linux distributions:

Linux Types	OS Versions
CentOS	6.2 6.3 6.4 (64-bit)
RHEL	6.2 6.3 6.4 (64-bit)

- Install Expect and all its dependencies on the vPV server.

Expect is a tool that communicates with interactive programs such as ssh.

- For vPV standalone installation, install latest unixODBC package, if it is not already available.

The unixODBC Driver Manager is an open source ODBC driver manager for providing application developers predictable APIs to access Data Sources.

Archive Extractor

Following are the prerequisites for the Archive Extractor version of vPV:

- Java Runtime Environment (JRE) 1.6.0_35 and above
- Make sure that the environment variable JAVA_HOME or JRE_HOME is set
- Adobe Flash Player 10.2 or above

Installation Steps

The following section details the different methods to install vPV:

- ["Deploying the vPV Virtual Appliance"](#)
- ["Installing vPV"](#)
- ["Using the Archive Extractor"](#)

Note: You cannot upgrade to vPV 1.2 from vPV 1.00 or 1.10.

Deploying the vPV Virtual Appliance

vPV is available as a Virtual Appliance for easy deployment in vCenter. You can use the VMware vSphere Client user interface to deploy the virtual appliance.

The supported VMware vCenter Server versions are 4.1, 5, 5.1, and 5.5.

To deploy the vPV virtual appliance, follow these steps:

1. Open VMware vSphere Client.
2. Type the credentials and click **Login**.
3. Select **File > Deploy OVF Template**. The **Deploy OVF Template** window opens.
4. Click **Browse** to browse to the location where you have saved the vPV virtual appliance file.
5. Click **Next**. The window shows the details of virtual appliance.
6. Click **Next**. The End User License Agreement details appear.
7. Click **Accept** and then click **Next**.
8. Type a name for the virtual appliance in the **Name** field.
9. Select where to deploy the virtual appliance from the **Inventory Location** tree. Click **Next**.
10. Select the host or cluster where you want the virtual appliance to run. Click **Next**.
11. Select the specific host where to run the virtual appliance. Click **Next**.
12. Select the storage location where you want to store the virtual machine files. Click **Next**.
13. Select the disk format in which you want to store the virtual disks. Click **Next**.
14. Type the required Networking Properties and click **Next**. The window shows the details of the deployment.

15. Select the **Power on after deployment** check box.
16. Click **Finish**. The deployment task starts. After deployment, the virtual appliance name appears in the tree in the VMware vSphere Client user interface.

Note: For more information, refer to the VMware documentation. The steps are subject to change based on VMware.

Logging in to the Virtual Appliance

You can log in to the vPV Virtual Appliance using the username as **root**. The default password is **vperf*viewer** and it is recommended to change the password after logging in.

Installing vPV

You can install HP vPV on your Linux system by using any of the following procedures:

- ["Attended Installation"](#)
- ["Unattended Installation"](#)

Note: To install vPV on your system, you must log on as root user.

Attended Installation

You can install HP vPV on your Linux systems through Graphical and command line interfaces.

Installing HP vPV through Graphical Interface

To install vPV using X11 interface, perform the following tasks:

1. Login as a root user.
2. Place the HP vPV CD/DVD-ROM media in the CD/DVD drive. If necessary, mount the CD/DVD-ROM.
3. To start installation, if you want to use the X11 terminal window, export the DISPLAY variable to point to an X11 terminal type the following command:

```
export DISPLAY=<IP_Address/system_name>:0.0
```

where, <IP_Address/system_name> is the IP address or the system name of the X11 terminal.

4. Type the following:

```
<CD/DVD-ROM> HPPV_1.xx.xxx_setup.bin
```

where, <CD/DVD-ROM> is the drive letter of the CD/DVD ROM.

The HP vPV Installation wizard appears. This window displays an introductory message.

Note: If you are installing HP vPV for the first-time on your Linux system, the `ovinstallparams.ini` file containing the installation parameters is created in the system's temporary directory. During installation, HP Installer checks for the `ovinstallparams.ini` file. If HP Installer detects the `ovinstallparams.ini` file on your system, a message asking if you want to reuse the values in the file appears.

- Click **Yes** to use the values in the configuration file as default values.
- Click **No** to overwrite the existing configuration file.

If HP Installer does not find the file, the system creates the `ovinstallparams.ini` file with default values in the temporary directory. To save the `ovinstallparams.ini` data, copy the file to an alternate location, before installing other HP products.

5. On the HP vPV Installation wizard, click **Next**. The License Agreement screen appears.
6. Read the terms of license agreement. To continue with installation, select **I accept the terms of License Agreement** option. The installation wizard performs install checks.
7. Click **Next**. The Pre-Install Summary screen appears. The screen displays the list of components that will be installed.
8. Click **Install**.

Note: If the installation fails, you can roll back or quit installation. The **Roll Back** option removes the components which are already installed.

Clicking **Quit** stops the installation, but does not uninstall the components installed till then.

When you start vPV installation next time, the Installer prompts you to confirm if you want to resume the installation or uninstall vPV.

9. Click **Details** tab and expand the components tree to view the list of components.
10. To view the log file on your system, click **View Log Files**.
11. Click **Done** to complete the installation.

