



OMi Management Pack for Vertica

Software Version: 1.00

Operations Manager i for Linux and Windows® operating systems

Installation Guide

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Contents

Chapter 1: Introduction	4
Abbreviations Used in this Manual	4
Related Documentation	4
Licensing	5
Chapter 2: Installing OMi MP for Vertica	6
Installation Media	6
Installation Prerequisites	7
Software Requirements	7
Installation Checklist	8
Installing Additional Software Update for Monitoring Automation 9.23	9
Installing OMi Management Pack for Vertica 1.00 version on BSM or OMi	9
On a Linux BSM 9.2x or OMi 10.x Server	10
On a Windows BSM 9.2x or OMi 10.x Server	10
Applying the License	11
Verifying the OMi MP for Vertica Installation	11
Chapter 3: Getting Started	13
Task 1: Adding Nodes to the BSM 9.2x or OMi 10.x Console	13
Task 2: Enabling the Enrichment Rules	13
Task 3: Deploying the Vertica Discovery Aspect	14
Task 4: Verifying Discovery	15
Task 5: Deploying the Vertica Management Templates or Vertica Aspects	16
Data Collection	16
Task 5a: Deploying Vertica Management Templates	17
Task 5b: Deploying Vertica Aspects	18
Appendix A: Installing Monitoring Automation 9.23 Software Update	20
Installing Additional Software Update in a Distributed BSM Environment	20
Installing Additional Software Update on BSM DPS	20
Installing Additional Software Update on BSM GWS	22
Installing Additional Software Update in a Typical BSM Environment	23
Send documentation feedback	26

Chapter 1: Introduction

The OMi Management Pack for Vertica (OMi MP for Vertica) works with Operations Manager i (OMi) and enables you to monitor Vertica databases. The OMi MP for Vertica includes the following components for monitoring the health and status of Vertica databases.

- Vertica Management Templates
- Vertica Aspects and Policy Templates
- Parameters
- Tools

Note: For more information about the components, see the OMi MP for Vertica *Online Help* or *PDF version of the Online Help*.

Abbreviations Used in this Manual

Abbreviations	Expansion
OMi	Operations Manager i
RTSM	Run-time Service Model
OMi MP	OMi Management Pack
OMi MP for Vertica	OMi Management Pack for Vertica

Related Documentation

For more information about OMi MP for Vertica, see the following documents:

- OMi MP for Vertica - *Release Notes*
- OMi MP for Vertica - *User Guide*

For information about OMi Content Pack for Vertica, *OMi Content Pack for Vertica User Guide*.

Licensing

The OMi MP licenses are available in a pack of 25 license units. Each license can be used per OS instance, irrespective of the application type. For example, the license pack can contain 5 licenses of OMi MP for Microsoft Skype for Business Server, 10 licenses of OMi MP for Oracle Database with any other combination of supported applications.

There are three types of licenses:

- Evaluation: A license with a fixed trial period of up to 60 days. This type of license is available only until a Time Based or Permanent license is purchased. Once purchased, the trial period immediately terminates.
- Term: A license that has a time-based expiration date.
- Perpetual: A license that does not expire.

To procure the license for the Entitlement Order Number (EON), go to <http://enterpriselicense.hpe.com> and log on using your HPE Passport credentials to redeem the license.

For information about applying the license, see "[Applying the License](#)".

Chapter 2: Installing OMi MP for Vertica

This section provides information about installing OMi MP for Vertica on BSM 9.2x or OMi 10.x (Linux or Windows) servers.



Installation Media

The following section provides information about the installation media for OMi MP for Vertica. The OMi MP for Vertica is available in the OMi MP for Vertica DVD (MPDVD) and also through electronic media (e-media). The MPDVD and e-media are available for English locale environments.

Product	Marketplace links
OMi MP for Vertica	Unified Marketplace

The OMi MP for Vertica DVD and e-media contains the software and the product documentation. In a distributed environment, it must be installed on all BSM or OMi Data Processing Servers (DPS) and BSM or OMi Gateway Servers (GWS).

