

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

Installation Guide

Document Release Date: August 2009

Software Release Date: August 2009



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1 HP Performance Agent Deployables

HP Performance Agent can be integrated with HP Operations Manager (HPOM) for UNIX, HPOM for Sun Solaris and HPOM for Linux.



- 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, Solaris, and Linux platforms.

About This Document

This Install Guide provide instructions on install, upgrade and remove details of HP Performance Agent deployables version 9.00 on the following management servers:

- HPOM for UNIX version 8.x on HP-UX
- HPOM for UNIX version 8.x on Sun Solaris
- HPOM for UNIX version 9.0 on HP-UX
- HPOM for UNIX version 9.0 on Linux
- HPOM for UNIX version 9.0 on Sun Solaris

This document also provides details on the following:

- Known Problems and Workarounds.

In this Version

This release of HP Performance Agent deployables, provides you with the following:

- HP Performance Agent deployables, version 9.00 can be installed on HPOM for UNIX version 8.x on HP-UX and Sun Solaris, and on HPOM for UNIX version 9.0 on HP-UX, Solaris, and Linux.
- You can centrally deploy, configure and manage HP Performance Agent from HP Operations Manager for UNIX.

To deploy, configure and manage HP Performance Agent, you need to install the HP Performance Agent deployables on the management server.

- HP Performance Agent version 5.00 is supported on all platforms for HPOM for UNIX version 8.x on HP-UX and Sun Solaris, and on HPOM for UNIX version 9.0 on HP-UX, Solaris, and Linux.



HP Performance Agent deployables version 9.00 does not include Performance Agent for Tru64.

Installation Prerequisite

Before installing the HP Performance Agent deployables you need to make sure that the required HP Operations Manager for UNIX is installed on the system.

Installation Requirements

Before installing the HP Performance Agent deployables package, make sure that your system meets the following requirements:

Hardware Requirements

Management server: Disk space of 1 GB required on the OvDataDir (var/opt/OV) directory.

Managed node: Disk space of 900 MB required in the \tmp directory.

Known Problems and Workarounds

Defect ID	None.
Problem	After deploying HP Performance Agent 5.00 on the local OMU server node, HP Operations Agent/Network Node Manager processes might not be started.
Workaround	Control Core components will be updated. Restart of HP Operations Agent/Network Node Manager process is recommended. (Cluster machines should be put into maintenance mode before restart.)
Defect ID	None.
Problem	On Unix nodes with HP Operations Agent 8.X HTTPS agent, if HP Operations Agent is running as non-root, then after deploying HP Performance Agent 5.00 some of the HP Operations Agent daemons may run as root.
Defect ID	QCCR1A95227
Problem	If you undeploy Performance Agent from a node and try to deploy again on the same node, it will not deploy Performance Agent on that node. Performance Agent 5.00 deployment requires policy assignment for every deployments from HPOM for UNIX version 9.0.
Workaround	Delete the policy that is assigned to the node, and reassign the policy.
Defect ID	None.
Problem	Deploy/undeploy of HP Performance Agent may fail with the following error - "Timeout occurred while waiting for data".

Workaround	<p>Increase the BBC timeout value, Steps to achieve the same are:</p> <p>a. On management server -</p> <pre>ovconfpar -change -ns bbc.http.ext.depl -set RESPONSE_TIMEOUT 600</pre> <p>b. On managed node -</p> <pre>ovconfpar -host <node name> -change -ns bbc.cb -set RESPONSE_TIMEOUT 600</pre> <pre>ovconfpar -host <node name> -change -ns depl -set CMD_TIMEOUT 600000</pre>
Defect ID	QCCR1A95630
Problem	<p>Deployment of Performance Agent on the local HP Operations Manager 9.0 for Linux server node, fails with following error in the /var/opt/OV/log/System.txt:</p> <pre>(depl-81) Unable to deploy 'ovpa_pkg.xml' to node <OMLServerName>.</pre>
Workaround	<p>Perform the following steps:</p> <ol style="list-style-type: none"> 1 Type the following to check if all ovc daemons are running: <pre>/opt/OV/bin/ovc -status</pre> 2 If any of the daemons are not running, to start them, type the following command: <pre>/opt/OV/bin/ovc -start</pre> 3 Install Performance Agent manually on the HP Operations Manager 9.0 for Linux Server. 4 Run following command on the server, to mark the Performance Agent as deployed on the local node: <pre>/opt/OV/bin/OpC/opcragt -subagent -active <PAPolicyName> <OMLServerName></pre>
Defect ID	None.