Note: If the system needs to be restarted, the following message appears after installation is complete: 'You may need to restart your system for the configuration changes made to

the system to take effect. Would you like to quit this installation?'

It is recommended that you restart your system after installation.

Installing HP vPV through Command Line Interface

Note: Localization is not supported when installing vPV in console mode. As a result, some text may be illegible.

To install vPV through Command Line interface:

1. Login as a root user.
2. Insert the HP vPV CD/DVD-ROM media into the CD/DVD drive. If necessary, mount the CD/DVD-ROM.
3. Run the following command:

If you are installing vPV on a stand-alone system:

```
<CD/DVDROM_mount>/HPPV_1.xx.xxx_setup.bin -i console
```

where, <CD/DVD-ROM> is the drive letter of the CD/DVD ROM.

4. When the prompt, **I accept the terms of the License Agreement** for the License information appears, type **Y** to accept the terms and continue installation. The installer checks all the Installation Requirements.
5. Click **Enter** to continue. The pre-installation summary appears.
6. Click **Enter** to continue.

When the installation is complete, you will receive a message which states that the installation was completed successfully.

Unattended Installation

To carry out unattended installation:

1. Login as a root user.
2. Insert the HP vPV CD/DVD-ROM media into the CD/DVD drive. If necessary, mount the CD/DVD-ROM.
3. Go to the directory where the CD/DVD-ROM is mounted.
4. Type the following syntax at the command prompt:

```
./HPPV_1.xx.xxx_setup.bin -i silent
```

Note: If the installer finds a working installation of HP vPV, it will uninstall HP vPV when you run the `-i silent` command. If not, it will install vPV.

5. To verify the installation, check the log files.

Using the Archive Extractor

vPV is available as an Archive Extractor version (supported only on Windows) for quick download and use.

To start using the Archive Extractor version, follow these steps:

1. Extract the contents of the **HPPV_ArchiveExtractor_<version_number>.zip** file to a folder.
2. Run the *run.bat* script.

To access the vPV user interface, open a browser and type the following URL:

```
http://<IP address/system name>:<port number>/PV
```

where, *<IP address/system name>* is the IP address or the system name of the vPV server and *<port number>* is the port number of the vPV server.

Note: vPV does not support KVM, Xen, HP aPaaS, or OpenStack as data sources if it is installed using the Archive Extractor.

To stop using the Archive Extractor version of vPV, run the *stop.bat* script.

Verifying the Installation

On successful installation:

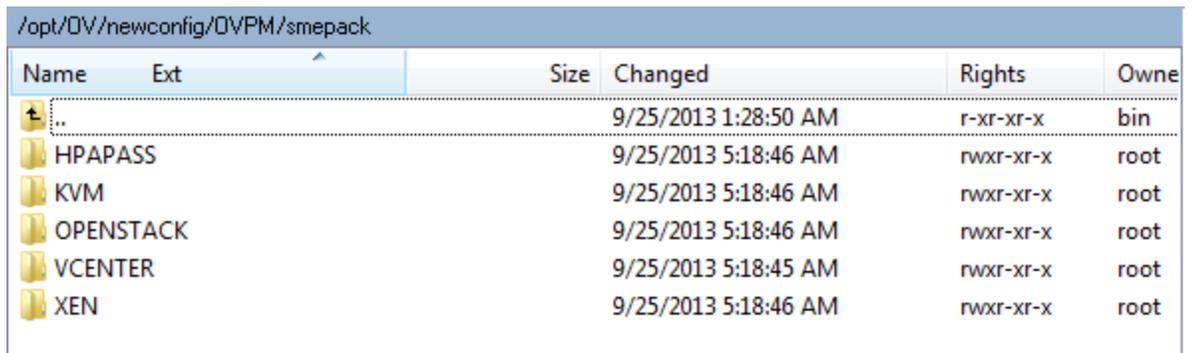
- The Linux systems display the application directory and data directory paths.
- To view install log files see the following:

```
For Linux: /tmp/HPPV_1.xx.xxx_HPPVInstaller.txt
```

```
/var/tmp/HPPVInstaller/PerfUtil-mm-dd-yyyy.log.0
```

In this instance, *mm* indicates the month, *dd* indicates the day, and *yyyy* indicates the year. The file name indicates the time stamp when the install was performed.

You can view the folder structure as shown in the following figure:



Name	Ext	Size	Changed	Rights	Owne
↑	..		9/25/2013 1:28:50 AM	r-xr-xr-x	bin
📁	HPAPASS		9/25/2013 5:18:46 AM	rwxr-xr-x	root
📁	KVM		9/25/2013 5:18:46 AM	rwxr-xr-x	root
📁	OPENSTACK		9/25/2013 5:18:46 AM	rwxr-xr-x	root
📁	VCENTER		9/25/2013 5:18:45 AM	rwxr-xr-x	root
📁	XEN		9/25/2013 5:18:46 AM	rwxr-xr-x	root

Using vPV Commands

After you install vPV, you can use the following commands to administer the vPV workspace through the command prompt.

```
<bin_dir>/pv <Options>
```

You can replace <Options> with any of the following variables:

- **status** - To check the vPV status.
- **start** - To start vPV.

All the applications that use OvTomcatB are started when you run **pv start** command.

- **stop** - To stop vPV.

All the applications that use OvTomcatB are stopped when you run **pv stop** command.