The following table provides information about the documentation available in the MPDVD and the e-media:

Document	Location	Purpose
Online Help	Available in the BSM console Help menu. From the BSM console, go to Help > BSM Help > Application Administration > Operations Management > OMi Management Pack for Vertica Available in the OMi console  menu. From the OMi console, go to  > General Help > Administration Guide > Management Packs > OMi Management Pack for Vertica.	To provide information about the following: <ul style="list-style-type: none">• Using Management Templates• Using Aspects and Policy Templates• Using Indicators - HIs and ETIs.
Installation Guide	<MPDVD>\DOCUMENTATION\en	
User Guide	<MPDVD>\DOCUMENTATION\en	

Document	Location	Purpose
Release Notes	<MPDVD>\DOCUMENTATION\en	To provide information about the following: <ul style="list-style-type: none"> • Salient Features • Installation Notes

Installation Prerequisites

The following section lists the prerequisites for installing OMi MP for Vertica on BSM 9.2x (Linux and Windows) and OMi 10.x (Linux and Windows) servers. It also provides information about the prerequisites required for monitoring Vertica.

Software Requirements

Before installing OMi MP for Vertica, the following components must be installed and configured on the BSM 9.2x or OMi 10.x servers.

Server Requirement

Component	Version
BSM	9.23 or higher*
Operations Manager i	9.23 or higher*
Monitoring Automation	9.23 or higher*

* See the Support Matrix for latest versions supported

Note: For large scale environments, it is recommended to use BSM 9.24.

Managed Node Requirement

Component	Version
Operations Agent	11.12 or higher*
Oracle Java	1.6 or higher*

Note: You must use 64-bit JRE with 64-bit HPE Operations Agent and 32-bit JRE with 32-bit HPE

Operations Agent.

* See the Support Matrix for latest versions supported

Installation Checklist

If you have already installed OMi 10.x, skip to [Task 6](#).

Server Checklist

Serial	Task	Reference
1	Check the Installation prerequisites for BSM	See the chapter <i>General Prerequisites</i> in the <i>BSM Installation Guide</i> .
2	Install BSM version 9.20 and the BSM 9.23 or higher Service Pack	See the following chapters in the <i>BSM Installation Guide</i> : <ul style="list-style-type: none"> • <i>Install BSM 9.20</i> • <i>Install the latest BSM 9.2x Minor Minor Release and Patch</i>
3	Install Monitoring Automation version 9.23 or higher	See the chapters <i>Installation Prerequisites</i> and <i>Installing and Configuring Monitoring Automation on BSM servers</i> in the <i>Monitoring Automation for Operations Manager i Installation Guide</i> .
4	Verify the Monitoring Automation installation	See the chapter <i>Verifying the Installation and Using Monitoring Automation</i> in the <i>Monitoring Automation for Operations Manager i Installation Guide</i> .
5	Installing Additional Software Update for Monitoring Automation 9.23	See the section " Installing Additional BSM DPS Update on BSM 9.23 ". This update is required only for BSM 9.23 and not for higher versions.
6	Install OMi MP for Vertica 1.00	See the section " Installing OMi Management Pack for Vertica 1.00 version on BSM or OMi ".
7	Applying the License	See the section " Applying the License ".

Managed Node

Task	Reference
Install Operations Agent 11.12	See the chapter <i>Installing Operations Agent 11.12</i> in the <i>Operations Agent and Operations Smart Plug-ins for Infrastructure Installation Guide</i> .

Installing Additional Software Update for Monitoring Automation 9.23

Note: You must install additional software update for Monitoring Automation 9.23 only for BSM 9.23.

Before installing OMi MP for Vertica, you must install an additional software update for Monitoring Automation 9.23. If you are using Monitoring Automation 9.24 or a later version, you do not need to install this additional software update. The additional software update for Monitoring Automation 9.23 (HPOprMA_update.zip) is available in the e-media or MPDVD, under the folder HPOprMA_update.

For more information about installing the update software, see ["Installing Monitoring Automation 9.23 Software Update"](#).

Installing OMi Management Pack for Vertica 1.00 version on BSM or OMi

You can use the e-media or MPDVD to install the OMi MP for Vertica on BSM or OMi Server (Linux or Windows). The following section provides information about installing the OMi MP for Vertica on the BSM 9.2x or OMi 10.x Server.

Note: In a BSM 9.2x or OMi 10.x distributed environment, OMi MP for Vertica must be installed on all BSM or OMi Servers - (BSM or OMi) DPS and (BSM or OMi) GWS.

For BSM 9.2x, you must make sure that Monitoring Automation is running before proceeding with the installation. To check the status, log on to BSM console and navigate to **Admin > Setup and Maintenance > Server Deployment** and then check if Monitoring Automation is enabled.

