HP Virtualization Performance Viewer

Software Version: 2.01
Linux operating system

Getting Started Guide for Linux

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Chapter 1: Introduction

HP Virtualization Performance Viewer (HP vPV) is a web-based analysis and visualization tool that analyzes the 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. You can use HP vPV to do the following:

Performance Monitoring

- **Dashboard** provides quick and easy navigation to other HP vPV views.

- **Treemap** provides the graphical representation of the health of the environment. You can also identify and view the problems at a glance. Treemap provides quick analysis of the entities such as Datacenter, Host, or VMs.

- **Workbench** helps you to visualize and triage the performance of the monitored resources. You can troubleshoot problems that occurred in the past for a specific time period. You can draw and view graphs with the help of available metrics. Additionally, you can save frequently used graphs as favorites.

- **Alerts** help you to identify and troubleshoot the problems generated in your virtualized environment.

- **Real Time Guest Drill Down** detects overloads in the environment. You can drill down to determine the performance overload issue in VMs.

Capacity Analysis and Optimization

- **Capacity Overview** provides right size recommendation of the resources in the environment.

- **Placement** provides suggestions for adding new VMs based on available or reclaimable capacity.

- **Forecast** helps to project future capacity utilization levels of different resources for a predefined time period. Using the Forecast feature, you can determine the Days to Capacity information to make optimal allocation and placement.

- **Modeler** helps to determine the impact of adding or deleting resources in your environment. You can estimate the future capacity utilization to proactively plan your hardware requirements.

Chapter 2: Installing HP vPV

You can install HP vPV using the Linux based installer. For more information, see "Install HP vPV on Linux Nodes" on the next page.

Prerequisites

Following are the prerequisites for installing HP vPV:

- Ensure that port 8081 is open to make HP vPV accessible from the remote browser, if there is a firewall on the system where HP vPV is installed.

- Ensure that port 8444 is open to access in Hypertext Transfer Protocol Secure (HTTPS) mode.

- Ensure that the port used for accessing HP vPV (8081, by default) is open in the firewall, if there is a firewall between HP vPV and Microsoft System Center Virtual Machine Manager (SCVMM) server.

- Ensure that the port 5480 is open to access the Virtual Appliance Management Interface (VAMI).

Upgrade Scenarios

You can upgrade HP vPV *only* from version 2.00 to 2.01.

> **Note**: Make sure that you take a snapshot of HP vPV 2.00 machine before upgrading to 2.01 as rollback is not supported.

Upgrading HP vPV using the Installer

If you already have HP vPV version 2.00 installed in your environment and want to upgrade to version 2.01, you can upgrade using **.tar** or **.iso**. Download the **.tar** or **.iso** on your local machine and install HP vPV on the VM.

To install HP vPV on a VM, see "Install HP vPV on Linux Nodes" on the next page.

Verify the Upgrade

You can verify the upgrade to HP vPV version 2.01 by performing either of the following:

- In the HP vPV interface, go to the **Help** icon and click **About HP vPV**. A dialog box appears with the version information.

- Verify the version by running the following command at the command prompt:

  pv version

  > **Note:** After the upgrade, it is recommended to check the status of HP vPV processes using the following command:
  >
  > */opt/OV/bin/ovc*
  >
  > If any of the processes are not running, run the following command to restart the processes:
  >
  > *pv restart*

Install HP vPV on Linux Nodes

Pre-requisites for Linux-Based Installer

Following are the prerequisites for the Installer version of HP vPV:

- Install Libvirt and all its dependencies on the HP 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) 6.5 (64-bit)

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

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

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

The unixODBC Driver Manager is an Open Database Connectivity (ODBC) driver manager for providing application developers predictable APIs to access Data Sources.

- Ensure that the host name assigned to RHEL is a Fully Qualified Domain Name (FQDN) and is resolvable by DNS. If DNS is not configured in the environment, add the IP address machine name mapping in the /etc/hosts file.

- To install HP vPV, the following runtime libraries and packages are required:

  - On x64 systems:

    - glibc-2.3.4-2.36.i686.rpm

    - libgcc-3.4.6-8.i386.rpm

    - libstdc++-3.4.6-8.i386

    - libtool-ltdl-2.2.6-15.5.el6.x86_64.rpm

    - unixODBC-2.2.14-12.el6_3.x86_64.rpm

    - ntpdate-4.2.6p5-1.el6.x86_64.rpm

    - libedit-2.11-4.20080712cvs.1.el6.x86_64.rpm

    - ntp-4.2.6p5-1.el6.x86_64.rpm

    - gdb-7.2-60.el6_4.1.x86_64.rpm (for installing pstack)

    - mcelog-1.0pre3_20120814_2-0.13.el6.x86_64.rpm

    - sysstat-9.0.4-22.el6.x86_64.rpm

  - To check the packages, use the following command:

    ```
    rpm -qa | grep -i <packagename>
    ```

    In this instance, `<packagename>` is the name of the package to be checked for.

