HP Virtualization Performance Viewer

For the Windows ® and Linux operating systems

Software Version: 1.00

Installation Guide

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Acknowledgements

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 (eay@cryptsoft.com)

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

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Chapter ˙%

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`.

Chapter 2

Installation Overview

This chapter provides information about the following:

- Operating systems on which the current version of vPV is 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" below.

vPV Installers

vPV is available in the following three forms:

- Linux-based installer

- Virtual appliance

- Archive Extractor

> **Note:** The Archive Extractor version is available only for the Windows operating system. It is a free version and cannot be upgraded to a licensed version.

Installation Requirements

During installation, HP Software Installer performs the following tasks:

- Checks if your system meets the disk space requirements. For information on the disk space see "Hardware Requirements" below.

- Checks if your system has any other HP software product installed.

- Provides a detailed log of what is detected.

- Provides a list of components installed.

Hardware Requirements

A minimum 4 GB of memory is needed for vPV to work. Installing on a slower system or one with less memory may result in slow performance.

Disk Space

The following table lists the minimum disk space required to install vPV on the different supported platforms.

Platform	Disk Space required
Linux	20 GB

Supported Browsers

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

Operating Systems	Supported Browsers
Microsoft Windows	Firefox 10 (ESR) and 16
	Internet Explorer 8 and 9
Linux	Firefox 10 (ESR) and 16

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
	CentOS 6.2
Virtual appliance	CentOS 6.2

Installation Pre-requisites

vPV does not co-exist with any other HP BTO Software products.

If there is a firewall on the system where vPV is installed, ensure that port 8081 is open to make vPV accessible from the remote browser. To access in HTTPS mode, port 8444 must be open. If there is a firewall between vPV and Microsoft System Center Virtual Machine Manager (SCVMM) server, ensure that the port used for accessing vPV (8081 by default) is open in the firewall.

To access the Virtual Appliance Management Interface (VAMI), the port 5480 must be opened.

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

Chapter 3

Installation Steps

The following section details the steps to install vPV:

- "Deploying the vPV Virtual Appliance" below
- "Installing vPV" on next page
- "Using the Archive Extractor" on page 13

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, and 5.1.

To deploy the vPV virtual appliance, follow these steps:

1. Open VMware vSphere Client.

2. Type the credentials and log in 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 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 appliance 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.

Installing vPV

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

- "Attended Installation" below

- "Unattended Installation" on page 13

Note: To install vPV on your systems, 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 X 11 interface, perform the following tasks:

1. Login as a root user.

2. Place the HP vPV 1.00 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/sytem_name>:0.0
   ```

4. Type the following:

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

   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 uninstalls the components, which are already installed. Clicking **Quit** stops the installation, but does not uninstall the components installed till then. When you begin installing vPV 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 requires to be restarted, the message, '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?' appears. It is recommended that you restart your system after installation, though it is not mandatory.

Installing HP vPV through Command Line Interface

To install vPV through Command Line interface:

1. Login as a root user.

2. Insert the HP vPV 1.00 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**

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 Install 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 1.00 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 URL `http://<systemname>:8081/PV`.

> **Note:** Use only the Fully Qualified Domain Name (FQDN) or IP address for `<systemname>`.

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

Installation Results

On successful installation:

- On the Linux systems, the application directory and data directory paths are displayed.

- 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.

Removing HP vPV

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

Removing the vPV Virtual Appliance

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

Uninstalling vPV on Linux

1. Log on as root user.

2. Change to the directory `/opt/OV/Uninstall/HPPV`.

3. Run the uninstall:

   - 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`

- Any folder which starts with the name "`VPI_`".

- All PV database related files

- Any folder which starts with the name "`VPI_`".

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