Problem	<p>If the connection is very slow, and, Operations Agent 8.6 is running on the OMU 9 server and Operations Agent 8.53 is running on the Windows node, HP Performance Agent undeployment may throw following error, even though Performance Agent has deployed properly on the node:</p> <p>Subagent 'VP_Perf_Agt' is not assigned to node <NodeName>. (OpC40-727)</p> <p>Failed.</p>
Workaround	<p>The steps to undeploy Performance Agent from the node is as follows:</p> <ol style="list-style-type: none"> 1 Run the following command on the OMU 9 server: <pre><OvInstallDir>/bin/OpC/opcragt -subagent -active <PerformanceAgentPolicyName> <NodeName></pre> 2 Undeploy Performance Agent. <p>The above problem occurs because Performance Agent deployment takes more time than the timeout value set of undeploy. You can resolved this by increasing the timer value on nodes and server. The steps are as follows:</p> <ol style="list-style-type: none"> 1 Use ovconfchg command to set the value of the parameter CMD_TIMEOUT under depl namespace to 1800000 (30 minutes) or any other value suitable for your environment: <pre><OvInstallDir>/bin/ovconfchg -ns depl -set CMD_TIMEOUT 1800000</pre> 2 Deploy Performance Agent.
Defect ID	QCCR1A93302
Problem	<p>Deployment of Performance Agent to Windows 2000 nodes from any UNIX HP Operations Manager version 8.X fails with following error:</p> <pre>ERROR: Not enough free disk space for /temp directory. Required: 51200. Available: 0.</pre>

Workaround	Install Performance Agent manually on the Windows 2000 nodes.
Defect ID	QCCR1A95859
Problem	<p>After successfully deploying Performance Agent from UNIX management server 8.x, the following error messages are captured in the system.txt file.</p> <pre>0: ERR: Wed Aug 5 10:01:26 2009: ovdeploy (15901/1): (depl-81) Unable to deploy 'ovpa_pkg.xml' to node 'biavm43.ind.hp.com'.</pre>
Workaround	<p>NONE.</p> <p>Ignore the error message as the deployment and undeployment of Performance Agent is not affected.</p>
Defect ID	QCCR1A95395
Problem 1	<p>When Performance Agent is deployed on the local OMU 9.0 server, following error messages get logged into the /var/opt/OV/log/System.txt file:</p> <pre>opcbbcdist (5932/4): (depl-81) Unable to deploy <PerformanceAgentXMLName> to node <OMU9NodeName>.</pre> <pre>opcbbcdist (5932/4): (depl-261) Skipping package installation because same or higher version of package is already installed.</pre> <p>Performance Agent deployment still happens fine. But because of above error, Performance undeployment will not happen.</p>
Workaround	<p>Type the following command after deployment:</p> <pre><OvInstallDir>/bin/OpC/opcragt -subagent - active <PerformanceAgentPolicyName> <OMU9NodeName></pre> <p>Running the command after deployment ensures undeployment of Performance Agent without any issues.</p>

Problem 2	When Performance Agent is undeployed on the local OMU 9.0 server, at the end of undeployment, all OMU related services will not be running.
Workaround	Perform the following steps: 1 Undeploy Performance Agent. 2 Type the following command: <code>/opt/OV/bin/ovc -start</code>
Defect ID	QCCR1A60005
Problem	With Operations Agent 8.53 installed on the OMU 8.X management server, Performance Agent deployment to the "RHEL 4 update 7 kernel 2.6" managed nodes, will fail with the following error: (depl-153) Bundle is not installable on host.
Workaround	NONE. Note that the problem is fixed with Operations Agent 8.60.
Defect ID	None.
Problem	Installation of Performance Agent deployable on OML 9.x might display the following warning: Warning - Locale specific directory '/var/opt/OV/share/databases/subagent/VP_Perf_Agt/tools/en_US.UTF-8' not found, defaulting to 'C'
Workaround	NONE. Ignore the warning message.

