ORACLE
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Oracle® Insurance Policy Administration Installer for IBM DB2 and Websphere

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INTRODUCTION

OIPA Installer for IBM DB2 and Websphere is an installation application that automates the installation of Oracle Insurance Policy Administration (OIPA), Oracle Insurance Rules Palette (OIRP), Oracle Cycle Agent on IBM Websphere Application Server, Oracle Cycle Client and OIPA Database Schema in IBM DB2 database.

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PREREQUISITES

OIPA Installer needs a number of prerequisites in order to execute successfully.

Technical Requirements

- OEL Enterprise Linux 5.9 64-bit
- Sun Java SE 1.6.0_41 or later
- 500MB of hard disk space

For IBM Stack

- IBM DB2 10.5 Fixpack 5 for Linux
- WebSphere Application Server 8.5.5

Additional Requirements

- The OIPA Installer uses an active X Window system. If installing remotely, make sure the environment you are installing from is setup to display X Window.
- The installer can only be launched by a user other than the root user.
- When performing the database installation, the installation user must be able to execute db2 commands, and should be the owner of a DB2 instance.
- When installing the OIPA Application and the Web Application Utility, the installation user must be owner of the WebSphere.
- The installation user must have access to JDK.
- Modify the com.ibm.SOAP.requestTimeout property to 6000 from default 180 by editing the `soap.client.props` file that is located in the `properties` subdirectory of the *`profile_root`* directory.
- Make sure that associated group owner of Oracle inventory folder should be shared between both DB2 and Websphere users. Also group users should have write permissions on oracle inventory folder.
  Example of valid entries:

```
$ ls -l /u01/app/oraInventory
drwxrwx--- 2 gbuora dba 73728 Feb 13 05:01 logs
$ groups db2inst1
db2inst1 : db2iadm1 dba
$ groups db2inst2
db2inst2 : db2iadm1 dba
$ groups was
was : dba
```

PRE-INSTALLATION STEPS

The following checks are required before any applications can be installed.

OraInventory Setup

`oraInventory` is an common directory location where Oracle Universal Installer applications store logs and other data. OIPA Installer stores install logs at the same location. In case if your server environment does not have `oraInventory` the Installer will prompt to create an `oraInventory` directory for your environment. Follow the onscreen directions for details.

Xconnection Check

> **Note:** This check is not required when the log in user and the install user are the same

An Xconnection check is required before installing any applications. Without this check, the Installer Wizard will not open.

To check the Xconnection configuration, execute the xclock command at the install user prompt. If xclock does not execute successfully, then execute the following steps:

1. Go to the log in user prompt and run the following commands.

   ```
   xauth extract - :`echo $DISPLAY |awk -F: '{print $2}'` | sudo su - <user> -c "xauth merge -"
   ```

   Here replace <user> with the respective user from where you want to run the installer

   For Example: $ xauth extract - :`echo $DISPLAY |awk -F: '{print $2}'` | sudo su - gbuora -c "xauth merge -"

2. Log in to the respective user and run the xclock command to check the configuration done properly

Increase WAS JVM Heap Size

Increase the heap size of the WebSphere Application Server Deployment manager for the application.

Procedure

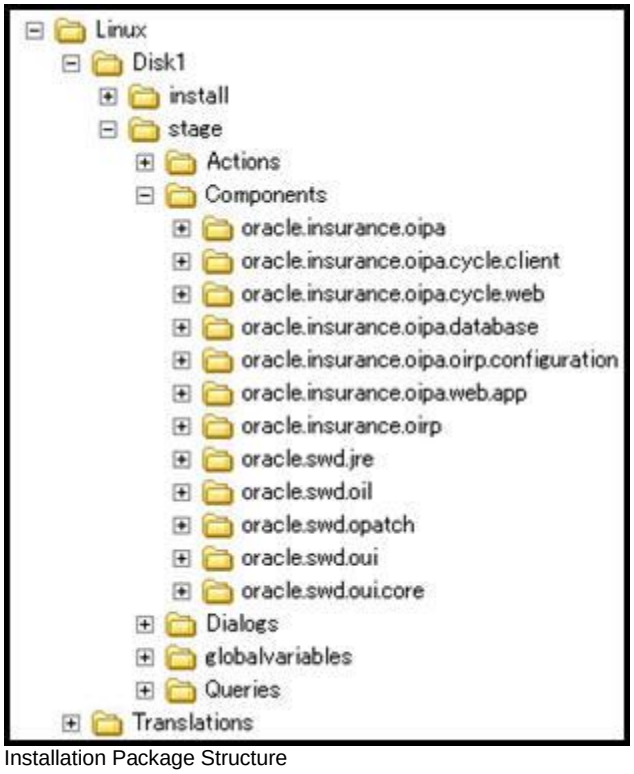
1. Open the Integrated Solutions Console.
2. On the left-hand side, expand the **System Administration** heading and click **Deployment manager**.