  - C++ runtime:

    - For systems with kernel version 2.6:

      /usr/lib/libstdc++.so.5

    - For systems with kernel version 2.6 on Itanium :

      /usr/lib/libstdc++.so.6

  - Curses runtime library:

/usr/lib/libncurses.so.5

- unixODBC runtime library:

  /usr/lib64/libodbc.so

- Make sure that the m4 utility is installed at the path **/usr/bin/m4**.

- Set the executable (x) bit for the libvirt library at one of the following paths as appropriate for your environment:

  - **/usr/lib64/libvirt.so**

  - **/usr/lib64/libvirt.so.0**

  - **/usr/lib/libvirt.so**

  - **/usr/lib/libvirt.so.0**

- To set the time zone, run the following command:

  ```
  # env | grep TZ
  ```

  ```
  TZ=EST5EDT
  ```

Pre-requisites for HP Vertica:

- HP Vertica does not support Logical Volume Manager (LVM) on any drive where database files are stored. HP vPV installer will exit if /var/opt partition is LVM.

- Linux File system type must be either **ext3** or **ext4**. All other filesystem types are not supported.

- Swap partition of at least 2 GB or larger is required irrespective of the amount of RAM installed on the system.

- Minimum 1 GB of RAM per logical processor.

For more information on the prerequisites for HP Vertica, see *HP Vertica Analytic Database Installation Guide*.

You can install HP vPV by using any of the following procedures:

- "Attended Installation"

- "Unattended Installation"

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

Attended Installation

To install HP vPV through graphical and command line interface, follow these steps:

Installing HP vPV through Graphical Interface

To install HP 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_2.01.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.

   If you have configured the locale of the system to one of the following languages: English, Japanese, and Simplified Chinese, the installer prompts you to select the language at the beginning of the installation. You will have the option of choosing the language to which your system locale is set. If the system locale is set to any other language apart from these, the installer displays only 'English'.

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.

> **Note**: If HP vPV version 2.00 is present on the system, you would be asked to do a forced re-installation of already installed component packages.

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 HP vPV installation next time, the Installer prompts you to confirm if you want to resume the installation or uninstall HP 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 HP vPV in console mode. As a result, some text may be illegible.

To install HP vPV through Command Line interface, follow these steps:

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 HP vPV on a stand-alone system:

   <CD/DVDROM_mount>/HPPV_2.01.xxx_setup**.bin -i console**

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

   If you have configured the locale of the system to one of the following languages: English, Japanese, and Simplified Chinese, the installer prompts you to select the language at the beginning of the installation. You will have the option of choosing the language to which your system locale is set. If the system locale is set to any other language apart from these, the installer displays only 'English'.

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.

   Note: If HP vPV version 2.00 is present on the system, you would asked to do a forced re-installation of already installed component packages. Select Yes to continue.

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, follow these steps:

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_2.01.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 HP vPV.

