

**Oracle® Insurance Policy  
Administration**

**WebSphere Deployment**

**Installation Instructions – Step 2**

Version 10.1.0.0

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## INTRODUCTION

The Oracle Insurance Policy Administration (OIPA) application and the Oracle Insurance Rules Palette form a solution for configuring, managing and processing policy data. Both applications, along with the Web Application Utility, must be installed and then configured to work together.

This install guide will cover step two of the installation process, in which the OIPA application and Web Application Utility are configured using IBM WebSphere Version 8.5.5.0. Please refer to the OIPA Database Installation Instructions provided in the documentation library to ensure the database is set up correctly.

## CUSTOMER SUPPORT

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.

Oracle customers 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.

## PREREQUISITES

Before beginning the installation steps, you must have the following components:

- A server with a Windows or Linux operating system
- WebSphere Application Server Version 8.5.5.0
- Administrative rights to the server
- Oracle Insurance Rules Palette V10.1.0.0 Media Pack from the Oracle Software Delivery Cloud. The Web Application Utility files are included in this Media Pack.
- Oracle Insurance Policy Administration V10.1.0.0 Media Pack from the Oracle Software Delivery Cloud

## INITIAL SYSTEM CONFIGURATION

### Database Drivers

Create a directory for the database drivers for your database. Copy the necessary driver .jar files into this directory.

Example: AIX or Linux: /opt/oracle/db\_drivers

Windows: C:\oracle\oipa\db\_drivers

- **Oracle 12.1** – The necessary driver, **ojdbc-11.2.0.2.jar**, is included in the **libs** directory of the OIPA Media Pack.
- **IBM DB2** – The two necessary .jar files (**db2jcc** and **db2jcc\_license\_cu**) are included with the purchase of the DB2 software. These files are not available for download. Contact your IT department if you need assistance locating these files.

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**Note:** Each version of DB2 requires specific drivers. The files above correspond with DB2 10.1.

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### OIPA Setup

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**Note:** For a WebSphere 8.5.5.0 deployment, the .jar files need to be installed only once. If OIPA is reinstalled, the existing files may be re-used.

---

1. Copy the following files to the external jar file directory (e.g. /opt/IBM/WebSphere/AppServer/lib/ext):
  - eclipselink-2.3.0.jar
  - javax.persistence-2.0.3.jar
2. Edit amm.filter.properties from /opt/IBM/WebSphere/AppServer/properties
  - a. Remove or comment out the lines listed below:

```
#Ignore-Scanning-Archives = ant.jar, \
# axis.jar, \
# CICS.jar, \
# db2java.zip, \
# db2jcc.jar, \
# db2jcc_javax.jar, \
# dfjcics.jar, \
# ibmjndi.jar, \
# jaxrpc.jar, \
# jakarta.oro.jar, \
# ldapbp.jar, \
# mailapi.jar, \
# msbase.jar, \
# mssqlserver.jar, \
# saaj.jar, \
# wsd14j.jar, \
# sqljdbc.jar, \
# struts.jar, \
```

# struts-scaffold.jar

b. Add the lines listed below:

3. Ignore-Scanning-Archives : ant.jar, axis.jar, CICS.jar, db2java.zip, db2jcc.jar, db2jcc\_javax.jar, dfjcics.jar, ibmjndi.jar, jaxrpc.jar, jakarta.oro.jar, ldapbp.jar, mailapi.jar, msbase.jar, mssqlserver.jar, saaj.jar, wsdl4j.jar, sqljdbc.jar, struts.jar, struts-scaffold.jar, antisamy-1.4.3.jar, aopalliance-1.0.jar, ape-10.1.0.0.jar, backport-util-concurrent-2.2.jar, batik-css-1.7.jar, batik-ext-1.7.jar, batik-util-1.7.jar, bcel-bcel-5.1.jar, bll-10.1.0.0.jar, bval-core-0.4.jar, bval-jsr303-0.4.jar, cglib-nodep-2.2.2.jar, coherence.common-2.1.1.jar, coherence.patterns.processing-1.4.2.jar, commons-beanutils-core-1.8.3.jar, commons-codec-1.4.jar, commons-configuration-1.5.jar, commons-dbcp-1.4.jar, commons-dbtutils-1.3.jar, commons-digester-1.8.jar, commons-fileupload-1.2.jar, commons-httpclient-3.1.jar, commons-jxpath-1.3.jar, commons-lang3-3.1.jar, commons-pool-1.5.6.jar, cycle.agent-10.1.0.0.jar, cycle.interface-10.1.0.0.jar, dal-10.1.0.0.jar, dcl-10.1.0.0.jar, dom4j-1.6.1.jar, el-ri-1.2.jar, esapi-2.0GA.jar, ext-10.1.0.0.jar, extensibility-10.1.0.0.jar, FastInfoset-1.2.2.jar, freemarker-2.3.16.jar, global.dal-10.1.0.0.jar, global.dcl-10.1.0.0.jar, global.processing-10.1.0.0.jar, global.utl-10.1.0.0.jar, icefaces-comps-ee-EE-1.8.2.GA\_P04.jar, icefaces-ee-EE-1.8.2.GA\_P04.jar, icefaces-facelets-ee-EE-1.8.2.GA\_P04.jar, icu4j-4.6.jar, janino-2.5.16.jar, jaxb-api-2.0.jar, jaxen-1.1.3.jar, jaxws-api-2.1.jar, jep-2.4.0.jar, jibx-bind-1.2.2.jar, jibx-extras-1.2.2.jar, jibx-run-1.2.2.jar, jsf-api-1.2\_15-b01-FCS.jar, jsf-impl-1.2\_15-b01-FCS.jar, krysalis-jCharts-1.0.0-alpha-1.jar, list.txt, log4j-1.2.16.jar, mail-1.4.jar, math-10.1.0.0.jar, model-10.1.0.0.jar, nekohtml-1.9.12.jar, pas.ape-10.1.0.0.jar, pas.bll-10.1.0.0.jar, pas.cycle-10.1.0.0.jar, pas.dal-10.1.0.0.jar, pas.dcl-10.1.0.0.jar, pas.di.ext-10.1.0.0.jar, pas.helper-10.1.0.0.jar, pas.model-10.1.0.0.jar, pas.oipa-10.1.0.0.jar, pas.uip-10.1.0.0.jar, resource-10.1.0.0.jar, saxon-9.1.0.8.jar, saxon-dom-9.1.0.8.jar, slf4j-api-1.6.1.jar, slf4j-log4j12-1.6.1.jar, spring-aop-3.1.0.RELEASE.jar, spring-asm-3.1.0.RELEASE.jar, spring-beans-3.1.0.RELEASE.jar, spring-context-3.1.0.RELEASE.jar, spring-context-support-3.1.0.RELEASE.jar, spring-core-3.1.0.RELEASE.jar, spring-expression-3.1.0.RELEASE.jar, spring-jdbc-3.1.0.RELEASE.jar, spring-jms-3.1.0.RELEASE.jar, spring-orm-3.1.0.RELEASE.jar, spring-tx-3.1.0.RELEASE.jar, spring-web-3.1.0.RELEASE.jar, sre.interface-10.1.0.0.jar, sre-10.1.0.0.jar, uip-10.1.0.0.jar, utl-10.1.0.0.jar, validation-api-1.0.0.GA.jar, web-10.1.0.0.jar, xml-apis-ext-1.3.04.jar, xws-security-3.0.jar
4. Create a directory on the WebSphere server to store various configuration files for OIPA (e.g., /opt/oracle/oipa/ or C:\oracle\oipa).
5. Create sub-directories inside the directory from Step 4 called **conf** and **libs**.

---

**Note:** Make a note of the path to the libs directory. It will be used later in the classpath for setting up the OIPA Shared Library.

---

6. Copy the following files from the installation media into the **conf** sub-directory:
  - coherence-cache-config.xml
  - coherence-config.xml
  - PAS.properties
7. Copy the following files from the installation media to the **libs** sub-directory:
  - antlr-3.4.jar
  - commons-collections-3.2.1.jar
  - commons-logging-1.1.1.jar

- el-api-2.2.jar
- log4j-1.2.16.jar
- spring-instrument-3.1.0.RELEASE.jar

8. Download aspectj-1.6.11.jar from

<http://www.eclipse.org/downloads/download.php?file=/tools/aspectj/aspectj-1.6.11.jar>

- Open aspectj-1.6.11.jar with an unzipping software and copy aspectjrt.jar and aspectjweaver.jar from the lib folder into the **libs** sub-directory.

