Oracle® Argus Analytics

Installation Guide

Release 8.2.1

F29366-02

June 2020

ORACLE®

Contents

4   Configure Oracle Business Intelligence Enterprise Edition Repository and Webcatalog

5   Configure Oracle Business Intelligence Enterprise Edition Help Files

6   Configure SSO using the Oracle Access Manager 11g

7 Enable SSL

A Create ODBC Connection for Oracle Business Intelligence Enterprise Edition Administration Tool

B Upgrade Oracle Argus Analytics from 1.1.1 to 7.0.3

Preface

This preface contains the following sections:

- Documentation accessibility
- Related resources
- Access to Oracle Support
  To receive support assistance, determine whether your organization is a cloud or on-premises customer. If you're not sure, use Support Cloud.

Documentation accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc.

Related resources

All documentation and other supporting materials are available on the Oracle Help Center.

Access to Oracle Support

To receive support assistance, determine whether your organization is a cloud or on-premises customer. If you're not sure, use Support Cloud.

Cloud customers receive support assistance through Support Cloud

Oracle customers that have purchased support have access to electronic support through Support Cloud.

Contact our Oracle Customer Support Services team by logging requests in one of the following locations:

- English interface of Oracle Health Sciences Customer Support Portal (https://hsgbu.custhelp.com/)
- Japanese interface of Oracle Health Sciences Customer Support Portal (https://hsgbu-jp.custhelp.com/)

You can also call our 24x7 help desk. For information, visit http://www.oracle.com/us/support/contact/health-sciences-cloud-support/index.html or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

On-premises customers receive support assistance through My Oracle Support

Oracle customers that have purchased support have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

1

Oracle Argus Analytics Requirements

Oracle Argus Analytics is an analytical reporting application. Oracle Argus Analytics extracts data from Oracle Argus Safety, providing a data mart containing key metrics across the pharmacovigilance business process. From this data mart, Oracle Argus Analytics provides key pre-defined reports, and enables the creation of additional custom reports.Oracle Argus Analytics also includes reports that run against the source database, thereby providing an up to date data analysis.

In this chapter:

- Technology Stack and System Requirements
- Prerequisites

Technology Stack and System Requirements

The requisite technology stack for Oracle Argus Analytics is provided in the media pack. It consists of the following products.

For more information, see:

- Server Components
- Client Components
- Supported Sources
- Technology Stack Matrix
- Typical Hardware Architecture
- Installation Process Overview

Server Components

- **Oracle Argus Analytics Database Server**

  (Enterprise Edition or Standard Edition 12.2.0.1)

  – Operating System as certified by the database

  – Microsoft Windows Server 2012 Standard (64 bit)

  – Microsoft Windows Server 2012 R2 Standard (64 bit)

  – Memory: RAM 4-16 GB (based on organization size), HDD – at least 500 GB free space

  – CPU: At least 4 Dual Core CPUs

- **Oracle Argus Analytics ETL Server**

  – **Oracle Data Integrator (ODI) Server**

    * Oracle Data Integrator 12.2.1.3

Refer to the *Oracle Data Integrator Installation Guide* for recommended hardware and supported platforms.

* * Operating System: As certified by Oracle Data Integrator

* * Memory: At least 8 GB RAM. HDD – at least 250 GB free space

* * CPU: At least 4 Dual Core CPUs

- **Oracle Argus Analytics Oracle Business Intelligence Enterprise Edition (OBIEE) Server**

  – Oracle Business Intelligence Enterprise Edition 12.2.1.4

    Refer to the *Oracle Business Intelligence Enterprise Edition Installation Guide* for further hardware and software requirements.

  – Operating System: As certified by Oracle Business Intelligence Enterprise Edition

  – Memory: RAM at least 16 GB, HDD – at least 250 GB free space

  – CPU: At least 4 Dual Core CPUs

> **Note:**
>
> If Unix-based OS is used for the Oracle Business Intelligence Enterprise Edition server, then the Oracle Business Intelligence Developer Client Tool must be installed separately on a Microsoft Windows box.
>
> Refer to the version-specific certification matrix for detailed information on OS certification.

Client Components

- **Oracle Database Client**

  Oracle Argus Analytics requires Oracle database client to connect to the database server. The supported client software version is 12.2.0.1.

- **ETL Client**

  – **Oracle Data Integrator (ODI) Studio**

    An Oracle Data Integrator Studio 12.2.1.3 is required to connect to the Oracle Data Integrator Repository.

- **Oracle Business Intelligence Developer Client Tool**

  Oracle Business Intelligence Developer Client Tool 12.2.1.4 must be installed for configuring the repository file (RPD).

- **Security Component** (Optional)

  You can also configure Single Sign On Support for your reports and dashboards using Oracle Access Manager 11g. For more information regarding the Oracle Access Manager installation and supported platforms, refer to the *Oracle Access Manager Installation Guide*.

- **Miscellaneous Components**

- For running the reports and dashboards, your machine should have the Adobe Flash Player 10 or above installed.

- Although Oracle Business Intelligence Enterprise Edition 12.2.1.4 reports are supported on Microsoft Internet Explorer, Mozilla Firefox, Chrome, and Safari, Oracle Argus Analytics is certified only for Microsoft Internet Explorer 11, or above.

Supported Sources

Oracle Argus Analytics, by default, supports only Oracle Argus Safety. It supports Oracle Argus Safety 8.2.1

Technology Stack Matrix

Specification	Oracle Business Intelligence Enterprise Edition(OBIEE) Server	Database	Oracle Data Integrator (ODI)	Client
Operating System	As certified by Oracle Business Intelligence Enterprise Edition	As certified by Oracle Database	As certified by Oracle Data Integrator	--
Oracle Database	12.2.0.1 Client	12.2.0.1 (Enterprise) - AL32UTF8 character set (Supports both CDB-PDB/Non CDB)	--	--
Oracle Business Intelligence Enterprise Edition	Oracle Business Intelligence Enterprise Edition 12.2.1.4 (with the latest patch set)	--	--	--
Browser	IE 11.0	--	--	IE 11.0
Adobe Reader	Acrobat Reader DC Acrobat Reader XI	--	--	Acrobat Reader DC Acrobat Reader XI
Single Sign On Solution (Optional)	Oracle Access Manager 11.1.2.3	--	--	--
Resolution	--	--	--	1280 x 1024

> **Note:**
>
> Oracle Business Intelligence Developer Client Tool can be installed along with the Oracle Business Intelligence Enterprise Edition Server, provided the Operating System is Microsoft Windows.

ORACLE®

> **✎ Note:**
>
> Oracle Client Patch required for the SQL Loader
>
> 1. Download and install the latest patch set: WINDOWS DB BUNDLE PATCH 12.1.0.2.1 from the Oracle Support.
>
> 2. Set the **oracle_home** to your client home location. For example:
>
>    ```
>    SET ORACLE_HOME=<Oracle Client Home path>
>    ```
>
> 3. Run **sqlldr help=y** or **sqlldr.exe**.

For more information, see:

- Supported Security Configuration (Optional)

Supported Security Configuration (Optional)

- LDAP/LDAPS 3.0
- Single Sign On Solution through Oracle Access Manager 11g

> **✎ Note:**
>
> If Oracle Access Manager is used, then the Oracle Business Intelligence Enterprise Edition Server must have Oracle Web Tier 12c with in-built WebGate.

Typical Hardware Architecture

- **Servers**:
  - An Oracle Database Server with Oracle Database 12.2.0.1
  - An Oracle Business Intelligence Enterprise Edition 12.2.1.4 Server with latest patch set
  - ETL Server—Oracle Data Integrator Studio 12.2.1.3

  > **✎ Note:**
  >
  > These servers can run on any of the supported platforms: Linux, Solaris, or Windows.

- **Clients**:
  - ETL Client—Oracle Data Integrator Studio 12.2.1.3
  - Oracle Database Client 12.2.0.1
  - Oracle Business Intelligence Developer Client Tool (12.2.1.4)

> **Note:**
>
> All tools can be installed in a single Microsoft Windows box.
>
> If the Oracle Business Intelligence Enterprise Edition server mentioned under the "Servers" section is a Windows Server, then all the clients can be installed in the same box itself.

> **Note:**
>
> It is important to get the technology stack products from the Oracle Argus Analytics media pack because newer versions of the technology stack products may have become available but may not be compatible with Oracle Argus Analytics.

Figure 1-1   Oracle Argus Analytics Technology
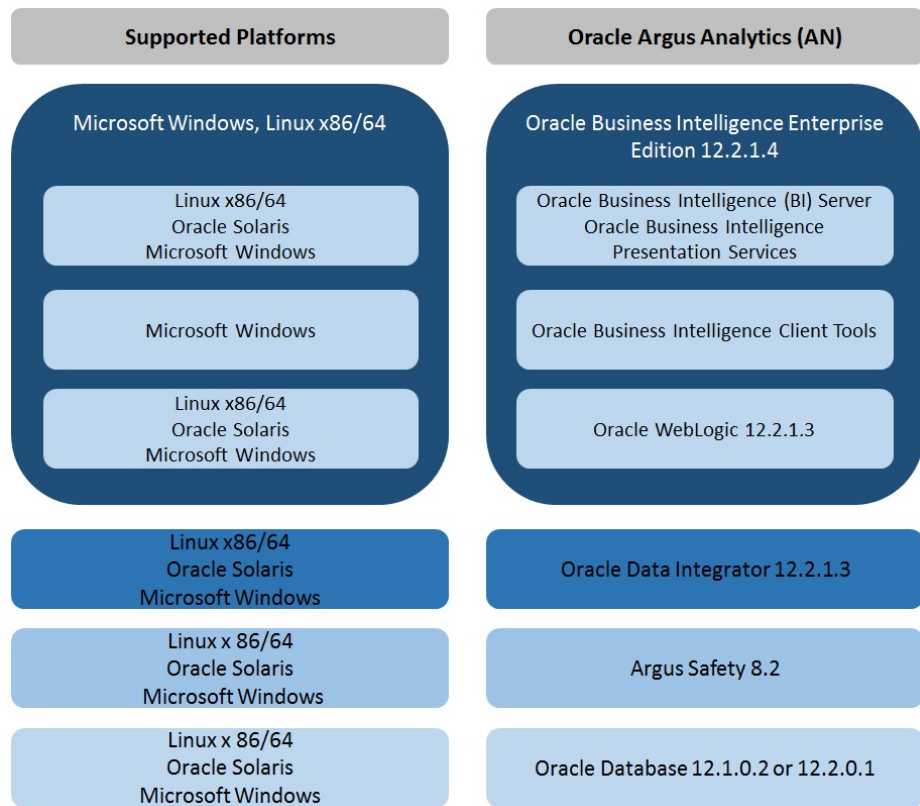
Installation Process Overview

The following steps describes the overview of the installation process:

- Follow the steps described in Section 1.2, Prerequisites.
- Execute the installer – to create the data mart.

- Follow the post-installation steps to configure Oracle Data Integrator and Oracle Business Intelligence Enterprise Edition.

For more information about certifications, go to **My Oracle Support** > **Certifications**.

Prerequisites

Before proceeding with the installation, ensure that the following software is available.

- Oracle Database Server—An Oracle 12.2.0.1 database server should be created before Oracle Argus Analytics installation. Follow the platform-specific Oracle Database Installation Guide for installing this server.

> **Note:**
>
> The database server should be configured with AL32UTF8 character set.

- ETL Server—Oracle Data Integrator Studio 12.2.1.3 should be installed on the server machine where ETLs have to be configured.

> **Note:**
>
> Oracle Data Integrator Server needs Master and Work Repository Database, which can be created on the same Data Warehousing Oracle Database Server created above.

- OBIEE Server—An Oracle Business Intelligence Enterprise Edition 12.2.1.4 Server must be installed before the Oracle Argus Analytics Installation. Follow platform-specific Oracle Business Intelligence Enterprise Edition Installation Guide for installation instructions.

For more information, see:

- Client Tools

Client Tools

- ETL Client Tools—Oracle Data Integrator Studio installation mentioned in the sever section above can be used as an ETL client to administer/manage ETL metadata.

> **Note:**
>
> Oracle recommends that you enable HTTPS on the middle-tier computer that is hosting the Oracle Business Intelligence Enterprise Edition Web services, because otherwise, the trusted user name and password that are passed can be intercepted.

2

Install Oracle Argus Analytics

> **Note:**
>
> This installation assumes that assumes the typical hardware configuration with an Oracle Database server, an ODI Studio, and a Windows Server 2012 R2 Standard (64 bit) with OBIEE Server, ODI Studio, and an Oracle Database Client.
>
> All installation and configuration actions must be performed as an administrator or root user.

In this chapter:

- Oracle Argus Analytics Upgrade Matrix
- Preinstallation Configuration
- Run the Oracle Argus Analytics Installer

Oracle Argus Analytics Upgrade Matrix

Before deciding on an upgrade for Oracle Argus Analytics, it is important that we first map ourselves as per our current Oracle Argus Analytics version and the tasks required to upgrade from one version to another.

The following matrix provides a high-level overview of the tasks to be performed to upgrade from one Oracle Argus Analytics version to another:

Current Oracle Argus AnalyticsRelease	Upgrade to Oracle Argus Analytics Release 1.1	Upgrade to Oracle Argus Analytics Release 1.1.1	Upgrade to Oracle Argus Analytics Release 7.0.3	Upgrade to Oracle Argus Analytics Release 8.0	Upgrade to Oracle Argus Analytics Release 8.1	Upgrade to Oracle Argus Analytics Release 8.1.1	Upgrade to Oracle Argus Analytics Release 8.2	Upgrade to Oracle Argus Analytics Release 8.2.1
1.0	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.

Current Oracle Argus AnalyticsRelease	Upgrade to Oracle Argus Analytics Release 1.1	Upgrade to Oracle Argus Analytics Release 1.1.1	Upgrade to Oracle Argus Analytics Release 7.0.3	Upgrade to Oracle Argus Analytics Release 8.0	Upgrade to Oracle Argus Analytics Release 8.1	Upgrade to Oracle Argus Analytics Release 8.1.1	Upgrade to Oracle Argus Analytics Release 8.2	Upgrade to Oracle Argus Analytics Release 8.2.1
1.1	Not applicable	Use Oracle Argus Analytics1.1.1 Installer to upgrade.	Use Oracle Argus Analytics 7.0.3 installer to make the upgrade.	Use Oracle Argus Analytics 8.0 installer to make the upgrade.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.
1.1.1	Not applicable	Not applicable	Follow the steps to Upgrade Oracle Argus Analytics from 1.1.1 to 7.0.3.	Use Oracle Argus Analytics 8.0 installer to make the upgrade.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.
7.0.3	Not applicable	Not applicable	Not applicable	Use Oracle Argus Analytics 8.0 installer to make the upgrade.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.	Cannot upgrade. Need to perform a fresh installation.
8.0	Not applicable	Not applicable	Not applicable	Not applicable	UseOracle Argus Analytics 8.1 installer to make the upgrade.	Cannot upgrade. Need to perform a fresh installation.	Use Oracle Argus Analytics 8.2 installer to make the upgrade.	Use Oracle Argus Analytics 8.2 installer to make the upgrade.
8.1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Use Oracle Argus Analytics 8.1.1 installer to make the upgrade.	Use Oracle Argus Analytics 8.2 installer to make the upgrade.	Use Oracle Argus Analytics 8.2 installer to make the upgrade.

Current Oracle Argus AnalyticsRelease	Upgrade to Oracle Argus Analytics Release 1.1	Upgrade to Oracle Argus Analytics Release 1.1.1	Upgrade to Oracle Argus Analytics Release 7.0.3	Upgrade to Oracle Argus Analytics Release 8.0	Upgrade to Oracle Argus Analytics Release 8.1	Upgrade to Oracle Argus Analytics Release 8.1.1	Upgrade to Oracle Argus Analytics Release 8.2	Upgrade to Oracle Argus Analytics Release 8.2.1
8.1.1	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	UseOracle Argus Analytics 8.2 installer to make the upgrade.	Use Oracle Argus Analytics 8.2 installer to make the upgrade.
8.2	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Not applicable	Use Oracle Argus Analytics 8.2.1 installer to make the upgrade.

This section describes the detailed Oracle Argus Analytics installation process. It also describes the pre and post Oracle Argus Analytics installation tasks that you must complete for different environments.

> **Note:**
>
> To connect to SQLPLUS, execute the following steps:
>
> 1. Open a command window in Windows. Alternatively, in Unix, type at the shell prompt.
>
> 2. Enter the sqlplus `<dbuser>@<tnsnames_entry>` command and press Enter.
>
> 3. Enter the password when prompted by the SQLPLUS program.

Preinstallation Configuration

1. The TNS entries for both the Data Mart Schema and the Oracle Argus Safety Database Schema should be present in the Oracle Business Intelligence Enterprise Edition 12c home in the path:

   ```
   <OracleBI Home>\user_projects\domains\<BI Domain
   Name>\config\fmwconfig\bienv\core\
   ```

2. Configuring the TNS for Oracle Client:

The TNS names entry for both Oracle Argus Analytics data mart and the Oracle Argus Safety Source system should be configured here:

`<Oracle Client Home>\network\admin\tnsnames.ora`

3. Configuring the TNS for Oracle Database Servers:

The TNS names entry for both Oracle Argus Analytics data mart and the Oracle Argus Safety Source system should be configured here:

a. Oracle Argus Safety DB Server: `<Oracle Client Home>\network\admin\tnsnames.ora`

This should contain the TNS entry for Oracle Argus Safety DB Server.

b. Oracle Argus Analytics DB Server: `<Oracle DB Home>\network\admin\tnsnames.ora`

This should contain the TNS entry for Oracle Argus Analytics Data DB Server.

