

Oracle Insurance

**Data Capture Installation
Guide**

Release 5.1

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Oracle Insurance Data Capture Installation Guide

Release 5.1

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PREFACE

Welcome to the *Oracle Insurance Data Capture Installation Guide*. Oracle Insurance Data Capture (OIDC) is a Web-based software application that streamlines data captured by insurers by allowing insurers to create and configure questions and rules through an intelligent front-end data capture web application.

This guide is for new installations and lists requirements and instructions for installing OIDC and associated databases. If you are upgrading from a previous installation, please use the upgrade information. If you have questions or experience an issue with the installation, please contact My Oracle Support for assistance.

Audience

This guide is intended for system administrators, installers, database administrators and others tasked with installing and configuring the Oracle Insurance Data Capture (OIDC) system and associated databases.

Oracle Software Delivery Cloud

Prior to installation, please make sure the source machine(s) where Oracle Insurance Data Capture will be loaded has an unzip utility. An unzip utility for most platforms is available on the Oracle Software Delivery Cloud download page.

Documentation from Oracle Software Delivery Cloud is in PDF format. Prior to installation, please make sure the source machine(s) where Oracle Insurance Data Capture documentation will be loaded has a PDF reader.

Files are downloaded with part numbers as file names. Please make note of the part numbers you have downloaded and the corresponding file name. You may be asked to provide the part numbers or the filename if you contact My Oracle Support.

Related Documents

For more information, refer to the following Oracle resources:

- The Oracle Insurance web site:
<http://www.oracle.com/industries/insurance/index.html>
- If you need assistance with an Oracle Insurance Data Capture, please log a Service Request using My Oracle Support at:
<https://support.oracle.com/>

CHECKLIST OF REQUIREMENTS AND PROCEDURES

The following checklist can be used to help in a **NEW** installation of OIDC.

- ❑ **Oracle database requirements**
 - ❑ Proper Network Connection to Database Server
 - ❑ Oracle Database 11g Release 2 or the Oracle 11g Release 2 XE. The suggested Table Space storage requirement is 1 Gig
 - ❑ Oracle Database Utilities 11g Release 2
- ❑ **PCPalette and DCWorksite requirements**
 - ❑ WebLogic 11g release 10.3.6 non-root user
 - ❑ Fusion Middleware 11.1.1.6
 - ❑ ADF 11.1.2.2
 - ❑ JSF 2.0 (Coincides with Java EE 6)
 - ❑ Java Runtime 1.6 update 32
- ❑ **IBSS Release 4.6.2 installed. Version 4.6.2 is found in Oracle Insurance Data Capture download Release 05.01.00. DCWORKSITE ONLY**
- ❑ **SQL Server database requirements**
 - ❑ Proper Network Connection to Database Server
 - ❑ MS SQL Server 2008 R2 or SQL Server Express 2008 R2 with SQL Server Management Studio
- ❑ **DCPalette requirements**
 - ❑ Microsoft Windows Server 2008, Standard -64
 - ❑ MSXML 4 or above
 - ❑ Microsoft IIS 7.0 or 7.5
 - ❑ Microsoft .NET Framework version 4.0

Installation Procedures

- ❑ **Create Oracle Database Schemas** **Chapter 2**
- ❑ **Restore SQL Server Database** **Chapter 3**
- ❑ **Deploying Applications to WebLogic** **Chapter 5**
 - ❑ Create a WebLogic OIDC domain
 - ❑ Deploy DCWorksite
 - ❑ Deploy PCPalette
- ❑ **Configuring WebLogic** **Chapter 6**
 - ❑ DCWorksite Groups and Users
 - ❑ PCPalette Groups and Users
- ❑ **Install DCPalette** **Chapter 7**
 - ❑ Update Application Pool
 - ❑ Update Virtual Directory
- ❑ **Launch URLs** **Chapter 8**

MICROSOFT SQL SERVER

If you are utilizing a Microsoft SQL Server, it should not be installed on the same machine where the OIDC web applications reside. The SQL Server should reside on a separate host from the OIDC web front end with a properly configured network connection from the web server front end to SQL Server. Testing can be performed by using the Data Sources application in Administrative Tools to make a default connection to the database server.