---

**Note:** Delete aspectjrt.jar from ./IBM/WebSphere/AppServer/lib

---

9. Unzip OIPA distribution and again unzip opss\_standalone.zip and copy below jars to **libs** folder

- ..\opss\_standalone\modules\oracle.pki\_11.1.1\oraclepki.jar
- ..\opss\_standalone\modules\oracle.osdt\_11.1.1\osdt\_cert.jar
- ..\opss\_standalone\modules\oracle.osdt\_11.1.1\osdt\_core.jar

10. Unzip OIPA distribution and again unzip coherence.zip and copy ..\coherence\lib\coherence.jar into **libs** folder.

11. Use a text editor to open the **PAS.properties** file that you just copied to the server.

The PAS.properties file contains properties for Oracle, and DB2 database types, with the Oracle settings active by default. The inactive settings are commented out with a '#' character at the start of each line. To change a setting, remove the '#' from the required property setting, and insert it at the beginning of the setting you want to de-activate.

12. The properties setting must match the type of database being used. The two properties that are used to do this are:

- application.databaseType
- jpa.databasePlatform

---

**Note:** Refer to the System Properties document in the Oracle Insurance Policy Administration E55027\_01 Documentation Library on the OTN for a complete list of all properties and allowed values.

---

13. Identify the default locale in the PAS.properties file. The locale selected will determine the translation that is loaded in the database for OIPA when it launches. The default setting is English.

- application.defaultLocale

14. If using an Oracle database, please skip this step. If using a DB2 database, you will need to modify the PAS.properties file to include configuration for case-insensitive searching:

- Modify the PAS.properties file to change the following line from the default setting of "false" to "true":

```
search.field.text.caseInsensitive=true
```

## Web Application Utility Setup

1. Create a directory on the WebSphere server to store various configuration files for the Web Application Utility (i.e., /opt/oracle/paletteconfig/ or C:\oracle\paletteconfig).
2. Create sub-directories inside the directory from Step 1 called **conf**, **libs** and **uploads**.
3. Copy the **PaletteWebApplication.properties** file into the **conf** sub-directory.
4. Use a text editor to open the PaletteWebApplication.properties file and edit the **download.dir** property to point to the **uploads** sub-directory created in Step 2.



## CREATE AND CONFIGURE OIPA

Using a web browser, connect to the Administrative Console using the appropriate server name and 9060 as the default port (Ex: [http://server\\_name:9060/admin](http://server_name:9060/admin)).

### Create the OIPA Application Server

1. Select **Servers>New server**.
2. Select server type **WebSphere application server**.
3. Enter **OIPA** for the name of the server.
4. Click **Next**.
5. Select the default server template.
6. Click **Next**.
7. Ensure **Generate Unique Http Ports** is checked.
8. Confirm the new server by clicking **Finish**.
9. After the application has been created, review the messages at the top of the Application servers screen to confirm that the new server has been created successfully.
10. Navigate to the OIPA server by clicking on its name within the list of application servers.
11. Click the **Session management** link in the **Container Settings** section.
12. Verify that **Enable Cookies** is checked. This is checked by default.
13. Click the **Enable Cookies** link and verify that 'Restrict **cookies to HTTPS sessions**' is unchecked. (This is unchecked by default.)
14. Click **OK**.
15. Click **OK** to save the configuration changes.

---

**Note:** These instructions assume that a fresh installation of the application server was performed. All configuration settings must use the default settings unless otherwise noted. If the application server has been used for previous deployments, you may want to create a new application server specifically for the deployment of the OIPA environment.

---

## Configure WebSphere Environment Variable for Database Driver

A variable must be used to define the location where the database driver is located. The name of the variable depends on the type of database.

- **Oracle:** ORACLE\_JDBC\_DRIVER\_PATH
- **IBM DB2:** DB2UNIVERSAL\_JDBC\_DRIVER\_PATH and DB2UNIVERSAL\_JDBC\_DRIVER\_NATIVEPATH

1. Select **Environment>WebSphere Variables**.
2. Select the scope of the OIPA server from the drop-down list.
3. Click **New**.
4. Enter the name of the database driver variable, as listed above.
5. In the **Value** field, enter the path to the directory where the database driver is located. For example:  
/opt/oracle/db\_drivers or C:\oracle\oipa\db\_drivers
6. Click **OK**.

## Configure the OIPA Application Server

### JVM Settings

1. Navigate to **Servers>Server Types>WebSphere application servers**.
2. Select the OIPA application server.
3. Expand **Java and Process Management**.
4. Select **Process Definition**.
5. Select **Java Virtual Machine**.
6. In the **Classpath** text box, enter the location of the OIPA property files.

**Example:** /opt/oracle/oipa/conf/ or c:\oracle\oipa\conf\

---

**Note:** Be sure to include the trailing slash (/ or \) character.

---

7. Set **Initial Heap Size** to 512.
8. Set **Maximum Heap Size** to 2048.
9. In the **Generic JVM Arguments** text box, enter the following arguments, replacing the location of each file (**highlighted**) with the correct location for the configuration.