4. Set up the Oracle Client Home in the PATH variable.

5. Set up an INSTALL (DBA) user:

a. Execute the **ancreatedbauser.bat** file from `<Argus Analytics Installer directory>\install\utils`.

b. Enter the following inputs:

- Database Connection String for Oracle Argus Safety or Oracle Argus Analytics DB

- Enter the user with SYSDBA privileges in <Argus Analytics/Argus Safety> database

- Enter password for <SYSDBA user> in <Argus Analytics/Argus Safety> database

- Enter DBA User to be created in <Argus Analytics/Argus Safety> database

- Enter password for <DBA user> in <Argus Analytics/Argus Safety> database

Repeat the procedure to create INSTALL(DBA) user for Oracle Argus Safety database, and Oracle Argus Analytics database.

> **Note:**
>
> - If the INSTALL (DBA) user already exits in the database, then the script provides the required additional grants to the user. If the user does not exists in the database, a new user is created, and necessary grants are provided.
>
> - When the installation is complete, you may drop this user from the database by executing the following command:`DROP USER <INSTALL (DBA) USER> CASCADE;`

6. Set up the TABLESPACES:

The installer creates new schemas in the data mart and prompts for the tablespaces to be used. It is recommended to create one default tablespace and a

temporary tablespace to be used for the new schemas that get created in both the Oracle Argus Analytics DB Instance and the Oracle Argus Safety DB Instance.

You can choose to create tablespaces either by executing a batch file or manually.

- To create tablespace from a **batch** file:

    a. Execute the **ancreatetablespace.bat** file from `<Argus Analytics Installer directory>\install\utils`.

    b. Enter the following parameters:

      – Database Connection String for Oracle Argus Safety or Oracle Argus Analytics DB

      – Enter the user with SYSDBA privileges in &db_mart. database

      – Enter password for &sysdba_user in &db_mart. Database

      – Enter the DATA Tablespace Name [e.g. AN_DATA_TS]

      – Enter the TEMP Tablespace Name [e.g. AN_TEMP_TS]

      – Enter the complete data file path

      – Tablespace Encryption Required [0 - No, 1 - Yes]

      – Tablespace Encryption Algorithm [e.g AES256]

    Repeat the procedure to create tablespaces for Oracle Argus Safety database and Oracle Argus Analytics database.

- To **manually** create the tablespaces, see the following examples:
  Default TABLESPACE [one each needed at the Oracle Argus Analytics DWH DB Server and Oracle Argus Safety DB Server]:

```
CREATE TABLESPACE <AN_DATA_TS>
DATAFILE '/DatafilePath/<AN_DATA_TS>_01.dbf'
SIZE 100M
AUTOEXTEND ON
NEXT 1M
LOGGING;
```

  Temporary TABLESPACE [one each needed at the Oracle Argus Analytics DWH DB Server and Oracle Argus Safety DB Server]:

```
CREATE TEMPORARY TABLESPACE <AN_TEMP_TS>
TEMPFILE '/Tempfile Path/<AN_TEMP_TS>_01.dbf'
SIZE 100M
AUTOEXTEND ON
NEXT 1M;
```

Next:

- [Configure ETL Client on Oracle Data Integrator](#)

Configure ETL Client on Oracle Data Integrator

This section lists steps to configure ETL Client on Oracle Data Integrator and install ODI Studio and create master and work repository.

Before configuring ODI Settings, you must install ODI Studio and configure an agent (either Standalone Agent, Java EE Agent, or Colocated Agent).

Oracle Data Integrator 12c has the following types of installation:

- Enterprise Installation—Enables you to deploy Oracle Data Integrator Studio along with the binaries to configure either Java EE Agent, or Colocated Agent.

- Standalone Installation—Enables you to deploy Oracle Data Integrator Studio along with the binaries to configure Standalone Agent.

To understand the agent topologies for the best suitable installation, Oracle recommends you to refer *Oracle Data Integrator Install and Configuration Guide > Planning the Oracle Data Integrator Installation section*.

When installing the Oracle Data Integrator, note down the SUPERVISOR credentials, and Master and Work Repository credentials.

For more details, refer to the *Oracle Data Integrator Install and Configuration Guide* for Oracle Data Integrator 12.2.1.3:

https://docs.oracle.com/middleware/12213/lcm/ODING/toc.htm#ODING

Run the Oracle Argus Analytics Installer

The basic Oracle Argus Analytics components are installed using the Oracle Universal Installer. The installer gathers all the information about the database connectivity, data mart, sequence of prompt screens and then installs the components accordingly. This installer needs to be executed in the Oracle Argus Analytics server where Oracle client is installed.

> **Note:**
>
> Make sure that PERL is present in the system path before running the installer.

For more information, see:

- Launch the Universal Installer
- Complete the Oracle Argus Analytics Installer Process

Launch the Universal Installer

1. Extract the contents of the media pack into a temporary directory (For example: `C:\argus_analytics_temp`).

2. Navigate to the `\install` directory under the extracted temporary folder.

3. Double-click the `setup.exe` file to launch the Oracle Universal Installer with the Welcome screen.

Complete the Oracle Argus Analytics Installer Process

The installer will take you through a series of prompts. Attend to the Installer's prompts. The following sections describe each Installer screen, and the required action.

1. **Choice of New Install / Upgrade from Previous Versions**

Select if Oracle Argus Analytics is a fresh installation or an upgrade installation which is supported from Oracle Argus Analytics 8.2 to 8.2.1.

> **Note:**
>
> The upgrade path installation needs information to be provided on the previous Oracle Argus Analytics installation details.

2. **Oracle Argus Analytics Home Path**

   The Oracle Argus Analytics Home path is the location where all the staged files from the Installer will get copied to the local machine. This is also the location from where the Installer would execute the database scripts.

   Home Name: ANHome1

   Path: C:\argus_analytics

   Click **Next**.

> **Note:**
>
> In case of Installation choice as upgrade path, provide the previously installed Oracle Argus Analytics Home details.

3. **Oracle Argus Analytics (File Drop/Database Upgrade)**

   Do you want to just drop files?

   - **Yes:**This option does not install or upgrade the database. Instead it only copies the files from the installer location to Oracle Argus Analytics Home, and jumps to Step 8 Summary Screen.

   - **No:** This option copies the files from the installer location to Oracle Argus Analytics Home and database install or upgrade is executed simultaneously. The installer continues to Step 4 to prompt for necessary details.

4. **Select the Choice of New Install / Upgrade from Oracle Argus Analytics 8.2**

   For new or upgrade install, corresponding details will be asked. These details are explained in the respective sections below.

5. **Oracle Argus Safety Database Details**

   This screen collects all information about the source Oracle Argus Safety database.

   Supply the values for:

   - Oracle Argus Safety Database Connect String

   - Oracle Argus Safety Schema, Password

   - Oracle Argus Safety DBA User: Enter the custom INSTALL(DBA) user name (created in Preinstallation Configuration > Step 5).

   - Oracle Argus Safety DBA Password: Password of the INSTALL(DBA) user

   - VPD Schema Name

ORACLE

- ESM Schema Owner

- ESM Schema Password

- Oracle Argus Analytics Source Schema and Password

- Oracle Argus Analytics Source RPD Schema and Password

- Oracle Argus Analytics Source Work Schema and Password

- Oracle Argus Analytics Source Default Tablespace [<AN_DATA_TS>]

- Oracle Argus Analytics Source Temp Tablespace [<AN_TEMP_TS>]

> **Note:**
>
> Oracle Argus Analytics Source schema, Oracle Argus Analytics Source RPD schema, and Oracle Argus Analytics Source Work schema are the new schemas which would get created by the installer to store the views for all Oracle Argus Safety Source tables that are needed for the ETL and reporting process. You must ensure that these are not pre-existing schemas before running the Oracle Argus Analytics Installer.
>
> If **Upgrade Install** is chosen, provide the existing details of Oracle Argus Analytics Schemas respectively.

For example:

- Oracle Argus Safety Database Connect String: AS70X_SID

- Oracle Argus Safety Schema: ARGUS_APP

- Oracle Argus Safety Password: <ARGUS_APP user's password>

- Oracle Argus Safety DBA User Name: <INSTALL user name>

- Oracle Argus Safety DBA User Name: <INSTALL user's password>

- VPD Schema: VPD_ADMIN

- ESM Schema Owner: ESM_OWNER

- ESM Schema Password: < ESM_OWNER's password>

Click **Next**

- Oracle Argus Analytics Source Schema: AN_SRC

- Oracle Argus Analytics Source Password: <AN_SRC password>

- Oracle Argus Analytics Source RPD Schema: AN_SRC_RPD

- Oracle Argus Analytics Source RPD Password: <AN_SRC_RPD password>

- Oracle Argus Analytics Source Work Schema: AN_SRC_WRK

- Oracle Argus Analytics Source Work Password: <AN_SRC_WRK password>

- Oracle Argus Analytics Source Default Tablespace: <AN_DATA_TS>

- Oracle Argus Analytics Source Temp Tablespace: <AN_TEMP_TS>

6. **Oracle Argus Analytics Data Mart Details**

This screen collects all the information regarding the Oracle Argus Analytics data mart details.

The following are the details of the data mart:

- DWH Data Mart DB Connect String

- DWH Data Mart DBA User name: Enter the customer INSTALL(DBA) User Name (created in Preinstallation Configuration > Step 5).

- DWH Data Mart DBA User Password: Password of the INSTALL(DBA) user

- DWH Schema and Password

- DWH RPD Schema and Password

- DWH Work Schema and Password

- DWH Default Tablespace

- DWH Temporary Tablespace

> **Note:**
>
> DW Schema, DWH RPD Schema, and DWH Work Schema are the new schemas that will be created by the installer to store the ETL data. Oracle Argus Analytics RPD schema is the schema which would contain the synonyms of all the data mart tables and is used by Oracle Business Intelligence reports.
>
> Tablespaces that are going to be specified here should have got created during the pre-installation steps.
>
> If **Upgrade Install** is chosen, provide the existing details of Oracle Argus Analytics Schemas respectively.
>
> If the Oracle Argus Safety System is a multi-tenant application, the VPD policy and additional contexts are created during installation with names predefined as:
>
> - VPD Policy Names:
>
>   <AN_SRC>_src_vpd
>
>   <AN_DWH>_dwh_vp
>
> - Contexts:
>
>   <AN_SRC>_src_ctx
>
>   <AN_DWH>_dwh_ctx
>
> - Exadata Context:
>
>   <AN_DWH>_exa_ctx

For example:

- DW Database Connect String: ANDWH_SID

- DW DBA User Name: <INSTALL user name>

- DW DBA User Password: <INSTALL user's password>

- Oracle Argus Analytics DW Schema: AN_DWH

- Oracle Argus Analytics DW Password: <password for AN_DWH schema>

- Oracle Argus Analytics RPD Schema: AN_DWH_RPD

- Oracle Argus Analytics RPD Password: <password for AN_DWH_RPD schema>

- Oracle Argus Analytics Work Schema: AN_DWH_WRK

- Oracle Argus Analytics Work Password: <password for AN_DWH_WRK schema>

- DW Default table space: <AN_DATA_TS>

- DW Temporary tablespace: <AN_TEMP_TS>

Click **Next**.

7. **Exadata Database**

If the Datawarehouse DB Server is Exadata, select **Yes**.

8. **Summary Screen**

Verify setting => details provided in the summary screen and click **Install**.

The installer will stage the required components into the Oracle Argus Analytics home and will create the Data Mart schemas, RPD & WORK schemas. In addition, it will also create contexts and VPD policy if the Oracle Argus Safety installation is a multitenant application.

After the installation has been completed, the install log can be verified from the following path or from your local Oracle Inventory logs folder.

```
<Argus Analytics Home>\install\pvadriverscript<timestamp>.log
```

This log file must be verified to ensure that the installer has completed successfully.

3

Oracle Data Integrator Smart Import and Topology Configuration (Oracle Data Integrator only)

In this chapter:

Connect to Oracle Data Integrator Studio

1. Execute the following procedures from:

   a. *Oracle Data Integrator Install and Configuration Guide* > Configuring Oracle Data Integrator Studio > Starting ODI Studio.

   b. *Oracle Data Integrator Install and Configuration Guide* > Configuring Oracle Data Integrator Studio > Connecting to the Master Repository.

2. Create a Work Repository Login by following the same steps as in *Step 1 b > Connecting to the Master Repository*.
   In the Work Repository section, select a work repository from the find list instead on **Master Repository Only** option. For example, name the repository as `AN Work Repository`.

   Refer to the *Oracle Data IntegratorInstall and Configuration Guide* for Oracle Data Integrator 12.2.1.3:

   `https://docs.oracle.com/middleware/12213/lcm/ODING/toc.htm#ODING`

Execute the Oracle Data Integrator Smart Import

1. Log in to the work repository in Oracle Data Integrator Studio by selecting the **AN Work Repository** connection.

2. Select the **Connect Navigator** drop-down list from the top right on the **Designer** tab and click **Import**.
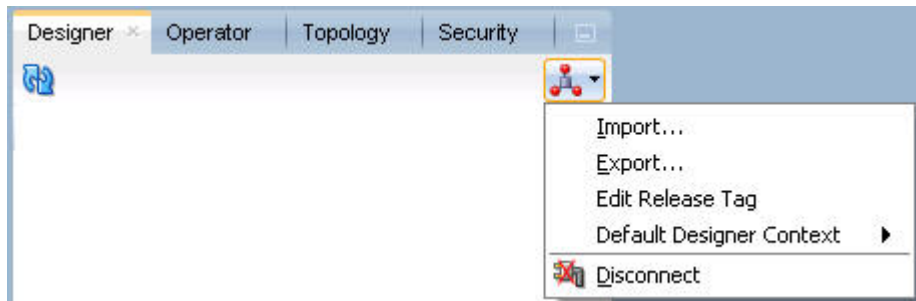
3. Select **Smart Import** from the **Import Selection** menu and click **OK**.
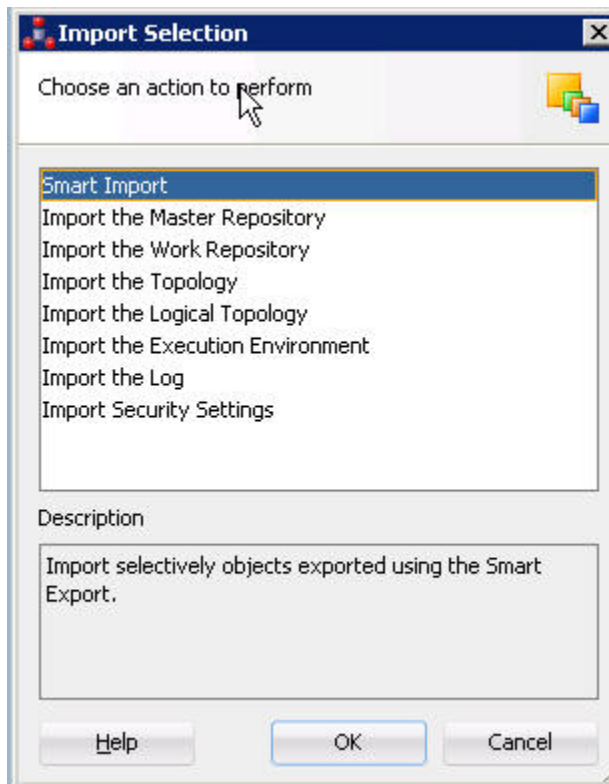
The **Smart Import Wizard** is displayed.

4. Select the zip file called **an.zip** from the `<AN_INSTALL_HOME>\odi` directory in the File Selection textbox and click **Next**. The files can also be browsed by clicking on the symbol available with the textbox.
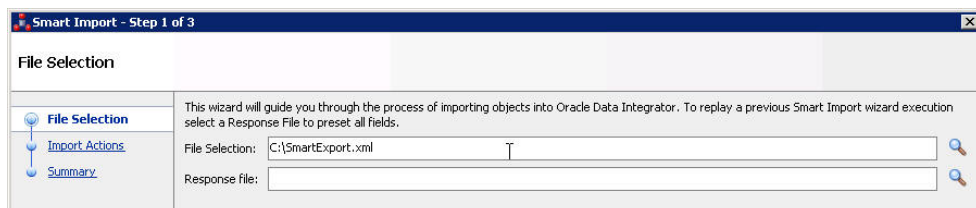
5. Oracle Data Integrator imports the file and checks for any issues that can occur while importing Oracle Data Integrator objects. If issues are found, then the same will be displayed in import actions window. Click **Next** if no issues are found.

6. Click **Finish**.

   This imports all the Oracle Argus Analytics objects in Oracle Data Integrator repository and makes them visible in the Oracle Data Integrator Studio Console.