NOTE: *All these settings are available during installation of SQL Server or by using SQL Server Enterprise Manager, and right clicking the server and selecting properties.*

If any of these settings conflict with existing application's databases residing on the SQL Server, then a separate instance is required.

Depending on the load expected, the databases can be placed on a separate SQL Server machines that can either be independent or shared as long as the following conditions are met.

- **Server Authentication:** Should be set to SQL Server and Windows Authentication mode.
- **Collation and Sort Order:** Currently supported is the default SQL Server collation using SQL_Latin1_General_CP1_CI_AS and sort order plus case sensitivity using Latin1_General_BIN as the server collation. Please check with Oracle Insurance for any questions regarding database server sort orders or collations.

NOTE: *For SQL Server, please make sure the SQL Server Client is installed.*

DCPALETTE REQUIREMENTS

The following configuration assumes that the administrator of the server to be generally familiar with managing a Windows 2008 server.

- **A full installation of Microsoft Windows Server 2008 for 64-bit is recommended**
- **Microsoft .NET Framework version 4.0. ASP.NET v4.0 must be enabled.**
- **IIS – Internet Information Services version 7.0 or 7.5**
- **IIS 6 Metabase Compatibility**

Internet Information Services (IIS) 7.0 or 7.5

Oracle Insurance Data Capture (OIDC) is a web based application and requires IIS to be installed before the OIDC installation to facilitate the default web virtual directories creations.

OVERVIEW

OIDC is composed of three components that are typically installed on separate machines:

- PCPalette utilizing an Oracle 11g release 2 database
- DCWorksite utilizing an Oracle 11g release 2 database
- DCPalette utilizing an MS SQL Server 2008 R2 database

Deployment Architecture

In the DEV environment, DCPalette, PCPalette, and DCWorksite can both run on the same Windows Server or you can run the WebLogic container on another supported OS like Linux.

The DEV environment owns the release master data so we should only deploy the runtime components here. DCPalette can be configured for "deployment only" in QA and PROD to avoid direct release publishing from DEV. The QA runtime should be on the same target platform as PROD.