- **restart** - To stop and then start vPV.
- **trace on** - To start generating detailed trace files.
- **trace off** - To stop generating detailed trace files.
- **version** - To display the version of vPV installed on your system.

Configuring Security for vPV

You can configure security for vPV in the following ways:

- Restrict physical access to vPV - You need physical access to log on and perform activities. You can configure vPV for additional system logon security.
- Restrict network access to vPV - You can restrict network access to vPV by using segregated networks or firewall.
- Using secure communications - You can configure vPV to use Secure Sockets (HTTPS) communication with the clients. For more information, see the following section.

Using Secure Sockets Layer (SSL or HTTPS)

The HTTP and HTTPS protocols are by default enabled for vPV. The default port numbers for HTTP and HTTPS are 8081 and 8444 respectively. You can choose to use either of the protocols. However, to ensure security for administration-related tasks, you must access vPV in the secure communications mode. To access vPV in the secure mode, use the following URL:

```
https://<systemname>:8444/PV
```

To access vPV in the non secure mode, use the following URL:

```
http://<systemname>:8081/PV
```

You can also change the default port settings for both HTTP and HTTPS communications.

Changing Port Settings

The default HTTP port number to access vPV is 8081 and the default port number for secure connection is 8444. All client systems are authorized to connect to vPV server. To change the default port number for the vPV server, follow these steps:

1. Check for the availability of the port number you want to use, by running the following commands at the command prompt:

```
cd <bin_dir>
```

```
ovtomcatbctl -checkport <portnumber>
```

A message indicating if the port is available or in use appears. For example, if you are checking for the availability of the port number 8081, the message, "Port Number 8081 is not in use" appears, if the port number is available. If the Port Number 8081 is not available, a message indicating that the port number is used by another program or service appears.

2. Stop vPV by running the following command at the command prompt:

```
pv stop
```

3. To change http or https port numbers for vPV server, run the following command at the command prompt:

```
cd <bin_dir>
```

```
ovconfchg -ns NONOV.TomcatB -Set HTTPPort <port number>
```

```
ovconfchg -ns NONOV.TomcatB -Set HTTPSPort <port number>
```

4. Start the vPV server.

Disabling Secure Communications

To disable secure communications, perform the following steps:

1. Stop vPV, if vPV is running.
2. Run the following command at the command prompt:

```
cd <bin_dir>
```

```
ovconfchg -ns NONOV.TomcatB -set EnableHTTPS False
```

Note: To enable secure communication again, set the value to **True**, instead of **False**, in the preceding command.

3. Restart vPV.

Using SSL or HTTPS with the Tomcat Web Server

To use SSL or HTTPS protocols with the Tomcat web server, you need to obtain a server certificate for Tomcat after installing vPV. You can replace the certificate obtained after vPV installation in the following scenarios:

- When you connect to vPV using HTTPS protocol, the certificate and name of the system are compared to ensure that the names match. If the names are not similar, most browsers alert the users so that they can decide to either continue or cancel the connection. If the name used by HTTPS users is different from the name used by the vPV installation, you must obtain a different certificate.
- You may need to obtain a new certificate when you want to fill the fields in the certificate that are left blank during vPV installation. The certificate contains many fields to provide information, such as, the issuer of the certificate and other fields that warrant the safety provided by the certificate. The vPV installation certificate leaves most of these fields blank.
- When you want to change the default certificate password to avoid unauthorized changes, you must replace the existing certificate.

To replace the Tomcat SSL certificate, perform the following steps:

1. Delete the existing certificate by running the following command at the command prompt.

```
keytool -delete -alias ovtomcatb -keystore /var/opt/OV/certificates/tomcat/b/tomcat.keystore
```

The keytool path on Linux is */opt/OV/nonOV/jre/b/bin*

2. Restart vPV.
3. Create a new certificate. To create a new certificate, run Keytool by entering the following commands at the command prompt:

```
keytool -genkey -alias ovtomcatb -keyalg RSA -keystore  
/var/opt/OV/certificates/tomcat/b/tomcat.keystore
```

4. Restart vPV.

License Management

After you install vPV, you can purchase the appropriate licenses based on your business requirements. These licenses enable you to access all the features of the product.

To access the License tab on the vPV user interface:

1. Log in to the vPV user interface to import licenses.
2. Click  in the Options pane to launch the Administration page from the vPV home page.

The License Management tab provides information about your vPV licenses. You can also use this tab to start using your Evaluation License as well as import a vPV license. For more information on importing licenses, see "[Importing Licenses](#)".

Note: If you install an Express license on the vPV server which uses a Community license, then the Community license expires.

If you want to retain the Community license, create a separate vPV server to install the Express license.

For more information on the difference between the licenses and the features available, see "[Types of Licenses](#)".

User Interface

The following table lists the sections available in the License Management tab.

Section	Description
License Status	Displays information regarding the installed licenses. The two tables available are: <ul style="list-style-type: none">• Active License Details• Installed Licenses
Manage License	To import permanent licenses.

The **Active License Details** table lists the following information about your current vPV License:

- Type of license installed
- Date of license expiry and number of days remaining until license expiry
- Number of instances that can be monitored, based on the installed license
- Number of instances monitored currently

The **Installed Licenses** table lists the following information regarding the active and all installed licenses for vPV:

- All active and installed licenses.
- Capacity or number of instances available corresponding to each license.