3. Under **Server Infrastructure**, expand the **Java and Process Management** heading and click **Process Definition**.
4. Under **Additional properties**, select **Java Virtual Machine**.
5. In the **Maximum Heap Size** text box, specify the new maximum heap size. Eg: 1024 MB
6. Click **OK**.
7. Click **Save**.
8. Restart the deployment manager for the changes to take effect.

Launch Utility

The following shell file needs to be executed in order to start the installer. Go to the `Linux/Disk1/install/directory` and run the **runInstaller.sh** file. It will ask to provide the jdk path. For example:

```
[gbuora@slc01hfz install]$OIPA_INSTALLER_HOME/Linux/Disk1/runinstaller.sh –jreLoc /opt/jdk1.6.0_41
```



Installation Package Structure

INSTALLATION PROCESS

The following sections will walk through the installation process.

Note: Click on each field on the screen to get more information in the message window at down. For detailed information about each field click on the **Help** button.

Installing the OIPA Schema in IBM DB2 Database

1. On the Installer's Welcome page, click **Next**.
2. Select Install OIPA Database**,** make sure that drop down has DB2 entry and click **Next**.
3. Enter or select the Home Name and Path for Database installation and inventory path. Click **Next**.
4. Enter the server name, port, schema, DBA, read only user credentials, DB2 database name and DB2 instance user details. Click **Next**.
5. Enter the IVS user credentials, IVS schema, IVS instance user credentials and IVS database name. Click **Next**
6. Review the information on the Summary page.
7. Click **Install** to begin the installation.

Post-Schema Installation Checks

Follow these steps to check that the installer successfully installed the required schemas in the database:

1. Login as the DB2 1st instance user (Eg: `db2inst1`) and run the command `db2 list database directory`. It will show the database created for OIPA App DB.
2. Run the command `$ db2 connect to OIPADATABASENAME user DBAUSER using DBAPASS. (Database name, DBA user and pass you provided)`

Go inside db2 shell by using command `$ db2` and run the command `list tables for schema <schema-name>` to show all OIPA App Tables.

3. Run the query to check the populated data the tables. Example: `SELECT * FROM <schema-name>.ASCODE and SELECT * FROM <schema-name>.ASSYSTEMVERSION to` verify and make sure data exists.
4. Similarly check for the same in the 2nd DB2 instance for IVS (Eg: `db2inst2`). Run the command to `SELECT * FROM <schema-name>.IVSCODE` to confirm data exists.

Installing OIPA, PaletteConfig, Cycle Agent and Cycle Client

Before starting the OIPA, PaletteConfig and Cycle Web Agent installation, make sure to manually check the following settings: Note: Click on each field on the screen to get more information in the message window at down.

1. Start the node and profile as follows:

```
$ /scratch/was/IBM/WebSphere/AppServer/profiles/AppSrv01/bin/startNode.sh
$ /scratch/was/IBM/WebSphere/AppServer/profiles/Dmgr01/bin/startManager.sh -profileName
  Dmgr01
```

2. Launch the Installer wizard (see the Launch Utility section).
3. On the Installer's Welcome page, click **Next**.
4. Select Install OIPA application on Server , make sure that drop down has IBM Websphere Server and click **Next**.
5. Enter or select the OIPA installation Home and path. Click **Next**.
6. View the applications to be installed and click **Next**.
7. Enter or select the path to the Websphere home directory. Click **Next**.
8. Enter the WPS console user credentials, node name, application server name and database name. Click **Next**.
9. Enter the server host, db2 running port, new schema name, available OIPA and read only user credentials. Click **Next**.
10. Make any necessary updates to the PAS.properties file. There are five pages in total relating to this file
11. Make any necessary updates to the Coherence configuration and click **Next**.
12. Make any necessary updates to the cycle.properties file of the cycle agent. There are four pages in total relating to this file.
13. Make any necessary updates to the cycle agent Coherence configuration and click **Next**.
14. Make any necessary updates to the cycle.properties file of the cycle client and click **Next**.
15. Make any necessary updates to the cycle client Coherence configuration and click **Next**.
16. Review the information on the Summary page.
17. Click **Install** to begin the installation.