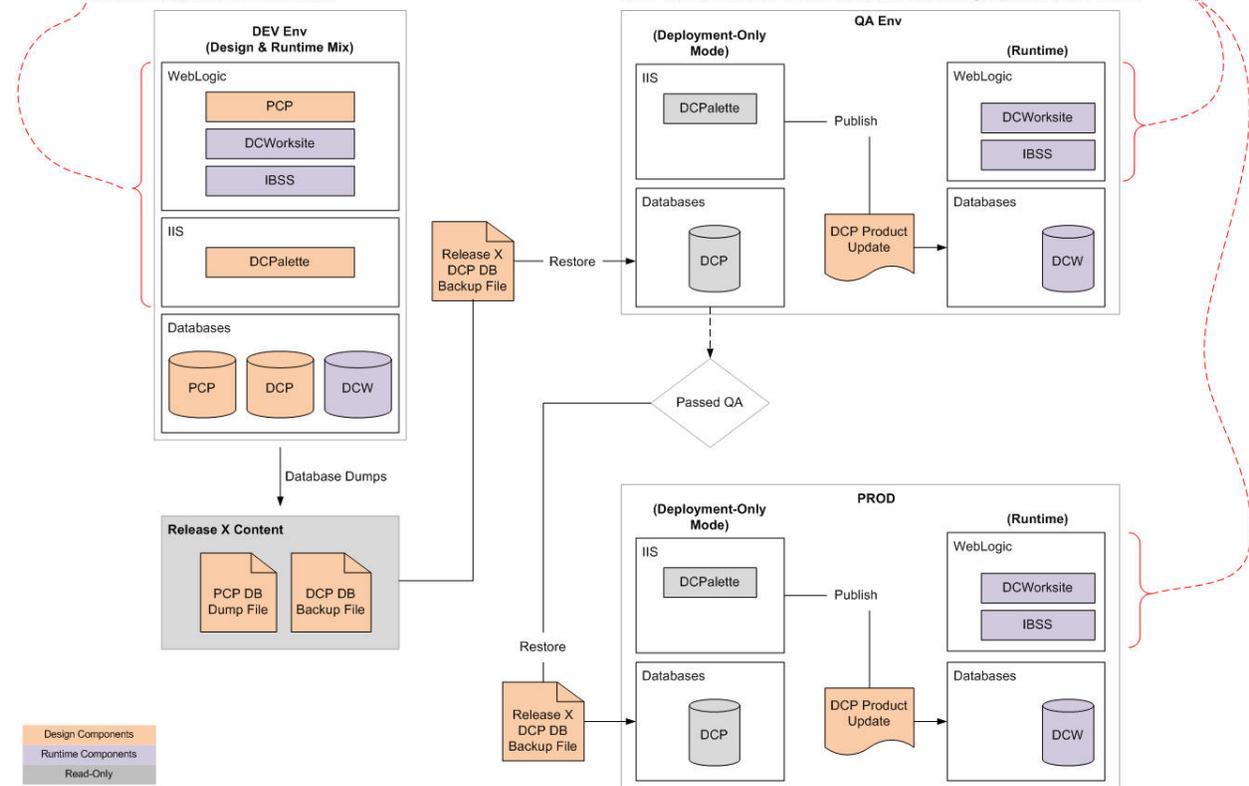


Figure 1 Deployment Architecture

Supported and Tested Applications and OS

For the OIDC 5.1 release:

- The DCPalette application has been tested and supports MS Windows Server 2008 R2 S/P1 64-bit.
- The DCPalette database has been tested and supports MS SQL Server 2008 R/2 on MS Windows Server 2008 64-bit.
- DCWorksite has been tested and supports WebLogic 11gR1 (10.3.6) utilizing MS Windows Server 2008 64-bit.
- The DCWorksite database has been tested and supports Oracle 11g release 2 database utilizing Oracle Linux 5.8.
- PCPalette has been tested and supports WebLogic 11gR1 (10.3.6) utilizing MS Windows Server 2008 R2 64-bit.
- The PCPalette database has been tested and supports Oracle 11g release 2 database utilizing Oracle Linux 5.8.

It is recommended that the databases be on separate machines from the applications due to performance and security issues. DCPalette can be a tenant in a larger machine setup. No known conflicts exist between DCPalette and other applications or required server settings. PCPalette and DCWorksite databases also can be tenants in a larger setup.

DOWNLOAD AND INSTALLATION FILES

The download from eDelivery has eight files:

- 05.01.00-oidc-db.zip – Contains the Database folder which holds the database installation files
- 05.01.00-oidc-palette.zip – Contains the DCPalette folder which holds the installation files for the DCPalette application
- 05.01.00-oidc-worksite.zip – Contains the DCWorksite folder which holds the .EAR file for the DCWorksite application
- 05.01.00-oidc-pcp.zip – Contains the PCPalette folder which holds the .EAR file for the PCPalette application
- 05.01.00-oidc-doc.zip – Contains the Documentation folder which holds the installation, integration, user guides, and release notes for the applications
- 05.01.00-oidc-integration.zip – Contains the DCIntegration folder which holds the IBSS 4.6.2 installation files and OIDC callout activity .JAR libraries that can be used to build integration adaptors
- 05.01.00-oidc-samples.zip – Contains the DCSampleContent folder which holds PCPalette and DCPalette pre-filled databases, a .JAR file for pre-built sample integration adaptors, and an xml IBSS registry file for the pre-built adaptors. These are designed to demonstrate OIDC features.
- 05.01.00-oidc-oipa-samples.zip – Contains the OIPA_SampleContent folder which holds PCPalette and DCPalette pre-filled databases, a .JAR file for pre-built sample integration adaptors, an xml IBSS registry file for the pre-built adaptors, and a user guide for deploying this sample integration content. These are designed to demonstrate integration between OIDC and OIPA. An OIPA installation must also be available.

