

HP Performance Agent Deployables

for the HP-UX, Linux and Sun Solaris Operating Systems

Software Version: 9.00 for HP Operations Manager for UNIX 8.x and 9.0

User Guide

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1 Introduction to HP Performance Agent Deployables

HP Performance Agent integrates with HP Operations Manager(HPOM) for UNIX on HP-UX, Linux and on Sun Solaris. After installing HP Performance Agent deployables on the management server, you can perform the following tasks from the management server:

- Deploy HP Performance Agent on the managed nodes.
- Configure HP Performance Agent from the management server, using a set of ConfigFile policies.
- Manage HP Performance Agent from the management server, using a set of pre configured tools.

To deploy, configure and manage HP Performance Agent from the management server, log on to the Operations Manager for UNIX system.



- The HP Performance Agent Deployables is supported on HPOM for UNIX version 8.x on HP-UX and Sun Solaris platforms.
- The HP Performance Agent Deployables is supported on HPOM for UNIX version 9.0 on HP-UX and Linux platforms.

For detail on tasks related to HPOM for UNIX, see the documentation for HPOM for UNIX.

Configuring settings for Managed Nodes

This section describes the configurations required on managed nodes for deploying and undeploying HP Performance Agent.

- If HP Operations HTTPS Agent is running as non-root on managed node, and if sudo utility (www.sudo.ws) is used, then the following entry needs to be present in **/etc/sudoers** configuration file

```
<non-root user> <Managed Node> =(root) NOPASSWD: /tmp/ovpa_tmp/  
ovpa_inst
```

- For Windows managed nodes, DCOM needs to be configured for deploying and un-deploying HP Performance Agent. HP Operations Agent can be configured to run as Administrator or any user (for example "HP ITO Account") with administrative privileges. HP Performance Agent is deployed under this HP Operations Agent user context. You need to make sure that DCOM is configured to grant "launch permission" for the HP Operations Agent user.

NOTE: By default the local Administrator will have launch permission in DCOM settings.

Configuring DCOM setting

This section describes the steps to configure DCOM setting on Windows XP, Windows 2003 and Windows 2000.

Windows XP and 2003

- 1 Click **Start>Run**, enter **dcomcnfg**.
- 2 Click **Component Services>My Computer>DCOM Config**.
- 3 Right click on **IIS Admin Service**, then select **Properties**.
- 4 Click the **Security** tab.
- 5 Under **Launch Permissions**, click **Customize** and click the **Edit** button.
- 6 Verify that the Local Administrators have launch permission.

Windows 2000

- 1 Click **Start>Run**, enter **dcomcnfg**.
- 2 Click **Default Security Tab**.
- 3 Under **Default launch permissions**, click **Edit default**.
- 4 If there is no entry for Local Administrator allowing launch permissions, you need to add one by clicking the **Add** button.
- 5 Under **List names from:** select the local box.
- 6 Select **Administrators** and click the **Add** button. Select **Allow Launch** type when adding local administrators.

Prerequisites for Managed Nodes

If the managed node is Windows 2000 system, you need the `fsutil.exe` file in **Windows>system32** directory. The file checks for the disk space required for deploying HP Performance Agent.

If `fsutil.exe` is not present in the system by default, you need to copy the file from the **SystemRoot>System32** folder on a Windows XP-or-later-based computer to the local drive on the Windows 2000-based computer.

HP Performance Agent on HPOM for UNIX version 8.x

This section describes how HP Performance Agent integrates with HPOM for UNIX version 8.x on HP-UX and Sun Solaris platforms.

Deploying and Undeploying HP Performance Agent on Managed Node

You can deploy and undeploy HP Performance Agent on managed nodes from the HPOM for UNIX version 8.x on HP-UX and Sun Solaris platforms.

Deploying Performance Agent

To deploy Performance Agent on a managed node, follow these steps:

- 1 In the **Root** window, click **Node Group Bank** icon. The **OVO Node Bank** window appears. This window displays all the nodes.

- 2 In the **OVO Node Bank** window, select the node on which you want to deploy Performance Agent.
- 3 On the menu bar in the **OVO Node Bank** window, click **Actions>Subagents>Install/Update....**
- 4 The **Install/Update Subagents** window appears. Select **OV Performance Agent** and click **OK**.
This will deploy Performance Agent on the selected node.

