Hewlett Packard Enterprise

HPE OMi Management Pack for Oracle Database

Software Version: 1.11
For Operations Manager i for Linux and Windows® operating systems

Installation Guide

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Contents

Chapter 1: Introduction

The HPE OMi Management Pack for Oracle Database (OMi MP for Oracle Database) works with HPE Operations Manager i (OMi) and enables you to monitor Oracle databases and the underlying infrastructure running in your environment using the Business Service Management (BSM). The OMi MP for Oracle Database includes the following components for monitoring the health and status of Oracle databases:

- Oracle Management Templates
- Oracle Aspects and Policy Templates
- Parameters
- Event Type Indicators (ETIs)
- Health Indicators (HIs)
- Topology based Event Correlation (TBEC) Rules
- Operations Orchestration (OO) Flows
- Tools
- Graph Templates

Note: For more information about the components, see the *OMi MP for Oracle Database Online Help or User Guide.*

Abbreviations Used in this Manual

Abbreviations	Expansion
BSM	Business Service Management
OMi	HP Operations Manager i
RTSM	Run-time Service Model
BSM DPS	BSM Data Processing Server
BSM GWS	BSM Gateway Server
OMi MP	HPE OMi Management Pack
OMi MP for Oracle Database	HPE OMi Management Pack for Oracle Database

Related Documentation

For more information about BSM and Monitoring Automation, see documentation for *HP Business Service Management*.

For more information about OMi, see documentation for *Operations Manager i*.

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

- OMi MP for Oracle Database *Release Notes*
- OMi MP for Oracle Database *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 SQL 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 HP Passport credentials to redeem the license.

For information about applying the license, see "Applying the License".

Chapter 2: Installing or Upgrading OMi MP for Oracle Database

This section provides information about installing OMi MP for Oracle Database 1.11 on BSM 9.2x (Linux or Windows) or OMi 10.x (Linux or Windows) servers.

Installation Package

The following section provides information about the installation package for OMi MP for Oracle Database 1.10 and 1.11.

> **Note:** You must install OMi MP for Oracle Database 1.10 from the MPDVD or e-media, before installing OMi MP for Oracle Database 1.11. The MPDVD and e-media are available for English and Non-English locale environments. You can use the appropriate installation media based on your locale requirements.

The OMi MP for Oracle Database 1.11 is available at HPE Live Network. The package 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 HPE Live Network:

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 Oracle Database** Available in the OMi console ? menu. From the OMi console, go to ? **> General Help > Administration Guide > Management Packs >Management Pack Documentation > OMi Management Pack for Oracle Database**.	To provide information about the following: • Using Management Templates • Using Aspects and Policy Templates • Using Indicators - HIs, ETIs, and TBEC Rules
User Guide	HPE Live Network	
Installation Guide	HPE Live Network	To provide information about installing OMi MP for Oracle Database 1.10 and 1.11.
Reference Guide		To provide complete information about metrics, policies and corresponding events and instructions.

Document	Location	Purpose
Release Notes		To provide information about the following: • Salient Features • Installation Notes

Installation Prerequisites

The following section lists the prerequisites for installing the HPE OMi MP for Oracle Database on BSM 9.2x and OMi 10.x (Linux and Windows) Servers.

Software Requirements

Before installing OMi MP for Oracle Database 1.11, the following components must be installed and configured on BSM 9.2x servers (Linux and Windows) and OMi 10.x servers (Linux and Windows).

Component	Version
BSM	9.23 or later*
HP Operations Manager i	9.23 or later*
HP Monitoring Automation	9.23 or later*
OMi MP for Infrastructure	1.10 or later*
OMi MP for Oracle Database	1.10

For more information about installing OMi MP for Oracle Database 1.10, see the section "Installing OMi Management Pack for Oracle Database version 1.10 on BSM or OMi".

> **Note:** For large scale environments, it is recommended to use BSM 9.24 or higher.

Managed Node

Component	Version
HP Operations Agent	11.12 or later*

SiteScope Server

Component	Version
HP SiteScope	11.22 or later*

* See the Support Matrix for latest versions supported.

> **Note:** If you are deploying Hybrid Oracle Management Template, you need to install SiteScope 11.22 or higher version.

> **Note:** For large scale environments, it is recommended to use BSM 9.24 or higher.

Installation Checklist

Ensure that the installation tasks described in the following table are completed in the specified order to enable you to monitor OMi MP for Oracle Database.

If you have already installed OMi 10.x, skip to Task 5. For more information about how to install OMi 10.x, see the latest version of *Operations Manager i Installation and Upgrade Guide*.

Management Server

Serial	Task	Reference
1	Check the Installation prerequisites for BSM	See the chapter *General Prerequisites* in the *BSM Installation Guide*.
2	Install BSM version 9.20 and the BSM 9.23 or higher Service Pack	See the following chapters in the *BSM Installation Guide*: • *Install BSM 9.20* • *Install the latest BSM 9.2x Minor Minor Release and Patch*
3	Install Monitoring Automation version 9.23 or higher	See the chapters *Installation Prerequisites* and *Installing and Configuring Monitoring Automation on BSM servers* in the *Monitoring Automation for HP Operations Manager i Installation Guide*.
4	Verify the Monitoring Automation installation	See the chapter *Verifying the Installation* and *Using Monitoring Automation* in the *Monitoring Automation for HP Operations Manager i Installation Guide*.
5	Clean up OMi MP for Infrastructure version 1.00	If OMi MP for Infrastructure version 1.00 is already installed, see *Removing OMi MP for Infrastructure* version 1.00 in the *OMi Management Pack for Infrastructure 1.10 Installation Guide*.
6	Install OMi MP for Infrastructure version 1.10	See the chapter *Installing OMi MP for Infrastructure 1.10* in the *OMi Management Pack for Infrastructure 1.10 Installation Guide*.
7	Migrate from OMi MP for Oracle Database version 1.00 to 1.10	If OMi MP for Oracle Database version 1.00 is already installed, see the section "Migrating from OMi MP for Oracle Database version 1.00 to version 1.10".
8	Install OMi MP for Oracle Database version 1.10	See the section "Installing OMi Management Pack for Oracle Database version 1.10 on BSM or OMi".
9	Applying the License	See the section "Applying the License" .