The download files you receive are zip files. Unzip the files in a location you can easily access. You may want to distribute the files:

- The PCPalette database file can be found in the Database→OracleDB→PCPalette->NewInstall file. There is one script file that should be placed on the machine where the Oracle 11g resides.
- The DCWorksite database file can be found in the Database→OracleDB→DCWorksite →NewInstall file. There is one script file that should be placed on the machine where the Oracle 11g resides.
- The DCPalette database file can be found in the Database→SQLServerDB→DCPalette->NewInstall file. There is file that should be place on the machine where the MS SQL Server 2008 R2 resides.
- PCPalette can be found in the PCPalette folder and consists of a single .ear file that needs to be deployed on the machine where WebLogic resides.
- DCWorksite can be found in the DCWorksite folder and consists of a single .ear file that needs to be deployed on the machine where WebLogic resides.
- DCPalette can be found in the DCPalette folder. The entire folder should be placed on the Windows machine where the application will be installed.
- Place the documentation file on a machine where you can easily access it.

If desired, the Sample Content files can setup as a pre-initialized deployment. This includes sample PCPalette, DCWorksite and DCPalette pre-populated database files. You can use these instead of the blank files found in the Oracle DB and SQLServerDB folders.

- DCSampleContent can be found in the DCSampleContent folder and consists of a DCPalette SQL Server backup file, a PCPalette Oracle .dmp file, an ActivitiesIMPL .jar file, and an OIDC-sample lib-regs.xml file.
- OIPA_SampleContent can be found in the OIPA_SampleContent folder. There are two files inside, a database file and the OIPA Activity SoftLibraries.

When deploying patch releases, update files are available for the DCPalette database and the PCPalette database. These files should be used for updating existing databases only.

IBSS

IBSS is required for OIDC. Please see the IBSS for OIDC Installation Guide for instructions on deploying the IBSS.EAR file.

THE ORACLE DATABASE SCHEMAS

For the OI DC 5.1 release, the PCPalette and DCWorksite databases have been tested and support an Oracle 11g release 2 database utilizing Oracle Linux 5.8.

The following will be divided into three sections:

- New installations where there are no OI DC schemas present.
- Utilizing Sample Content
- Updating the two existing OI DC schemas.

IMPORTANT: *It is strongly recommended that any database modification be performed by a qualified database administrator (DBA). The database setup procedures and tasks require the skill set of a database administrator. If you are not a database administrator, please stop. Improper setup may result in unwelcome changes to the database. Please consult with a qualified database administrator before proceeding.*

The database installer should have administrator rights on the machine where the database schemas will be created.

NEW SCHEMA INSTALLATION

Create the databases in accordance with your company's standards, certain information is required. Your entries may differ from the examples given.

Do not run these scripts on an existing database.

Create Schema Owners (Database Users)

A new PCPalette and DCWorksite installation begins with creating an Oracle database schema for each application.

You will need to create schema owners (database users) for both the PCPalette and DCWorksite schemas.

1. Create the Oracle Database users:
 - a. DCWorksite for example: DC_51_WORKSITE
 - b. PCPalette for example: PC_10_PALETTE
2. Grant the necessary privileges and quotas to the new users just created.

Create DCWorksite Tables

1. From the installation download, select the Database folder. There will be three files located inside, one for SQL Server, one for Oracle and one for Sample Content. Select the OracleDB folder. Locate DCWorksite->NewInstall folder. Locate the DC_51_WORKSITE_NEW.sql file.
2. The script must be run under the schema owner. Make sure the current_schema name is updated (first line of the script) to match the schema owner name before applying the script. Edit the DC_51_WORKSITE_NEW.sql file if necessary.
3. Log in as the DCWorksite schema owner.
4. Apply the script to create the database tables.