Note: The Installed Licenses table is not available when your current active license is Community license.

Types of Licenses

The following table lists the available features for the Free, Evaluation, and Permanent vPV Licenses.

Feature	Community License	Express License	Premium License	Evaluation License
Number of Instances	25 instances	6000 Tested up to 6000 instance. Larger configurations can be supported. For more information, see the vPV Sizing Guide.		
Data Retention	Up to 24 hours	90 days	90 days	60 days
Enterprise Directory Integration	No	Yes	Yes	Yes
Reports	Yes	Yes	Yes	Yes
HP PM and HP BSM Integration	No	Yes	Yes	Yes
HP CSA Integration	No	No	Yes	Yes
Guest Operating System drill down for advanced troubleshooting	No	No	Yes	Yes
Current Capacity Reports (Only VMware)	No	No	Yes	Yes
Best-fit Capacity Optimization (Only VMware)	No	No	Yes	Yes
Virtual Machine Placement (Only VMware)	No	No	Yes	Yes
Capacity Demand Forecast (Only VMware)	No	No	Yes	Yes

Note: The number of instances denote only the VMs and hosts.

All product features are available for the Evaluation License. The only difference between the Evaluation License and Premium License is the validity.

The Archive Extractor version of vPV is available only as a free version for ease of use and you cannot upgrade it to a licensed version.

Evaluation License

After installing vPV, by default, your active license will be Community License. To start using your Evaluation License, click **Start Evaluation**. The page refreshes and displays information regarding your Evaluation License.

After the Evaluation License expires (after 60 days), the system changes your license automatically to Community License.

Note: Data collection works only when the sum of instances from all data sources is less than or equal to the maximum instance capacity of the license. If the total instance count exceeds the maximum instance capacity of the license, then connection for all the data sources fails. For example, if you install a Premium license for 100 instances, and try to connect two hosts with 60 instances each, then the collection fails for both the hosts.

License Validity

The following table lists the validity of the different vPV licenses.

License	Validity
Community	Not Applicable
Evaluation	60 days
Premium	Depends on the date when license is ordered
Express	Depends on the date when license is ordered

Importing Licenses

After you purchase a license, you must import it before you start using vPV.

To import licenses for vPV, follow these steps:

1. Go to the **License Management** tab in Administration page.
2. Type your license key in the **License Key** field of the Manage License section.
3. Click **Import License**. The License Status section refreshes to display the details of the license imported.

To clear the license key typed in, click **Reset**.

Removing HP vPV

You can remove vPV installed on Linux systems by using the procedure described in the following section:

vPV Virtual Appliance

To remove the vPV virtual appliance, power off the VM and delete the VM.

Uninstalling vPV on Linux

To remove vPV from a Linux system:

1. Log on as root user.
2. Go to `/opt/OV/Uninstall/HPPV`.
3. Run the uninstall command:
 - To use an X11 interface, export the `DISPLAY` variable to point to an X11 terminal if necessary. Then run the command:

```
./setup.bin
```

- To use a command line interface, run the command:

```
./setup.bin -i console
```

4. Select **Uninstall**.

Removing Configurations and User Graph Templates

Removing vPV does not remove configurations or user graph templates. You need to manually remove the files from the data directory.

Removing vPV Files using the Clean-up Script

After removing vPV, you must run the following clean-up script. This script is available in the `<install_dir>\support`:

- `clnup_pv.sh` for Linux

The clean-up script removes the following files from `<data_dir>\conf\perf`:

- `OVPMconfig.ini`
- `OVPMUsers.xml`

- OVPMSystems.xml
- ovpm.tcf
- VPI_GraphsUserFavorites.txt
- OVPMReportTemplate.htm
- All folders starting with the name "VPI_".
- All PV database related files

Note: If you plan to reinstall vPV on the same system, make sure you delete the following folders after you finish running the clean-up script:

- /opt/OV/
- /opt/vertical/
- /var/opt/OV/

Troubleshooting vPV

The following section details how to troubleshoot vPV:

Vertica database is filled to near capacity due to the increase in the log file size.

Symptom	The Vertica database is filled to near capacity due to the increase in the log file size.
Causes	Vertice database consolidates and retains the log data in a .gz file daily. By default, this process (called 'rotate') continues for 52 weeks.
Resolution	<p>To create more space on the Vertica database implement any one of the two solutions below.</p> <p>Solution 1</p> <ol style="list-style-type: none"> 1. Go to /opt/vertica/config/logrotate/. 2. Open the pv file. 3. In the pv file, under # and keep for 52 weeks change the value of rotate from 52 to the number of weeks for which you want to save the rotated log files. <p>For example: rotate 3</p> <p>In this instance, the Vertica database will retain the .gz files for 3 weeks.</p> <ol style="list-style-type: none"> 4. Repeat step 3 for all instances of # and keep for 52 weeks. 5. Save and close the file. <p>Solution 2</p> <ol style="list-style-type: none"> 1. Login as a root user. 2. Run the following commands on the vPV server: <pre>cd /opt/vertica/bin ./admintools -t logrotate -d pv -r weekly -k <number_of_weeks></pre> <p>where, <number_of_weeks> is the number of weeks for which you want to retain the rotated logs.</p>