Configure the Topology in Oracle Data Integrator Studio

1. Open the Oracle Data Integrator Studio and connect as Oracle Argus Analytics Work Repository.

2. Navigate to **Topology**.

3. Select the **Physical Architecture** tab.

4. Expand the tree structure to expose the following:

   Technologies > Oracle >

5. Edit the node DS_AN_ArgusAnalytics.

6. Edit the following fields in the Definition window:

   • Instance/dblink (Data Server):

     The complete TNS entry of the DWH server should be pasted here in a single line:

     (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST = <DWH_DB_SERVER>)(PORT = <DWH_DB_LISTENER_PORT>)) (CONNECT_DATA =(SERVICE_NAME=<DWH_DB_SERVICE_NAME>)))

   • Connection:

     – User: <AN_DWH_WRK> [the DWH work schema user created during installation]

     – Password: <AN_DWH_WRK_PASS> [The password for the DWH Work schema]

7. In the JDBC window, edit one of the following fields:

   • JDBC URL: jdbc:oracle:thin: <DWH_DB_SERVER>:<DWH_DB_LISTENER_PORT>:<DWH_DB_SID>

   • jdbc:oracle:thin: <DWH_DB_SERVER>:<DWH_DB_LISTENER_PORT>/ <DWH_DB_SERVICE_NAME>

   Use the jdbc connection string with database SERVICE_NAME in case the Oracle Database version is 12c.

8. Save the details and click **Test Connection** to validate it.

9. Expand the tree below DS_AN_ArgusAnalytics to expose the tree node DS_AN_ArgusAnalytics.AN_DWH.

10. Edit the node DS_AN_ArgusAnalytics.AN_DWH.

11. Change the Schema by selecting from the drop-down list for the following fields:

    • Schema (Schema): <AN_DWH>

    • Schema (Work Schema): <AN_DWH_WRK>

12. Save the changes.

13. Similarly, edit the node DS_AN_ARGUS_SAFETY to provide information on the Oracle Argus Safety DB Server.

14. Edit the following fields in the Definition window:

    • Instance/dblink (Data Server):

      The complete TNS entry of the DWH server should be pasted here in a single line:

      (DESCRIPTION = (ADDRESS = (PROTOCOL = TCP)(HOST = <AS_DB_SERVER>)(PORT = <AS_DB_LISTENER_PORT>)) (CONNECT_DATA =(SERVICE_NAME=<AS_DB_SERVICE_NAME>)))

    • Connection:

      – User: <AN_SRC_WRK> [the AN Source Work Schema user created during installation]

      – Password: <AN_SRC_WRK_PASS> [The password for the AN Source Work Schema]

15. In the JDBC window, edit one of the following fields:

    • JDBC URL: jdbc:oracle:thin: <AS_DB_SERVER>:<AS_DB_LISTENER_PORT>:<AS_DB_SID>

    • jdbc:oracle:thin: <AS_DB_SERVER>:<AS_DB_LISTENER_PORT>/ <AS_DB_SERVICE_NAME>

    Use the jdbc connection string with database SERVICE_NAME in case the Oracle Database version is 12c.

16. Save the details and click **Test Connection** to validate it.

17. Expand the tree below DS_AN_ArgusSafety to expose the tree node DS_AN_ArgusSafety.AN_SRC.

18. Edit the node DS_AN_ArgusSafety.AN_SRC.

19. Change the Schema by selecting from the drop-down list for the following fields:

    • Schema (Schema): <AN_SRC>

    • Schema (Work Schema): <AN_SRC_WRK>

20. Save the changes.

Configure the Oracle Data Integrator Agent

You need to configure either one of the agents: Java EE Agent, Colocated Agent, or Standalone Agent.

To understand the agent topologies for the best suitable installation, Oracle recommends you to refer the *Oracle Data Integrator Install and Configuration Guide > Planning the Oracle Data Integrator Installation section*.

When installing the Oracle Data Integrator, use SUPERVISOR credentials, and Master and Work Repository credentials as created in the Configure ETL Client on Oracle Data Integrator.

> **Note:**
>
> Make sure to create the agent with name *PA_AN*, as the same is available in Oracle Argus Analytics Oracle Data Integrator code.

For more details, refer to the *Oracle Data Integrator Install and Configuration Guide* for Oracle Data Integrator 12.2.1.3:

https://docs.oracle.com/middleware/12213/lcm/ODING/toc.htm#ODING
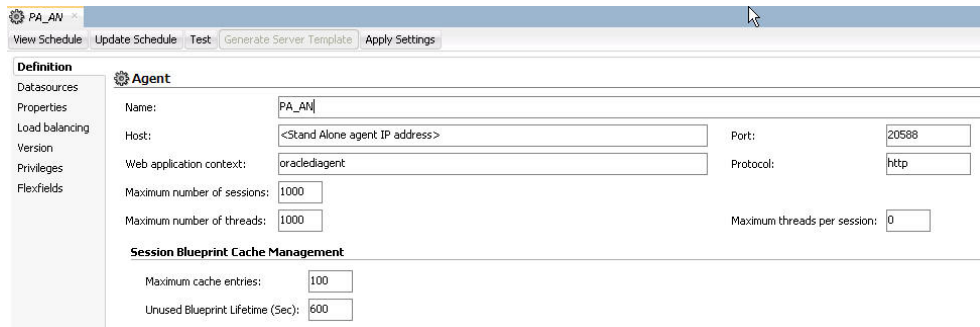
For topics with further information, see:

- Configure the Standalone Oracle Data Integrator Agent

Configure the Standalone Oracle Data Integrator Agent

- Use the ODI Studio Topology Manager to edit the standalone agent PA_AN definition. And save the information as per the installation done for Oracle Data Integrator.

> **Note:**
>
> The Host field contains the Host name where the Oracle Data Integrator Agent will be running. In this example, the host is on the same server, and the default port number used is 20910.
>
> Change the Port Number to any value other than the default to avoid conflicts with other installations (for example, 20920).

> **Note:**
>
> Before making Oracle Argus Analytics Oracle Business Intelligence Enterprise Edition URL available to the end users, the Initial/Full load ETL (LP_FL_AN) in Oracle Data Integrator should be successfully run.
>
> To run the ETLs in Oracle Data Integrator and for more information on ODI Configurable Parameters, refer to the **Executing the ETL Load Plans in ODI** section in the **Oracle Argus Analytics User Guide**.
>
> Refer to the following table. In Oracle Data Integrator, the VPD Policies on the warehouse tables do not get disabled during the execution of the ETLs (Full/Incremental) for a multi-tenant installation.

Table 3-1   Oracle Data Integrator Parameters

Parameters	Load Type	Description	Allowed Values
VAR_ALN_PERIOD_FROM_DATE	Full Load	The start date of the days to populate from in the W_DAY_D/PVA_DAY table. It should be in the format: MM/DD/RRRR	Date values such as: 01/01/1980 Recommended value: 01/01/1980
VAR_ALN_PERIOD_TO_DATE	Full Load	The end date of the days to populate till in the W_DAY_D/PVA_DAY table. It should be in the format: MM/DD/RRRR	Date values such as: 12/31/2019 Recommended Value: 12/31/2019
VAR_INT_TRUNCATE_STAGE	Both	This variable is used to decide whether to truncate the stage table or not and is useful in multiple Oracle Argus Safety DB support	Valid values:0: Does not truncate Stage table1: Truncate Stage tableShould be specified as 1 always in case of Single Oracle Argus Safety Instance as source information Recommended Value: 1
VAR_INT_COLLECT_STATISTICS	Both	This variable is used to decide whether the statistics of the target tables need to be collected or not.	Default Value: 1 Values Accepted: 0,1 0: Load Plans will not collect statistics 1: Load Plans will collect statistics after loading data

Table 3-1   (Cont.) Oracle Data Integrator Parameters

Parameters	Load Type	Description	Allowed Values
VAR_ALN_ENTERPRISE	Both	The specific Enterprise ID to run the ETL for.	-1: Runs the ETL for the entire Warehouse 0: Runs the ETL for all the enterprises the user ($$p_user_name) has access to Integer Value [1,2,3, etc]: Runs the Incremental ETL for the specified Enterprise only. **Note:** For Full Load, this value has to be -1.
VAR_ALN_ERROR_REJECT_LIMIT	Both	This variable is used to set the number of rows that will be tracked in the respective error tables prior to aborting the ETL in case of errors.	Valid Values: Positive Integer numbers: (E.g. 0, 100, 1000, etc.) UNLIMITED: All the error records are logged Recommended Value: UNLIMITED
VAR_ALN_USER_NAME	Both	The user name for which the ETL shall use to set the VPD Context for the specified enterprise in the parameter: VAR_ALN_ENTERPRISE. This value should be passed inside single quotes: such as 'username'.	Default value: 'admin'
VAR_INT_RAISE_ERROR	Both	Setting this variable to 0 or 1 will appropriately either stop a Load Plan/ Interface or continue the same when data errors are encountered during the load.	0: Do not raise data error when encountered during ETLs 1: Raise data error when encountered during ETLs Recommended Value: 1
VAR_INT_CONFIG_DAYS	Incremental Load	Reduces the incremental extract window by the specified number of days. For example: Extract all changed rows between LAST_EXTRACT_DATE and (SYSDATE - $$p_config_days)	Integers Recommended Value: 0

Modify Oracle Data Integrator Java EE Agent Connection Pool Settings

> **✎ Note:**
>
> This section is applicable only if you are using Oracle Data Integrator Java EE Agent.

After configuring the Oracle Data Integrator 12c Java EE Agent, follow these steps to increase the size of the connection pool to enable parallel step executions as appropriate for Argus Analytics:

1. Open the Oracle Data Integrator WLS administration console (ex: `http://<ODI server name>:<ODI port number>/Console`)

2. Navigate to **Services** > **Datasources** > **odiMasterRepository**

3. Go to the tab **Configuration** > **Connection Pool**

4. Change the Maximum Capacity to 50.

5. Repeat these steps for increasing the connection pool size for the datasource odiWorkRepository as well.

   Without increasing the connection pool size the Oracle Argus Analytics ETLs will fail.

4

Configure Oracle Business Intelligence Enterprise Edition Repository and Webcatalog

In this chapter:

- Prerequisites
- Deploy Oracle Business Intelligence Enterprise Edition Repository and Catalog
- Create Users and Groups in Oracle Business Intelligence Enterprise Edition
- Create Roles and Policies with Oracle Fusion Middleware Control
- Oracle Business Intelligence Enterprise Edition Catalog Folder-level Permissions
- Oracle Business Intelligence Enterprise Edition Default Application Roles
- Change the Oracle Business Intelligence Enterprise Edition RPD Password

Prerequisites

Make sure Oracle Business Intelligence Enterprise Edition 12c (12.2.1.4) with latest patch set is installed and the Administrator Console and the Oracle Enterprise Manager (Oracle Fusion Middleware Control) is running by checking the following URLs:

- `http://<machinename>.<port>/console`
- `http://<machinename>.<port>/em`

> **Note:**
>
> Port 9500 is the default Weblogic port. It may change based upon the system configuration. Check with your Oracle WebLogic Server administrator for the correct port number if the above port does not work as expected.

For more information, see:

- Upgrade the Oracle Argus Analytics RPD and Catalog (Upgrade Install Only)

Upgrade the Oracle Argus Analytics RPD and Catalog (Upgrade Install Only)

> **Note:**
>
> Catalog and RPD upgrade are not available from Oracle Argus Analytics 1.1/1.1.1/7.0.3/8.0/8.1/8.1.1/8.2. Use the latest catalog provided with the AN 8.2.1 installation (present at `<AN_INSTALL_HOME>/catalog/opva.zip`) for deployment.

For more information, see:

- Upgrade RPD
- Upgrade the Oracle Argus Analytics Catalog

Upgrade RPD

The following steps upgrades the Oracle Argus Analytics 8.2 RPD to the latest code in Oracle Argus Analytics 8.2.1.

> **Note:**
>
> **If there have been no customizations to the existing AN RPD, you can skip this section**, because the latest RPD is already present at `<AN_INSTALL_HOME>/repository/opva.rpd`.

To upgrade the Oracle Argus Analytics RPD (if required):

1. Open the existing Oracle Argus Analytics RPD file that you wish to upgrade to Oracle Argus Analytics 8.2.1 in the Oracle Business Intelligence Administration Tool in offline mode.

2. Provide the repository password.

3. From the menu, select **File > Merge**.

4. Select the **Full Repository Merge** radio button.

5. Select the button to choose the Original Master Repository, and click **Repository**.

   This opens the file dialog window to choose a repository file.

6. Select the existing Oracle Argus Analytics RPD file.

7. Enter the repository password as `opva123`.

8. Similarly, select the button to choose the Modified Repository and click the **Repository**.

   This opens the file dialog window to choose a repository file.

9. Select the Oracle Argus Analytics 8.2.1 RPD file present at `<AN_INSTALL_HOME>/repository/opva.rpd`.

10. Enter the repository password as `opva1234`.

11. Provide a file name for the merged repository file to be saved.

12. Provide the merged repository password as `opva1234`.

13. Click **Next**.

    This generates the merged RPD, which is upgraded to the Oracle Argus Analytics 8.2.1 release.

14. Copy this file to another location and rename it back to `opva.rpd`, which will later be used to deploy on the Oracle Business Intelligence Enterprise Edition Server.

Upgrade the Oracle Argus Analytics Catalog

Catalog upgrade from Oracle Argus Analytics 1.1/1.1.1/7.0.3/8.0/8.1/8.1.1/8.2 is not available. Use the latest catalog provided with the Oracle Argus Analytics 8.2.1 installation (present at `<AN_INSTALL_HOME>/catalog/opva.zip`) for deployment.

Deploy Oracle Business Intelligence Enterprise Edition Repository and Catalog

In this section:

- Configure the Oracle Business Intelligence Enterprise Edition Repository and Web Catalog using the BAR File
- Import the BAR file when creating a new Oracle Business Intelligence Enterprise Edition Instance
- Configure Oracle Business Intelligence Enterprise Edition Repository and Web Catalog Manually
- Post-deployment of the Oracle Argus Analytics RPD

Configure the Oracle Business Intelligence Enterprise Edition Repository and Web Catalog using the BAR File

> **✎ Note:**
>
> The default password for the `opva.rpd` repository file is `opva1234`. You should change this password, as per your requirement prior to deployment in Oracle Business Intelligence Enterprise Edition, using the Oracle Business Intelligence Enterprise Edition Administrator Tool. You must remember to use this password in the steps mentioned below.

Oracle Business Intelligence Application Archive (BAR) file is a compressed archive file that contains a cohesive set of Oracle Business Intelligence metadata artifacts (data model, content model, and authorization model). The Oracle Business Intelligence Enterprise Edition BAR file for Oracle Argus Analytics is available at the following location:

`<Argus Analytics Home>\report\ssi.bar`

A BAR file contains the following Oracle Business Intelligence application module artifacts:

- Data model metadata for the Oracle Business Intelligence Server. This metadata is xml-based but functionally equivalent to an .RPD file.
- Presentation Services catalog metadata for a service instance.
- Security policy metadata containing application role and application role memberships, and permission and permission set grants for a service instance.
- A manifest file declaring the dependencies of the BAR file.

> **✎ Note:**
>
> Importig a BAR file replaces all the Catalog files, RPD files, and the Security Model in an existing Oracle Business Intelligence Enterprise Edition instance with any customization.
>
> It is recommended that the BAR file import is done on a new Oracle Business Intelligence Enterprise Edition instance.

For more information, see:

- Import the BAR file in an existing Oracle Business Intelligence Enterprise Edition instance
- Check if the BAR file has imported RPD, Catalog, and the Security Mode

Import the BAR file in an existing Oracle Business Intelligence Enterprise Edition instance

Before importing the BAR file, make sure:

- Oracle Business Intelligence Enterprise Edition 12.2.1.4 is installed
- The Administrator Console is up and running
  (validate it from `http://<machinename>.<port>/console`)
- The Oracle Enterprise Manager (Oracle Fusion Middleware Control) is up and running
  (validate it from `http://<machinename>.<port>/em`)

To import the BAR file:

1. Copy the BAR file from `<Argus Analytics Home>\report\ssi.bar` to a machine where the Oracle Business Intelligence Enterprise Edition is installed.

2. Login to the Oracle Enterprise Manager with the WebLogic credentials.

3. Click **Target Navigation**.

The Target Navigation drop-down menu appears.

4. Go to **Business Intelligence** > **biinstance**.

The Business Intelligence Instance screen appears.

5. From the Availability tab, select **Processes**, and click **Stop All**.

A confirmation dialog box appears.

6. Click **Yes**.

All the running processes are stopped.

7. Go to the command prompt, and start the WebLogic Scripting Tool (using wlst.cmd (for Windows), or wlst.sh (for Unix or Linux)) from the following path:

```
<Middleware Home>\oracle_common\common\bin
```

8. To know the **BI Service Instance key**, type the following command, and press **Enter**.

```
listBIServiceInstances(<BI DomainHome path>)
```

where, Domain Home is the directory of the BI Install domain, the default path is:

```
<obiee_home>/user_projects/domains/bi
```

The Key appears at the end of the command.

> **Note:**
>
> All the WLST commands are case sensitive.
> To start the WebLogic Scripting Tool on Unix or Linux, use wlst.sh command, rest all of the commands mentioned in the procedure remains same.
>
> While executing the WLST on Windows server, you must use forward slash (/) to avoid any error messages.