Managed Node

Task	Reference
Install HP Operations Agent 11.12 or later	See the chapter *Installing HP Operations Agent 11.12* in the *HP Operations Agent and HP Operations Smart Plug-ins for Infrastructure Installation Guide*.
Configure library path on the managed node*	See the section "Configuring Library Path on a Solaris Managed Node".

* This configuration check is applicable only for the Solaris managed nodes.

Configuring Library Path on a Solaris Managed Node

This section provides information about configuring the library path on a Solaris managed node.

> **Note:** The following configuration is a prerequisite only when the OMi MP for Oracle Database is used for monitoring the Solaris managed nodes.

For OMi MP for Oracle Database to monitor managed nodes on Solaris platform, ensure the `Expat.so` library used for XML parser perl module is able to resolve dynamic dependency for all the required libraries using following steps as a agent user:

1. To find `Expat.so` library, run the following commands as agent user:

   ```
   cd /opt/OV/nonOV/perl/a/lib

   find . -name Expat.so
   ```

2. To find the list of dynamic dependencies, run the following commands:

   ```
   Go to <Expat.so> path

   ldd Expat.so
   ```

   If you see the error message "`file not found`" or any error due to architecture mismatch for `libgcc_s.so`, configure the correct `libgcc_s.so` library path at `MPLD_LIBRARY_PATH` environment variable on a Solaris managed node by following step 3.

3. Set `libgcc_s.so` library path in `MPLD_LIBRARY_PATH` environment variable as root user by following these steps:

   a. Find the correct `libgcc_s.so` on a Solaris managed node using the following command:

      ```
      find / -name libgcc_s.so
      ```

   b. Search `libgcc_s.so` for the correct architecture using the following command:

      ```
      file <libgcc_s.so along with path>
      ```

   c. If `libgcc_s.so` is not installed on the node, install the GCC Runtime libraries package.

4. Open `/etc/profile` in `vi` editor using the following command:

   ```
   vi /etc/profile
   ```

5. Add the following lines in the `/etc/profile` file:

   ```
   MPLD_LIBRARY_PATH=<libgcc_s.so path>

   export MPLD_LIBRARY_PATH
   ```

> **Note:** `libgcc_s.so` path is the result of step 3(a).

6. Set the `libgcc_s.so` library path in Agent configuration

    `/opt/OV/bin/ovconfchg -ns ctrl.env -set MPLD_LIBRARY_PATH <libgcc_s.so path>`

    > **Note:** `libgcc_s.so` path is the result of step 3(a).

7. Save the file.
8. Restart the HP Operations Agent running the following command:

    `/opt/OV/bin/ovc –kill`

    `/opt/OV/bin/opcagt –cleanstart`

Migrating from OMi MP for Oracle Database version 1.00 to version 1.10

If you have already migrated to OMi MP for Oracle Database 1.10, skip to "Installing OMi MP for Oracle Database 1.11".

Before installing OMi MP for Oracle Database version 1.10, OMi MP for Oracle Database version 1.00 must be removed. The following section provides information about removing OMi MP for Oracle Database version 1.00. These steps are required only for OMi MP for Oracle Database version 1.00 and will not be required for future versions.

To remove OMi MP for Oracle Database version 1.00, you must follow these tasks:

Task 1: Remove the Assignments of Oracle Management Templates or Aspects

To remove the assignments of Oracle Management Templates or Aspects, follow these steps:

1. Open the Management Templates & Aspects pane:

    On BSM 9.2x, click **Admin > Operations Management > Monitoring > Assignments & Tuning**.

    On OMi 10.x, click **Administration > Monitoring Assignments & Tuning**.

2. In the **Browse Views** tab, select the **ORA_Deployment** or View to see the CIs associated with the View.
3. Delete the Oracle Management Templates or Oracle Aspects assigned to each CI.

Task 2: Remove the failed deployment jobs

If there are any failed deployment jobs, you must remove them by following these steps:

1. Open the Deployment Jobs pane:

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

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

2. Select the failed deployment job and click .

Task 3: Remove references to Oracle Aspects

If Oracle Aspects are used by user-created Management Templates or Aspects, you can remove the references by editing the user-created Management Template or Aspects and remove the Infrastructure Aspects.

You can remove the Oracle Aspects that are nested into another Aspect, by editing the user created Aspect.

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 Management Templates & Aspects pane, edit the user created Management Templates or Oracle Aspects that are referenced.