On a Linux BSM 9.2x or OMi 10.x Server

To install the OMi MP for Vertica on a Linux BSM 9.2x or OMi 10.x Server, follow these steps:

1. Log on as a root user.
2. Set the umask by typing the command `umask 022`.
3. Create a directory to mount the DVD or e-media by typing the command `mkdir /<mount_point>`.

For example: `mkdir /dvdrom`

4. Insert the DVD into the disk drive or you can copy the e-media installation package and mount using the following commands:

For DVD: `mount /dev/<dvdrom_drive_name> /<mount_point>`

For e-media: `mount -o loop <e-media> /<mount_point>`

5. Change the directory to `/<mount_point>`.
6. Run the following command:

`<PATH>/mpinstall.sh -i`
7. To accept the End User License Agreement (EULA), type **Yes** or **Y** and to decline the license agreement, type **No** or **N**.

Note: If you decline the EULA, the OMi MP for Vertica will not be installed.

After the installation is completed, a message appears stating that the installation of OMi Management Pack for Vertica is completed.

On a Windows BSM 9.2x or OMi 10.x Server

To install the OMi MP for Vertica on a Windows BSM 9.2x or OMi 10.x Server, follow these steps:

1. Insert the DVD into the disk drive or you can copy the ZIP file to the BSM or OMi Server and extract it.
2. Open the command prompt, change the directory to <DVD- ROM> or to folder that has the installer script and run the following command:

`cscript mpinstall.vbs -i`
3. To accept the End User License Agreement (EULA), type **Yes** or **Y** and to decline the license agreement, type **No** or **N**.

After the installation is completed, a message appears stating that the installation of OMi Management Pack for Vertica is completed.

Applying the License

This section provides information about updating and activating the license.

Note: For more information about procuring the license, see the "Licensing" section.


To update your deployment with a new license and to activate the license, follow these steps:

1. Navigate to the License Management pane:

On BSM 9.2x, click **Admin > Platform > Setup and Maintenance > License Management**.

On OMi 10.x, click **Administration > Setup and Maintenance > License Management**.

The License Management provides details about the name, license type, days left to expiry of license, expiration date, capacity, and capacity details.

2. Click  to open the Add License dialog box where you can search for the relevant .dat file.

Note: You can download .dat file from <http://enterpriselicense.hpe.com>.

Verifying the OMi MP for Vertica Installation

This section provides information about verifying the installation of OMi MP for Vertica on BSM 9.2x or OMi 10.x (Linux and Windows) servers.

You can perform any one of the following checks to verify the OMi MP for Vertica installation:

- Check the log files for any errors on GWS (BSM 9.2x or OMi 10.x), DPS (BSM 9.2x or OMi 10.x), and typical servers (BSM 9.2x or OMi 10.x) at the following locations:

For Linux:

/opt/HP/BSM/log/mpinstall.log

For Windows:

%TOPAZ_HOME%\log\mpinstall.log

Note: The OMi logs are available on both (BSM 9.2x or OMi 10.x) GWS and (BSM 9.2x or OMi

10.x) DPS at the following location:

On BSM < or = 9.25

Linux: /opt/HP/BSM/log/EJBContainer/opr-configserver.log

Windows: %TOPAZ_HOME%\log\EJBContainer\opr-configserver.log

On BSM > or = 9.26 and OMi 10.x

Linux: /opt/HP/BSM/log/jboss/opr-webapp.log

Windows: %TOPAZ_HOME%\log\jboss\opr-webapp.log

- Check the following location BSM 9.2x or on the OMi 10.x console:
 - On BSM 9.2x, click **Admin > Operations Management > Setup > Content Packs**.
The **OMi Management Pack for Vertica** must appear in the Content Pack Definitions pane.
 - On OMi 10.x, click **Administration > Setup and Maintenance > Content Packs**.
The **OMi Management Pack for Vertica** must appear in the Content Pack Definitions pane.
- To list the OMi MPs installed on the BSM 9.2x or OMi 10.x server, run the following command on BSM 9.2x or OMi 10.x GWS:

For Linux:

```
/opt/HP/BSM/bin/ContentManager.sh -l -username <username> -password <pwd>
```

For Windows:

```
%TOPAZ_HOME%\bin\ContentManager.bat -l -username <username> -password <pwd>
```

Note: The ContentManager.bat or ContentManager.sh command lists the Content Pack name and version.

