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Overview

The Oracle Insurance Policy Administration (OIPA) application and the Rules Palette application together form a complete solution. A four step installation process is required in order to install and set-up both applications. These instructions represent step one of that process. Refer to the documentation library included with this release for the other three steps of the installation. This installation guide is meant solely for the installation of a development environment and installations for production environments require additional/ different configuration. These instructions are written for Database Administrators who have comprehensive knowledge of creating and configuring databases.

Audience

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Customer Support

1. If you have any questions about the installation or use of our products, please visit the My Oracle Support website: <https://support.oracle.com>, or call (800) 223-1711.
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3. or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

Pre-requisites

1. One of the databases: Oracle / DB2 / MSSQL Server.
2. Any compatible operating system.
3. Oracle Insurance Policy Administration v11.0.0.0 Media Pack from the Oracle Software Delivery Cloud. Select the Media pack that corresponds to the application server you will be using.
4. Database from the Oracle Insurance Policy Administration v11.0.0.0 Media Pack on the Oracle Software Delivery Cloud. The database information is listed as a separate download within the Media Pack.

Note: Please refer to the 11.0.0.0 version (part number E78460-01) information published in the Technology Stack section of the Oracle Technology Network (OTN).

Database Server Requirements

Oracle Database Server

- » Memory - 3 GB RAM
- » CPU - 3 Ghz total capacity
- » Disk - 10 GB available storage

Microsoft SQL Server

- » Memory - 3 GB RAM
- » CPU - 3 Ghz total capacity
- » Disk - 10 GB available storage

DB2 Database Server

- » Memory - 3 GB RAM
- » CPU - 3 Ghz total capacity
- » Disk - 10 GB available storage

Steps to Install Oracle 12c Database

Note: Install the database according to the vendor's instructions. Be sure to note the database installation user name and password for use later in the installation process.

The Oracle database must use a Unicode character set defined at database creation. Complete the following installation tasks:

Run SQL*Plus

Run **SQL*Plus** as a user with DBA privileges by running the following command:

```
sqlplus / as sysdba
```

Create Users

Create the Oracle users for the OIPA and IVS schemas by entering the following commands from an sqlplus session:

```
create user <OIPA Username> identified by <OIPA Password>;  
  
grant connect, resource to <OIPA Username>;  
  
grant UNLIMITED TABLESPACE to <OIPA Username>;
```

```
create user <IVS Username> identified by <IVS Password>;

grant connect, resource to <IVS Username>;

grant UNLIMITED TABLESPACE to <IVS Username>;
```

Import the Databases

1. Create the Oracle directories for the fully qualified path to the export data pump dumpfile. Enter the following commands from a sqlplus session:

```
create directory oipa_dir as '<fully qualified path holding the dumpfiles>';

-- Example: /opt/oracle/backups/

grant read, write on directory oipa_dir to system;

exit;
```

2. Create and load the oipa and IVS databases using import data pump (impdp):

Note: The **impdp** command can be run interactively. It will prompt you to provide any required arguments not on the command line, or you can enter them in one command. The system password is the same password entered when the database was configured, and the OIPA and IVS Usernames and passwords are those entered in the Create Users section above.

```
impdp system/<system password> directory=oipa_dir dumpfile=oipa_pas.dmp logfile=OIPA_
PAS.log full=yes remap_schema=oipa:<OIPA Username>

impdp system/<system password> directory=oipa_dir dumpfile=oipa_ivs.dmp logfile=OIPA_
IVS.log full=yes remap_schema=gaivs:<IVS Username>
```

Create a Read-Only Database User

1. Extract "create_readonly_user.sh" from OIPA distribution.
2. Mention file will be available at "script\oracle\unix".
3. Change the permissions so the script can be executed by the shell by entering the following command:

```
chmod 770 Create_readonly_user.sh
```

4. Execute the script by entering the following command:

```
./create_readonly_user.sh
```

5. When prompted you will need to answer the following:

- » **SYSTEM password** – The password that was set during the configuration of Oracle 11g.
- » **Table Owner Userid** – Type the OIPA Username used above.
- » **Read Only Userid** – Type **OIPA_RO**. You may use this example or create your own user.
- » **Read Only Password** – Type **OIPA_RO**. You may use this example or create your own password.

Steps to Install Microsoft SQL Server 2008

Note: Install the database according to the vendor's instructions. Be sure to note the database installation user name and password for use later in the installation process.

The Microsoft SQL Server Management Studio is used to create the new databases and users, as well as restore the databases from the provided backups.

Create New Databases

Using Microsoft SQL Server Management Studio, create two new databases: one for the OIPA data, and one for the IVS data.

Create Database Users

Three new database users will need to be created: two for the OIPA database and one for the IVS database.