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

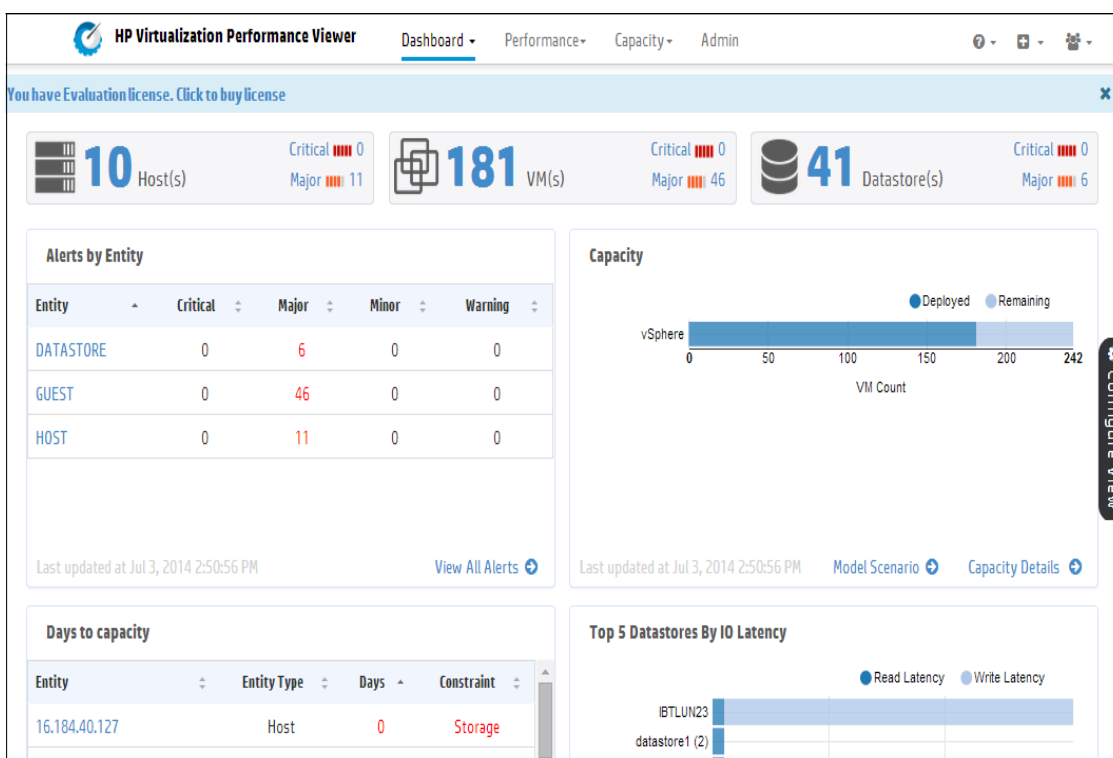You can view the HP vPV installer log file at `/tmp/HPOvInstaller/HPPVInstallLog.txt`

Chapter 3: Accessing the HP vPV interface

After HP vPV is installed successfully, access the HP vPV interface using one of the following URLs:
http://<system_name>:8081/PV or **https://<system_name>:8444/PV**

where, <system_name> is the system name of the HP vPV server.

> **Note:** PV is case sensitive.

HP vPV Interface appears as:

Adding Data Sources

When accessing HP vPV interface for the first time after installation, **Data Sources** tab in the **Admin** page opens. Provide the details of the data sources that HP vPV must monitor.

HP vPV supports the following data sources:

- VMware vCenter

- Microsoft Hyper-V

- KVM

- Xen

- OpenStack

- HP aPaaS

For more information on adding data sources, open the **Data Sources** tab on the **Admin** page and click
 ⦿ ▾ **Help** or see *Virtualization Performance Viewer Online Help*. This opens the context-sensitive help for the Data Sources tab.

Chapter 4: Licensing

The following types of licenses are available for HP vPV:

- **Community:** The product is free for you to use but certain features are restricted.

- **Evaluation:** You can use the evaluation version of the product, without any feature restrictions, for a period of 60 days. During this period, you can evaluate the product and if required upgrade to the permanent licensed version of the product. For more information on the features available with this license, go to http://www.hp.com/go/vpv.

- **Express:** You can use the product but certain features are restricted. The license is valid for a defined subscription period. The validity starts on a date as per the order placed by the subscriber and the capacity value is decided based on the subscription.

- **Premium:** You can use all the product features without any restrictions. Premium license is valid for a defined subscription period. The validity starts on a date as per the order placed by the subscriber and the capacity value is decided based on the subscription.

Types of Licenses

The following table lists the available features for the Community, Express, Premium, and Evaluation HP 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 HP 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 OM, 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

Feature	Community License	Express License	Premium License	Evaluation License
Current Capacity Reports (Only for VMware™ vSphere and Microsoft™ HyperV)	No	No	Yes	Yes
Best-fit Capacity Optimization (Only for VMware™ vSphere and Microsoft™ HyperV)	No	No	Yes	Yes
Virtual Machine Placement (Only for VMware™ vSphere)	No	No	Yes	Yes
Capacity Demand Forecast (Only for VMware™ vSphere and Microsoft™ HyperV)	No	No	Yes	Yes
Alerting (Only for VMware™ vSphere)	No	Yes	Yes	Yes
Capacity Modeler (Only for VMware™ vSphere)	No	No	Yes	Yes
Dashboard	No	No	Yes	Yes

Activating the Evaluation License

To activate the evaluation license, follow these steps:

1. Go to the **License Management** tab in the **Admin** page.

2. Click **Start Evaluation**. The evaluation license is activated.

> **Note:** The evaluation license expires after 60 days and the community license is activated. All product features are available for the Evaluation License. The only difference between the Evaluation License and Premium License is the validity. For more information on licensing, see *License Management* section in *Virtualization Performance Viewer Installation Guide.*

Chapter 5: Troubleshooting

The following section details how to troubleshoot HP 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	Vertica database consolidates and retains the log data in a **.gz** file daily. By default, this process (called 'rotate') continues for 52 weeks.