Unable to Access vPV

Symptom	Unable to access vPV through the default network port settings.
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Causes	<ul style="list-style-type: none"> Your system has ovTomcatB configured to run with the non-root user or non-local system account privileges and you have vPV installed on such a system. You cannot access vPV using the default http (8081) or https (8444) ports if these ports are in use by other applications.
Resolution	<ul style="list-style-type: none"> Check if ovTomcatB is configured to run with the non-root user or non-local system account privileges. If so, modify the settings to run ovTomcatB with the Administrator or root user privileges. Try accessing vPV by using the following URL: <code>http://<IP address/system name>:<port number>/PV</code> where, <IP address/system name> is the IP address or the system name of the vPV server and <port number> is the port number of the vPV server. If the vPV Home page does not appear, check if the default ports are in use. To change the port settings, follow these steps: <ol style="list-style-type: none"> Run the following command at the command prompt to change the port numbers for HTTP, HTTPS, and ShutdownPorts: <code><bin_dir>ovconfchg -ns NONOV.TomcatB -set HTTPPort <port number></code> <code><bin_dir>ovconfchg -ns NONOV.TomcatB -set HTTPSPort <port number></code> <code><bin_dir>ovconfchg -ns NONOV.TomcatB -set ShutdownPort <port number></code> Restart vPV.

Unable to connect to vPV server through HTTPS protocol

Symptom	vPV is unable to connect to the server through secure communication (HTTPS) protocol.
Cause	The connection times out when vPV is not able to connect through the secure client in the default timeout interval of one second.
Resolution	Use the parameter SECURE_CLIENT_CONNECT_TIMEOUT to adjust the timeout interval to connect to vPV server depending on your Internet connectivity or infrastructure setup.

Deployment of vPV fails

Symptom	The deployment of the vPV Virtual Appliance fails.
Cause	This may happen when the time on the ESX server is set to a future time.
Resolution	Ensure that the time on the ESX server is set correctly.

Unable to view content on vPV home page

Symptom	The vPV Home page does not display anything except the header.
Cause	Javascript is not supported or Adobe® Flash Player is not installed in your browser. Adobe® Flash Player version 10.3 is the minimum required version.
Resolution	<p>Install Adobe® Flash Player and enable JavaScript support for the Internet Explorer (IE) or Mozilla Firefox browser by adding vPV to your list of Trusted Sites.</p> <ul style="list-style-type: none"> • To add vPV Web server URL to a trusted site, perform the following steps: <p>For IE browser</p> <ol style="list-style-type: none"> a. From the Tools menu, click Internet Options. The Internet Options pop-up appears. b. Click Security tab. c. Select the Trusted Sites icon. d. Click Sites. The Trusted Sites pop-up appears. e. Type the vPV web server URL and click Add. The typed URL appears in the list of trusted sites. f. Click Close. g. Click OK. h. Restart the browser. <p>For Mozilla Firefox browser</p> <ol style="list-style-type: none"> a. From the Edit menu, click Preferences. The Options pop-up appears. b. Click Privacy tab. c. Click Exceptions. d. Type the vPV web server URL in the box under Address of web site. e. Click Allow. f. Click Close. g. Click OK. h. Restart the browser.

Resolution	<ul style="list-style-type: none"> • If Adobe® Flash Player is not installed in your browser, vPV Home page does not appear. The browser displays a message stating that you must Install Adobe Flash Player to view the vPV Home Page. Click the message to download Adobe® Flash Player. • If Javascript is not enabled in your browser, vPV Home page does not appear in the IE browser even after adding it as a trusted site. The browser displays a message stating that Javascript is not enabled in your browser and you must enable Javascript to view the page. <p>To enable Javascript support, perform the following steps:</p> <p>For IE browser</p> <ol style="list-style-type: none"> a. From the Tools menu, click Internet Options. The Internet Options pop-up appears. b. Click the Security tab. Check if the security level in your browser settings is set to High. c. Make sure the Trusted Sites icon is selected and click Custom Level. The Security Settings pop-up appears. d. Scroll down to Scripting section and select the Enabled option under Active Scripting. e. Click OK. f. Click Apply. <p>For Mozilla Firefox browser:</p> <ol style="list-style-type: none"> a. From the Tools menu, click Options. b. Click Content. c. Select the Enable JavaScript check box. d. Click OK.
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HTTP Status 404 - /PV Error

Symptom	When trying to access vPV, you get the HTTP Status 404 - /PV Error message.
Cause	The message appears if the <INSTALLDIR>/www/webapps/PV directory is empty.
Resolution	Extract the Perf.war file again from <Install_Dir>/newconfig/PV to <Install_dir>/www/webapps/PV. Run the command <i>pv deploywar</i> .

What are the log files available with vPV?