---

**Note:** You may find it easier to copy the text below to a text editor and make the necessary changes there, then copy and paste it into the JVM Arguments text box.

---

```
-Duser.language=en -Duser.region=US -Djava.net.preferIPv4Stack=true
-Djava.net.preferIPv6Addresses=false
-javaagent:/opt/oracle/oipa/libs/spring-instrument-3.1.0.RELEASE.jar
-Dtangosol.coherence.override=/opt/oracle/oipa/conf/coherence-config.xml
-Dtangosol.coherence.cacheconfig=/opt/oracle/oipa/conf/coherence-cache-config.xml
-Dtangosol.pof.config=com-adminserver-pas-web-pof-config.xml
```

10. Click **OK**.

### Configure the Listening Port

1. Select **Servers>Server Types>WebSphere application servers**.
2. Select the OIPA server.
3. In the **Communications** section, select **Ports**.
4. Note the port listed for **WC\_defaulthost**.
  - a. If the port number needs to be changed, select the WC\_defaulthost port.
  - b. Modify the **Port** text box as needed.
  - c. Click **OK**.

## Configure the Virtual Host

1. Select **Environment > Virtual Hosts**.
2. Click **default\_host**.
3. Click **Host Aliases**.
4. Click **New**.
5. Enter the port assigned for WC\_defaulthost in the previous listening port section.
6. Click **OK**.

## Create Data Sources

### Add the JDBC Provider

1. Select **Resources>JDBC>JDBC providers**.
2. Select the scope of the server from the drop-down list (the drop-down list displays if the “**Show scope selection drop-down list...**” is checked).
3. Click **New**.
4. Select the **Database type**.
  - For Oracle, select **Oracle**.
  - For DB2, select **DB2**.
  - .
5. Select the **Provider type**.
  - For Oracle, select **Oracle JDBC Driver**.
  - For DB2, select **DB2 Universal JDBC Driver Provider**.
6. Select **Implementation type**.
  - For Oracle, select **XA data source**.
  - For DB2, select **XA data source**.
7. Click **Next**.
8. Enter the variable name used for the database driver.
  - For Oracle, enter `${ORACLE_JDBC_DRIVER_PATH}`
  - For DB2, click **Next**.
9. Click **Finish**

---

**Note:** For Oracle, skip steps 10 and 11. For DB2, continue at step 10.

---

10. Click on the newly created JDBC provider.

11. Confirm that the class path field is set to correctly reference the two DB2 drivers. Refer to the examples below. Edit the field if needed.

- `${DB2UNIVERSAL_JDBC_DRIVER_PATH}/db2jcc.jar`
- `${DB2UNIVERSAL_JDBC_DRIVER_PATH}/db2jcc_license_cu.jar`
- `${DB2UNIVERSAL_JDBC_DRIVER_PATH}/db2jcc_license_cisuz.jar`

12. Click **OK**.

## Create the Data Sources

Four data sources must be created:

- ADMINSERVERDS
- ADMINSERVERRESOURCEDS
- ADMINSERVERSEARCHDS
- ADMINSERVERREADONLYDS.

A readonly database user should be used for ADMINSERVERRESOURCEDS, ADMINSERVERSEARCHDS and ADMINSERVERREADONLYDS. Repeat the following steps for each data source, replacing **<DATASOURCE\_NAME>** with the specific data source being configured.

1. Select **Resources>JDBC>Data sources**.
2. Click **New**.
3. For the **data source name**, enter **<DATASOURCE\_NAME>**.
4. For the **JNDI name**, enter **<DATASOURCE\_NAME>**.
5. Click **Next**.
6. Select the JDBC provider created in the last step.
7. Click **Next**.
8. Enter the database connection information.
  - For Oracle, enter the database information in the following format:  
`jdbc:oracle:thin:@hostname:port:SID`
  - For DB2, enter the **database name**, **hostname** and **port**.
9. Uncheck the checkbox for **Use this data source in container managed persistence**.
10. Click **Next**.
11. On the **Setup security aliases** screen, click **Next**.
12. Click **Finish**.
13. Select **<DATASOURCE\_NAME>** from the list of data sources that appears.
14. Select **Custom Properties**.
15. Click **New** to create new variables for each property listed below.
  - For Oracle:

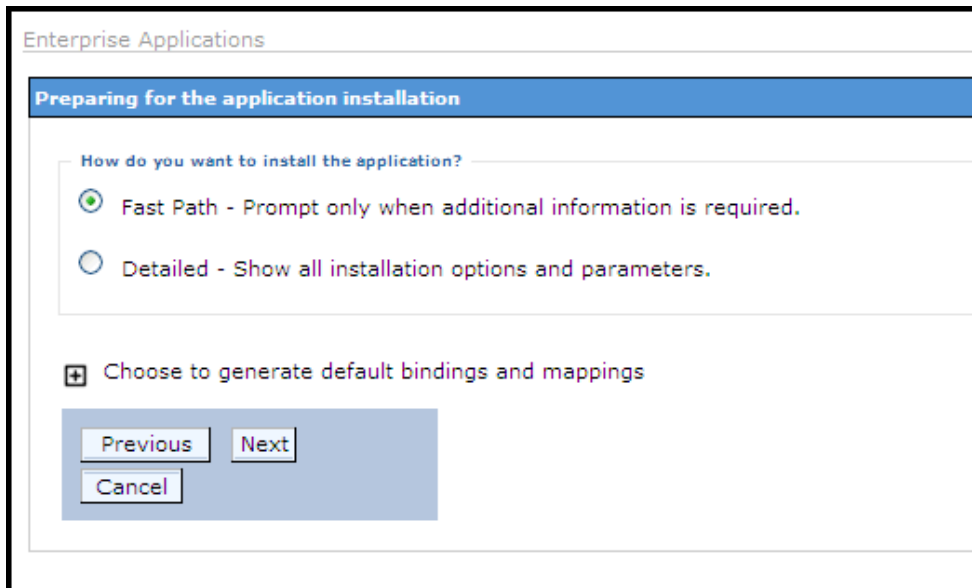
- Name: **user**  
Value: database user name
- Name: **password**  
Value: database password
- For DB2:
  - Name: **user**  
Value: database user name
  - Name: **password**  
Value: database password
  - Name: **currentSchema**  
Value: schema name (only needed for readonly data source.)

16. In the Messages area at the top of the screen, click the link for **Save to the master configuration**.

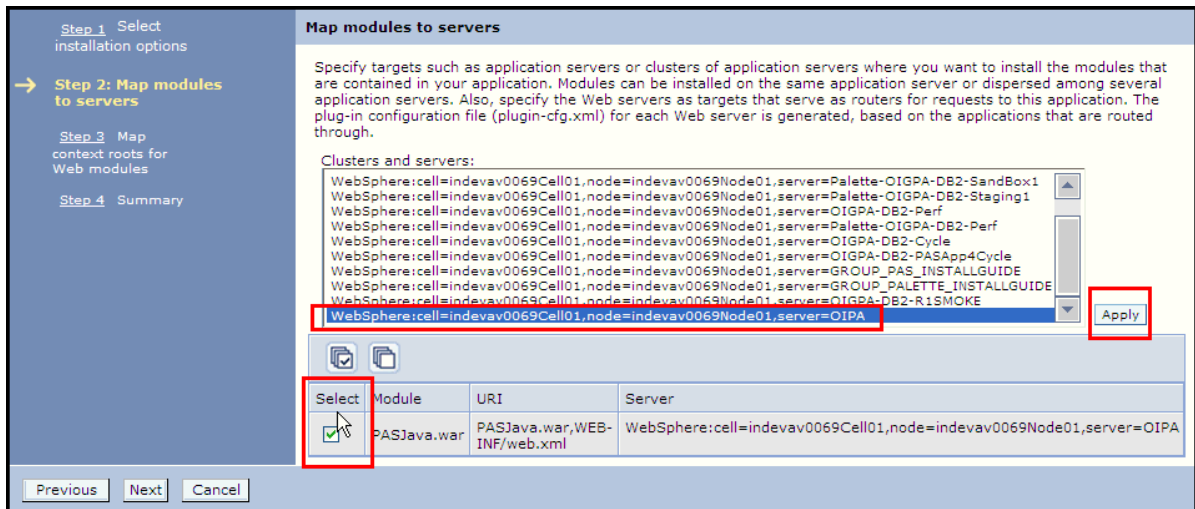
17. Once complete, return to the **Datasources** screen and use the **Test Connection** button on the main data source list to confirm that the settings were successful for each data source.