9. Exit WLST using the **exit ()** command.

10. To import the BAR file, Go to the Domain Home path `<obiee_home>/user_projects/domains/bi/bitools/bin` and execute the command, importarchive.cmd Oracle Business Intelligence Service Instance key `<Complete path of Bar file to import>`

BI Service Instance Key: `ssi` (This key must be **ssi** for Oracle Argus Analytics deployment). For example,

```
importarchive.cmd ssi C:\an821\ssi.bar
```

11. Go to Oracle Enterprise Manager, from the Availability tab, select **Processes**, and click **Start All**.

A confirmation dialog box appears.

12. Click **Yes**.

The BAR file imports the RPD, Catalog and the Security model.

Check if the BAR file has imported RPD, Catalog, and the Security Mode

1. To verify the Roles and Policies imported by BAR file in the Oracle Enterprise Manager, go to **Business Intelligence Instance** > **Security** > **Application Roles and Application Policies**.

   The following roles are imported as deafult application roles:

   - PVAdminRole
   - PVASafetyRole
   - PVASafetyConsumersRole

2. To modify the Connection Pool Settings:

   a. From the following path, right click the **admintool.cmd** file, and click **Run as Administrator**

      `<MiddlewareHome>\user_projects\domains\bi\bitools\bin`

      The Oracle Business Intelligence Tool opens.

      > **Note:**
      >
      > If Oracle Business Intelligence Enterprise Edition is installed on Unix or Linux machine, then you must setup the Oracle Business Intelligence Developer Client tool on any windows machine to access Oracle Business Intelligence Administration Tool.
      > See Create ODBC Connection for Oracle Business Intelligence Enterprise Edition Administration Tool.

   b. To open the RPD, select the online mode, and enter WebLogic user credentials.

      > **Note:**
      >
      > You must set the Open Database Connectivity (ODBC).
      >
      > To open the RPD in the online mode on Unix or Linux, set the ODBC on a Windows machine where Oracle Business Intelligence Enterprise Edition client is installed, and open the RPD.

   c. Click the **Connection Pool**, and modify the **Data Source name**, **User name**, and **Password**.

      Modify both the following connection pools:

      - Under OPVA_DWH database:
        - OPVA_CP:
          * Data Source Name--Oracle Argus Analytics database TNS Name
          * User name--Oracle Argus Analytics DWH RPD schema <AN_DWH_RPD>

* Pasword--Password for Oracle Argus Analytics DWH RPD schema

– OPVA_CP_InitBlocks:

* Data Source Name--Oracle Argus Analytics database TNS Name

* User name--Oracle Argus Analytics DWH RPD schema <AN_DWH_RPD>

* Password--Password for Oracle Argus Analytics DWH RPD schema

• Under OPVA_SRC database:

– OPVA_CP:

* Data Source Name--Oracle Argus Safety database TNS Name

* User name--Oracle Argus Analytics SRC RPD schema <AN_SRC_RPD>

* Password--Password for Oracle Argus Analytics SRC RPD schema

3. Check-in the changes, and save the RPD

   Ignore the warning message that appear during the consistency check.

4. To view and administer privileges for the Oracle Business Intelligence components, login to Oracle Business Intelligence Enterprise Edition Analytics (`http://obieeset.com:port/analytics`) with WebLogic user credentials.

5. Go to **Security** > **Administration** > **Manage Privileges**.

   For a list of privileges assigned to the Oracle Business Intelligence Application roles, refer to Oracle Business Intelligence Enterprise Edition Default Application Roles.

6. Go to **Catalog**, and set the folder level permissions for the Oracle Business Intelligence Enterprise Edition Groups. (See Oracle Business Intelligence Enterprise Edition Catalog Folder-level Permissions)

7. Create Oracle Business Intelligence Enterprise Edition Groups and Users. (See Create Users and Groups in Oracle Business Intelligence Enterprise Edition)

Import the BAR file when creating a new Oracle Business Intelligence Enterprise Edition Instance

1. Copy the BAR file from `<Argus Analytics Home>\report\ssi.bar` to a machine where the Oracle Business Intelligence Enterprise Edition is installed.

   When creating an instance in Oracle Business Intelligence Enterprise Edition 12c, on the Oracle Business Intelligence Enterprise Edition Initial Application wizard screen, select **Your own existing BI Application from export bunder (.jar file)** option, and enter the **Path** of the `Argus Analytics ssi.bar` file.

2. To modify the Connection Pool Settings:

   a. From the following path, `<MiddlewareHome>\user_projects\domains\bi\bitools\bin`, right click the `admintool.cmd` file, and click **Run as Administrator**.

   The Oracle Business Intelligence Administration Tool opens.

> ✎ **Note:**
>
> You must set the Open Database Connectivity (ODBC).
> To open the RPD in online mode on Unix or Linux, set the ODBC on a Windows machine where Oracle Business Intelligence Enterprise Edition client is installed, and open the RPD.

b. To open the RPD, select the online mode, and enter the Oracle WebLogic Server user credentials.

> ✎ **Note:**
>
> You must set the Open Database Connectivity (ODBC).
> To open the RPD in online mode on Unix or Linux, set the ODBC on a Windows machine where Oracle Business Intelligence Enterprise Edition client is installed, and open the RPD.

c. Click the **Connection Pool**, and modify the **Data source name**, **User name**, and **Password**.

Modify both the following connection pools:

- Under OPVA_DWH database:
  - OPVA_CP:
    * Data Source Name—Argus Analytics database TNS Name
    * User name—Argus Analytics DWH RPD schema <AN_DWH_RPD>
    * Password—Password for Argus Analytics DWH RPD schema
  - OPVA_CP_InitBlocks:
    * Data Source Name—Argus Analytics database TNS Name
    * User name—Argus Analytics DWH RPD schema <AN_DWH_RPD>
    * Password—Password for Argus Analytics DWH RPD schema
- Under OPVA_SRC database:
  - OPVA_CP:
    * Data Source Name—Argus Safety database TNS Name
    * User name—Argus Analytics SRC RPD schema <AN_SRC_RPD>
    * Password—Password for Argus Analytics SRC RPD schema

3. Check-in the changes, and save the RPD.

Ignore the warning messages that appear during the consistency check.

4. To view and administer privileges for the Oracle Business Intelligence components, login to Oracle Business Intelligence Enterprise Edition Analytics (`http://obieeser.com:port/analytics`) with WebLogic user credentials.

5. Go to **Security** > **Administration** > **Manage Privileges**.

   For a list of privileges assigned to the Oracle Business Intelligence Application roles, refer to Oracle Business Intelligence Enterprise Edition Default Application Roles.

6. Go to Catalog, and set the folder level permissions for the Oracle Business Intelligence Enterprise Edition Groups. (See Oracle Business Intelligence Enterprise Edition Catalog Folder-level Permissions)

7. Create Oracle Business Intelligence Enterprise Edition Groups and Users. (See Create Users and Groups in Oracle Business Intelligence Enterprise Edition)

Configure Oracle Business Intelligence Enterprise Edition Repository and Web Catalog Manually

1. Copy the RPD, and Catalog files from `<Argus Analytics Home>\report\opva.rpd and report\catalog\opva.zip folders` to a machine where the Oracle Business Intelligence Enterprise Edition is installed.

2. Open the RPD Admin tool in offline mode from the following path: `<Middleware Home>\user_projects\domains\bi\bitools\bin\admintool.cmd`

3. Open the **opva.rpd** file in offline mode. (The default password of the repository is opva1234

4. Click the **Connection Pool**, and modify the **Data source name**, **User name**, and **Password**.

   Modify the following connection pools:

   - Under OPVA_DWH database:
     - OPVA_CP:
       * Data Source Name—Argus Analytics database TNS Name
       * User name—Argus Analytics DWH RPD schema <AN_DWH_RPD>
       * Password—Password for Argus Analytics DWH RPD schema
     - OPVA_CP_InitBlocks:
       * Data Source Name—Argus Analytics database TNS Name
       * User name—Argus Analytics DWH RPD schema <AN_DWH_RPD>
       * Password—Password for Argus Analytics DWH RPD schema
   - Under OPVA_SRC database:
     - OPVA_CP:
       * Data Source Name—Argus Safety database TNS Name
       * User name—Argus Analytics SRC RPD schema <AN_SRC_RPD>
       * Password—Password for Argus Analytics SRC RPD schema

5. Save the changes, and close the RPD.

6. From the command prompt:

   a. Navigate to the `<Middleware Home>\user_projects\domains\bi\bitools\bin`

b. Run the following command:

```
datamodel.cmd uploadrpd -I <RPDname> [-W <RPDpwd>] -U <cred_username>
[-P <cred_password>] -SI <service_instance>

For example,
datamodel.cmd uploadrpd -I C:\temp\opva.rpd -W opva1234 -U <username> -P
<password> -SI ssi
```

> **Note:**
>
> In Linux, execute the data-model-cmd.sh command with same inputs.

7. Login to the Oracle Enterprise Manager with the WebLogic credentials.

8. Click **Target Navigation**.

The Target Navigation drop-down menu appears.

9. Go to **Business Intelligence** > **biinstance**.

The Oracle Business Intelligence Instance screen appears.

10. From the Availability tab, select **Processes**, and click **Stop All**.

A confirmation dialog box appears.

11. Click **Yes**.

All the running processes are stopped.

12. Extract the contents of Oracle Argus Analytics catalog **opva.zip** into a local folder, and navigate to `\opva\root\shared` folder.

   a. Copy the following folders and files:

   - current
   - current.atr
   - personal+user
   - personal+user.atr
   - retrospective
   - retrospective.atr

   b. Paste in `<Oracle_Home>\user_projects\domains\bi\bidata\service_inst ances\ssi\metadata\content\catalog\root\shared` folder.

13. Go to Oracle Enterprise Manager, from the Availability tab, select **Processes**, and click **Start All**.

A confirmation dialog box appears.

14. Click **Yes**.

15. Create User Groups and Users manually in Admin Console. (See Create Users and Groups in Oracle Business Intelligence Enterprise Edition.)

16. Create Roles and policies manually in Enterprise Manager. (See Create Roles and Policies with Oracle Fusion Middleware Control.)

17. To view and administer privileges for the Oracle Business Intelligence components, login to Oracle Business Intelligence Enterprise Edition Analytics (`http://obieeser.com:port/analytics`) with WebLogic user credentials.

18. Go to **Security** > **Administration** > **Manage Privileges**.

For a list of privileges assigned to these roles, refer to Oracle Business Intelligence Enterprise Edition Default Application Roles.

19. Go to Catalog, and set the folder level permissions for the Oracle Business Intelligence Enterprise Edition Groups. (See Oracle Business Intelligence Enterprise Edition Catalog Folder-level Permissions)

Post-deployment of the Oracle Argus Analytics RPD

Open the Oracle Argus Analytics RPD in the Administration Tool in online mode and specify the details, as mentioned below:

1. Repository Password: Enter the password set in Deploy Oracle Business Intelligence Enterprise Edition Repository and Catalog, as mentioned in the **Note** before Step 1.

2. User: weblogic

3. Password: Password for the user mentioned above

Figure 4-1   The Oracle Argus Analytics RPD Screen
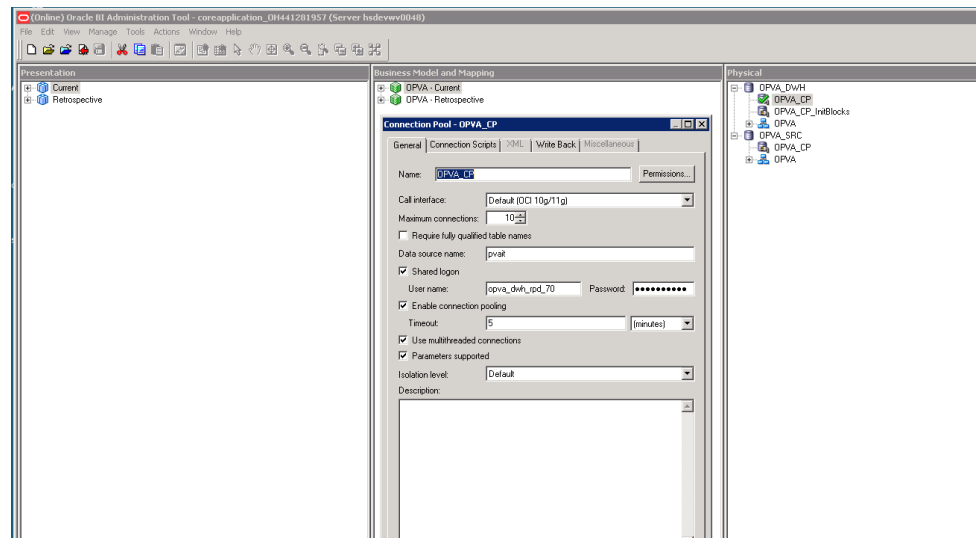
Change the Connection Pool Settings
Once the Oracle Argus Analytics RPD is opened in online mode, change the Connection Pool settings, as follows:

1. Change the OPVA_DWH -> OPVA_CP and OPVA_CP_InitBlocks to point to the Oracle Argus Analytics DWH RPD Schema <AN_DWH_RPD>, created during installation, on the Oracle Argus Analytics DB Instance.

2. Data Source Name: TNS name entry for Oracle Argus Analytics DB Instance.

3. User Name: <AN_DWH_RPD> [the schema name specified for the Oracle Argus Analytics DWH RPD Schema during installation].

4. Password: The password specified for the <AN_DWH_RPD> schema.

5. Change the OPVA_SRC -> OPVA_CP to the Oracle Argus Safety Source RPD schema <AN_SRC_RPD>, created during installation, on the Oracle Argus Safety Instance.

6. Data Source Name: TNS name entry for Oracle Argus Safety DB Instance.

7. User Name: <AN_SRC_RPD> [the schema name specified for the Oracle Argus Analytics Source RPD schema during installation].

8. Password: The password specified for the <AN_SRC_RPD> schema.

9. Save the RPD.

Create Users and Groups in Oracle Business Intelligence Enterprise Edition

In this section:

- Create groups in Oracle Fusion Middleware Control
- Create users in the Oracle Fusion Middleware Control

Create groups in Oracle Fusion Middleware Control

1. Open the Oracle WebLogic Server Administration Console.

2. Navigate to **Security Realms** > **myrealm** > **Users and Groups** > **Groups** tab.

3. From the Groups section, and click **New**.

   The Create a New Group dialog box appears.

4. Create the following groups by entering the **Name** and **Description**, and click **OK.**

   - PVAAdmin
   - PVASafetyGroup
   - PVASafetyConsumersGroup

Create users in the Oracle Fusion Middleware Control

1. Open the Oracle WebLogic Server Administration Console.

2. Navigate to **Security Realms** > **myrealm** > **Users and Groups** > **Users**.

3. From the Users section, click **New**.

   The Create a New User dialog box appears

Create a New User

OK   Cancel

User Properties

The following properties will be used to identify your new User.

* Indicates required fields

What would you like to name your new User?

* Name: Username

How would you like to describe the new User?

Description: User Description

Please choose a provider for the user.

Provider: DefaultAuthenticator

The password is associated with the login name for the new User.

* Password: ••••••••••••••

* Confirm Password: ••••••••••••••

OK   Cancel

4. Enter the following fields, and click **OK**.

   a. **Name**

   b. **Description**

   c. **Provider**

   d. **Password**

   e. **Confirm Password**

5. To assign a group to the user, from the Groups tab, select a Group, and click **Save**.
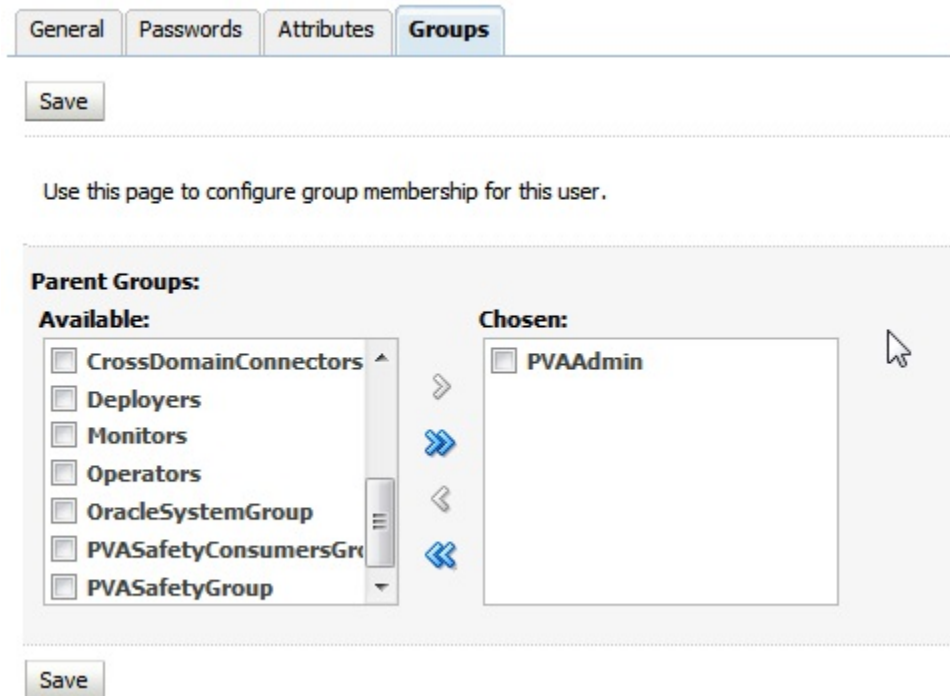
Create Roles and Policies with Oracle Fusion Middleware Control

> **Note:**
>
> This section is applicable only when you manually upload the RPD file and Catalog. For more details, refer to Configure Oracle Business Intelligence Enterprise Edition Repository and Webcatalog

For more information, see:

- Create new application roles
- Create new application policy

Create new application roles

1. Login to Oracle Fusion Middleware Control Oracle Enterprise Manager.

2. Go to **WebLogic Domain** > **Security** > **Application Roles**.

   The Application Roles dialog box appears.