- » OIPA database user with full privileges for the OIPA database
- » OIPA database user with read-only privileges for the OIPA database
- » IVS database user with full privileges for the IVS database

Restore the Databases

The OIPA Media Pack includes backups of both databases that can be restored using Microsoft SQL Server Management Studio. To restore the databases, right-click on the specific database in SQL Server Management Studio and select restore. Ensure that the correct backup file is used to restore each database.

- » OIPA database: oipa_pas.bak
- » IVS database: oipa_ivs.bak

Steps to Install IBM DB2

Note: Install the database according to the vendor's instructions. Be sure to note the database installation user name and password for use later in the installation process.

Configure DB2

Several database settings must be configured prior to creating the OIPA databases. To configure the database settings, use the `db2` and `db2set` commands for DB2:

Global Settings

```
db2set DB2_USE_ALTERNATE_PAGE_CLEANING=YES
db2set DB2_REDUCED_OPTIMIZATION=TRUE
db2set DB2_EVALUNCOMMITTED=TRUE
db2set DB2_CORRELATED_PREDICATES=YES
db2set DB2_SKIPINSERTED=YES
db2set DB2_SKIPDELETED=YES
```

DBM Changes

```
db2 update dbm cfg using sheapthres 120000
db2 update dbm cfg using mon_heap_sz 256
db2 update dbm cfg using query_heap_sz 2048
```

Create the Database

A database with two schemas will need to be created; one schema for OIPA data and one for IVS data. Use the `db2 create` command to create the database.

```
db2 create database OIPA.
```

Create Users

Three database users must be created:

- » OIPA_PAS - OIPA user with full privileges
- » OIPA_RO - OIPA user with read-only privileges
- » OIPA_IVS - IVS user with full privileges

Since DB2 uses the operating system for authentication, these users must first be created at the operating system level. Please consult the operating system documentation for creating users.

Configure the Databases

The database settings for the database must be configured.

```
db2 connect to OIPA
db2 update db cfg using dbheap 2400
db2 update db cfg using logbufsz 512
```

```

db2 update db cfg using locklist 10000

db2 update db cfg using app_ctl_heap_sz 256

db2 update db cfg using sortheap 1024

db2 update db cfg using applheapsz 4096

db2 update db cfg using locktimeout 360

db2 update db cfg using maxlocks 76

db2 update db cfg using chngpgs_thresh 30

db2 update db cfg using num_iocleaners 7

db2 update db cfg using num_ioservers 7

db2 update db cfg using logfilsiz 20000

db2 update db cfg using logprimary 30

db2 update db cfg using logsecond 0

db2 update db cfg using pckcachesz 1024

db2 update db cfg using catalogcache_sz 512

db2 update db cfg using maxfilop 256

db2 update db cfg using maxappls 60

db2 update db cfg using avg_appls 1

db2 update db cfg using PCKCACHESZ 2048

db2 update db cfg using SORTHEAP 512

db2 update db cfg using dft_queryopt 3

```

Prepare the DDL Script

The **db2look_oipa_pas.ddl** and the **db2look_oipa_ivs.ddl** files must be edited to include the fully-qualified path names for each table space creation command.

Create the Schema Using the DDL Script

The **db2look_oipa_pas.dll** file and the **db2look_oipa_ivs.ddl** file, which were modified in the previous step, will now be used to create the database schemas.

```

db2 -tvf <ddl_file> > <create_schema_log>

##Example: db2 -tvf db2look_oipa_pas.ddl >db2look_oipa_pas.log

db2 -tvf db2look_oipa_ivs.ddl >db2look_oipa_ivs.log

```


After execution has completed, reference the created log files, **db2look_oipa_pas.log** and **db2look_oipa_ivs.log**, to ensure the schemas were successfully created.

Load the Database Data

The db2move command will be used to load the data into the database.

To load the OIPA database, first ensure that you are currently in the directory that contains the OIPA database data from the Oracle Insurance Policy Administration Media Pack.

```
db2move <dbname> load -lo replace <lobpath file>
```

```
##Example: db2move OIPA load -lo replace > OIPA.log
```

To load the IVS database, first ensure that you are currently in the directory that contains the IVS database data from the Oracle Insurance Policy Administration Media Pack.

```
db2move <dbname> load -lo replace <lobpath file>
```

```
##Example: db2move IVS load -lo replace > IVS.log
```

Import Client Data

After the database load is complete, run the following command to insert the required AsClient records.

```
db2 load from tab<number>.ixf of ixf
```

Where ixf modified by generatedignore is replaced into "<schema>". ASCLIENT where tab<number>.ixf is corresponding ixf file for ASCLIENT, which is listed right alongside ASCLIENT in db2move.lst file