## Deploy the OIPA Application

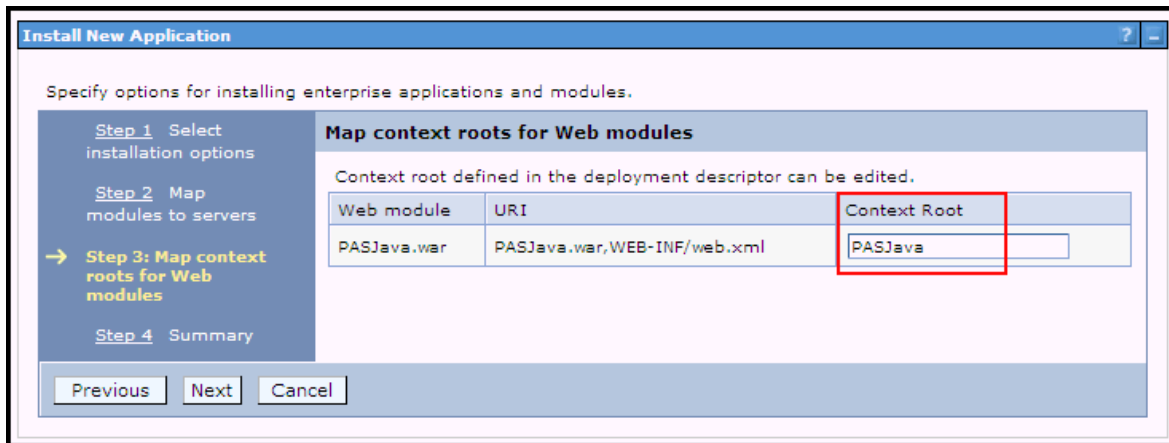
1. Select **Applications>New Application**.
2. Select **New Enterprise Application**.
3. Use the **Local file system** or **Remote file system** browsing feature to locate the **PASJava-websphere.war** file and rename to PASJava.war.
4. Click **Next**.
5. Confirm that **Fast Path** is selected and click **Next**.



6. On the **Select installation options** screen, click **Next**.
7. On the Map modules to servers screen:
  - Select the server from the scrolling list.
  - Check the box for PASJava.war and click Apply.
  - Click Next.



8. On the **Map resource references to resources** screen, enter proper datasources and click **Next**
9. On the **Map virtual hosts for Web modules** screen, check the box for PASJava.war and click **Next**.
10. On the **Map context roots for Web modules** screen, enter **PASJava** for the Context Root and click **Next**.



11. On the **Metadata for modules** screen, select checkbox of the metadata-complete attribute and click on **Next**



Cell=bal170026Cell01, Profile=Dmgr01

Install New Application

Specify options for installing enterprise applications and modules.

[Step 1](#) Select installation options  
[Step 2](#) Map modules to servers  
[Step 3](#) Map resource references to resources  
[Step 4](#) Map virtual hosts for Web modules  
[Step 5](#) Map context roots for Web modules  
**→ [Step 6: Metadata for modules](#)**  
[Step 7](#) Summary

**Metadata for modules**

The metadata-complete attribute defines whether the deployment descriptor for this module is complete. Set the metadata-complete attribute to "true" to merge and persist annotation-based metadata with existing XML-based deployment descriptor metadata to avoid scanning of annotation-based metadata each time the module is read. If the attribute remains "false", then the annotation-based metadata is scanned each time the module is read and can impact performance.

Module	URI	metadata-complete attribute
PASJava-websphere.war	PASJava-websphere.war,WEB-INF/web.xml	<input checked="" type="checkbox"/>

12. Confirm the settings on the Summary screen and click Finish.

Specify options for installing enterprise applications and modules.

[Step 1](#) Select installation options

[Step 2](#) Map modules to servers

[Step 3](#) Map resource references to resources

[Step 4](#) Map virtual hosts for Web modules

[Step 5](#) Map context roots for Web modules

[Step 6](#) Metadata for modules

→ **Step 7: Summary**

### Summary

Summary of installation options

Options	Values
Precompile JavaServer Pages files	No
Directory to install application	
Distribute application	Yes
Use Binary Configuration	No
Deploy enterprise beans	No
Application name	PASJava-websphere_war1
Application edition	
Edition description	
Create MBeans for resources	Yes
Override class reloading settings for Web and EJB modules	No
Reload interval in seconds	
Deploy Web services	No
Validate Input off/warn/fail	warn
Process embedded configuration	No
File Permission	.*\,dll=755#.*\,so=755#.*\,a=755#.*\,sl=755
Application Build ID	Unknown
Allow dispatching includes to remote resources	No
Allow servicing includes from remote resources	No
Business level application name	
Asynchronous Request Dispatch Type	Disabled
Allow EJB reference targets to resolve automatically	No
Deploy client modules	No
Client deployment mode	Isolated
Validate schema	No
Cell/Node/Server	<a href="#">Click here</a>

Previous
Finish
Cancel

13. The system lists output from the installation, with the final status at the end. Look for “Application PASJava\_war installed successfully.”