Task 4: Remove Oracle folder and sub folders

To remove the Oracle folder and sub folders, follow 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 > Oracle.**

3. Right-click and delete the Oracle folder.

> **Note:** If deleting the Oracle folder results in any error then there are some assignments or references still existing. The following examples provide more information:
>
> **Example 1:** If any of the OMi MP for Oracle Database Aspects or Management Templates are assigned to any CI, you will get the following error:
>
> ```
> Cannot delete aspect version "Oracle Database Availability 1.0" (ID: d1239cd9-83c1-
> 79a1-109d-7ec2fda557e6), as it is still assigned to CI "<name of the CI>"
> (ID:337244a5137b2bfc8588508a9ea45ca9)
> ```
>
> To remove the assignment of Oracle Aspects or Oracle Management Templates, go to "Task 1: Remove the Assignments of Oracle Management Templates or Aspects"
>
> **Example 2:** If any of the OMi MP for Oracle Database Aspects are being referred in other Aspects or Management Templates, you will get the following error:
>
> ```
> Cannot delete aspect version "Oracle Database Availability 1.0" (ID: d1239cd9-83c1-
> 79a1-109d-7ec2fda557e6), as it belongs to management template version "XYZ 1.0" (ID:
> f21deb26-1ddf-8e6b-ecb4-ac331db4c963)
> ```
>
> To remove the Oracle Aspect references, go to "Task 3: Remove references to Oracle Aspects"
>
> **You must perform these steps till you delete the Oracle folder successfully.**

Task 5: Run the Clean up script to remove the components of OMi MP for Oracle Database version 1.00

> **Tip:** Ensure **Oracle** folder is deleted before proceeding with the below steps.

To clean up OMi MP for Oracle Database version 1.00, follow these steps:

> **Note:** In a BSM 9.2x or OMi 10.x distributed environment, you must perform these steps on the BSM 9.2x or OMi 10.x DPS only.

1. Mount OMi MP for Oracle Database 1.10 DVD.
2. Go to `<DVD folder>\cleanMP1.0`
3. Run the following script to clean up the OMi MP for Oracle Database components:

   Linux: `./cleanMP.sh OracleDB <BSMUsername> <BSMPassword>`

   Windows: `cleanMP.bat OracleDB <BSMUsername> <BSMPassword>`

Task 6: Verify the Clean up

To verify the clean up, follow these steps:

1. Open the Policy Templates pane:

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

   On OMi 10.x, click **Administration > Monitoring > Policy Templates**.

   In the Policy Template Groups pane, check the folders under **Templates grouped by Type**.

   There should not be any policy templates with names starting with **DBSPI-** or **Oracle**.

2. Open the Content Packs pane:

   On BSM 9.2x, click **Admin > Monitoring > Setup > Content Packs**.

   On OMi 10.x, click **Administration > Setup and Maintenance > Content Packs**.

   OMi Management Pack for Oracle Database and **Component for Database Management Packs** should not appear in the list.

Installing OMi MP for Infrastructure version 1.10

For information about installing OMi MP for Infrastructure version 1.10, see the chapter *Installing OMi MP for Infrastructure version 1.10 on BSM or OMi* in the *OMi Management Pack for Infrastructure Installation Guide*.

Installing OMi Management Pack for Oracle Database version 1.10 on BSM or OMi

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

the BSM 9.2x or OMi 10.x Server. If you have already installed OMi MP for Oracle Database 1.10, skip to "Installing OMi MP for Oracle Database 1.11".

> **Note:** In a BSM 9.2x or OMi 10.x distributed environment, OMi MP for Oracle Database must be installed on all BSM or OMi Servers - BSM or OMi DPS and BSM or OMi GWS.
> For BSM 9.2x, you must ensure 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 Oracle Database on a Linux BSM 9.2x or OMi 10.x Server, follow these steps:

1. Log on as `root` user.

   > **Note:** If OMi is configured as a non-root user, log on as OMi non-root.

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`

   Based on the locale, you can see the following table and run the command accordingly:

E-media	MP locale same as BSM locale	MP locale different from BSM locale
English e-media	`./mpinstall.sh -i`	`./mpinstall.sh -i`
Non-English e-media	`./mpinstall.sh -i`	`./mpinstall.sh -i -locale <mplocale>`

   For example, to install OMi MP for Oracle Database in the Simplified Chinese locale with BSM in a non Simplified Chinese locale, specify the following command:

   `./mpinstall.sh -i -locale zh_CN`

   > **Note:** You can use the following command options:
   >
   > `./mpinstall.sh -i [-locale <MP Locale>] [-h|help]`
   >
   > `-i` : Install Management Pack.
   >
   > `-locale`: Locale specific Management Pack to install.
   >
   > `-h|-help`: Shows the help message.
   >
   > You can specify the `<mplocale>` as follows:

- ○ `zh_CN`: Simplified Chinese locale

- ○ `ja`: Japanese locale

- ○ `de`: German locale

- ○ `fr`: French locale

- ○ `es`: Spanish locale

- ○ `ko`: Korean locale

- ○ `ru`: Russian locale

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 Oracle Database will not be installed.

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

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

To install the OMi MP for Oracle Database 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`

   Based on the locale, you can see the following table and run the command accordingly:

E-media	MP locale same as BSM locale	MP locale different from BSM locale
English e-media	`cscript mpinstall.vbs -i`	`cscript mpinstall.vbs -i`
Non-English e-media	`cscript /nologo mpinstall.vbs -i`	`cscript /nologo mpinstall.vbs -i -locale <mplocale>`

   For example, to install OMi MP for Oracle Database in Simplified Chinese locale with BSM in a non Simplified Chinese locale, specify the following command:

   `cscript /nologo mpinstall.vbs -i -locale zh_CN`

   Note: You can use the following command options:

   `cscript /nologo mpinstall.vbs -i [-locale <MP Locale>] [-h|help]`

   `-i`: Install Management Pack.

   `-locale` : Locale specific Management Pack to install.

`-h|-help`: Shows the help message.

You can specify the `<mplocale>` as follows:

- `zh_CN`: Simplified Chinese locale

- `ja`: Japanese locale

- `de`: German locale

- `fr`: French locale

- `es`: Spanish locale

- `ko`: Korean locale

- `ru`: Russian locale

3. 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 Oracle Database will not be installed.

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

Installing OMi MP for Oracle Database 1.11

This section provides information about installing OMi MP for Oracle Database 1.11 on BSM 9.2x or OMi 10.x (Windows or Linux) servers.