3. From the **Application Stripe** drop-down list, select **OBI**, and click **Search** ▶ .

   The default role available in clean slate installation appears.

4. Click **Create**.

   The Create Application Role dialog box appears.

5. In the **Role Name** field, enter **PVAAdminRole**.

6. From the Members section, click **+Add**.

   The Add Principal dialog box appears.

7. From the **Type** drop-down list, select **Group**, and click **Search**.

   A list of principals appears.

8. From the list of Searched Principals, select **PVAAdmin**, and click **OK**.

The Membership for **PVAAdminRole** appears as below:

9. To add **PVASafetyRole**, repeat from Step 4 to Step 8.
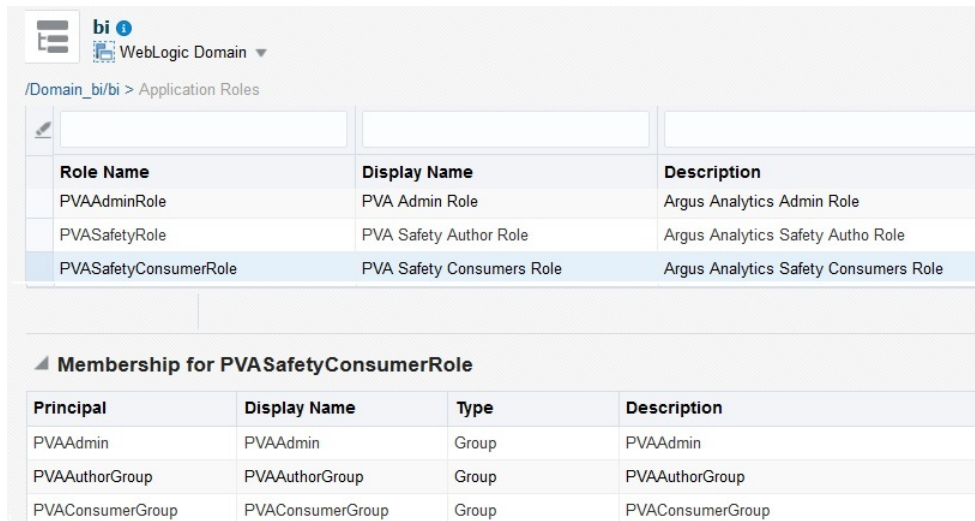
10. To add **PVASafetyConsumerRole**, repeat from Step 4 to Step 8.

> **Note:**
>
> For more details, refer to *Oracle® Fusion Middleware Security Guide for Oracle Business Intelligence Enterprise Edition.*

Create new application policy

1. Login to Oracle Fusion Middleware Control Oracle Enterprise Manager.

2. Go to **WebLogic Domain** > **Security** > **Application Policies**.

   The Application Policies screen appears.

3. To create a new application policy, click **Create**.

   The Create Application Grant dialog box appears.

4. From the Grantee section, click **+Add**.

   The Add Principal dialog box appears.

5. From the **Type** drop-down list, select **Application Role**, and click **Search** ▶.

6. From the list of Searched Principals, select **PVAAdminRole**, and click **OK**.

7. From the Permissions section, click **+Add.**

   The Add Permission dialog box appears.

8. Select the **Resource Types** radio button.

9. From the **Resource Type** drop-down list, select **oracle.bi.publisher.permission**, and click **Search**.

10. From the Search Results, select **oracle.bi.publisher.permission** (BIP Administer Server), and click **Continue**.

   The Add Permission dialog box appears.

11. For **Permission Actions**, select **All** (_all_), and click **Select**.

12. Repeat from Step 4 to Step 11, to add the following:

Policy Name/ Principal	Resource Type	Resource Name	Permission Actions
PVAAdminRole	oracle.bi.catalog	*	manage
PVAAdminRole	oracle.bi.repository	oracle.bi.repository	manage
PVAAdminRole	oracle.bi.publisher.permission	oracle.bi.publisher.develop DataModel	_all_
PVAAdminRole	oracle.bi.scheduler.permission	oracle.bi.scheduler.manageJobs	_all_
PVAAdminRole	oracle.bi.presentation.catalogmanager.permission	oracle.bi.presentation.catalogmanager.permission	_all_
PVAAdminRole	oracle.bi.delivers.job	oracle.bi.delivers.job	manage
PVAAdminRole	oracle.bi.server.permission	oracle.bi.server.manageRepositories	_all_

Policy Name/ Principal	Resource Type	Resource Name	Permission Actions
PVAAdminRole	oracle.bi.publisher.permission	oracle.bi.publisher.develop Report	_all_
PVAAdminRole	oracle.bi.publisher.permission	oracle.bi.publisher.administ erServer	_all_
PVASafetyRole	oracle.bi.publisher.permission	oracle.bi.publisher.develop Report	_all_
PVASafetyRole	oracle.bi.delivers.job	oracle.bi.delivers.job	schedule
PVASafetyRole	oracle.bi.publisher.permission	oracle.bi.publisher.develop DataModel	_all_
PVASafetyRole	oracle.bi.tech.visualanalyz er.permission	oracle.bi.tech.visualanalyz er.generalAccess	*
PVASafetyCons umerRole	oracle.bi.publisher.permission	oracle.bi.publisher. runReportOnline	_all_
PVASafetyCons umerRole	oracle.bi.publisher.permission	oracle.bi.publisher.accessR eportOutput	_all_
PVASafetyCons umerRole	ESSMetadataPermission	oracle.bip.ess.JobDefinition .EssBipJob	READ, EXECUTE
PVASafetyCons umerRole	oracle.bi.publisher.permission	BIP Access Excel Report Analyzer	_all_
PVASafetyCons umerRole	oracle.bi.publisher.permission	oracle.bi.publisher.access OnlineReportAnalyzer	_all_
PVASafetyCons umerRole	oracle.bi.publisher.permission	oracle.bi.publisher.schedul eReport	_all_

> **Note:**
>
> For more details, refer to *Oracle® Fusion Middleware Security Guide for Oracle Business Intelligence Enterprise Edition* > Section 2.4.3 Creating Application Policies Using Fusion Middleware Control from `http://docs.oracle.com/middleware/1221/biee/ BIESC/authentication.htm#BIESC767`.

Oracle Business Intelligence Enterprise Edition Catalog Folder-level Permissions

1. Go to **Catalog** > **Shared Folders** > **Tasks** > **Permissions**.

   The Permissions dialog box appears.

2. Set the Permissions as follows:

Accounts	Permissions
PVA Administrator Role	Full Control
PVA Safety Author Role	Full Control

Accounts	Permissions
PVA Safety Consumers Role	Open (Read, and Traverse)
Oracle Business Intelligence Service Administrator (Owner)	Full Control

   a. Select **Apply Permissions** to sub-folders.

   b. Select **Permissions** to items within folder.

   c. Click **OK**.

3. For each of the following folders, set the account permissions:

- **Shared Folders** > **Shared Folder** > **Current** > **Permissions**
- **Shared Folders** > **Shared Folder** > **Personal User** > **Permissions**
- **Shared Folders** > **Shared Folder** > **Retrospective** > **Permissions**

Accounts	Permissions
PVA Administrator Role (Owner)	Full Control
PVA Safety Author Role	Full Control
PVA Safety Consumers Role	Custom (Read, Traverse, Run Publisher Report, Schedule Publisher Report, and View Publisher Output)
Oracle Business Intelligence Service Administrator	Full Control

   a. Select **Apply Permissions** to sub-folders.

   b. Select **Permissions** to items within folder.

   c. Click **OK**.

Oracle Business Intelligence Enterprise Edition Default Application Roles

To view and administer privileges of Oracle Business Intelligence components:

1. Login to Oracle Business Intelligence Enterprise Edition Analytics with WebLogic user credentials.

2. Go to **Security** > **Administration** > **Manage Privileges**.

> **✎ Note:**
>
> Create these privileges only when you manually upload the RPD and Catalog.
>
> You do not need to create these privileges when you import the BAR file.
>
> You must NOT remove the privileges already present in the Manage Privileges tab for the various components. The below mentioned default role grants should only be appended to the existing grants in Oracle Business Intelligence Enterprise Edition components.

Component	Privilege	Default Role Granted
Access	Access to Dashboards	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Access	Access to Answers	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Access	Access to Oracle Business Intelligence Composer	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Access	Access to Delivers	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Access	Access to Briefing Books	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Access	Access to Mobile	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Access	Access to Administration	PVA Admin Role, Oracle Business Intelligence Service Administrator
Access	Access to Segments	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Access	Access to Segment Trees	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Access	Access to List Formats	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Access	Access to Metadata Dictionary	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Access	Access to Oracle Business Intelligence for Microsoft Office	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator

Component	Privilege	Default Role Granted
Access	Access to Oracle Business Intelligence Client Installer	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Access	Catalog Preview Pane UI	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Access	Access to Export	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Access	Access to KPI Builder	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Access	Access to Scorecard	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Actions	Create Navigate Actions	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Actions	Create Invoke Actions	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Actions	Save Actions containing embedded HTML	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: Catalog	Change Permissions	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Admin: Catalog	Toggle Maintenance Mode	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: General	Manage Sessions	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: General	Create Dashboards	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Admin: General	See sessions IDs	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: General	Change Log Configuration	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: General	Issue SQL Directly	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: General	View System Information	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: General	Performance Monitor	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: General	Manage Agent Sessions	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: General	Manage Device Types	PVA Admin Role, Oracle Business Intelligence Service Administrator

Component	Privilege	Default Role Granted
Admin: General	Manage Map Data	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: General	See privileged errors	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: General	See SQL issued in errors	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Admin: General	Manage Global Variables	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: General	Diagnose Oracle Business Intelligence Server Query	Denied: Authenticated User
Admin: General	Manage Marketing Jobs	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Admin: General	Manage Marketing Defaults	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: Security	Manage Catalog Accounts	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: Security	Manage Privileges	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: Security	Set Ownership of Catalog Objects	PVA Admin Role, Oracle Business Intelligence Service Administrator
Admin: Security	User Population - Can List Users	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
Admin: Security	User Population - Can List Catalog Groups	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
Admin: Security	User Population - Can List Application Roles	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
Admin: Security	Access to Permissions Dialog	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Briefing Book	Add To or Edit a Briefing Book	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Briefing Book	Download Briefing Book	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Briefing Book	Add to Snapshot Briefing Book	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Catalog	Personal Storage (My Folders and My Dashboard)	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator

ORACLE®

Component	Privilege	Default Role Granted
Catalog	Reload Metadata	PVA Admin Role, Oracle Business Intelligence Service Administrator
Catalog	See Hidden Items	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Catalog	Create Folders	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Catalog	Archive Catalog	PVA Admin Role, Oracle Business Intelligence Service Administrator
Catalog	Unarchive Catalog	PVA Admin Role, Oracle Business Intelligence Service Administrator
Catalog	Upload Files	PVA Admin Role, Oracle Business Intelligence Service Administrator
Catalog	Perform Global Search	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Catalog	Perform Extended Search	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Conditions	Create Conditions	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Dashboards	Save Customizations	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Dashboards	Assign Default Customizations	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Dashboards	Create Bookmark Links	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Dashboards	Create Prompted Links	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Dashboards	Export Entire Dashboard To Excel	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Dashboards	Export Single Dashboard Page To Excel	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Formatting	Save System-Wide Column Formats	PVA Admin Role, Oracle Business Intelligence Service Administrator
Home and Header	Access Home Page	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Home and Header	Access Catalog UI	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator

Component	Privilege	Default Role Granted
Home and Header	Access Catalog Search UI	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Home and Header	Access Rapid Search UI	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Home and Header	Simple Search Field	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Home and Header	Advanced Search Link	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Home and Header	Open Menu	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Home and Header	New Menu	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Home and Header	Help Menu	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Home and Header	Dashboards Menu	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Home and Header	Favorites Menu	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Home and Header	My Account Link	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Home and Header	Custom Links	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Home and Header	Access Administration Menu	Denied: Authenticated User
Home and Header	Access User & Role Admin	Denied: Authenticated User
Home and Header	Access Modeler	Denied: Authenticated User
Home and Header	Access Data Loader	Denied: Authenticated User
My Account	Access to My Account	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
My Account	Change Preferences	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
My Account	Change Delivery Options	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator

Component	Privilege	Default Role Granted
Answers	Create Views	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Answers	Create Prompts	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Answers	Access Advanced Tab	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Answers	Edit Column Formulas	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Answers	Save Content with HTML Markup	PVA Admin Role, Oracle Business Intelligence Service Administrator
Answers	Enter XML and Logical SQL	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Answers	Edit Direct Database Analysis	PVA Admin Role, Oracle Business Intelligence Service Administrator
Answers	Create Analysis From Simple SQL	PVA Admin Role, Oracle Business Intelligence Service Administrator
Answers	Create Advanced Filters and Set Operations	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Answers	Save Filters	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Answers	Save Column	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Answers	Add EVALUATE_PREDICATE Function	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Answers	Execute Direct Database Analysis	PVA Admin Role, Oracle Business Intelligence Service Administrator
Answers	Upload Images	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Delivers	Create Agents	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Delivers	Publish Agents for Subscription	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Delivers	Deliver Agents to Specific or Dynamically Determined Users	PVA Admin Role, Oracle Business Intelligence Service Administrator
Delivers	Chain Agents	PVA Safety Author Role, Oracle Business Intelligence Service Administrator

Component	Privilege	Default Role Granted
Delivers	Modify Current Subscriptions for Agents	PVA Admin Role, Oracle Business Intelligence Service Administrator
Proxy	Act As Proxy	Denied: Authenticated User
RSS Feeds	Access to RSS Feeds	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Scorecard	Create/Edit Scorecards	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Scorecard	View Scorecards	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Scorecard	Create/Edit Objectives	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Scorecard	Create/Edit Initiatives	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Scorecard	Create Views	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Scorecard	Create/Edit Causes And Effects Linkages	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Scorecard	Create/Edit Perspectives	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Scorecard	Add Annotations	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Scorecard	Override Status	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Scorecard	Create/Edit KPIs	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Scorecard	Write Back to Database for KPI	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Scorecard	Add Scorecard Views To Dashboards	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
List Formats	Create List Formats	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
List Formats	Create Headers and Footers	PVA Safety Author Role, Oracle Business Intelligence Service Administrator

Component	Privilege	Default Role Granted
List Formats	Access Options Tab	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
List Formats	Add/Remove List Format Columns	PVA Admin Role, Oracle Business Intelligence Service Administrator
Segmentation	Create Segments	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Segmentation	Create Segment Trees	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Segmentation	Create/Purge Saved Result Sets	PVA Admin Role, Oracle Business Intelligence Service Administrator
Segmentation	Access Segment Advanced Options Tab	PVA Admin Role, Oracle Business Intelligence Service Administrator
Segmentation	Access Segment Tree Advanced Options Tab	PVA Admin Role, Oracle Business Intelligence Service Administrator
Segmentation	Change Target Levels within Segment Designer	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Mobile	Enable Local Content	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
Mobile	Enable Search	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
SOAP	Access SOAP	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Impersonate as system user	Oracle Business Intelligence System
SOAP	Access MetadataService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access ScorecardAssessmentService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access MsgdbService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access ReportEditingService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System

ORACLE

Component	Privilege	Default Role Granted
SOAP	Access KPIAssessmentService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access ConditionEvaluationService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access SecurityService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access Tenant Information	Oracle Business Intelligence System
SOAP	Access SchedulerService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access DashboardService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access ScorecardMetadataService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access JobManagementService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access CatalogIndexingService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access UserPersonalizationService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access AnalysisExportViewsService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator
SOAP	Access CatalogService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access AdministrationSOAPService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System

Component	Privilege	Default Role Granted
SOAP	Access HtmlViewService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access XmlGenerationService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
SOAP	Access IBotService Service	PVASafetyConsumerRole, Oracle Business Intelligence Service Administrator, Oracle Business Intelligence System
Subject Area: "Current"	Access within Oracle Business Intelligence Answers	PVA Admin Role, Oracle Business Intelligence Service Administrator
Subject Area: "Retrospective"	Access within Oracle Business Intelligence Answers	PVA Admin Role, Oracle Business Intelligence Service Administrator
View Canvas	Add/Edit Canvas View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Column Selector	Add/Edit Column Selector View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Compound Layout	Add/Edit Compound Layout View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Contribution Wheel	Add/Edit Contribution Wheel View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Graph	Add/Edit Graph View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Funnel	Add/Edit Funnel View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Gauge	Add/Edit Gauge View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Micro Chart	Add/Edit Micro Chart View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Filters	Add/Edit Filters View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Dashboard Prompt	Add/Edit Dashboard Prompt View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Performance Tile	Add/Edit Performance Tile View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator

ORACLE

Component	Privilege	Default Role Granted
View Heat Matrix	Add/Edit Heat Matrix View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Static Text	Add/Edit Static Text View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Javascript view	Edit Javascript View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Legend	Add/Edit Legend View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Map	Add/Edit Map View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Narrative	Add/Edit Narrative View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View No Results	Add/Edit No Results View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Pivot Table	Add/Edit Pivot Table View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Generic Plugin View	Add/Edit Generic Plugin View View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Report Prompt	Add/Edit Report Prompt View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Create Segment	Add/Edit Create Segment View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Selection Steps	Add/Edit Selection Steps View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Logical SQL	Add/Edit Logical SQL View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Table	Add/Edit Table View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Create Target List	Add/Edit Create Target List View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Ticker	Add/Edit Ticker View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator

Component	Privilege	Default Role Granted
View Title	Add/Edit Title View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Treemap	Add/Edit Treemap View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View Trellis	Add/Edit Trellis View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
View View Selector	Add/Edit View Selector View	PVA Safety Author Role, Oracle Business Intelligence Service Administrator
Write Back	Manage Write Back	PVA Admin Role, Oracle Business Intelligence Service Administrator
Write Back	Write Back to Database	Denied: Authenticated User

Change the Oracle Business Intelligence Enterprise Edition RPD Password

To change the password for Oracle Business Intelligence Enterprise Edition RPD, execute the following steps:

1. Open the Oracle Business Intelligence Administrator Tool and open `<ARGUS_ANALYTICS_HOME>\report\opva.rpd` in **Offline** mode.