**Installing...**

If there are enterprise beans in the application, the EJB deployment process can take several minutes. Do not save the configuration until the process completes.

Check the SystemOut.log on the deployment manager or server where the application is deployed for specific information about the EJB deployment process as it occurs.

• • •

Application PASJava\_war installed successfully.

To start the application, first save changes to the master configuration.

Changes have been made to your local configuration. You can:

- Save directly to the master configuration.
- [review](#) changes before saving or discarding.

14. Click the link to **Save** directly to the master configuration.

## Create a Shared Library for OIPA

1. Select **Environment > Shared Libraries**.
2. Select the OIPA application server from the selection box.
3. Click **New**.
4. For the **Name** field, enter **SharedLibs**.
5. For the **Classpath** field, enter the full paths to the following jar files (using the directory that was created in steps 4 and 5 in the OIPA Setup section):
  - antlr-3.4.jar
  - aspectjrt-1.6.11.jar
  - aspectjweaver-1.6.11.jar
  - commons-collections-3.2.1.jar
  - commons-logging-1.1.1.jar
  - log4j-1.2.16.jar
  - spring-instrument-3.1.0.RELEASE.jar
  - coherence.jar
  - oraclepki.jar
  - osdt\_cert.jar
  - osdt\_core.jar
6. For the Native Library Path field, enter the full path for the following jar file:
  - el-api-2.2.jar
7. Click **OK**.
8. Save the configuration changes.
9. Select **Applications>WebSphere enterprise applications**.
10. Click on the OIPA application.
11. Under the References heading, click the **Shared library references** link.
12. Check the **PASJava.war** module and click the **Reference shared libraries** button.
13. In the Available box, click on **SharedLibs** and then click the **>>** button. This will move **SharedLibs** to the **Selected** box.
14. Click **OK**.
15. Click **OK**.
16. Save the configuration changes.

## Configure the OIPA Application

1. Select **Applications>Application Types>WebSphere enterprise application**.
2. Select the **PASJava.war** application.
3. Click **Class loading and update detection**.
4. Check the radio button for **Classes loaded with application class loader first (parent last)**
5. Check the radio button for **Single class loader for application**.
6. Click **OK**.
7. Save the configuration.

## Start the OIPA Application

1. Select **Servers>Server Types>WebSphere application servers**.
2. Select the OIPA application.
3. Click **Start**.
4. Look for the message: “<server name> server started successfully.”

## CREATE AND CONFIGURE THE WEB APPLICATION UTILITY

Using a web browser, connect to the Administrative Console using the appropriate server\_name and port. (Ex: `http://server_name:port/admin`)

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**Note:** The files that are used to set up the Web Application Utility are often named PaletteConfig. Any files with the name PaletteConfig are part of the Web Application Utility.

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### Create the Web Application Utility Server

1. Select **Servers>New server**.
2. Select **WebSphere application server** for the server type and click **Next**.
3. Enter **PaletteConfig** for the name of the server.
4. Click **Next**.
5. Select the **default** server template.
6. Click **Next**.
7. Ensure **Generate Unique Ports** is checked.
8. Click **Next**.
9. Confirm the server settings and click **Finish**.

The system displays the **Application servers** screen.

### Configure the Web Application Utility Server

#### JVM Settings

1. Select the PaletteConfig server.
2. Expand **Java and Process Management**.
3. Select **Process Definition**.
4. Select **Java Virtual Machine**.
5. In the **Classpath** text box, enter the location of the Web Application Utility property files.
6. Example: `/opt/oracle/paletteconfig/conf/` or `C:\oracle\paletteconfig\conf\`

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**Note:** Be sure to include the trailing slash (/ or \) character.

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7. Set **Initial Heap Size** to **256**.
8. Set **Maximum Heap Size** to **512**.

9. Click **OK**.

## Configure the Listening Port

1. Select **Servers>Server Types>WebSphere application servers**.
2. Select the PaletteConfig server.
3. In the **Communications** section, select **Ports**.
4. Note, or change if needed, the port listed for **WC\_defaulthost**.
5. Select **Finish**.