Note: In a BSM 9.2x or OMi 10.x distributed environment, the OMi MP for Oracle Database 1.11 must be installed on all BSM 9.2x or OMi 10.x Servers - (BSM 9.2x or OMi 10.x) DPS and (BSM 9.2x or OMi 10.x) GWS.

To download and install the OMi MP for Oracle Database 1.11 update, follow these steps:

1. Download the **OMi MP for Oracle Database Update 01.11** from the following location:
   HPE Live Network.
2. Extract it to a *Temp* folder on your BSM 9.2x or OMi 10.x server.

For Linux:

1. Log on as `root` user.

   Note: If OMi is configured as a non-root user, log on as OMi non-root user.

2. Set the umask by typing the command `umask 022`.
3. Change the directory to extract the file to the *Temp* folder:
4. Run the following command:

   `<Temp_PATH>/mpinstall.sh -i`
5. To accept the End User License Agreement (EULA), type **Yes** or **Y** and to decline the license

agreement, type **No** or **N**.

When the installation completes, a message appears stating that the `HP OMi Management Pack Installation Finished`.

For Windows:

1. From the command prompt, change directory to the *Temp* folder where the **OMi MP for Oracle Database Update 01.11** is extracted.

2. Run the following command:

   `cscript /nologo 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**.

   When the installation completes, a message appears stating that the `HP OMi Management Pack Installation Finished`.

Verifying the OMi MP for Oracle Database Installation

This section provides information about verifying the installation of OMi MP for Oracle Database 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 Oracle Database installation:

- Check the log files for any errors on BSM GWS (BSM 9.2x or OMi 10.x), BSM DPS (BSM 9.2x or OMi 10.x), and BSM 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 GWS and 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-configserver.log`
  >
  > **Windows:** `%TOPAZ_HOME%\log\jboss\opr-configserver.log`

- Check the following location on BSM 9.2x or OMi 10.x console:

  ○ On BSM 9.2x, click **Admin > Operations Management > Setup > Content Packs**.

    The **OMi Management Pack for Oracle Database** must appear in the Content Pack Definitions pane.

  ○ On OMi 10.x, click **Administration > Setup and Maintenance > Content Packs**.

    The **OMi Management Pack for Oracle Database 1.10** and **1.11** 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 <BSMConsoleusername> -password <BSMConsolepwd>

  For Windows:

  %TOPAZ_HOME%\bin\ContentManager.bat -l –username <BSMConsoleusername> -password <BSMConsolepwd>

  Verify that the command gives the following output:

  - OMi_MgmtPack_OracleDB_Update_01_11 (1.11)

  - OMi_MgmtPack_OracleDB (1.10)

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

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.

   > **Note:** There will be a delay in license activation after the installation. If the license does not activate automatically, you need to perform step 3.

3. *(Optional)*. To activate the license on BSM 9.2x, click the **Server Deployment** link at the bottom of the License Management window.

4. Select the check box corresponding to respective **Application** and click **Save**.

Installing Operations Orchestration (OO) Flows

The OMi MP for Oracle Database is packaged with OO flows that enables IT process automation and run book automation. For more information about OO flows, see the documentation for *Operations Orchestration*.

The following section provides information about installing OO flows on HP OO Studio (version 9.0x) for OMi MP for Oracle Database.

> **Note:** The OO flows shipped by OMi MP for Oracle Database can only be used in deployment scenarios where the application is monitored by Smart Plug-ins managed by an HP Operations Manager (HPOM) server. In such a case, the OO flows included in OMi MP for Oracle Database can be installed on an OO server and launched through the OMi-OO integration. For more information about the OMi-OO integration, see the *BSM - Operations Orchestrations Integration Guide.*

Uploading OO Flows

To upload OO Flows from OMi MP for Oracle Database, follow these steps:

1. In BSM 9.2x or OMi 10.x, go to the directory:

   On Linux:

   ```
   /opt/HP/BSM/conf/opr/oo
   ```

   On Windows:

   ```
   %TOPAZ_HOME%\conf\opr\oo
   ```

2. Copy **HPOprOOOra90.jar** to a temporary location on a system where HP OO Studio (version 9.0x) is installed.

   To install and upload the OO Flows, run the command:

   ```
   java -jar -Xmx1024m "<temp>/HPOprOOOra90" -centralPassword <centralpassword>
   ```

   > **Note:** For more information about installing content, see the section *Installing the content* in the *HP Operations Orchestration Software Development Kit Guide*.

   Using HP OO Studio, you can access the OO flows from the following location:

   ../Library/Operations Management/..

3. Complete the mapping of OO flows to CIs and map the OO flow input variables to CI attributes using:

   On BSM 9.2x, click **Admin > Integration > Operations Orchestration.**

   On OMi 10.x, click **Administration > Operations Console > Run Books Mapping**.

Chapter 3: Getting Started

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

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

> **Note:** If the Node already exists in RTSM, you can skip this step and proceed to "Task 3: Deploying the Oracle Discovery Aspect".

Before you begin monitoring, you need to add the nodes to the BSM or OMi 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 Nodes 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 CI instance in RTSM.

    > **Note:** The Node with HP Operations Agent needs to be activated to OMi server and certificate needs to be granted.

Task 2: User Privileges for non-privileged HP Operations Agent User

Before deploying the Oracle Discovery Aspect, you must follow these steps:

On Windows: No additional permission is required.

On Linux:

1. You must provide read, write, and execute permissions to non-root user for `/var/opt/OV` directory.

2. You must create `/etc/opt/OV` directory and provide read, write, and execute permissions to non-root user.

> **Note:** Make sure that the HP Operations Agent non-root user is given read permission to the `ORACLE_HOME` directory.