Installing HP Performance Agent Deployables on HPOM for UNIX version 8.x

This section describes the steps to install and remove HP Performance Agent deployables on HPOM for UNIX version 8.x on HP-UX and on Sun Solaris platforms.



Performance Agent deployables version 9.00 deploys Performance Agent 5.00 and Performance Agent deployables version 8.70 deploys Performance Agent 4.70.

Installing on HP-UX

This section describes the steps to install, upgrade and remove HP Performance Agent deployables on HPOM for UNIX version 8.x on HP-UX platform.

Install Steps

The installable files for Performance Agent deployables are available in zipped format.

To install the deployables, follow these steps:

- 1 Login as **root** user.
- 2 Copy the zipped installable file
`HPOvPADep-09.00.000-HPUX11.0-release.depot.gz` to a temporary directory, for example to `/tmp/OvPADep`
- 3 Change to the directory where you copied the zipped file. For example:
`cd /tmp/OvPADep`
- 4 Unzip the file. To unzip the file, type the following command:
`gunzip HPOvPADep-09.00.000-HPUX11.0-release.depot.gz`
- 5 To install the deployables, type the following command:
`swinstall -s /tmp/OvPADep/
HPOvPADep-09.00.000-HPUX11.0-release.depot HPOvPADep`

Upgrade Steps

You can upgrade to Performance Agent deployables version 9.00 if you have Performance Agent deployables version 8.70 available on your management server.

The steps to upgrade to the new version of Performance Agent deployables are same as the install steps. The installable files for Performance Agent deployables are available in zipped format.

When you install the new version of Performance Agent deployables on the server, it replaces the previous version of Performance Agent deployables available on the server.

Verify Installation

To verify your installation after you install the Performance Agent deployables, perform the following task:

- 1 Verify if the deployables are available in the following location:

```
/var/opt/OV/share/databases/subagent/VP_Perf_Agt
```

To verify the version number of the installed Performance Agent deployables, login to the server and type the following command:

```
swlist | grep -I HPOvPAD
```

Removing HP Performance Agent Deployables

To remove the installed HP Performance Agent deployables from management server, follow this step:

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

```
swremove HPOvPADep
```

Installing on Sun Solaris

This section describes the steps to install and remove HP Performance Agent deployables on HPOM for UNIX version 8.x on Sun Solaris platform.

Install Steps

The installable files for Performance Agent deployables are available in zipped format.

To install the deployables, follow these steps:

- 1 Login as **root** user.
- 2 Copy the zipped installable file
`HPOvPADep-09.00.000-SunOS5.7-release.sparc.tar.gz` to a temporary directory, for example to **/tmp/OvPADep**
- 3 Change to the directory where you copied your zipped depot. For example:
`cd /tmp/OvPADep`
- 4 Unzip the file. To unzip the file, type the following command:
`gunzip HPOvPADep-09.00.000-SunOS5.7-release.sparc.tar.gz`
- 5 Untar the tar file. To untar the file, type the following command:
`tar -xvf HPOvPADep-09.00.000-SunOS5.7-release.sparc.tar`
- 6 Create the directory **/tmp/OvPADep/admin** with following content:
`conflict=nocheck`
- 7 To install the deployables, type the following **pkgadd** command:
`pkgadd -d /tmp/OvPADep -a /tmp/OvPADep/admin HPOvPADHP`
`pkgadd -d /tmp/OvPADep -a /tmp/OvPADep/admin HPOvPADSN`
`pkgadd -d /tmp/OvPADep -a /tmp/OvPADep/admin HPOvPADLX`
`pkgadd -d /tmp/OvPADep -a /tmp/OvPADep/admin HPOvPADAX`
`pkgadd -d /tmp/OvPADep -a /tmp/OvPADep/admin HPOvPADWN`
`pkgadd -d /tmp/OvPADep -a /tmp/OvPADep/admin HPOvPAInt`

Upgrade Steps

You can upgrade to Performance Agent deployables version 9.00 if you have Performance Agent deployables version 8.70 available on your management server. The installable files for the new version of Performance Agent deployables are available in zipped format.