The following table lists the log files available with vPV:

Component	Description	Location
pvcd (PV Collection Daemon)	<p>pvcd daemon uses XPL tracing mechanism. A default pvcdXPL.itc (trace configuration) is available in /opt/OV/support directory.</p> <p>To start the tracing, run <code>/opt/OV/support/ovtrccfg -app pvcd -cf /opt/OV/newconfig/conf/xpl/trc/pvcdXPL.itc</code> The XPL trace files are present at /tmp/pvcd_*.trc.</p> <p>To stop tracing, run <code>/opt/OV/support/ovtrccfg -app pvcd -off</code></p>	<p>If tracing is enabled, /tmp/ directory contains the trace files (use <code>ls /tmp/pvcd_*.trc</code>)</p>
	<p>pvcd and pvconfig tools log important status and error messages, if any, in System.txt.</p>	<p>/var/opt/OV/log/System.txt</p>
Collectors	<p>vCenter and OpenStack collector status log file /var/opt/OV/log/status.virtserver</p>	<p>/var/opt/OV/log/status.virtserver</p>
	<p>KVM collector status log file</p>	<p>/var/opt/OV/log/status.kvm</p>
	<p>XEN collector status log file</p>	<p>/var/opt/OV/log/tmp/status.xen</p>
Database Transaction	<p>Vertica catalog file to view database transactions</p>	<p>/var/opt/OV/databases/pv/catalog/pv/v_pv_node0001_catalog/vertica.log</p>
User Interface	<p>Local trace and log messages are logged in ovpmtrace.0.txt and ovpm.0.log</p>	<p>/var/opt/OV/log</p>

Appendix: RPMs Packaged with the vPV Virtual Appliance

The RPMs packaged with the vPV Virtual Appliance are as follows:

- setup-2.8.14-20.el6.noarch
- basesystem-10.0-4.el6.noarch
- tzdata-2012j-1.el6.noarch
- glibc-common-2.12-1.107.el6.x86_64
- ncurses-libs-5.7-3.20090208.el6.x86_64
- libattr-2.4.44-7.el6.x86_64
- zlib-1.2.3-29.el6.x86_64
- audit-libs-2.2-2.el6.x86_64
- popt-1.13-7.el6.x86_64
- db4-4.7.25-17.el6.x86_64
- nspr-4.9.2-1.el6.x86_64
- bzip2-libs-1.0.5-7.el6_0.x86_64
- libselinux-2.0.94-5.3.el6.x86_64
- sed-4.2.1-10.el6.x86_64
- glib2-2.22.5-7.el6.x86_64
- gawk-3.1.7-10.el6.x86_64
- sqlite-3.6.20-1.el6.x86_64
- libxml2-2.7.6-8.el6_3.4.x86_64
- libstdc4.4.7-3.el6.x86_64
- dbus-libs-1.2.24-7.el6_3.x86_64
- grep-2.6.3-3.el6.x86_64
- findutils-4.4.2-6.el6.x86_64
- cyrus-sasl-lib-2.1.23-13.el6_3.1.x86_64

- libblkid-2.17.2-12.9.el6.x86_64
- keyutils-libs-1.4-4.el6.x86_64
- libgssglue-0.1-11.el6.x86_64
- libgpg-error-1.7-4.el6.x86_64
- vim-minimal-7.2.411-1.8.el6.x86_64
- checkpolicy-2.0.22-1.el6.x86_64
- sysvinit-tools-2.87-4.dsf.el6.x86_64
- perl-Pod-Escapes-1.04-129.el6.x86_64
- perl-Module-Pluggable-3.90-129.el6.x86_64
- perl-libs-5.10.1-129.el6.x86_64
- pth-2.0.7-9.3.el6.x86_64
- keyutils-1.4-4.el6.x86_64
- grubby-7.0.15-3.el6.x86_64
- upstart-0.6.5-12.el6.x86_64
- libusb-0.1.12-23.el6.x86_64
- nss-softokn-3.12.9-11.el6.x86_64
- xz-lzma-compat-4.999.9-0.3.beta.20091007git.el6.x86_64
- MAKEDEV-3.24-6.el6.x86_64
- net-tools-1.60-110.el6_2.x86_64
- tar-1.23-11.el6.x86_64
- pinentry-0.7.6-6.el6.x86_64
- e2fsprogs-libs-1.41.12-14.el6.x86_64
- which-2.19-6.el6.x86_64
- diffutils-2.8.1-28.el6.x86_64
- dash-0.5.5.1-4.el6.x86_64
- groff-1.18.1.4-21.el6.x86_64

- coreutils-libs-8.4-19.el6.x86_64
- cracklib-2.8.16-4.el6.x86_64
- coreutils-8.4-19.el6.x86_64
- module-init-tools-3.9-21.el6.x86_64
- redhat-logos-60.0.14-12.el6.centos.noarch
- libpciaccess-0.13.1-2.el6.x86_64
- rpcbind-0.2.0-11.el6.x86_64
- nss-3.14.0.0-12.el6.x86_64
- nss-tools-3.14.0.0-12.el6.x86_64
- libuser-0.56.13-5.el6.x86_64
- pciutils-libs-3.1.10-2.el6.x86_64
- mingetty-1.08-5.el6.x86_64
- ustr-1.0.4-9.1.el6.x86_64
- libffi-3.0.5-3.2.el6.x86_64
- newt-0.52.11-3.el6.x86_64
- ca-certificates-2010.63-3.el6_1.5.noarch
- python-libs-2.6.6-36.el6.x86_64
- libssh2-1.4.2-1.el6.x86_64
- curl-7.19.7-35.el6.x86_64
- rpm-4.8.0-32.el6.x86_64
- python-pycurl-7.19.0-8.el6.x86_64
- gnupg2-2.0.14-4.el6.x86_64
- pygpgme-0.1-18.20090824bZR68.el6.x86_64
- yum-metadata-parser-1.1.2-16.el6.x86_64
- yum-plugin-fastestmirror-1.1.30-14.el6.noarch
- bind-libs-9.8.2-0.17.rc1.el6.x86_64