Chapter 3: Getting Started

The following section provides step-by-step instructions about deploying out-of-the-box components of OMi MP for Vertica for monitoring Vertica database using the BSM or OMi console.


Task 1: Adding Nodes to the BSM 9.2x or OMi 10.x Console

Before you begin monitoring, you need to add the managed node to the BSM 9.2x or OMi 10.x console.

1. Open the Monitored Nodes pane:

On BSM 9.2x, click **Admin > Operations Management > Setup > Monitored Nodes**.

On OMi 10.x, click **Administration > Setup and Maintenance > Monitored Nodes**.

2. In the Node Views pane, click **Predefined Node Filters > Monitored Nodes** and then click  and then click **Computer > Windows or Unix**. The Create New Monitored Node dialog box appears.
3. Specify the Primary DNS Name, IP address, Operating System, and Processor Architecture of the node and click **OK**.

The newly created node is saved as a Configuration Item (CI) instance in Run-time Service Model (RTSM).

Note: The managed node with HPE Operations Agent needs to be activated on OMi server and certificate needs to be granted.


Task 2: Enabling the Enrichment Rules

You must enable the following enrichment rules to populate the CI's display label with additional information about container or the hostname:

- SoftwareElementDisplayLabelForNewHost
- SoftwareElementDisplayLabelForExistingHost

- SoftwareElementDisplayLabelPopulator

To enable the Enrichment Rules, follow these steps:

1. Open the Enrichment manager pane:
On BSM 9.2x, click **Admin > RTSM Administration > Modeling > Enrichment manager**.
On OMi 10.x, click **Administration > RTSM Administration > Modeling > Enrichment manager**.
2. In the Enrichment Rules pane, select **SoftwareElementDisplayLabelForNewHost** from the list.
3. Right-click and select **Properties**. The Enrichment Rule Properties window appears.
4. Click **Next**.
5. Select **Rule is Active**.
6. Click **Finish**.
7. In the Enrichment Rules pane, click  to save the changes.
8. Select **SoftwareElementDisplayLabelForExistingHost** and repeat steps 3 to 7.
9. Select **SoftwareElementDisplayLabelPopulator** and repeat steps 3 to 7.

Task 3: Deploying the Vertica Discovery Aspect

To discover the Vertica databases in the environment, you can deploy the Vertica Discovery Aspect to the managed node by following these steps:

1. Open the Management Templates & Aspects pane:
On BSM 9.2x, click **Admin > Operations Management > Monitoring > Management Templates and Aspects**.
On OMi 10.x, click **Administration > Monitoring > Management Templates & Aspects**.
2. In the Configuration Folder pane, click **Configuration Folders > Database Management > Vertica > Vertica Aspects**.
3. In the **Vertica Aspects** folder, right-click the Vertica Discovery Aspect, and then click **Assign and Deploy Item** to open the Assign and Deploy Wizard.
4. In the **Configuration Item** tab, click the CI to which you want to deploy the Vertica Discovery Aspect and then click **Next**.

5. (Optional). In the **Required Parameters** tab, click **Next**.

Note: The Vertica Discovery Aspect does not have mandatory parameters. You will get a notification stating the following message:

There are no parameters that require editing for this Assignment.

6. (Optional). In the **All Parameters** tab on BSM 9.2x or **Parameter Summary** tab on OMi 10.x, click **Next**.
7. (Optional). If you do not want to enable the assignment immediately, follow the step:
 - On BSM 9.2x, clear the **Enable Assigned Objects** check box.
 - On OMi 10.x, clear the **Enable Assignment(s)** check box.
 - You can then enable the assignment later using the Assignments & Tuning pane.
8. Click **Finish**.

Note: After the Vertica Discovery Aspect is deployed, a message stating the Assignment and deployment jobs created appears. To check the status of the deployment jobs, go to the following location

On BSM 9.2x, click **Admin > Operations Management > Monitoring > Deployment Jobs**.

On OMi 10.x, click **Administration > Monitoring > Deployment Jobs**.

Task 4: Verifying Discovery

After you deploy the Vertica Discovery Aspect, you must verify if the CIs are populated in the View Explorer.

To view the CIs populated in the View Explorer, follow these steps:

1. Open the Event Perspective pane:
 - On BSM 9.2x, click **Applications > Operations Management > Event Perspective**.
 - On OMi 10.x, click **Workspaces > Operations Console > Event Perspective**.
2. In the Browse Views pane, select **Vertica_Topology** from the drop-down list to see the associated CIs.