Resolution	To create more space on the Vertica database implement any one of the two solutions below:
	
	Solution 1
	
	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.
	
	    For example: **rotate 3**
	
	    In this instance, the Vertica database will retain the **.gz** files for 3 weeks.
	
	4. Repeat **step 3** for all instances of **# and keep for 52 weeks**.
	
	5. Save and close the file.
	
	Solution 2
	
	1. Login as a root user.
	
	2. Run the following commands on the HP vPV server:
	
	    `cd /opt/vertica/bin`
	
	    `./admintools -t logrotate -d pv -r weekly -k <number_of_weeks>`
	
	    where, *<number_of_weeks>* is the number of weeks for which you want to retain the rotated logs.

Unable to Access HP vPV

Symptom	Unable to access HP vPV through the default network port settings.

Causes	• Your system has **ovTomcatB** configured to run with the non-root user or non-local system account privileges and you have HP vPV installed on such a system. • You cannot access HP vPV using the default http (8081) or https (8444) ports if these ports are in use by other applications.
Resolution	• 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 HP vPV by using 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 HP vPV server and *<port number>* is the port number of the HP vPV server. If the HP vPV Home page does not appear, check if the default ports are in use. • To change the port settings, follow these steps: 1. Run the following command at the command prompt to change the port numbers for HTTP, HTTPS, and Shutdown Ports: *<bin_dir>ovconfchg -ns NONOV.TomcatB -set HTTPPort <port number>* *<bin_dir>ovconfchg -ns NONOV.TomcatB -set HTTPSPort <port number>* *<bin_dir>ovconfchg -ns NONOV.TomcatB -set ShutdownPort <port number>* 2. Restart HP vPV.

Unable to connect to HP vPV server through HTTPS protocol

Symptom	HP vPV is unable to connect to the server through secure communication (HTTPS) protocol.
Cause	The connection times out when HP 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 HP vPV server depending on your Internet connectivity or infrastructure setup.

Unable to view content on HP vPV home page

Symptom	The HP 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	Install Adobe® Flash Player and enable JavaScript support for the Internet Explorer (IE) or Mozilla Firefox browser by adding HP vPV to your list of Trusted Sites.
	• To add HP vPV Web server URL to a trusted site, perform the following steps:
	For IE browser
	a. From the Tools menu, click **Internet Options**. The Internet Options pop-up window appears.
	b. Click **Security** tab.
	c. Select the **Trusted Sites** icon.
	d. Click **Sites**. The Trusted Sites pop-up window appears.
	e. Type the HP 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.
	For Mozilla Firefox browser
	a. From the **Edit** menu, click **Preferences**. The Options pop-up window appears.
	b. Click **Privacy** tab.
	c. Click **Exceptions**.
	d. Type the HP 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.

- If Adobe® Flash Player is not installed in your browser, HP vPV Home page does not appear. The browser displays a message stating that you must Install Adobe Flash Player to view the HP vPV Home Page. Click the message to download Adobe® Flash Player.

- If JavaScript is not enabled in your browser, HP 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.

To enable JavaScript support, perform the following steps:

For IE browser:

a. From the **Tools** menu, click **Internet Options**. The Internet Options pop-up window 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 window appears.

d. Scroll down to Scripting section and select the **Enabled** option under **Active Scripting**.

e. Click **OK**.

f. Click **Apply**.

For Mozilla Firefox browser:

a. From the Tools menu, click **Options**.

b. Click **Content**.

c. Select the **Enable JavaScript** check box.

d. Click **OK**.

HTTP Status 404 - /PV Error

Symptom	When trying to access HP 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 *pv deploywar*.

What are the log files available with HP vPV?

The following table lists the log files available with HP vPV:

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

Chapter 6: HP vPV Community

You can get HP vPV related information from the HP vPV Community through the following:

HP vPV Blogs

You can get more information and use cases for HP vPV in HP vPV Blog

HP vPV Videos

You can view HP vPV demonstration videos and tutorials in HP vPV Videos.

HP vPV Community Forum

You can access the HP vPV community forum to get help and ask any questions that you may have. You can address any queries regarding HP vPV in the HP vPV forum.

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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.

We appreciate your feedback!