Undeploying Performance Agent

To undeploy Performance Agent on a managed node, follow these steps:

- 1 In the **Root** window, click the **Node Group Bank** icon. The **OVO Node Bank** window appears. This window displays all the nodes.
- 2 In the **OVO Node Bank** window, select the node from which you want to undeploy Performance Agent.
- 3 On the menu bar in the **OVO Node Bank** window, click **Actions>Subagents>Deinstall....**
- 4 The **Deinstall Subagents** window appears. Select **OV Performance Agent** and click **OK**.
This will undeploy Performance Agent from the selected node.

Using application bank

This section describes the configurations required to use applications bank functionality of HP Performance Agent and HP GlancePlus on HPOM for UNIX version 8.x on HP-UX and Sun Solaris platforms.

You need to make sure that the following file sets are installed on the management server before you start configuring:

- For, HP-UX:
The file set `HPOvPAdep.HPOvPAINT` needs to be installed.
- For, Sun Solaris:
The file `HPOvPAInt` needs to be installed.

Now, log on to the system as **opc_adm** to configure the application bank. To configure, you need to perform the following steps:

Add Node to a Node Group

The nodes accessed by HP Performance Agent needs to be in a node group. To add node to a node group, follow these steps:

- 1 In the **Root** window, click **Node Group Bank** icon. The **OVO Node Bank** window appears. This window displays all the nodes.
- 2 On the menu bar in the **Root** window, click **Window>Node Group Bank**. The **OVO Node Group Bank** window appears. This window displays all the node groups.
- 3 Select the required node from the **OVO Node Bank** window. Drag and drop the selected node on an existing or newly created node group in the **OVO Node Group Bank** window.

Assign responsibilities to `opc_adm`

To assign responsibilities to `opc_adm`, follow these steps:

- 1 On the menu bar in the **Root** window, click **Window>User Bank**. The **OVO User Bank** window appears which displays the `opc_adm` user icon.
- 2 Select the `opc_adm` user icon and click **Actions>User>Modify**.
- 3 The **Modify User:opc_adm** window appears. Click the **Responsibilities** button.
- 4 The **Responsibilities for Operator [opc_adm]** window appears. Click the button that corresponds to the **Performance** message group and the **Node Group** where the desired node is placed and click **Close** to close the window.
- 5 Click **OK** on the **Modify User:opc_adm** window to apply the responsibilities.

Select and Deploy Templates

To select and deploy templates, follow these steps:

- 1 In the **Root** window, click **OVO Node Bank** icon. The **OVO Node Bank** window appears. This window contains all the nodes.
- 2 Select the nodes to which you want to assign templates and click **Actions>Agents>Assign Templates....**
- 3 The **Define Configuration** window appears. Click the **Add** button.
- 4 The **Add Configuration** window appears. Click **Open Template Window....**
- 5 The **Message Source Templates 1 [opc_adm]** window appears. Click **OpenView Performance**.
- 6 The **Add Configuration** window appears. Click **Get Template Selections** and click **OK**. The **OpenView Performance** templates for the selected nodes are added to the **Define Configuration** window and **Add Configuration** window is closed.
- 7 To close the **Message Source Templates 1 [opc_adm]** window, click **templates** and then click **Close**.
- 8 Click **OK** on the **Define Configuration** window.
- 9 To deploy the selected templates, click **OVO Node Bank** and then click **Actions>Agents>Install / Update SW & Config...**
- 10 The **Install / Update OVO Software and Configuration** window appears. De-Select **Agent Software** and click **Templates, Actions, Commands, and Monitors** to select the components.
- 11 Click **OK** to deploy the agent to the node.

Removing HP Performance Agent Deployables

To remove the installed HP Performance Agent deployables from management server, follow these steps:

- 1 Login as **root** user, and type the following command:

```
swremove HPOvPADep
```

HP Performance Agent on HPOM for UNIX version 9.0

This section describes how HP Performance Agent integrates with HPOM for UNIX version 9.0 on HP-UX platform.

- ▶ HPOM for UNIX version 9.0 is supported only on HP-UX 11i v3.

This section also describes how HP Performance Agent integrates with HPOM for UNIX version 9.0 on Linux platform.