2. Select **File** > **Change Password.**

3. Enter the password set in Deploy Oracle Business Intelligence Enterprise Edition Repository and Catalog, as mentioned in the **Note** before Step 1.

4. Enter the new password and confirm by entering it again. You must remember this password, and use the same later in the installation process.

5

Configure Oracle Business Intelligence Enterprise Edition Help Files

> ✎ **Note:**
>
> If the Oracle Business Intelligence Enterprise Edition Server is not the same machine where the installer is run, then copy the opva_help.zip file into the machine where Oracle Business Intelligence Enterprise Edition server is installed.

For more information, see:

- Configure the Help links in the Dashboards and Reports

Configure the Help links in the Dashboards and Reports

1. Extract the contents of the `opva_help.zip` file at any location on the Oracle Business Intelligence Enterprise Edition Server. For example: `/scratch/stage/opva_help`

   The `opva_help` folder contains `analyticsRes` folder.

2. Log in to the Oracle WebLogic Server.

3. Navigate to **Deployments**.

4. Click **Lock & Edit** in the left pane to enable the **Install** button.

5. Click **Install**, and navigate to the location where `opva_help.zip` was extracted in Step 1.

6. Select **analyticsRes**, and click **Next**.
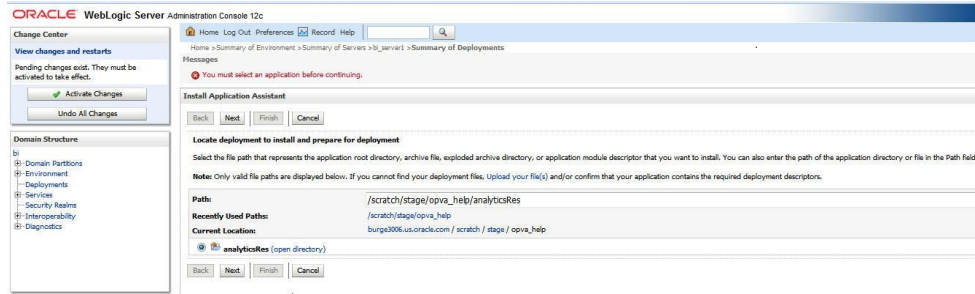
7. Select **Install this deployment as an application** (default), and click **Next**.
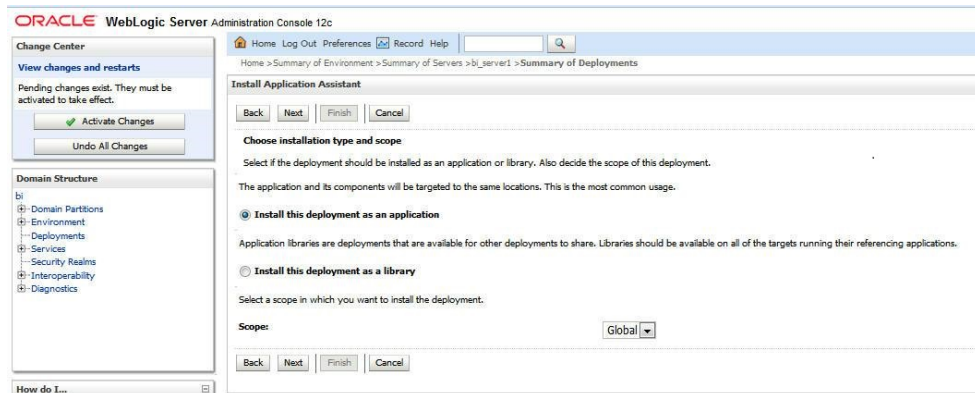
8. Select **Deployment targets**, choose **bi_server1**, and click **Next**.
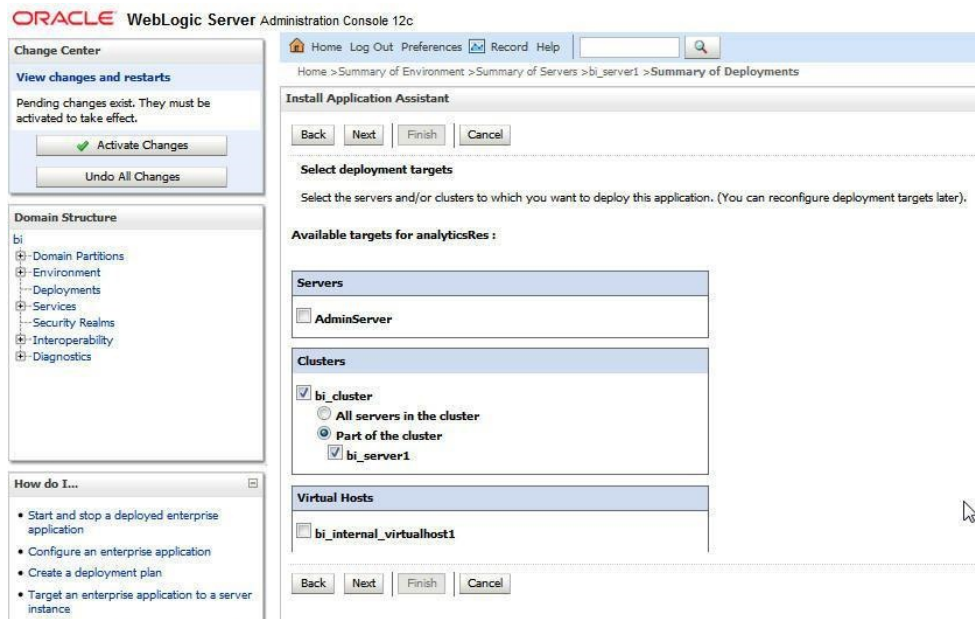
9. Under **Source accessibility:**

   Select **I will make the deployment accessible from the following location** option, and select the path for analyticsRes as selected in step 6. For example: `/scratch/stage/opva_help/analyticsRes`

10. Click **Finish**.

The **analyticsRes** appears under Deployments.

11. Click **Active Changes**, and navigate to the **Control** tab.

12. Select **analyticsRes**, and click **Start**.

13. Start the Application Assistant, and click **Yes**.

The **analyticsRes State** is activated after starting the application assistant. Logout from the Console.

14. Log in to Oracle Enterprise Manager (EM) and restart the Oracle Business Intelligence Components.

When the Oracle Business Intelligence components have been restarted successfully, log in to Oracle Argus Analytics, and check the Brand Name and help links provided in the Dashboards.

6

Configure SSO using the Oracle Access Manager 11g

In this chapter:

- Prerequisites
- Install SSO on Oracle Access Manager 11g

Prerequisites

- There must be an Oracle Access Manager 11g installation configured to work with the desired LDAP (for example, OID), as the identity data-store.
- User profiles must exist in the LDAP server as well as in Oracle Argus Safety with the same credentials (login information).
- Oracle Webgate 11g must be installed on the same server where the Oracle Business Intelligence Enterprise Edition server is installed, as mentioned above.

Install SSO on Oracle Access Manager 11g

1. Navigate to the Oracle Access Manager 11g Oracle Access Manager Console URL (http://oam_server:port/oamconsole) and login with the Oracle Access Manager Admin credentials.
2. Select the **System Configuration** Tab.
3. Select the **Access Manager Settings** sub menu in the left navigation window of the browser.
4. Double-click the **SSO Agents** > **OAM Agents** option to open the **OAM Agents** sub window.
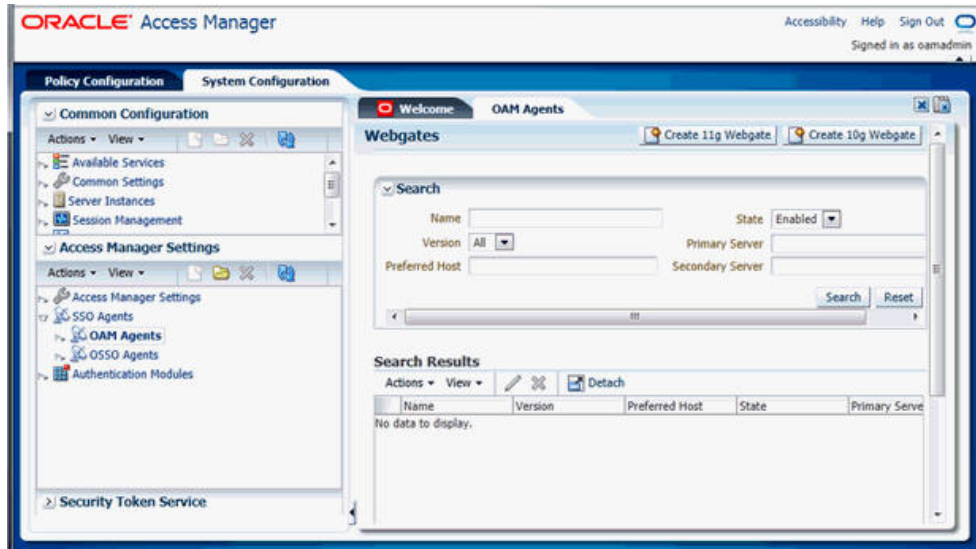
5. Click the **Create 11g Webgate** button and enter the following details:

- **Name**: ArgusAnalyticsPolicy

- **Security**: Open

- **Host Identifier**: <obiee_server>

- **Auto Create Policies**: Checked

> ✎ **Note:**
>
> The <obiee_server> refers to the server where the Oracle Business Intelligence Enterprise Edition 12c is installed along with Oracle Web Tier and Oracle Webgate.
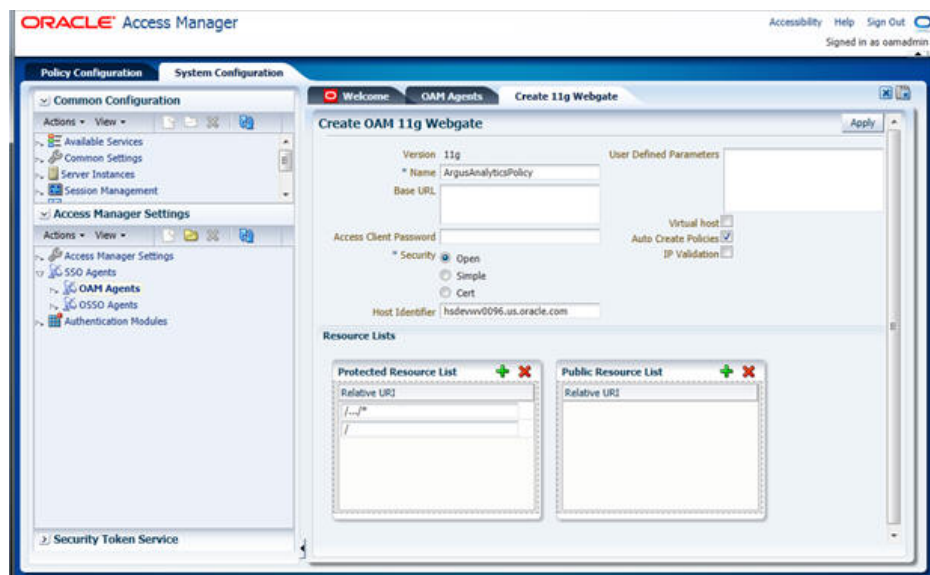
6. Click **Apply** to save and register the 11g Webgate and policies with Oracle Access Manager.

7. On the subsequent page, update the details for the **ArgusAnalyticsPolicy** created in the above step:

   • **Cache Pragma Header**: Private

   • **Cache Control Header**: Private
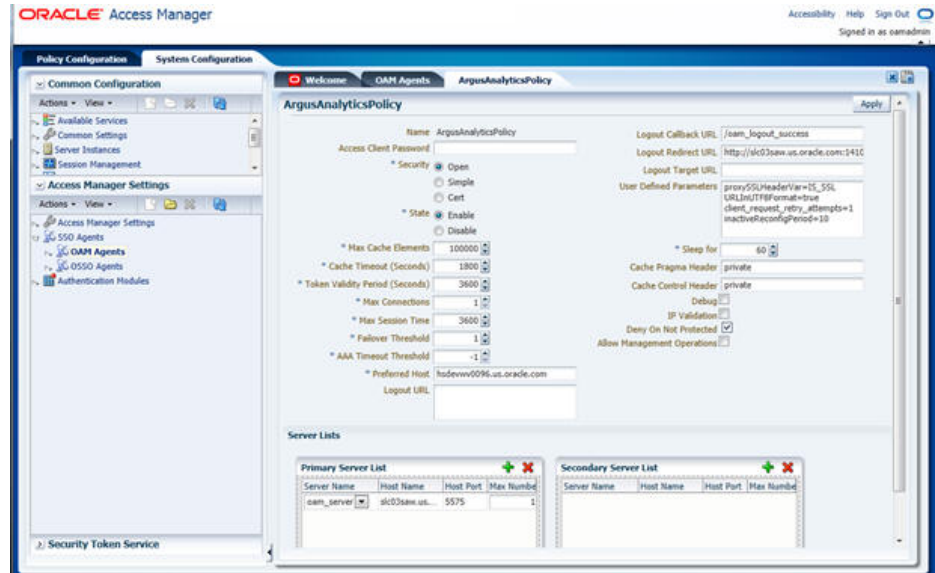
8. Click **Apply**.

9. Navigate to the **Policy Configuration** tab.

10. Expand and double-click the **Shared Components** > **Resource Type** > **Host Identifiers** > **<obiee_server>** (like, hsdevwv0096.oracle.com) to open the **Host Identifiers** window and add the following details:

    • <obiee_server>

    • <obiee_server> <port>

    • <obiee_server_ip>

    • <obiee_server_ip> <port>

> ✎ **Note:**
>
> <obiee_server> refers to the server where the Oracle Business Intelligence Enterprise Edition 12c is installed along with Oracle Web Tier and Oracle Webgate. The port refers to the Oracle Web Tier Port.

Example:

Hostname	Port
obiee_server.oracle.com	--
obiee_server.oracle.com	7777

Hostname	Port
<ip address>	--
<ip address>	7777

11. Expand and double-click **Application Domains** > **ArgusAnalyticsPolicy** > **Authentication Policies** > **Protected Resource Policy**.