- fipscheck-lib-1.2.0-7.el6.x86_64
- kbd-misc-1.15-11.el6.noarch
- policycoreutils-2.0.83-19.30.el6.x86_64
- iproute-2.6.32-23.el6.x86_64
- util-linux-ng-2.17.2-12.9.el6.x86_64
- udev-147-2.46.el6.x86_64
- plymouth-0.8.3-27.el6.centos.x86_64
- dracut-004-303.el6.noarch
- rsyslog-5.8.10-6.el6.x86_64
- cyrus-sasl-2.1.23-13.el6_3.1.x86_64
- cronie-anacron-1.4.4-7.el6.x86_64
- crontabs-1.10-33.el6.noarch
- nfs-utils-1.2.3-36.el6.x86_64
- selinux-policy-3.7.19-195.el6.noarch
- kernel-firmware-2.6.32-358.el6.noarch
- dhclient-4.1.1-34.P1.el6.centos.x86_64
- system-config-firewall-base-1.2.27-5.el6.noarch
- bfa-firmware-3.0.3.1-1.el6.noarch
- iwl100-firmware-39.31.5.1-1.el6.noarch
- b43-openfwfw-5.2-4.el6.noarch
- aic94xx-firmware-30-2.el6.noarch
- iwl1000-firmware-39.31.5.1-1.el6.noarch
- authconfig-6.1.12-13.el6.x86_64
- gettext-0.17-16.el6.x86_64
- grub-0.97-81.el6.x86_64
- wget-1.12-1.8.el6.x86_64

- passwd-0.77-4.el6_2.2.x86_64
- audit-2.2-2.el6.x86_64
- acl-2.2.49-6.el6.x86_64
- ql2400-firmware-5.08.00-1.el6.noarch
- ql2100-firmware-1.19.38-3.1.el6.noarch
- libertas-usb8388-firmware-5.110.22.p23-3.1.el6.noarch
- ql2500-firmware-5.08.00-1.el6.noarch
- zd1211-firmware-1.4-4.el6.noarch
- rt61pci-firmware-1.2-7.el6.noarch
- ql2200-firmware-2.02.08-3.1.el6.noarch
- ipw2100-firmware-1.3-11.el6.noarch
- ipw2200-firmware-3.1-4.el6.noarch
- vmware-studio-vami-tools-2.6.0.0-631426.x86_64
- vmware-studio-vami-servicebase-2.6.0.0-631426.x86_64
- vmware-studio-vami-service-system-2.6.0.0-0.x86_64
- vmware-studio-vami-service-oaconfig-1.0.0.0-0.x86_64
- vmware-studio-appliance-config-2.6.0.0-130820235403.noarch
- vmware-studio-vami-login-2.6.0.0-631426.x86_64
- libgcc-4.4.7-3.el6.x86_64
- filesystem-2.4.30-3.el6.x86_64
- ncurses-base-5.7-3.20090208.el6.x86_64
- nss-softokn-freebl-3.12.9-11.el6.x86_64
- glibc-2.12-1.107.el6.x86_64
- bash-4.1.2-14.el6.x86_64
- libcap-2.16-5.5.el6.x86_64
- info-4.13a-8.el6.x86_64

- libcom_err-1.41.12-14.el6.x86_64
- chkconfig-1.3.49.3-2.el6.x86_64
- libacl-2.2.49-6.el6.x86_64
- nss-util-3.14.0.0-2.el6.x86_64
- libsepol-2.0.41-4.el6.x86_64
- shadow-utils-4.1.4.2-13.el6.x86_64
- gamin-0.1.10-9.el6.x86_64
- readline-6.0-4.el6.x86_64
- xz-libs-4.999.9-0.3.beta.20091007git.el6.x86_64
- libidn-1.18-2.el6.x86_64
- file-libs-5.04-15.el6.x86_64
- tcp_wrappers-libs-7.6-57.el6.x86_64
- pcre-7.8-6.el6.x86_64
- lua-5.1.4-4.1.el6.x86_64
- bzip2-1.0.5-7.el6_0.x86_64
- libuuid-2.17.2-12.9.el6.x86_64
- expat-2.0.1-11.el6_2.x86_64
- krb5-libs-1.10.3-10.el6.x86_64
- elfutils-libelf-0.152-1.el6.x86_64
- libtirpc-0.2.1-5.el6.x86_64
- libselinux-utils-2.0.94-5.3.el6.x86_64
- cpio-2.10-11.el6_3.x86_64
- gdbm-1.8.0-36.el6.x86_64
- perl-version-0.77-129.el6.x86_64
- perl-Pod-Simple-3.13-129.el6.x86_64
- perl-5.10.1-129.el6.x86_64