Deploying and Undeploying HP Performance Agent on Managed Node

You can deploy and undeploy HP Performance Agent on a managed node from HPOM for UNIX version 9.0 on HP-UX and Linux platforms.

Deploying Performance Agent

To deploy HP Performance Agent on a managed node, follow these steps:

- 1 Assign Policy to Node
- 2 Deploy Performance Agent


Assigning Policy to Node

You need to assign the platform specific policy *PA_Deploy_<platform>*, to the node on which you want to deploy Performance Agent. For example, if the node is AIX platform, you need to assign the **PA_Deploy_AIX** policy to the node.

Note: The policies available for a node on HP-UX platform are PA_Deploy_HP_1111, PA_Deploy_HP_1123 and PA_Deploy_HP_1131. You need to assign the policy which is specific to a particular HP-UX platform node. For example, assign PA_Deploy_HP_1111 to the node on HP-UX 11.11.

For details on policies refer to the section [Policies](#) on page 15.

To assign the policy to the node, follow these steps:

- 1 On the Menu Bar of the Operations Manager for UNIX user interface, click **Browse>All Nodes**. The **All Nodes** page appears.
- 2 Select the node to which you want to assign the policy.
- 3 Click the actions list . A drop-down menu appears. Select the action **Assign Policies/Policy Groups ...** from the drop-down menu. Click the **>>** button. The **Selector** window appears where you can filter the platform specific policy that you want to assign.
- 4 Specify the filter criteria and click the **Filter** button. The specified policy displays.
- 5 Select the policy and click **OK**. The selected policy is assigned to the selected node.

You can now deploy Performance Agent on the managed node.

Deploying Performance Agent on the node

After assigning policy to the node, you need to deploy Performance Agent on the node. You can deploy Performance Agent on multiple nodes at the same time if you have assigned the required policies to the nodes on which you want to deploy Performance Agent.


To deploy Performance Agent, follow these steps:

- 1 On the Menu Bar of the Operations Manager for UNIX user interface, click **Deployment > Deploy Configuration**. The **Deploy Configuration** page appears.
- 2 Select the **Subagents** check box.
- 3 Click the **Select...** button. The **Selector** window appears where you can filter the managed nodes or list of managed nodes to which you want to deploy Performance Agent.
- 4 Specify the filter criteria for the node and click the **Filter** button. The node or list of nodes that meet the filter criteria displays.
- 5 Double-click a **Node** to select the node. The selected node moves to the window under the **Select...** button. If you want to remove a node from the selected list of managed nodes, select the node and click the **X** button.
- 6 Check the **Force Update** option if you want to overwrite existing data on the managed node during the distribution.
- 7 To install Performance Agent, click the **Distribute** button.

You can now configure HP Performance Agent on a managed node.

Undeploying Performance Agent

To undeploy HP Performance Agent from a managed node, follow these steps:

- 1 On the Menu Bar of the Operations Manager for UNIX user interface, click **Browse>All Nodes**. The **All Nodes** page appears.
- 2 Select the node check box from which you want to undeploy Performance Agent.
- 3 Click the actions list . A drop-down menu appears. Select the action **Uninstall Sub-Agent...** from the drop-down menu. A new window appears. Include a comment in the **Comment** field. Click the ... button provided against the **select a sub-agent policy** field to select the PA sub-agent policy that you want to undeploy. The **Selector** window appears where you can specify the PA sub-agent policy.
- 4 In the **Selector** window, enter **PA** in the **Name** field and click the **Filter** button. All policies related to the Performance Agent Deployables appears. Double-click the PA sub-agent policy that you want to undeploy to select it.
- 5 The selected PA sub-agent policy displays in the **select a sub-agent policy** field.
- 6 To undeploy, click the **OK** button.

This will undeploy Performance Agent from the selected node.

Configuring HP Performance Agent on Managed Node

You can configure HP Performance Agent from the management server using a set of ConfigFile policies.

To configure HP Performance Agent on a managed node, follow these steps:



- 1 Assign Category to Node
- 2 Assign Category to Policy
- 3 Assign Policy to Node
- 4 Deploy Configuration

Assigning Category to Node

You need to assign the **VP_Perf_Agt** category to the node on which Performance Agent is deployed.

The **VP_Perf_Agt** category gets installed when you install Performance Agent Deployables.