Task 3: Deploying the Oracle Discovery Aspect

To discover the Oracle CI on the added managed nodes, you must deploy the Oracle Discovery Aspect 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:

    Configuration Folders > Database Management > Oracle > Oracle Aspects.

3. In the Management Templates & Aspects folder, right-click the Oracle 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 Oracle Discovery Aspect and then click **Next**.

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

    > **Note:** Oracle Discovery Aspect do 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, 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 Oracle 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: Configuring OMi MP for Oracle Database for HP Operations Agent running with non-privileged user

After deploying the Oracle Discovery Aspect, you must follow these steps:

On Windows: No additional permission is required.

On Linux:

1. Run the script as a root user under `/var/opt/OV/bin/instrumentation`:

   `dbspi_root.pl`

   The `/etc/dbspi.su` is created.

2. Edit the `dbspi.su` file as a root user by uncommenting the lines or adding new lines :

   <user>:<commands>

   As in the following examples:

   `oracle:/opt/oracle/product/sqlplus /nolog`

   (allows sqlplus commands)

   or

   `oracle:/opt/oracle/product/*`

   (allows execution of all commands by an Oracle user)

Task 5: Verifying Discovery

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

To view the CIs, follow these steps:

1. Open the Events 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 View Explorer, select **ORA_Deployment** from the drop-down list to see the associated CIs.

Task 6: Deploying the Oracle Management Templates or Oracle Aspects

If you have already deployed OMi MP for Oracle Database 1.10 - Management Templates and Aspects, then skip to "Task 8: Updating Assignments to Newer version".

You can deploy Aspects and Management Templates to the Oracle CIs. For more information about deploying Oracle Management Templates, go to "Task 6a: Identifying and Deploying an Oracle Management Template". For information about deploying Oracle Aspects, go to "Task 6b: Deploying Oracle Aspects".

Data Collection

Frequency (polling interval) at which each policy 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 policy. You can modify the default value of the parameter at the following 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 Oracle Database User Guide*.

Task 6a: Identifying and Deploying an Oracle Management Template

You **must** deploy the Oracle 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 Oracle Discovery Aspect".

Before deploying the Oracle Management Templates, you must identify the Oracle Management Template suitable for your environment by following these recommendations:

- If you want to monitor the basic functionality of single instance Oracle database environment such as locks & latches, memory, segment space, tablespace health and transaction, you can deploy the **Essential Oracle Management Template**.
- If you want to monitor performance of IO, query, objects, and database space utilization along with the basic functionality, you can deploy the **Extensive Oracle Management Template**.
- For agentless monitoring, you can deploy the **Hybrid Oracle Management Template**.

OMi MP for Oracle Database contains Aspects that are not part of any existing Management Templates. You can add the required Aspects to any of the existing Management Template. For more information about how to add required Aspects, see the section *Tuning Oracle Management Templates* and for list of Aspects, see the section *List of Additional OOTB Aspects*. You can also create new Management Template with the combination of required Aspects, see the section *Creating New Oracle Management Templates* in the *OMi MP for Oracle Database - User Guide*.

To deploy the Oracle Management Template, follow 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:

   Configuration Folders > Database Management > Oracle > Oracle Management Templates.

3. In the **Oracle 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**. You can select multiple items by holding down the **Ctrl** or **Shift** key while selecting them. Click **Next** to accept the CIs and go to **Required Parameters**.

5. In the **Required Parameters** tab, you must specify the mandatory parameters - Oracle Instance User Name and Oracle Instance password. To specify the **Required Parameters**, follow these steps:

   > **Note:** Required Parameters lists all mandatory parameters in the management template that do not have a value.

   a. Select the **Oracle Instance User Name** parameter in the list, and then click . The Oracle Instance User Name dialog box opens.

   b. Click **Value**, specify the value, and then click **OK**.

   c. Select the **Oracle Instance Password** parameter in the list, and then click . The Oracle Instance Password dialog box opens.

   d. Click **Value**, specify the value, and then click **OK**.

6. Click **Next**.

7. In the **All Parameters** tab on BSM 9.2x or **Parameter Summary** tab on OMi 10.x, you can change the default values of the parameters. To change the default values of the parameters, follow these steps:

   a. Select the **Oracle Instance Name** parameter and then click . The Edit Instance Parameter window appears.

   b. Select the parameter from the list and then click . The Edit Parameter dialog box opens. Click **Value**, specify the value, and then click **OK**.

   > **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 **Hide Expert Parameters**.

8. Click **Next**.

9. *(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.

10. Click **Finish**.

> **Note:** The username given during the deployment of a Management Template should have required privileges for OMi MP for Oracle Database to collect data. You can use the oracle user **system** or you can create a user. To create a user on the node, you can use the script **dbspiocr.sh or dbspiocr.bat** as mentioned in the following steps or you can create a user manually by referring the **dbspiocr.sql**. This

script also contains information about the required list of privileges. The script is available at the following location only after deploying the Oracle Discovery Aspect.

Linux:

`/var/opt/OV/bin/instrumentation`

Usage:`dbspiocr.sh -oracle_home <OracleHomeDir> -oracle_sid <InstanceName> -sys_pass <SysPassword> -user <NewUserName> -user_pass <NewUserPassword> -def_ts <DefaultTableSpaceName> -tmp_ts <TempTableSpaceName>`

Example:`dbspiocr.sh -oracle_home /app/oracle/product/db_1 -oracle_sid orcl -sys_pass manager -user hporamp -user_pass hporamp -def_ts users -tmp_ts temp`

Windows:

`<ovagentdir>\bin\instrumentation`

Usage:`dbspiocr.bat -oracle_home <OracleHomeDir> -oracle_sid <InstanceName> -sys_pass <SysPassword> -user <NewUserName> -user_pass <NewUserPassword> -def_ts <DefaultTableSpaceName> -tmp_ts <TempTableSpaceName>`

Example:`dbspiocr.bat -oracle_home C:\app\oracle\product\db_1 -oracle_sid orcl -sys_pass manager -user hporamp -user_pass hporamp -def_ts users -tmp_ts temp`

In case of Oracle database 12.1 or later, the user name should begin with **c##** as prefix. For example, **c##hporamp**.