To upgrade to the new version of the deployables, follow these install steps:

- 1 Login as **root** user.
- 2 Copy the zipped installable file
`HPOvPADep-09.00.000-SunOS5.7-release.sparc.tar.gz` to a temporary directory, for example to **`/tmp/OvPADep`**
- 3 Change to the directory where you copied your zipped depot. For example:
`cd /tmp/OvPADep`
- 4 Unzip the file. To unzip the file, type the following command:
`gunzip HPOvPADep-09.00.000-SunOS5.7-release.sparc.tar.gz`
- 5 Untar the tar file. To untar the file, type the following command:
`tar -xvf HPOvPADep-09.00.000-SunOS5.7-release.sparc.tar`
- 6 Create the directory **`/tmp/OvPADep/admin`** with following content:
`conflict=nocheck`
`instance=overwrite`
- 7 To install the deployables, type the following **`pkgadd`** command:
`pkgadd -d /tmp/OvPADep -a /tmp/OvPADep/admin HPOvPADHP`
`pkgadd -d /tmp/OvPADep -a /tmp/OvPADep/admin HPOvPADSN`
`pkgadd -d /tmp/OvPADep -a /tmp/OvPADep/admin HPOvPADLX`
`pkgadd -d /tmp/OvPADep -a /tmp/OvPADep/admin HPOvPADAX`
`pkgadd -d /tmp/OvPADep -a /tmp/OvPADep/admin HPOvPADWN`
`pkgadd -d /tmp/OvPADep -a /tmp/OvPADep/admin HPOvPAInt`

Verify Installation

To verify your installation after you install the Performance Agent deployables, perform the following task:

- 1 Verify if the deployables are available in the following location:
`/var/opt/OV/share/databases/subagent/VP_Perf_Agt`

To verify the version number of the installed Performance Agent deployables, login to the server and type the following command:

```
pkginfo -l HPOvPAInt | grep VERSION
```

Removing HP Performance Agent Deployables

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

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

```
pkgrm HPOvPADHP
```

```
pkgrm HPOvPADSN
```

```
pkgrm HPOvPADLX
```

```
pkgrm HPOvPADAX
```

```
pkgrm HPOvPADWN
```

```
pkgrm HPOvPAInt
```

Installing HP Performance Agent Deployables on HPOM for UNIX version 9.0

This section describes the steps to install and remove HP Performance Agent deployables on 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 the steps to install and remove HP Performance Agent deployables on HPOM for UNIX, version 9.0 on Linux platform.

- ▶ Performance Agent deployables version 9.00 deploys Performance Agent 5.00 and Performance Agent deployables version 8.70 deploys Performance Agent 4.70.

Installing on HP-UX

This section describes the steps to install and remove HP Performance Agent deployables on HPOM for UNIX version 9.0 on HP-UX platform.

Install Steps

To install the deployables, follow these steps:

- 1 Login as **root** user.
- 2 Copy the zipped installable file
`HPOvPADep-09.00.000-HPUX11.0-release.depot.gz` to a temporary directory, for example to `/tmp/OvPADep`
- 3 Change to the directory where you copied the zipped file. For example:
`cd /tmp/OvPADep`
- 4 Unzip the file. To unzip the file, type the following command:
`gunzip HPOvPADep-09.00.000-HPUX11.0-release.depot.gz`
- 5 To install the deployables, type the following command:
`swinstall -s /tmp/OvPADep/
HPOvPADep-09.00.000-HPUX11.0-release.depot HPOvPADep`

Verify Installation

After you install the Performance Agent deployables, verify your installation by following these steps:

- 1 Verify if the deployables are available in the following location:

```
/var/opt/OV/share/databases/subagent/VP_Perf_Agt
```

From the management server:

- 2 Check the GUI to verify if the new policies are installed. Select **Browse> All Policies** to view the policies.

Listed below are the policies which get installed:

- Alarmdef_AIX
- Alarmdef_HP

- Alarmdef_Linux
- Alarmdef_Solaris
- Alarmdef_WIN
- PA_Deploy_Solaris
- PA_Deploy_AIX
- PA_Deploy_Linux
- PA_Deploy_WIN
- PA_Deploy_HP_1111
- PA_Deploy_HP_1123
- PA_Deploy_HP_1131
- Parm_AIX
- Parm_HP
- Parm_Linux
- Parm_Solaris
- Parm_WIN

For more information on policies, see the *HP Performance Agent Deployables for Operations Manager for UNIX User Guide*.