To assign the category to the node, follow these steps:

- 1 On the Menu Bar of the Operations Manager for UNIX user interface, click **Browse>All Categories**. The **All Categories** page appears. This page lists all the categories that are available.
- 2 Select **VP_Perf_Agt**.
- 3 Click the actions list . A drop-down menu appears. Select the action **Assign to Node ...** from the drop-down menu. The **Selector** window appears where you can specify the managed nodes to which you want to assign the category.
- 4 Specify the node and click the **Filter** button. The specified node displays.
- 5 Select the node and click **OK** to assign the category to that node.
- 6 Click the browse list . A drop-down menu appears. Select **Nodes** from the drop-down menu to view if the **VP_Perf_Agent** category is assigned to the node.



You need to assign category to policy after the category is assigned to the node.

Assigning Category to Policy

You need to assign the **VP_Perf_Agt** category to the policy after assigning the category to the node. The policy should be specific to the platform on which the node is created.

For example, if the node is AIX platform, the **VP_Perf_Agt** category should be assigned to `parm_AIX` and `alarmdef_AIX`.


To assign the **VP_Perf_Agt** category to a policy, follow these steps:

- 1 On the Menu Bar of the Operations Manager for UNIX user interface, click **Browse> All Categories**. The **All Categories** page appears. This page lists all the categories that are available.
- 2 Select **VP_Perf_Agt**.
- 3 Click the actions list . A drop-down menu appears. Select the action **Assign to policy ...** from the drop-down menu. The **Selector** window appears where you can specify the policy to which you want to assign the category.
- 4 Specify the policy and click the **Filter** button. The specified policy displays.
- 5 Select the policy and click **OK**. The policy is assigned to the category.
- 6 Click the browse list . A drop-down menu appears. Select **Policies** from the drop-down menu to view if **VP_Perf_Agent** category is assigned to the policy.

Assigning Policy to Node

You need to assign the policies `parm_<platform>` and `alarmdef_<platform>` to the node. The policies should be specific to the platform on which the node is created.

To assign a policy to the node, follow these steps:

- 1 On the Menu Bar of the Operations Manager for UNIX user interface, click **Browse>All Nodes**. The **All Nodes** page appears.
- 2 Select the node to which you want to assign the policy.
- 3 Click the actions list . A drop-down menu appears. Select the action **Assign Policies\Policy Groups ...** from the drop-down menu. The **Selector** window appears where you can specify the policy that you want to assign to the node.
- 4 Specify the policy and click the **Filter** button. The specified policy displays.
- 5 Select the policy and click **OK**. The selected policy is assigned to the selected node.

You can deploy the configuration after you assign the policies to the node.

Deploying Configuration

To deploy configuration on the node, you need to configure a package for distribution to the node. The package can contain instrumentation data such as policies, actions, commands, monitors, and node information or flexible management configuration data.

To deploy configuration, follow these steps:

- 1 On the Menu Bar of the Operations Manager for UNIX user interface, click **Deployment > Deploy Configuration**. The **Deploy Configuration** page appears.
- 2 Select all the instrumentation data check box except **Subagents**.
- 3 Click the **Select...** button. The **Selector** window appears where you can filter the node to which you want to deploy configuration.
- 4 Specify the filter criteria for the node and click the **Filter** button. The specified node displays.
- 5 Double-click the **Node** to select the node. If you want to remove a node from the selected list of managed nodes, select the node and click the **X** button.
- 6 Check the **Force Update** option if you want to overwrite existing data on the managed node during the distribution.
- 7 To transfer the configuration data to the node, click the **Distribute** button.

Managing HP Performance Agent on Managed Node

You can manage HP Performance Agent from the management server using a set of pre configured tools.

Certain applications, scripts and commands that help you execute different tasks to manage Performance Agent get installed when you deploy Performance Agent. These are the tools that make managing your environment easier.

Select **Browse>All Tool Groups>Performance Agent** to view all the tools that get installed when you install Performance Agent Deployables. For details on tools refer to the section [Tools](#) on page 16.

To manage HP Performance Agent from the management server, follow these steps:

- 1 On the Menu Bar of the Operations Manager for UNIX user interface, click **Browse> All Tools Group**. The **All Tool Group** page appears.