For more information about the permission required for the username, see "Permission and Grants".

Task 6b: Deploying Oracle Aspects

You **must** deploy the Oracle 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 Oracle Discovery Aspect".

To deploy the Oracle Aspects, follow 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:

   Configuration Folders > Database Management > Oracle > Oracle Aspects.

3. In the Management Templates & Aspects pane, click the Oracle 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** to go to All Parameters.

   Note: The required parameters are already specified while deploying the Oracle Discovery Aspect.

   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 🔧 **Hide Expert Parameters**.

5. *(Optional)* In the **Configure Options** tab, if you do not want to enable the assignment immediately, clear the **Enable Assigned Objects** check box. You can then enable the assignment later using the Assignments & Tuning pane.
6. Click **Finish**.

Task 7: Configuring Oracle Database Error Log Monitoring for non-privileged HP Operations Agent User

On Windows:

As an Administrator, you must provide read permission for the following directories to non-privileged user:

- `<ORACLE_BASE>\oradata\<ORACLE_SID>\`
- `<ORACLE_BASE>\diag\`

On Linux:

1. To identify the Oracle database alert log needs to be monitored, run the following command:

   `/var/opt/OV/bin/instrumentation/dbspicao -l`

2. You must provide read permission to the non-root user for alert log monitoring.

Task 8: Updating Assignments to Newer version

1. To update Management Templates or Aspects to the latest version, perform the following steps for each Management Template or Aspect assignment on each node:

   > **Note:** You must deploy Oracle Management Templates and Aspects to the **Oracle** CI.

   a. On BSM 9.2x, to update perform the following steps:

   i. Open the Management Template & Aspects pane:

   Admin > Operations Management > Monitoring > Management Templates & Aspects.

   ii. In the Configuration Folders pane:

   Configuration Folders > Database Management > Oracle

   iii. To deploy the latest version of Essential Oracle Management Template:

   In the Management Templates & Aspects pane, expand the **Essential Oracle Management Template** and select **1.100** version and click 🔗**Assign and Deploy Item**.

   Similarly, you can select the 1.100 version of the required Management Template or Aspects and click 🔗.

   b. On OMi 10.x, to update perform the following steps:

i. Open the Assignments & Tuning pane:

Administration > Monitoring > Assignments & Tuning

ii. In the **Browse Views** pane, select the **Oracle_Database_Deployment** view and select each CI where version update is required.

iii. Click **Show Assignments That Require an Update**.

All the Management Templates and Aspects that requires an update are listed.

iv. Select each of the Management Templates and Aspects and click **Update Assigned Item**.

The Update Assigned Item dialog box appears.

v. In the **Update Options** tab, follow these steps:

A. Select the latest version from the **Update to Version** drop down list.

B. Select the parameter value that you require for the assignment:

If you select **Use parameter values from existing assignments**, only the new mandatory parameters that do not have a default value are listed.

If you select **Use default parameter values from version selected above**, all mandatory parameters from the selected Management Template or Aspect version that do not have a default value are displayed. These parameters must be edited before proceeding to the next step of the wizard.

C. Click **Next**.

vi. In the **Required Parameter** tab, edit and provide values for each of the mandatory parameters. **Oracle Instance User Name** and **Oracle Instance Password** are the mandatory parameters.

vii. In the **Parameter Summary** tab, if you have assigned the **Oracle ASM Health** aspect to the ASM environment, then you must provide value for the dependent **Oracle ASM Instance** parameter. You can view this parameter when you edit **Oracle Instance Name** parameter.

viii. Click **Finish** to save the changes and close the wizard.

The assigned item is updated to the specified Management Template or Aspect version.

Appendix A: Permission and Grants

Following is the list of grants and privileges of Oracle user account for OMi MP for Oracle Database.

- grant select on DBA_2PC_NEIGHBORS
- grant select on DBA_2PC_PENDING
- grant select on DBA_ANALYZE_OBJECTS
- grant select on DBA_AUDIT_EXISTS
- grant select on DBA_AUDIT_OBJECT
- grant select on DBA_AUDIT_SESSION
- grant select on DBA_AUDIT_STATEMENT
- grant select on DBA_AUDIT_TRAIL
- grant select on DBA_CATALOG
- grant select on DBA_CLU_COLUMNS
- grant select on DBA_CLUSTER_HASH_EXPRESSIONS
- grant select on DBA_CLUSTERS
- grant select on DBA_COL_COMMENTS
- grant select on DBA_COL_PRIVS
- grant select on DBA_COLL_TYPES
- grant select on DBA_CONS_COLUMNS
- grant select on DBA_CONSTRAINTS
- grant select on DBA_DATA_FILES
- grant select on DBA_DB_LINKS
- grant select on DBA_DEPENDENCIES
- grant select on DBA_DIRECTORIES
- grant select on DBA_ERRORS
- grant select on DBA_EXP_FILES
- grant select on DBA_EXP_OBJECTS
- grant select on DBA_EXP_VERSION
- grant select on DBA_EXTENTS
- grant select on DBA_FREE_SPACE
- grant select on DBA_FREE_SPACE_COALESCED
- grant select on DBA_FREE_SPACE_COALESCED_TMP1
- grant select on DBA_FREE_SPACE_COALESCED_TMP2
- grant select on DBA_HISTOGRAMS
- grant select on DBA_IND_COLUMNS
- grant select on DBA_IND_PARTITIONS
- grant select on DBA_INDEXES
- grant select on DBA_JOBS