Task 5: Deploying the Vertica Management Templates or Vertica Aspects

This section provides information about data collection and deploying management template and aspects. For more information about deploying Vertica Management Template, go to ["Task 5a: Deploying Vertica Management Templates"](#) and for more information about deploying Vertica Aspects, go to ["Task 5b: Deploying Vertica Aspects"](#).

Data Collection

Frequency (polling interval) at which each Aspect must be monitored is predefined with a default value in a specific frequency parameter. Frequency parameter is an expert parameter that is defined for each of the metrics regardless of whether they are for generating events or not.

Following are the four predefined frequency parameters:

Parameter	Frequency
Very High	5 mins
High	15 mins
Medium	1 hour
Low	24 hours

After Management Templates and Aspects are deployed, the collector is triggered based on the predefined frequency parameter in a specific Aspect. You can modify the default value of the parameter at following two levels:

- During deployment of the Management Template or Aspects using the Management Templates & Aspects pane.
- After deployment using the Assignments & Tuning pane.

For more information about how to modify the parameter values, see section *Editing Parameters in the OMi MP for Vertica User Guide*.





Task 5a: Deploying Vertica Management Templates

You **must** deploy the Vertica Discovery Aspect even if the CIs are already populated by any other source such as SiteScope, DDM and so on. For more information, see "[Task 3: Deploying the Vertica Discovery Aspect](#)".


You can deploy the Vertica Management Templates by following these steps:

1. Open the Management Templates & Aspects pane:

On BSM 9.2x, click **Admin > Operations Management > Monitoring > Management Templates & Aspects**.

On OMi 10.x, click **Administration > Monitoring > Management Templates & Aspects**.
2. In the Configuration Folders pane, click **Configuration Folders > Database Management > Vertica > Vertica Management Templates**.
3. In the Vertica Management Templates folder, click the management template that you want to deploy, and then click . The Assign and Deploy wizard opens.
4. In the **Configuration Item** tab, click the CI to which you want to assign the management template, and then click **Next**.
5. In the **Required Parameters** tab, you must specify the Vertica Instance User Name and Vertica Instance Password. By default, the list shows only mandatory parameters. To edit the parameters, follow these steps:
 - a. Select the **Vertica Instance Name** parameter in the list, and then click . The Vertica Instance Name dialog box opens.
 - b. Select the **Vertica Instance User Name** parameter in the list, and then click . The Vertica Instance User Name dialog box opens.
 - c. Click **Value**, specify the value, and then click **OK**.
 - d. Select the **Vertica Instance Password** parameter in the list, and then click . The Vertica Instance Password dialog box opens.
 - e. Click **Value**, specify the value, and then click **OK**.
6. Click **Next**.
7. *(Optional)*. In the **All Parameters** tab on BSM 9.2x or **Parameter Summary** tab on OMi 10.x, click **Next**.

Note: In the **All Parameters** tab on BSM 9.2x or **Parameter Summary** tab on OMi 10.x, you

can override the default values of any parameter. You can specify a value for each parameter at the Management Template level. By default, parameters defined as expert parameters are not shown. To show expert parameters, click  **Show Expert Parameters**.

8. *(Optional)*. In the **Configure Options** tab, if you do not want to enable the assignment immediately, follow the step:

On BSM 9.2x, clear the **Enable Assigned Objects** check box.

On OMi 10.x, clear the **Enable Assignment(s)** check box.

You can then enable the assignment later using the Assignments & Tuning pane.


9. Click **Finish**.

Note: The username given during the deployment of a management template must have required privileges for OMi MP for Vertica to collect data.




Task 5b: Deploying Vertica Aspects


You **must** deploy the Vertica Discovery Aspect even if the CIs are already populated by any other source such as SiteScope, DDM and so on. For more information, see "[Task 3: Deploying the Vertica Discovery Aspect](#)".