- 2 Select the **Performance Agent** tool group and select the action **Assign to Users/Profiles** from the action list. The **Selector** window appears where you can specify the user.
- 3 Enter **opc_adm** and click **Filter**. The **opc_adm** user displays.
- 4 Select the **opc_adm** user and click **OK**.
- 5 Select **Integrations> OMU Operationals UI**. The **Java User Interface** appears.
- 6 Select **Tools**. Click the **+** button to expand the list.
- 7 Select **Performance Agent**. Expand **Performance Agent** to view the list of tools associated with Performance Agent.
- 8 Select the Tool depending on the task that you want to execute. Right-click the selected **Tool** and select **Start customize**. The **Start Tool- Customized Wizard** window opens.
- 9 Select the node and click **Finish** to execute the task on that node.

If you select the **Start/Stop/Restart** tool or the **Post Deploy Status** tool, you need to click the **Next** button and enter or edit **Additional Parameter** details. Click **Finish** to assign the task to the node.

For more information on tools, refer to the *HP Operations Manager for UNIX Online Help*.

Related Policies and Tools in HPOM for UNIX version 9.0

Certain Policies and Tools are installed on the management server when you install Performance Agent Deployables.

Policies

A policy is a set of one or more specifications and rules that help configure nodes on a network.

The following table describes all the policies that are installed on the management server when you install Performance Agent Deployables.

Policies	Description
Alarmdef_AIX	Alarm definition configuration file for AIX node
Alarmdef_HP	Alarm definition configuration file for HP_UX node
Alarmdef_Linux	Alarm definition configuration file for Linux node
Alarmdef_Solaris	Alarm definition configuration file for Solaris node
Alarmdef_WIN	Alarm definition configuration file for Windows node
PA_Deploy_AIX	Performance Agent deployable policy for AIX node
PA_Deploy_HP_1111	Performance Agent deployable policy for HP_UX 11.11 node

Policies	Description
PA_Deploy_HP_1123	Performance Agent deployable policy for HP_UX 11.23 node
PA_Deploy_HP_1131	Performance Agent deployable policy for HP_UX 11.31 node
PA_Deploy_Linux	Performance Agent deployable policy for Linux node
PA_Deploy_Solaris	Performance Agent deployable policy for Solaris Node
PA_Deploy_WIN	Performance Agent deployable policy for Windows node
Parm_AIX	Collection parameter configuration file for AIX node
Parm_HP	Collection parameter configuration file for HP_UX node
Parm_Linux	Collection parameter configuration file for Linux node
Parm_Solaris	Collection parameter configuration file for Solaris Node
Parm_WIN	Collection parameter configuration file for Windows node

Tools

Tools are applications, scripts, and commands that help you perform necessary tasks in your environment, such as launching corrective actions or diagnostic tools.

The following table describes all the policies that are installed on the management server when you install Performance Agent Deployables.

Tools	Description
Check alarmdef	Lets you check the syntax of alarmdef file of Performance Agent
Check parm	Lets you check the syntax of parm file of Performance Agent
Restart Alarm	Lets you restart alarm service of Performance Agent
Restart Perf Agt	Lets you restart Performance Agent
Scan Log Files	Lets you scan the log files of Performance Agent
Start/Stop/Restart Subsystems	Lets you Start/Stop/Restart Subsystems of Performance Agent. For details refer to the <i>HP Operations Manager for UNIX Online Help</i>

Tools	Description
Start Perf Agt	Lets you start Performance Agent on the managed node
Stop Perf Agt	Lets you stop Performance Agent on the managed node
View Data Comm Type	Lets you view the data communication protocol used by Performance Agent
Status Perf Agt	Lets you view the status of Performance Agent daemons on the managed node
Tail Status Files	Lets you view the last few lines of Performance Agent status files
Post Deploy Status	Lets you view the contents of the log file which contains status information about the deployment of configuration files (alarmdef/parm)and any associated error messages
List Versions	Let you view the version of Performance Agent binaries on the managed node

Glossary

Category

A category is a logical classification of policies or nodes. You can use categories to associate policies with instrumentation, nodes, and with user profiles. If you associate policies with instrumentation using categories, you can ensure that the appropriate instrumentation is deployed at the same time as the policy it is associated with.

Policy

A policy is a set of one or more specifications and rules that help configure nodes on a network.

Tools

Tools are applications, scripts, and commands that help you perform necessary tasks in your environment, such as launching corrective actions or diagnostic tools.

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