12. Ensure that the Authentication Scheme is set as **LDAPScheme**.

13. Ensure that the following resources are present:

    - /

    - /…/*
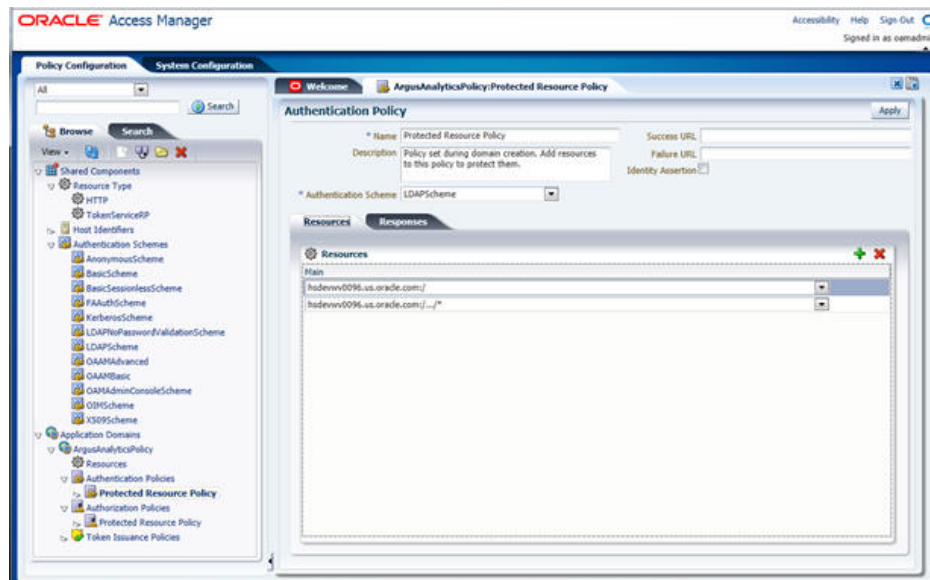
14. Add the following Response variables:

    - **Name**: OAM_REMOTE_USER

    - **Type**: Header

    - **Value**: $user.attr.uid [based on the LDAP schema setup]
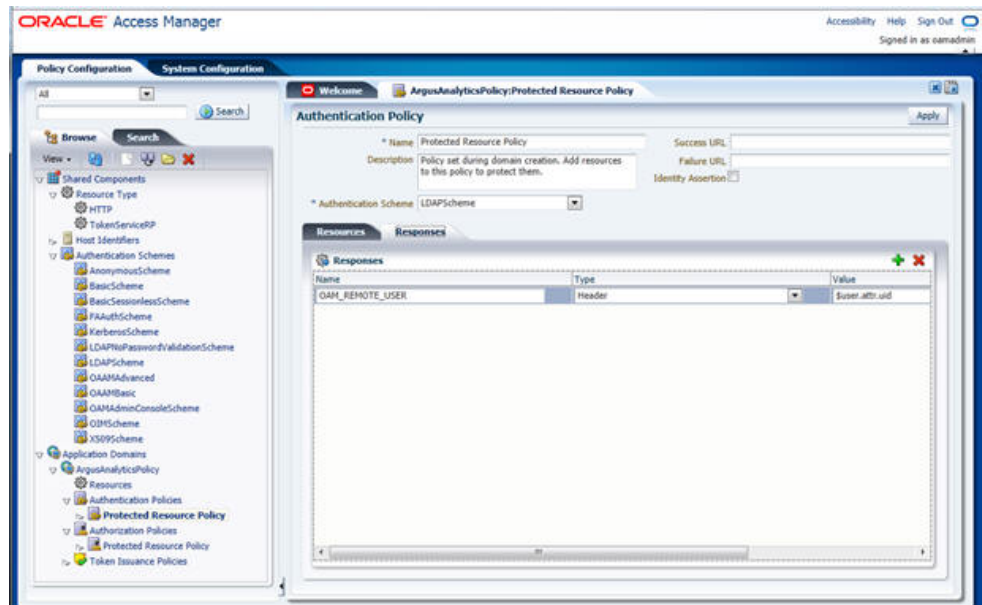
15. Click **Apply** and save the changes.

16. Expand and double-click **Application Domains** > **ArgusAnalyticsPolicy** > **Authorization Policies** > **Protected Resource Policy**

17. Ensure that the following resources are present:

   • /

   • /…/*
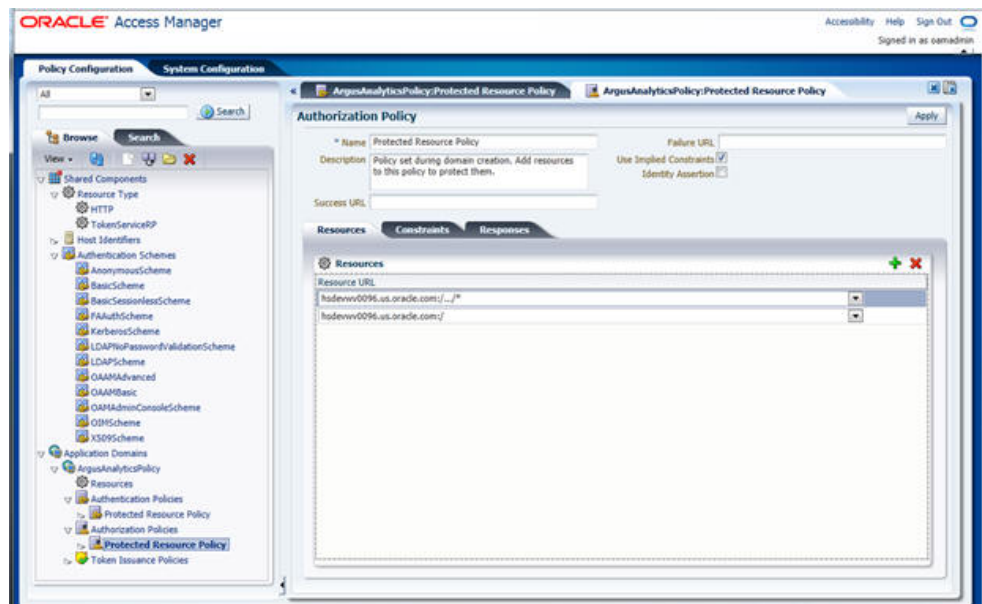
18. Add the following Response variables:

   • **Name**: OAM_REMOTE_USER

   • **Type**: Header

   • **Value**: $user.attr.uid [as based on the LDAP schema setup]
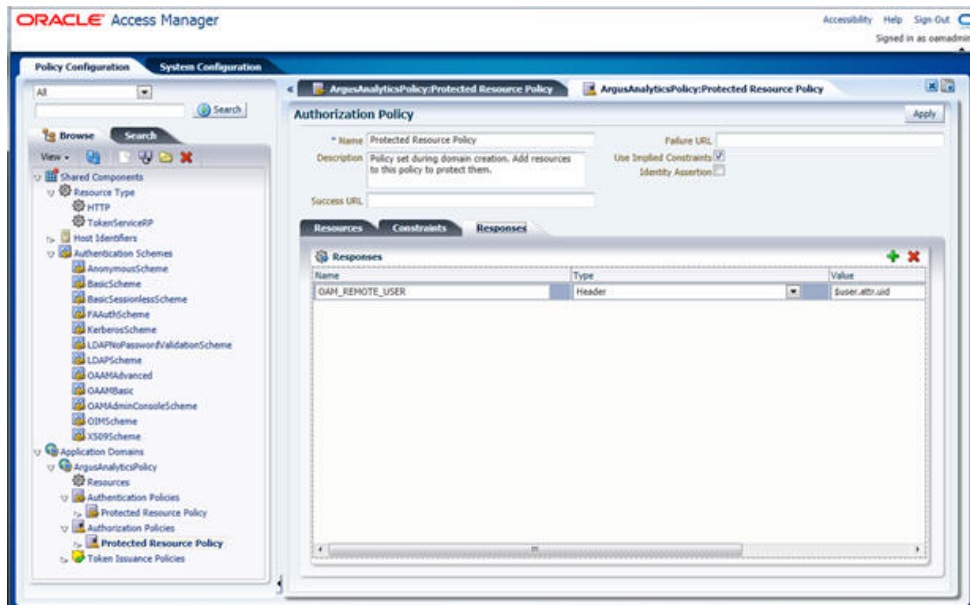
19. Click **Apply** to save the changes

20. Navigate to the OPVA Web Tier Machine [<obiee_server>], which is the machine where you have installed the OPVA Oracle Business Intelligence Enterprise Edition Server, and run the installer for Webgate (OFM Webgate 11g for Oracle Access Manager 11g) to complete the installation.

21. Configure the 11g Webgate using the following steps to communicate with the Oracle Access Manager 11g server:

> ✎ **Note:**
>
> Refer to the following link for advanced details:
>
> http://docs.oracle.com/cd/E21764_01/install.1111/e12002/webgate.htm

a. Move to the following directory under your Oracle Home for Webgate:

On UNIX Operating Systems:

`<Webgate_Home>/webgate/ohs/tools/deployWebGate`

On Windows Operating Systems:

`Webgate_Home>\webgate\ohs\tools\deployWebGate`

b. On the command line, run the following command to copy the required bits of agent from the **Webgate_Home** directory to the Webgate Instance location:

On UNIX Operating Systems:

`./deployWebgateInstance.sh -w <Webgate_Instance_Directory> -oh <Webgate_Oracle_Home>`

On Windows Operating Systems:

`deployWebgateInstance.bat -w <Webgate_Instance_Directory> -oh <Webgate_Oracle_Home>`

Where **<Webgate_Oracle_Home>** is the directory where you have installed Oracle HTTP Server Webgate and created as the Oracle Home for Webgate, as shown in the following example:

```
MW_HOME>/Oracle_OAMWebGate1
```

The **<Webgate_Instance_Directory>** is the location of Webgate Instance Home, which is the same as the Instance Home of Oracle HTTP Server, as shown in the following example:

```
<MW_HOME>/Oracle_WT1/instances/instance2/config/OHS/ohs1
```

c. Run the following command to ensure that the **LD_LIBRARY_PATH** variable contains <Oracle_Home_for_Oracle_HTTP_Server>/lib:

On UNIX (depending on the shell):

export
LD_LIBRARY_PATH=$LD_LIBRARY_PATH:`<Oracle_Home_for_Oracle_HTTP_Server>/lib`

On Windows:

Set the `<Webgate_Installation_Directory>\webgate\ohs\lib` location and the `<Oracle_Home_for_Oracle_HTTP_Server>\bin` location in the PATH environment variable. Add a semicolon (;) followed by this path at the end of the entry for the PATH environment variable.

d. From your present working directory, move up one directory level:

On UNIX Operating Systems, move to:

```
<Webgate_Home>/webgate/ohs/tools/setup/InstallTools
```

On Windows Operating Systems, move to:

```
<Webgate_Home>\webgate\ohs\tools\EditHttpConf
```

e. On the command line, run the following command to copy the **apache_webgate.template** from the **Webgate_Home** directory to the Webgate Instance location (renamed to webgate.conf) and update the **httpd.conf** file to add one line to include the name of **webgate.conf**:

On UNIX operating systems:

```
./EditHttpConf -w <Webgate_Instance_Directory> -oh
<Webgate_Oracle_Home> -o <output_file>
```

On Windows operating systems:

```
EditHttpConf.exe -w <Webgate_Instance_Directory> -oh
<Webgate_Oracle_Home> -o <output_file>
```

Where **<Webgate_Oracle_Home>** is the directory where you have installed Oracle HTTP Server Webgate for Oracle Access Manager and created as the Oracle Home for Webgate, as shown in the following example:

```
<MW_HOME>/Oracle_OAMWebGate1
```

The **<Webgate_Instance_Directory>** is the location of Webgate Instance Home, which is the same as the Instance Home of Oracle HTTP Server, as shown in the following example:

```
<MW_HOME>/Oracle_WT1/instances/instance2/config/OHS/ohs1
```

The **<output_file>** is the name of the temporary output file used by the tool, as shown in the following example:

```
Edithttpconf.log
```

f. Copy Generated Files (Artifacts) to the Webgate Instance Location from the Oracle Access Manager 11g server.

The 11g Webgate Agent (ArgusAnalyticsPolicy), which was created in the Oracle Access Manager 11g Oracle Access Manager Console earlier, would have also created the following artifacts on the Oracle Access Manager 11g server:

cwallet.sso

ObAccessClient.xml

This is based on the Security Mode that you have configured, which in this case is **Open**.

On the Oracle Access Manager 11g server, these files are present at the following location:

```
<OAM_FMW_HOME>/user_projects/domains/<OAM_domain>/output/
ArgusAnalyticsPolicy
```

Copy these files to the <obiee_server> in the following directory:

```
<Webgate_Instance_Directory>/webgate/config directory
```

```
[Example:<MW_HOME>/Oracle_WT1/instances/instance2/config/OHS/ohs1/
webgate/config]
```

g. Restart the Oracle HTTP Server Instance.

To stop the Oracle HTTP Server instance, run the following commands on the command line:

```
<MW_HOME>/Oracle_WT1/instances/instance2/bin/opmnctl stopall
```

To restart the Oracle HTTP Server instance, run the following commands on the command line:

```
<MW_HOME>/Oracle_WT1/instances/instance2/bin/opmnctl startall
```

22. Configure the HTTP Server as a reverse proxy for the WebLogic Server. To execute this, modify the **mod_wl_ohs.conf** file present at the following location: `OracleWebTierHome\instances\instance2\config\OHS\ohs1`

The following is a template to configure **mod_weblogic**:

LoadModule weblogic_module "${ORACLE_HOME}/ohs/modules/mod_wl_ohs.so"

This empty block is needed to save mod_wl related configuration from EM to this file when changes are made at the Base Virtual Host Level

<IfModule weblogic_module>

WebLogicHost <WEBLOGIC_HOST>

WebLogicPort <WEBLOGIC_PORT>

Debug ON

WLLogFile /tmp/weblogic.log

MatchExpression *.jsp

```
<Location /console>
SetHandler weblogic-handler
WebLogicHost hsdevwv0096.oracle.com
WeblogicPort 7001
WLProxySSL ON
WLProxySSLPassThrough ON
</Location>
<Location /em>
SetHandler weblogic-handler
WebLogicHost hsdevwv0096.oracle.com
WeblogicPort 7001
WLProxySSL ON
WLProxySSLPassThrough ON
</Location>
<Location /analytics>
SetHandler weblogic-handler
WebLogicHost hsdevwv0096.oracle.com
WeblogicPort 9704
WLProxySSL ON
WLProxySSLPassThrough ON
</Location>
<Location /analyticsRes>
SetHandler weblogic-handler
WebLogicHost hsdevwv0096.oracle.com
WeblogicPort 9704
WLProxySSL ON
WLProxySSLPassThrough ON
</Location>
<Location /xmlpserver>
SetHandler weblogic-handler
WebLogicHost hsdevwv0096.oracle.com
WeblogicPort 9704
WLProxySSL ON
WLProxySSLPassThrough ON
</Location>
</IfModule>
# <Location /weblogic>
```

SetHandler weblogic-handler

PathTrim /weblogic

ErrorPage http:/WEBLOGIC_HOME:WEBLOGIC_PORT/

</Location>

Restart the Web Tier Instance in WebLogic EM or as described above.

23. Configure a new Authenticator for Oracle WebLogic Server on the Oracle Business Intelligence Enterprise Edition Server using the following steps:

   a. Login to the WebLogic Server Administrator Console and navigate to **Security Realms**> **myrealm**.

   b. Click the **Providers** tab.

   c. Click **Lock & Edit** on the right corner of the webpage, highlighted as Change Center.

   d. Click **New** to create a new Authentication Provider and add the following details:

      Name: OPVAOIDAuthenticator, or a name of your choice

      Type: OracleInternetDirectoryAuthenticator

   e. After saving the details, click the new Authenticator that you have created and enter the following details:

      In the sub tab change the Control Flag as **SUFFICIENT**

   f. Click **Save**.

   g. Click the **Provider Specific** tab and enter the following required settings using values for your environment:

      • **Host:** Your LDAP host.

         For example: oid_server.oracle.com

      • **Port:** Your LDAP host listening port.

         For example: 3060

      • **Principal:** LDAP administrative user.

         For example: cn=orcladmin,cn=Users,dc=us,dc=oracle,dc=com

      • **Credential:** LDAP administrative user password

      • **User Base DN:** Same searchbase as in Oracle Access Manager.

         For example: cn=Users,dc=us,dc=oracle,dc=com

      • **All Users Filter:**

         For example: (&(uid=*) (objectclass=person))

      • **User Name Attribute:** Set as the default attribute for username in the directory server.

         For example: uid

      • **Group Base DN:** The group searchbase

         For example: cn=Groups,dc=us,dc=oracle,dc=com

      • Leave the other defaults as is.

- **GUID Attribute:** The GUID attribute defined in the OID LDAP Server

  For example: uid

- Click **Save**.

24. Configure a new Identity Asserter for WebLogic Server using the following steps:

   a. In the Oracle WebLogic Server Administration Console, select **Security Realms** from the left pane and click the realm which you want to configure. For example, myrealm. Select Providers.

   b. Click **New** and enter the following values in the fields:

      Name: OPVAOAMIdentityAsserter, or a name of your choice

      Type: OAMIdentityAsserter

   c. Click **OK**.

   d. Click on the newly created Asserter and set the Control Flag to **REQUIRED**.

   e. Ensure that the Active Types that you have selected is **OAM_REMOTE_USER**.

   f. Click **Save**.

   g. Navigate to the **Provider Specific** tab and enter the following details:

      - **Transport Security:** open

      - **Application Domain:** ArgusAnalyticsPolicy, as set in the Oracle Access Manager 11g Console

      - **Access Gate Name:** ArgusAnalyticsPolicy, as specified in the Oracle Access Manager 11g Console

      - **Primary Access Server:** oam_server.oracle.com:5575, Oracle Access Manager 11g server with port

      - Click **Save**.

   h. In the **Providers** tab, perform the following steps to reorder Providers:

      - Click **Reorder**.