- grant select on DBA_JOBS_RUNNING
- grant select on DBA_LIBRARIES
- grant select on DBA_LOBS
- grant select on DBA_METHOD_PARAMS
- grant select on DBA_METHOD_RESULTS
- grant select on DBA_NESTED_TABLES
- grant select on DBA_OBJ_AUDIT_OPTS
- grant select on DBA_OBJECT_SIZE
- grant select on DBA_OBJECT_TABLES
- grant select on DBA_OBJECTS
- grant select on DBA_PART_COL_STATISTICS
- grant select on DBA_PART_HISTOGRAMS
- grant select on DBA_PART_INDEXES
- grant select on DBA_PART_KEY_COLUMNS
- grant select on DBA_PART_TABLES
- grant select on DBA_PENDING_TRANSACTIONS
- grant select on DBA_PRIV_AUDIT_OPTS
- grant select on DBA_PROFILES
- grant select on DBA_QUEUE_SCHEDULES
- grant select on DBA_QUEUE_TABLES
- grant select on DBA_QUEUES
- grant select on DBA_RCHILD
- grant select on DBA_REFRESH
- grant select on DBA_REFRESH_CHILDREN
- grant select on DBA_REFS
- grant select on DBA_REGISTERED_SNAPSHOTS
- grant select on DBA_REPCATLOG
- grant select on DBA_RESUMABLE
- grant select on DBA_RGROUP
- grant select on DBA_ROLE_PRIVS
- grant select on DBA_ROLES
- grant select on DBA_ROLLBACK_SEGS
- grant select on DBA_SEGMENTS
- grant select on DBA_SEQUENCES
- grant select on DBA_SNAPSHOT_LOG_FILTER_COLS
- grant select on DBA_SNAPSHOT_LOGS
- grant select on DBA_SNAPSHOT_REFRESH_TIMES
- grant select on DBA_SNAPSHOTS
- grant select on DBA_SOURCE

- grant select on DBA_STMT_AUDIT_OPTS
- grant select on DBA_SYNONYMS
- grant select on DBA_SYS_PRIVS
- grant select on DBA_TAB_COL_STATISTICS
- grant select on DBA_TAB_COLUMNS
- grant select on DBA_TAB_COMMENTS
- grant select on DBA_TAB_HISTOGRAMS
- grant select on DBA_TAB_PARTITIONS
- grant select on DBA_TAB_PRIVS
- grant select on DBA_TABLES
- grant select on DBA_TABLESPACES
- grant select on DBA_TRIGGER_COLS
- grant select on DBA_TRIGGERS
- grant select on DBA_TS_QUOTAS
- grant select on DBA_TYPE_ATTRS
- grant select on DBA_TYPE_METHODS
- grant select on DBA_TYPES
- grant select on DBA_UPDATABLE_COLUMNS
- grant select on DBA_USERS
- grant select on DBA_VIEWS
- grant select on FILEXT$
- grant select on SYS.DEFTRAN
- grant select on SYS.DEFERROR
- grant select on SYS.FET$
- grant select on SYS.FILE$
- grant select on SYS.FILEXT$
- grant select on SYS.OBJ$
- grant select on SYS.SEG$
- grant select on SYS.SYS_DBA_SEGS
- grant select on SYS.SYS_OBJECTS
- grant select on SYS.TS$
- grant select on SYS.UNDO$
- grant execute on SYS.DBMS_SPACE_ADMIN
- grant select on V_$_LOCK
- grant select on V_$ACCESS
- grant select on V_$ACTIVE_INSTANCES
- grant select on V_$AQ1
- grant select on V_$ARCHIVE
- grant select on V_$ARCHIVE_DEST

- grant select on V_$ARCHIVED_LOG
- grant select on V_$BACKUP
- grant select on V_$BACKUP_CORRUPTION
- grant select on V_$BACKUP_DATAFILE
- grant select on V_$BACKUP_DEVICE
- grant select on V_$BACKUP_PIECE
- grant select on V_$BACKUP_REDOLOG
- grant select on V_$BACKUP_SET
- grant select on V_$BGPROCESS
- grant select on V_$BH
- grant select on V_$BUFFER_POOL
- grant select on V_$CIRCUIT
- grant select on V_$CLASS_PING
- grant select on V_$CONTROLFILE
- grant select on V_$CONTROLFILE_RECORD_SECTION
- grant select on V_$COPY_CORRUPTION
- grant select on V_$DATABASE
- grant select on V_$DATAFILE
- grant select on V_$DATAFILE_COPY
- grant select on V_$DATAFILE_HEADER
- grant select on V_$DB_OBJECT_CACHE
- grant select on V_$DB_PIPES
- grant select on V_$DBFILE
- grant select on V_$DBLINK
- grant select on V_$DELETED_OBJECT
- grant select on V_$DISPATCHER
- grant select on V_$DISPATCHER_RATE
- grant select on V_$DLM_CONVERT_LOCAL
- grant select on V_$DLM_CONVERT_REMOTE
- grant select on V_$DLM_LATCH
- grant select on V_$DLM_LOCKS
- grant select on V_$DLM_MISC
- grant select on V_$ENABLEDPRIVS
- grant select on V_$ENQUEUE_LOCK
- grant select on V_$EVENT_NAME
- grant select on V_$EXECUTION
- grant select on V_$FILE_PING
- grant select on V_$FILESTAT
- grant select on V_$FIXED_TABLE