You can deploy Vertica Aspects to the remote managed nodes by following these steps:

1. Open the Management Templates & Aspects pane:
 - On BSM 9.2x, click **Admin > Operations Management > Monitoring > Management Templates & Aspects**.
 - On OMi 10.x, click **Administration > Monitoring > Management Templates & Aspects**.
2. In the Configuration Folders pane, click **Configuration Folders > Database Management > Vertica > Vertica Aspects**.
3. In the **Vertica Aspects** folder, click the Aspect that you want to deploy, and then click . The Assign and Deploy wizard opens.
4. In the **Configuration Item** tab, click the CI to which you want to assign the Aspect, and then click **Next**.
5. In the **Required Parameters** tab, you must specify the Vertica Instance User Name and Vertica

Instance Password. By default, the list shows only mandatory parameters. To edit the parameters, follow these steps:

- a. Select the **Vertica Instance Name** parameter in the list, and then click . The Vertica Instance Name dialog box opens.
 - b. Select the **Vertica Instance User Name** parameter in the list, and then click . The Vertica Instance User Name dialog box opens.
 - c. Click **Value**, specify the value, and then click **OK**.
 - d. Select the **Vertica Instance Password** parameter in the list, and then click . The Vertica Instance Password dialog box opens.
 - e. Click **Value**, specify the value, and then click **OK**.
6. Click **Next**.
 7. (Optional). In the **All Parameters** tab on BSM 9.2x or **Parameter Summary** tab on OMi 10.x, click **Next**.

Note: In the **All Parameters** tab on BSM 9.2x or **Parameter Summary** tab on OMi 10.x, you can override the default values of any parameter. You can specify a value for each parameter at the Management Template level. By default, parameters defined as expert parameters are not shown. To show expert parameters, click  **Show Expert Parameters**.

8. (Optional). In the **Configure Options** tab, if you do not want to enable the assignment immediately, follow the step:

On BSM 9.2x, clear the **Enable Assigned Objects** check box.

On OMi 10.x, clear the **Enable Assignment(s)** check box.

You can then enable the assignment later using the Assignments & Tuning pane.

9. Click **Finish**.

Appendix A: Installing Monitoring Automation

9.23 Software Update

This section provides detailed information about installing the software update in a distributed BSM environment.

If you do not have a distributed BSM environment, you can skip to the section "[Installing Additional Software Update in a Typical BSM Environment](#)".

Installing Additional Software Update in a Distributed BSM Environment

In a distributed BSM environment, the BSM DPS and BSM GWS are available on different systems. The additional software update needs to be installed on both the BSM DPS and BSM GWS.

Installing Additional Software Update on BSM DPS

To install the additional software update on BSM DPS running in a distributed BSM environment, follow these steps:

1. Run the following commands to check the version of the current `opr-config-content-server.war` file:

On Linux:

```
cd /opt/HP/BSM/opr/webapps  
  
/opt/HP/BSM/opr/support/what.sh ./opr-config-content-server.war
```

On Windows:

Go to the drive where BSM is installed:

```
cd /d %TOPAZ_HOME%\opr\webapps  
  
cscript %TOPAZ_HOME%\opr\support\what.vbs opr-config-content-server.war
```

Note: If the version number is lower than 09.23.174, then proceed to the next step. If the version number is 09.23.174 or higher, then the current BSM installation already contains the required software update and you do not need to perform the remaining steps in this section.

2. Run the following command to stop the BSM services running on BSM DPS:

On Linux:

```
/opt/HP/BSM/scripts/run_hpbsm stop
```

On Windows:

```
%TOPAZ_HOME%\bin\SupervisorStop.bat
```

3. Take a backup of the existing `opr-config-content-server.war` file, which exists in the following folder:

On Linux:

```
/opt/HPBSM/opr/webapps
```

On Windows:

```
%TOPAZ_HOME%\opr\webapps
```

The `opr-config-content-server.war` file must be backed up to a different folder.

4. Extract the `HP0prMA_update.zip` to a temporary folder and copy `opr-config-content-server.war` to the following folder:

On Linux:

```
/opt/HPBSM/opr/webapps
```

On Windows:

```
%TOPAZ_HOME%\opr\webapps
```

5. Run the following command to deploy the new WAR file from the extracted ZIP file:

On Linux:

```
/opt/HP/BSM/opr/bin/oprcfg-configuration.sh -setup omi -noGW
```

On Windows:

```
cscript %TOPAZ_HOME%\opr\bin\oprcfg-configuration.vbs -setup omi -noGW
```

6. Run the following command to start the BSM services:

On Linux:

```
/opt/HP/BSM/scripts/run_hpbsm start
```

On Windows:

```
%TOPAZ_HOME%\bin\SupervisorStart.bat
```

Installing Additional Software Update on BSM GWS

To install the additional software update on BSM GWS running in a distributed BSM environment, follow these steps:

1. Run the following commands to check the version of the current `opr-config-server.war` file:

On Linux:

```
cd /opt/HP/BSM/opr/webapps
/opt/HP/BSM/opr/support/what.sh ./opr-config-server.war
```

On Windows:

Go to the drive where BSM is installed:

```
cd /d %TOPAZ_HOME%\opr\webapps
cscript %TOPAZ_HOME%\opr\support\what.vbs opr-config-server.war
```

Note: If the version number is lower than 09.23.174, then proceed to the next step. If the version number is 09.23.174 or higher, then the current BSM installation already contains the required software update and you do not need to perform the remaining steps in this section.