      - On the **Reorder Authentication Providers** page, select a **Provider Name** and use the arrows besides the list to order the following providers:

        OPVAOAMIdentityAsserter

        OPVAOIDAuthenticator

        DefaultAuthenticator

        DefaultIdentityAsserter

      - Click **OK** to save your changes.

   i. In the **Providers** tab, click **Default Authenticator** and change the Control Flag to **Sufficient**.

   j. In the Change Center, click **Activate Changes**.

   k. Restart Oracle WebLogic Server

25. The **BISystemUser** present in the default embedded LDAP must be deleted (using Security Realms in the **Administration Console** Link of the WebLogic Server) and the same/another user must be added in the newly added OID. This

user also needs to be added to the Oracle Business Intelligence Application Roles using the following steps:

a. Navigate to **Administration Console** > **Security Realms** > **myrealm** > **Users and Groups** > **Users** and select the checkbox against **BISystemUser** (from Provider: Default Authenticator)

b. Click **Delete**.

c. Navigate to **Security Realms** > **myrealm** > **Roles and Policies** > **Realm Roles.**

d. In the tree structure, expand **Global Roles** node and select the **Roles** link.

e. In the subsequent screen, click the **Admin Role** link.

f. Click the **Add Conditions** button.

g. In the next screen, select the **Predicate List** as **User** and click **Next**.

h. In the **User Argument Name**, enter *BISystemUser* and click **ADD**.

i. Click **Finish**.

j. In the **Role Conditions** screen, ensure that the set operator is set to **Or**.

k. Save the configuration.

l. Navigate to the Oracle Enterprise Manager of Oracle Business Intelligence Enterprise Edition or the Oracle Fusion Middleware Control page and navigate in the tree structure to the **Business Intelligence** > **coreapplication** node.

m. In the Oracle Business Intelligence drop-down menu, select **Security** > **Application Roles**.

n. In the Roles displayed, select **BISystem** and in the next screen remove the old **BISystemUser** (from the Default Provider) and add the newly created **BISystemUser** user in OID.

o. Add the trusted user's credentials to the oracle.bi.system credential map.

p. Using Oracle Fusion Middleware Control target navigation pane, navigate to **farm** > **WebLogic Domain**, and select **bifoundation_domain**.

- Using the WebLogic Domain menu, select **Security** > **Credentials.**

- Open the oracle.bi.system credential map, and select **system.user**.

- Click **Edit**.

- In the **Edit Key** dialog box, enter **BISystemUser** (or the name that you have selected) in the **User Name** field.

- In the **Password** field, enter the trusted user's password that is contained in Oracle Internet Directory.

- Click **OK**.

q. Restart the Managed Servers.

26. Enable the SSO Authentication in the Weblogic Server for Oracle Business Intelligence Enterprise Edition using the following steps:

a. Login to Oracle Fusion Middleware Control (EM) of the WebLogic Server.

b. Go to the **Business Intelligence Overview** page.

c. Go to the **Security** page.

d. Click **Lock and Edit Configuration**.

e. Check **Enable SSO**, this makes the SSO provider list active.

f. Select the configured SSO provider from the list, as **Oracle Access Manager**.

g. In **The SSO Provider Logoff URL**, specify the following URL: http://
    <oam_server>:14100/oam/server/logout

h. Click **Apply**.

i. Click **Activate Changes**.

j. Restart the Oracle Business Intelligence components using Oracle Fusion
    Middleware Control.

7

Enable SSL

In this chapter:

Enable SSL in Oracle WebLogic Server

1. Open the following URL: `https://docs.oracle.com/middleware/1221/biee/BIESC/ssl.htm#BIESC6414`

2. Complete all the steps of the *Section 5.2.2 Configuring WebLogic SSL* including all the sub-sections:

   a. *Section 5.2.2.1, "Starting Only the Administration Server"*

   b. *Section 5.2.2.2, "Configuring HTTPS Ports"*

   c. *Section 5.2.2.3, "Configuring Internal WebLogic Server LDAP to Use LDAPs"*

   d. *Section 5.2.2.4, "Configuring Internal WebLogic Server LDAP Trust Store"*

   e. *Section 5.2.2.5, "Disable HTTP"*

   f. *Section 5.2.2.6, "Restart"*

   g. *Section 5.2.2.7, "Configure OWSM to Use t3s"*

   h. *Section 5.2.2.8, "Restart System"*

3. Complete all the steps of the *Section 5.3 Enabling BIEE Internal SSL*.

4. (Optional, not required for Oracle Argus Analytics) To further configure Oracle Business Intelligence Publisher for SSL communication, follow the steps mentioned in the *Section 4.3.2 Add Virtualize Property to the Identity Store Configuration* from the following URL: `https://docs.oracle.com/middleware/1221/bip/BIPAD/other_security.htm#CHDJEAFJ`

5. Re-enable the Non-SSL ports, and disable the Non-SSL ports.

> ✏️ **Note:**
>
> You must perform this step or you will not be able to login to the Oracle Business Intelligence Enterprise Edition.

   a. Login to Oracle WebLogic Server Admin console.

   b. Click **Lock & Edit**.

   c. Select environment, **servers**.

d. For each server:

    i. Display the **Configuration** tab.

    ii. To enable the Listen Port, click **Listen Port Enabled** check box.

    iii. Click **Save**.

    iv. To disable the Listen Port, deselect the **Listen Port Enabled** check box.

    v. Click **Save**.

Configure SSL for SSO with Oracle Access Manager 11g

1. Configure Oracle Business Intelligence Enterprise Edition in SSL mode as given in the Enable SSL in Oracle WebLogic Server.

2. Follow the steps as mentioned in the Configure SSO using the Oracle Access Manager 11g, except for the deviations as mentioned here:

Update/Create the Webgate Registration in Oracle Access Manager 11g, which you have created in the Configure SSO using the Oracle Access Manager 11g.

> **✎ Note:**
>
> The Oracle Access Manager Server configured in Oracle Access Manager 11g must be running with Security set to **Simple**, else it does not let you create a Webgate with Security set as **Simple**.

a. Open the Oracle Access Manager 11g Oracle Access Manager Console.

b. Navigate to the **Policy Configuration** tab.

c. Expand and double-click **Shared Components** > **Resource Type** > **Host Identifiers** > **<obiee_server>** (for example, www.example.com) to open the Host Identifiers window and add the following details in addition to the ones that are already present:

<obiee_server>

<obiee_server> <ssl port>

<obiee_server_ip>

<obiee_server_ip> <ssl port>

> **✎ Note:**
>
> **<obiee_server>** refers to the server, where the Oracle Business Intelligence Enterprise Edition 12c is installed along with Oracle Web Tier and Oracle Webgate. The <ssl port> refers to the Oracle Web Tier SSL Port.

d. Click **Apply**.

e. From the **System Configuration** tab, access the **Manager Settings** section, expand the **SSO Agents** node, and expand **OAM Agents**.

f. On the **Search** page, define your criteria in the **Name** field as **ArgusAnalyticsPolicy** and click **Search**.

g. In the Search results, click **ArgusAnalyticsPolicy** to edit the **Agent Registration**.

h. Locate the Security options and click **Simple**.

i. Click **Apply** to submit the changes.

j. This generates the artifacts again or afresh. Copy the generated Files (Artifacts) to the Webgate Instance Location from the OAM 11g server.

The 11g Webgate Agent (ArgusAnalyticsPolicy), which is updated/created in the Oracle Access Manager 11g Oracle Access Manager Console, also creates the following artifacts on the Oracle Access Manager 11g server:

cwallet.sso

ObAccessClient.xml

aaa_cert.pem

aaa_key.pem

password.xml

This is based on the Security Mode that you have configured, which in this case now is **Simple**. On the Oracle Access Manager 11g server, these files are present at the following location:

```
<OAM_FMW_HOME>/user_projects/domains/<OAM_domain>/output/
ArgusAnalyticsPolicy.
```

Copy the **password.xml**, **cwallet.sso**, and **ObAccessClient.xml** files to the **<obiee_server>** in the `<Webgate_Instance_Directory>/webgate/config` directory For example:

```
<MW_HOME>/Oracle_WT1/instances/instance2/config/OHS/ohs1/webgate/config
```

Copy the **aaa_cert.pem** and **aaa_key.pem** files to the **<obiee_server>** in the `<Webgate_Instance_Directory>/webgate/config/simple` directory. For example:

```
<MW_HOME>/Oracle_WT1/instances/instance2/config/OHS/ohs1/webgate/config/
simple
```

k. Restart the Oracle Access Manager Server.

3. The Oracle Web Tier is configured with Oracle Business Intelligence Enterprise Edition as a reverse proxy, as mentioned in step 22 of the Configure SSO using the Oracle Access Manager 11g, In addition to those steps, you also need to enable SSL for the Oracle Web Tier using the following steps:

a. Locate and edit the `<ORACLE_WT_INSTANCE>/config/OHS/ohs1/ ssl.conf`.

b. Find the `VirtualHost` section and ensure the following entry is present:

```
SSLWallet "${ORACLE_INSTANCE}/config/${COMPONENT_TYPE}/$
{COMPONENT_NAME}/keystores/default"
```

c. Save the file and restart the HTTP Server.

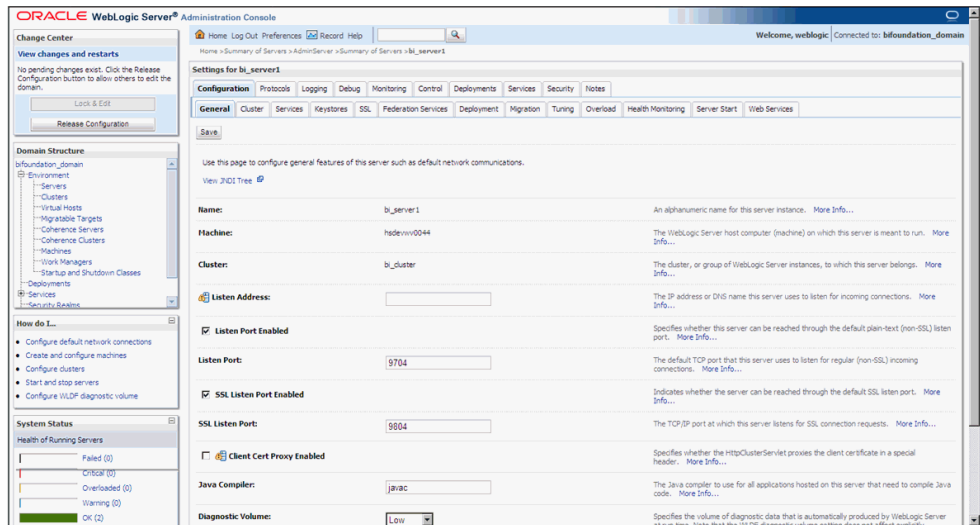ORACLE®

Enable default SSL Configuration in OBIEE

1. Open the Oracle WebLogic Server Administrator console for Oracle Business Intelligence Enterprise Edition.

2. Navigate to **Environment** > **Servers** in the tree view displayed on the left side.
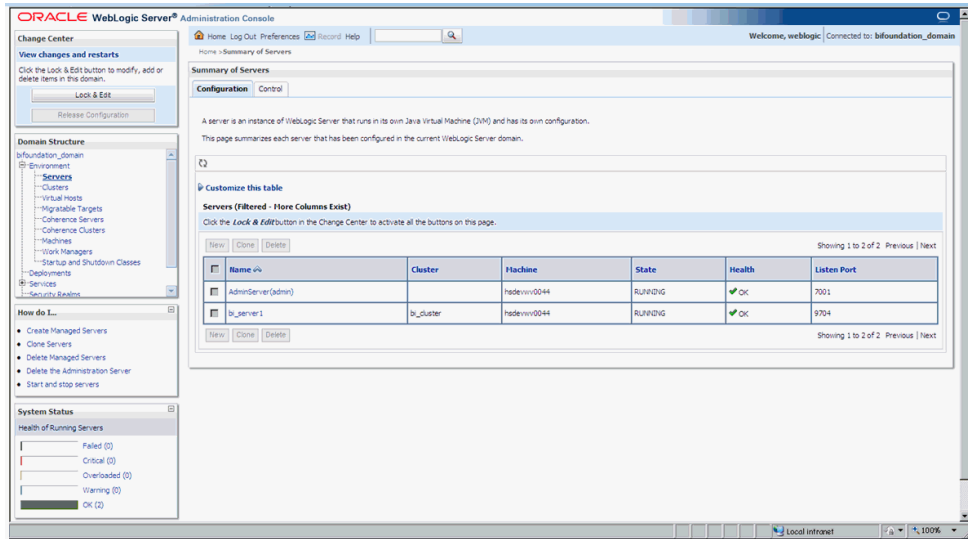
3. Click the **Lock & Edit** button to change the configuration.

4. Click the **AdminServer(admin)** link and in the General Tab, enable the **SSL listen Port**, as displayed below:
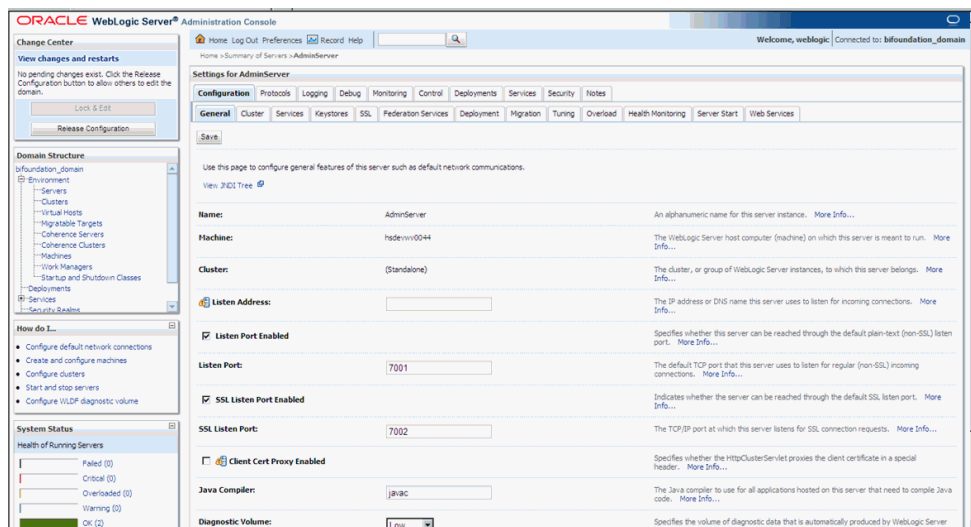
5. Click **Save**.

6. In the Servers window, click **bi_server1** (or the link for the Oracle Business Intelligence Enterprise Edition server configured).

7. Enable the **SSL Listen Port** for the Oracle Business Intelligence Enterprise Edition server as well.

8. Click on **Save**.

9. Edit the startWebLogic.cmd file present in the location:

   `<OracleBIHome>\user_projects\domains\bifoundation_domain\` and add the below entry to the file before the "call" statement.

   set JAVA_OPTIONS=%JAVA_OPTIONS% -Djavax.net.ssl.trustStore="D:/Oracle/Middleware/wlserver_10.3/server/lib/DemoTrust.jks" -Djavax.net.ssl.trustStorePassword=""

   > **Note:**
   >
   > Edit the Path names according to your installation directories.

10. Restart all the Managed Oracle Business Intelligence Servers.

    > **Note:**
    >
    > For more detailed information on configuring SSL certificates in Oracle Business Intelligence Enterprise Edition, refer to the guide - *Oracle Fusion Middleware Security Guide for Oracle Business Intelligence Enterprise Edition*.

A

Create ODBC Connection for Oracle Business Intelligence Enterprise Edition Administration Tool

This appendix comprises the steps to create ODBC connection for Oracle Business Intelligence Enterprise Edition Administration tool.

1. Navigate to **Control Pane**l > **All Control Panel Items** > **Administrative Tools**.

2. Double-click **Data Sources (ODBC) (64-bit)**.

    The ODBC Data Source Administrator (64-bit) dialog box appears.

3. From the System DSN tab, and click **Add**.

    The Create New Data Source dialog box appears.

4. From the list of the available drivers, select **Oracle BI Server**, and click **Finish**.

    The Oracle Oracle Business Intelligence Server DSN Configuration dialog box appears.

5. Enter the following fields:

    a. **Name**—AN_DSN (or any name)

    b. **Description**

    c. **Server**—Oracle Business Intelligence Enterprise Edition Server Name (FQDN)

6. Click **Next**.

    a. **Login ID**—AN_DSN (or any name)

    b. **Password**

    c. **Port**—The port must be same as mentioned in the Managed Server port list for Oracle Business Intelligence Enterprise Edition Oracle Business Intelligence Server.

        To retrieve this port, go to **Enterprise Manager** > **BI Instance** > **Availability** tab.

7. Click **Next**.

8. Click **Finish**.

B

Upgrade Oracle Argus Analytics from 1.1.1 to 7.0.3

1. Apply patch Oracle Argus Analytics 1.1.1.1 (Follow the patch release notes for complete details).

2. Get the latest Context Sensitive Help files and deploy the same. Follow the steps given below:

    a. Extract the Oracle Argus Analytics 7.0.3 installer to any temporary folder. Example: `C:\temp\AN80`

    b. Navigate to the folder
        `<Installer ExtractionFolder>\stage\Components\oracle.hsgbu.opva\7.0.3.0.0\1\DataFiles\Expanded\filegroup19`. Copy the `opva_help.zip`.

    c. Navigate to `<Argus Analytics Home>\report\help`. Rename the existing `opva_help.zip` to `opva_help_<Argus Analytics version>.zip` (Example: `opva_help_AN1.1.zip`).

    d. Paste the copied `opva_help.zip` file.

    e. Follow the steps mentioned in Configure Oracle Business Intelligence Enterprise Edition Help Files to deploy the latest help file.

3. (Optional Setup): Oracle Argus Analytics 7.0.3 is certified with Oracle Data Integrator (ODI) 11.1.1.7. It is optional to upgrade the existing Oracle Data Integrator from 11.1.1.6.3 to 11.1.1.7.0. Follow the documentation *Oracle® Fusion Middleware Upgrade Guide for Oracle Data Integrator 11g Release 1 (11.1.1.7.0)* to upgrade the existing Oracle Data Integrator 11.1.1.6.3 to 11.1.1.7.0.