- libgcrypt-1.4.5-9.el6_2.2.x86_64
- dbus-glib-0.86-5.el6.x86_64
- libnih-1.0.1-7.el6.x86_64
- gmp-4.3.1-7.el6_2.2.x86_64
- file-5.04-15.el6.x86_64
- xz-4.999.9-0.3.beta.20091007git.el6.x86_64
- libutempter-1.1.5-4.1.el6.x86_64
- procps-3.2.8-25.el6.x86_64
- psmisc-22.6-15.el6_0.1.x86_64
- db4-utils-4.7.25-17.el6.x86_64
- libss-1.41.12-14.el6.x86_64
- m4-1.4.13-5.el6.x86_64
- libgomp-4.4.7-3.el6.x86_64
- binutils-2.20.51.0.2-5.36.el6.x86_64
- ncurses-5.7-3.20090208.el6.x86_64
- less-436-10.el6.x86_64
- gzip-1.3.12-18.el6.x86_64
- cracklib-dicts-2.8.16-4.el6.x86_64
- pam-1.1.1-13.el6.x86_64
- hwdata-0.233-7.9.el6.noarch
- plymouth-scripts-0.8.3-27.el6.centos.x86_64
- cvs-1.11.23-15.el6.x86_64
- logrotate-3.7.8-16.el6.x86_64
- nss-sysinit-3.14.0.0-12.el6.x86_64
- openldap-2.4.23-31.el6.x86_64
- libcap-ng-0.6.4-3.el6_0.1.x86_64

- ethtool-3.5-1.el6.x86_64
- libevent-1.4.13-4.el6.x86_64
- libsemanage-2.0.43-4.2.el6.x86_64
- slang-2.2.1-1.el6.x86_64
- plymouth-core-libs-0.8.3-27.el6.centos.x86_64
- openssl-1.0.0-27.el6.x86_64
- python-2.6.6-36.el6.x86_64
- libcurl-7.19.7-35.el6.x86_64
- rpm-libs-4.8.0-32.el6.x86_64
- rpm-python-4.8.0-32.el6.x86_64
- python-urlgrabber-3.9.1-8.el6.noarch
- gpgme-1.1.8-3.el6.x86_64
- newt-python-0.52.11-3.el6.x86_64
- python-iniparse-0.3.1-2.1.el6.noarch
- yum-3.2.29-40.el6.centos.noarch
- mysql-libs-5.1.66-2.el6_3.x86_64
- fipscheck-1.2.0-7.el6.x86_64
- centos-release-6-4.el6.centos.10.x86_64
- iptables-1.4.7-9.el6.x86_64
- iputils-20071127-16.el6.x86_64
- initscripts-9.03.38-1.el6.centos.x86_64
- libdrm-2.4.39-1.el6.x86_64
- kbd-1.15-11.el6.x86_64
- dracut-kernel-004-303.el6.noarch
- openssh-5.3p1-84.1.el6.x86_64
- postfix-2.6.6-2.2.el6_1.x86_64

- cronie-1.4.4-7.el6.x86_64
- nfs-utils-lib-1.1.5-6.el6.x86_64
- iptables-ipv6-1.4.7-9.el6.x86_64
- dhcp-common-4.1.1-34.P1.el6.centos.x86_64
- kernel-2.6.32-358.el6.x86_64
- selinux-policy-targeted-3.7.19-195.el6.noarch
- openssh-server-5.3p1-84.1.el6.x86_64
- iwl5150-firmware-8.24.2.2-1.el6.noarch
- iwl6050-firmware-41.28.5.1-2.el6.noarch
- iwl6000g2a-firmware-17.168.5.3-1.el6.noarch
- iwl6000-firmware-9.221.4.1-1.el6.noarch
- bind-utils-9.8.2-0.17.rc1.el6.x86_64
- man-1.6f-32.el6.x86_64
- libxml2-python-2.7.6-8.el6_3.4.x86_64
- gdb-7.2-60.el6.x86_64
- efibootmgr-0.5.4-10.el6.x86_64
- sudo-1.8.6p3-7.el6.x86_64
- e2fsprogs-1.41.12-14.el6.x86_64
- attr-2.4.44-7.el6.x86_64
- iwl5000-firmware-8.83.5.1_1-1.el6_1.1.noarch
- ivtv-firmware-20080701-20.2.noarch
- xorg-x11-drv-ati-firmware-6.99.99-1.el6.noarch
- atmel-firmware-1.3-7.el6.noarch
- iwl4965-firmware-228.61.2.24-2.1.el6.noarch
- iwl3945-firmware-15.32.2.9-4.el6.noarch
- rt73usb-firmware-1.8-7.el6.noarch

Installation Guide

Chapter 7: Appendix: RPMs Packaged with the vPV Virtual Appliance

- ql23xx-firmware-3.03.27-3.1.el6.noarch
- rootfiles-8.1-6.1.el6.noarch
- vmware-studio-init-2.6.0.0-130820235404.noarch
- vmware-studio-vami-cimom-2.6.0.0-631426.x86_64
- vmware-studio-vami-service-core-2.6.0.0-0.x86_64
- vmware-studio-vami-service-network-2.6.0.0-0.x86_64
- vmware-studio-vami-service-update-2.6.0.0-0.x86_64
- vmware-studio-vami-lighttpd-2.6.0.0-631426.x86_64

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Feedback on Installation Guide (Virtualization Performance Viewer 1.20)

Just add your feedback to the email and click send.

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