2. Run the following command to stop the BSM services running on BSM GWS:

On Linux:

```
/opt/HP/BSM/scripts/run_hpbsm stop
```

On Windows:

```
%TOPAZ_HOME%\bin\SupervisorStop.bat
```

3. Take a backup of the existing `opr-config-server.war` file which exists in the following folder:

On Linux:

```
/opt/HPBSM/opr/webapps
```


On Windows:

```
%TOPAZ_HOME%\opr\webapps
```

The opr-config-server.war file must be backed up to a different folder.

4. Extract the HP0prMA_update.zip to a temporary folder and copy opr-config-server.war to the following folder:

On Linux:

```
/opt/HPBSM/opr/webapps
```

On Windows:

```
%TOPAZ_HOME%\opr\webapps
```

5. Run the following command to deploy the new WAR file from the extracted ZIP file:

On Linux:

```
/opt/HP/BSM/opr/bin/oprcfg-configuration.sh -setup omi
```

On Windows:

```
cscript %TOPAZ_HOME%\opr\bin\oprcfg-configuration.vbs -setup omi
```

6. Run the following command to start the BSM services:

On Linux:

```
/opt/HP/BSM/scripts/run_hpbsm start
```

On Windows:

```
%TOPAZ_HOME%\bin\SupervisorStart.bat
```

Installing Additional Software Update in a Typical BSM Environment

In a typical BSM environment, the BSM DPS and BSM GWS are available in the same system. To install the additional software update in a typical BSM environment, perform the following steps:

1. Run the following commands to check the version of the current opr-config-server.war:

On Linux:

```
cd /opt/HP/BSM/opr/webapps
```

```
/opt/HP/BSM/opr/support/what.sh ./opr-config-server.war
```

On Windows:

Go to the drive where BSM is installed:

```
cd /d %TOPAZ_HOME%\opr\webapps
```

```
cscript %TOPAZ_HOME%\opr\support\what.vbs opr-config-server.war
```

Note: If the version number is lower than 09.23.174, then proceed to the next step. If the version number is 09.23.174 or higher, then the current BSM installation already contains the required software update and you do not need to perform the remaining steps in this section.

2. Run the following command to stop the BSM services running on BSM Server:

On Linux:

```
/opt/HP/BSM/scripts/run_hpbsm stop
```

On Windows:

```
%TOPAZ_HOME%\bin\SupervisorStop.bat
```

3. Take a backup of the existing opr-config-server.war file which exists in the following folder:

On Linux:

```
/opt/HPBSM/opr/webapps
```

On Windows:

```
%TOPAZ_HOME%\opr\webapps
```

The opr-config-server.war file must be backed up to a different folder.

4. Extract the HPOprMA_update.zip to a temporary folder and copy opr-config-server.war to the following folder:

On Linux:

```
/opt/HPBSM/opr/webapps
```

On Windows:

```
%TOPAZ_HOME%\opr\webapps
```

5. Run the following command to deploy the new WAR file from the extracted ZIP file:

On Linux:

```
/opt/HP/BSM/opr/bin/oprcfg-configuration.sh -setup omi
```

On Windows:

```
cscript %TOPAZ_HOME%\opr\bin\oprcfg-configuration.vbs -setup omi
```

6. Run the following command to start the BSM services:

On Linux:

```
/opt/HP/BSM/scripts/run_hpbsm start
```

On Windows:

```
%TOPAZ_HOME%\bin\SupervisorStart.bat
```

Send documentation feedback

If you have comments about this document, you can [contact the documentation team](#) by email. If an email client is configured on this system, click the link above and an email window opens with the following information in the subject line:

Feedback on Installation Guide (OMi Management Pack for Vertica 1.00)

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@hpe.com.

We appreciate your feedback!