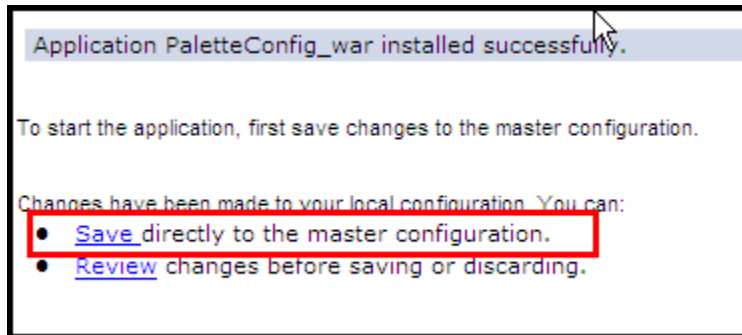
## Configure the Virtual Host

1. Select **Environment>Virtual Hosts**.
2. Click **default\_host**.
3. Click **Host Aliases**.
4. Click **New**.
5. Enter the port selected for **WC\_defaulthost** in the previous step.
6. Click **OK**.

## Deploy the Web Application Utility

1. Select **Applications>New Application**.
2. Select **New Enterprise Application**.
3. Use the Local file system and Remote file system browsing feature to locate and select the PaletteConfig-wasw1.war and rename to PaletteConfig.war file.
4. Click **Next**.
5. Confirm that **Fast Path** is selected, and click **Next**.
6. On the **Select installation options** screen, click **Next** to accept the default options.
7. On the **Map modules to servers** screen:
  - Select the server from the scrolling list.
  - Check the box for PaletteConfig.war and click **Apply**
  - Click **Next**.
8. On the **Map resource references to resources** screen, click next.
9. On the **Map virtual hosts for Web modules** screen, check the box for PaletteConfig.war and click **Next**.
10. On the **Map context roots for Web modules** screen, enter **PaletteConfig** for the Context Root and click **Next**.

11. **On the Metadata for modules screen**, select checkbox of the metadata-complete attribute and click **Next**
12. Confirm the settings on the Summary screen and Click Finish
13. The system lists output from the installation, with the final status at the end. Look for “Application PaletteConfig.war installed successfully.”
14. Click the link to **Save** directly to the master configuration.



## Create a Shared Library for Web Application Utility

1. Select **Environment>Shared Libraries**.
2. Select the Web Application Utility application server from the selection box.
3. Click **New**.
4. For the **Name** field, enter **SharedLibs**.
5. For the **Classpath** field, enter the full paths to the database driver jar files (using the directory that was created in the **Database Drivers** section on page 5). Be sure to supply the appropriate drivers for the database type you are using.
  - AIX or Linux example for Oracle:  
/opt/oracle/db\_drivers/ojdbc-11.2.0.2.jar
  - Windows example for Oracle:  
C:\oracle\db\_drivers\ojdbc-11.2.0.2.jar
6. Click **OK**.
7. Save the configuration changes.
8. Select **Applications>WebSphere enterprise applications**.
9. Click on the Web Application Utility application.
10. Under the **References** heading, click the **Shared library references** link.
11. Check the **PaletteConfig.war** module and click the **Reference shared libraries** button.

12. In the **Available** box, click on **SharedLibs** and then click the **>>** button. This will move SharedLibs to the **Selected** box.
13. Click **OK**.
14. Click **OK**.
15. Save the configuration changes.

## Configure the Web Application Utility

1. If not already on this screen, select **Applications>Application Types>WebSphere enterprise applications**.
2. Select the PaletteConfig application.
3. Click **Class loading and update detection**.
4. Check the radio button for **Classes loaded with application class loader first (parent last)**.
5. Check the radio button for **Single class loader for application**.
6. Click **OK**.

## Start the Web Application Utility

1. Select **Servers>Application Types>WebSphere application servers**.
2. Select the PaletteConfig application.
3. Click **Start**.
4. Look for the message: “<server name> server started successfully.”



## TEST THE DEPLOYMENTS

The initial test of the deployment is to confirm that the application presents a login screen when the application URL is opened. Final testing of the OIPA deployment must wait until after the Web Application Utility is configured and initial users have been set up.

### OIPA Deployment

1. Open a new Internet Explorer window.
2. Navigate to <http://hostname:port/PASJava/>.

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**Note:** If you change the context name, use that name in the URL instead of PASJava.

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3. Confirm that the OIPA login screen appears.

### Web Application Utility Deployment

1. Open a new Internet Explorer window.
2. Navigate to <http://hostname:port/PaletteConfig/>.

---

**Note:** If you change the context name, use that name in the URL instead of PaletteConfig.

---

3. Confirm that the Web Application Utility set-up screen appears.

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**Important:** When configuring the Rules Palette environment use the host name and port number of the PaletteConfig server. The Web Application Utility must always be running in order for users to access the Rules Palette.

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