- grant select on V_$FIXED_VIEW_DEFINITION
- grant select on V_$GLOBAL_TRANSACTION
- grant select on V_$INDEXED_FIXED_COLUMN
- grant select on V_$INSTANCE
- grant select on V_$LATCH
- grant select on V_$LATCH_CHILDREN
- grant select on V_$LATCH_MISSES
- grant select on V_$LATCH_PARENT
- grant select on V_$LATCHHOLDER
- grant select on V_$LATCHNAME
- grant select on V_$LIBRARYCACHE
- grant select on V_$LICENSE
- grant select on V_$LOADPSTAT
- grant select on V_$LOCK
- grant select on GV_$LOCK
- grant select on V_$LOCK_ACTIVITY
- grant select on V_$LOCK_ELEMENT
- grant select on V_$LOCKED_OBJECT
- grant select on V_$LOCKS_WITH_COLLISIONS
- grant select on V_$LOG
- grant select on V_$LOG_HISTORY
- grant select on V_$LOGFILE
- grant select on V_$LOGHIST
- grant select on V_$SHARED_SERVER_MONITOR
- grant select on V_$MYSTAT
- grant select on V_$NLS_PARAMETERS
- grant select on V_$NLS_VALID_VALUES
- grant select on V_$OBJECT_DEPENDENCY
- grant select on V_$OFFLINE_RANGE
- grant select on V_$OPEN_CURSOR
- grant select on V_$OPTION
- grant select on V_$PARAMETER
- grant select on V_$PQ_SESSTAT
- grant select on V_$PQ_SLAVE
- grant select on V_$PQ_SYSSTAT
- grant select on V_$PQ_TQSTAT
- grant select on V_$PROCESS
- grant select on V_$PWFILE_USERS
- grant select on V_$QUEUE

- grant select on V_$RECOVER_FILE
- grant select on V_$RECOVERY_FILE_STATUS
- grant select on V_$RECOVERY_LOG
- grant select on V_$RECOVERY_PROGRESS
- grant select on V_$RECOVERY_STATUS
- grant select on V_$REQDIST
- grant select on V_$RESOURCE
- grant select on V_$RESOURCE_LIMIT
- grant select on V_$ROLLSTAT
- grant select on V_$ROWCACHE
- grant select on V_$ROWCACHE_PARENT
- grant select on V_$ROWCACHE_SUBORDINATE
- grant select on V_$SESS_IO
- grant select on V_$SESSION
- grant select on V_$SESSION_CONNECT_INFO
- grant select on V_$SESSION_CURSOR_CACHE
- grant select on V_$SESSION_EVENT
- grant select on V_$SESSION_LONGOPS
- grant select on V_$SESSION_OBJECT_CACHE
- grant select on V_$SESSION_WAIT
- grant select on V_$SESSTAT
- grant select on V_$SGA
- grant select on V_$SGASTAT
- grant select on V_$SGA_DYNAMIC_COMPONENTS
- grant select on V_$SHARED_POOL_RESERVED
- grant select on V_$SHARED_SERVER
- grant select on V_$SORT_SEGMENT
- grant select on V_$SORT_USAGE
- grant select on V_$SQL
- grant select on V_$SQL_BIND_DATA
- grant select on V_$SQL_BIND_METADATA
- grant select on V_$SQL_CURSOR
- grant select on V_$SQL_SHARED_MEMORY
- grant select on V_$SQLAREA
- grant select on V_$SQL_PLAN
- grant select on V_$SQLTEXT
- grant select on V_$SQLTEXT_WITH_NEWLINES
- grant select on V_$STATNAME
- grant select on V_$SUBCACHE

- grant select on V_$SYSSTAT
- grant select on V_$SYSTEM_CURSOR_CACHE
- grant select on V_$SYSTEM_EVENT
- grant select on V_$SYSTEM_PARAMETER
- grant select on V_$TABLESPACE
- grant select on V_$THREAD
- grant select on V_$TIMER
- grant select on V_$TRANSACTION
- grant select on V_$TRANSACTION_ENQUEUE
- grant select on V_$TYPE_SIZE
- grant select on V_$VERSION
- grant select on V_$WAITSTAT
- grant select on V$ROLLNAME
- grant select on GV_$INSTANCE
- grant select on V_$ROLLNAME
- grant select on V_$TEMPFILE
- grant select on GV_$SYSSTAT
- grant select on V_$FILE_CACHE_TRANSFER
- grant select on GV_$ARCHIVED_LOG
- grant select on V_$ARCHIVED_LOG
- grant select on GV_$ARCHIVE_DEST
- grant select on V_$ARCHIVE_DEST
- grant select on DBA_LOGSTDBY_PROGRESS
- grant select on DBA_LOGSTDBY_LOG
- grant select on V_$DATABASE
- grant select on V_$ARCHIVE_DEST_STATUS
- grant select on V_$RECOVERY_FILE_DEST
- grant select on SYS.DEFTRAN
- grant select on SYS.DEFERROR
- grant select on SYS.DBA_REPCATLOG
- grant select on V_$STREAMS_POOL_ADVICE
- grant select on DBA_CAPTURE
- grant select on DBA_PROPAGATION
- grant select on DBA_APPLY
- grant select on DBA_APPLY_ERROR
- grant select on DBA_APPLY_PROGRESS
- grant select on DBA_UNDO_EXTENTS
- grant select on DBA_MVIEWS
- grant select on DBA_TABLESPACE_USAGE_METRICS

- grant select on V_$FLASH_RECOVERY_AREA_USAGE
- grant select on V_$FS_FAILOVER_STATS
- grant select on GV_$SESSION

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