- 3 Click **Browse > All Categories** to verify if the **VP_Perf_Agt** category is added.
- 4 Click **Browse > All Tools Group** to verify if the **Performance Agent** tool group is added.

To verify the version number of the installed Performance Agent deployables, login to the server and type the following command:

```
swlist | grep -I HPOvPAD
```

Removing HP Performance Agent Deployables

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

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

```
swremove HPOvPADep
```

Installing on Linux

This section describes the steps to install, upgrade and remove HP Performance Agent deployables on HPOM for UNIX version 9.0 on a Linux platform.

Install Steps

To install the deployables, follow these steps:

- 1 Login as **root** user.
- 2 Copy the zipped installable file
`HPOvPADep-09.00.000-Linux2.6_64-release.rpm.tar` to a temporary directory, for example to `/tmp/OvPADep`
- 3 Change to the directory where you copied the zipped file. For example:
`cd /tmp/OvPADep`
- 4 Unzip the file. To unzip the file, type the following command:
`gunzip HPOvPADep-09.00.000-Linux2.6_64-release.rpm.tar.gz`
- 5 Untar the tar file. To untar the file, type the following command:
`tar -xvf HPOvPADep-09.00.000-Linux2.6_64-release.rpm.tar`
- 6 To install the deployables, type the following `rpm -i` command:
`rpm -i /tmp/OvPADep/HPOvPADAX-9.00.000-Linux2.6_64.rpm`
`rpm -i /tmp/OvPADep/HPOvPADHP-9.00.000-Linux2.6_64.rpm`
`rpm -i /tmp/OvPADep/HPOvPADLX-9.00.000-Linux2.6_64.rpm`
`rpm -i /tmp/OvPADep/HPOvPADSN-9.00.000-Linux2.6_64.rpm`
`rpm -i /tmp/OvPADep/HPOvPADWN-9.00.000-Linux2.6_64.rpm`
`rpm -i /tmp/OvPADep/HPOvPAInt-9.00.000-Linux2.6_64.rpm`

Verify Installation

After you install the Performance Agent deployables, verify your installation by following these steps:

- 1 Verify if the deployables are available in the following location:

`/var/opt/OV/share/databases/subagent/VP_Perf_Agt`

From the management server:

- 2 Check the GUI to verify if the new policies are installed. Select **Browse > All Policies** to view the policies.

Listed below are the policies which get installed:

- Alarmdef_AIX
- Alarmdef_HP
- Alarmdef_Linux
- Alarmdef_Solaris
- Alarmdef_WIN
- PA_Deploy_Solaris
- PA_Deploy_AIX
- PA_Deploy_Linux
- PA_Deploy_WIN
- PA_Deploy_HP_1111
- PA_Deploy_HP_1123
- PA_Deploy_HP_1131
- Parm_AIX
- Parm_HP
- Parm_Linux
- Parm_Solaris
- Parm_WIN

For more information on policies, see the *HP Performance Agent Deployables for Operations Manager for UNIX User Guide*.

- 3 Click **Browse > All Categories** to verify if the **VP_Perf_Agt** category is added.
- 4 Click **Browse > All Tools Group** to verify if the **Performance Agent** tool group is added.

To verify the version number of the installed Performance Agent deployables, login to the server and type the following command:

```
[root@btovm599 ~]# rpm -qa | grep HPOvPA
```

Removing HP Performance Agent Deployables

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

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

```
rpm -e HPOvPADAX-9.00.000-1
```

```
rpm -e HPOvPADHP-9.00.000-1
```

```
rpm -e HPOvPADLX-9.00.000-1
```

```
rpm -e HPOvPADSN-9.00.000-1
```

```
rpm -e HPOvPADWN-9.00.000-1
```

```
rpm -e HPOvPAInt-9.00.000-1
```



See the *HP Performance Agent Deployables for HP Operations Manager for UNIX User Guide* for details on deploying, controlling and managing HP Performance Agent on managed nodes.

For other details on HP Operations Manager for UNIX, see the documentation for HP Operations Manager for UNIX.

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