Post-OIPA Installation Checks

Before following the steps below, log in to the Websphere administration console using the location specified during installation. For example: https://localhost:9043/ibm/console/). Use the Websphere credentials specified during installation.

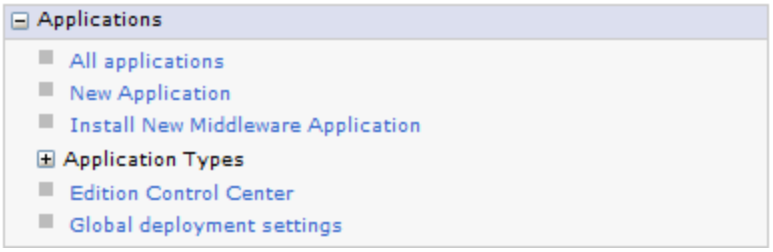
Check the Servers' Statuses

1. Click **Servers - All servers** on the left side of the screen. The servers just installed should be listed as RUNNING.

The Servers node within the Websphere administration screen

Check the Deployed Applications' Statuses

1. Click **Applications – All applications** on the left side of the screen. The applications just installed should have a state of Active.



Applications node within the Websphere administration screen

To check OIPA Cycle client, ensure that **run.sh** (example: `/usr/was/OIPA_WPS_Home/CycleClient/bin/`) executes successfully from the cycle client.

Log in to OIPA and the Web Application Utility

1. For OIPA, go to `http://localhost:9081/PASJava/` in Internet Explorer.
2. For the Web Application Utility, go to `http://localhost:9083/PaletteConfig` in Internet Explorer.
3. Check if OIPA Cycle Web application is deployed, go to `http://localhost:9082/CycleWeb/`

Note:	In the above URLs, remember to substitute the server name and port number for those that were specified during installation.

Data Intake Setup

Please follow the data Intake setup document.

Rules Palette IDE Setup

The Installer will place OIRP_10.2.0.0.zip at `OIPA_HOME/OIRP` location. It will be also available for download from the PaletteWeb application once it is configured. Follow the Rules Palette documentation for details.

UNINSTALL PROCESS

To uninstall the applications and/or the OIPA database follow the steps below.

Uninstall OIPA, OIRP and Cycle

1. Run the de-installer using websphere owner. Go to oui/bin directory of OIPA home (where application was installed) directory and execute runInstaller –deinstall

   ```
   Example: [wasuser@slc01hfz install]$OIPA_HOME/oui/bin/runinstaller.sh –deinstall –jreLoc
   /opt/jdk1.6.0_41
   ```

2. On the installer's Welcome page, click **Next**
3. OIPA Home path details will be displayed, click **Deinstall** to de-install the OIPA application
4. A warning message will be displayed, click on 'Yes" for complete de-installation
5. De-installation complete page will be displayed once the de-installation is done, click **Finish**

Uninstall Database

Note: Ensure Application is un-installed first before proceeding with database un-install.

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1. Before running database de-installation, make sure that database is up and OIPA schema users are not in use. Go to sqldeveloper and disconnect the connections to oipa users if already connected.
2. Run the de-installer using db2 owner. Go to oui/bin directory of OIPA DB2 HOME (Path was given during OIPA database schema installation) directory and execute runInstaller –deinstall

   ```
   Example: [db2inst1@slc01hfz install]$ORA_HOME/oui/bin/runinstaller.sh –deinstall –jreLoc
   /opt/jdk1.6.0_41
   ```

3. On the installer's Welcome page, click **Next**
4. OIPA Oracle Home path details will be displayed, click **Deinstall** to de-install the OIPA DB2 schema
5. A warning message will be displayed, click on 'Yes" for complete de-installation
6. De-installation complete page will be displayed once the de-installation is done, click **Finish.**