Create PCPalette Tables

1. From the installation download, select the Database folder. There will be three files located inside, one for SQL Server, one for Oracle and one for Sample Content. Select the OracleDB folder. Locate PCPalette->NewInstall folder. Locate the PC_10_PALETTE_NEW.sql file.
2. The script must be run under the schema owner. Make sure the current_schema name is updated (first line of the script) to match the schema owner name before applying the script. Edit the DC_51_WORKSITE_NEW.sql file if necessary.
3. Log in as the PCPalette schema owner.
4. Apply the script to create the database tables.

UPDATING EXISTING SCHEMAS

If you are installing a patch to release 5.1, you may need to run update scripts to bring the schemas up to the current version. If you do not have a previous installation of OI DC, you will not be required to run updates.

If the Update script folder is empty, no updates are needed.

You will need to know the schema names and tablespace names.

Updating DCWorksite

1. From the installation download, select the Database folder. There will be three files located inside, one for SQL Server, one for Oracle and one for Sample Content. Select the OracleDB folder. Locate DCWorksite->Update folder. Locate the update scripts. Make note that the scripts are named in the order on which they need to be run.
2. Edit the each script.
3. Modify the tablespace and user to match the tablespace and user you have chosen.
4. Log in as the DCWorksite schema owner.

5. Apply the script to create the database tables. Scripts must be run in the correct order. The number in the file name indicates the order in which the script should be run. For example, DCW_01_UniqueName.sql should be the first script to be applied.
6. The DCWorksite database is up to date.

Updating PCPalette

1. From the installation download, select the Database folder. There will be three files located inside, one for SQL Server, one for Oracle and one for Sample Content. Select the OracleDB folder. Locate PCPalette->Update folder. Locate the update scripts. Make note that the scripts are named in the order on which they need to be run.
2. Edit the each script.
3. Modify the tablespace and user to match the tablespace and user you have chosen.
4. Log in as the PCPalette schema owner.
5. Apply the script to create the database tables. Scripts must be run in the correct order. The number in the file name indicates the order in which the script should be run. For example, PCP_01_UniqueDomainCustomID.sql should be the first script to be applied.
6. The PCPalette database is up to date.

Take Note:

The DCPalette Installation allows you to enter the database connection information. Make note of:

1. The database server name or IP address for the PCPalette.
2. User name
3. Password

THE SQL SERVER DATABASE

For the OIDC 5.1 release, the DCPalette database has been tested and supports MS SQL Server 2008 SR/2 utilizing Windows 2008 64-bit.

The following will be divided into three sections:

- Fresh installations where there is no OIDC database present.
- Utilizing Sample Content
- Updating the existing OIDC schema.

IMPORTANT: *It is strongly recommended that any database modification be performed by a qualified database administrator (DBA). The database setup procedures and tasks require the skill set of a database administrator. If you are not a database administrator, please stop. Improper setup may result in unwelcome changes to the database. Please consult with a qualified database administrator before proceeding.*

The database installer should have administrator rights on the machine where the database will be restored. SQL Server Management Studio must be installed.

NEW INSTALLATION

Create the database in accordance with your company's standards, certain information is required. Your entries may differ from the examples given.

Create DCPalette Database

1. From the installation download, select the Database folder. There will be three files located inside, one for SQL Server, one for Oracle and one for Sample Content. Select the SQL Server folder. Locate DCPalette->NewInstall folder. Locate the DC_51_PALETTE_NEW.bak file.
2. Park the file in a location where the SQL Server has access. Typically it should be on the same machine where the SQL Server instance resides.
3. Use the Microsoft SQL Server Management Studio to restore the backup file. It is strongly suggested that the database name be changed to something that defines the database more accurately in your environment.

UPDATING EXISTING DATABASE

If you have a database from a previous release starting at 5.1, you may need to run update scripts on the database. If you do not have a previous installation of OIDC, you will not be required to run updates.

If the Update script folder is empty, no updates are needed.

Updating DCPalette:

1. From the installation download, select the Database folder. There will be three files located inside, one for SQL Server, one for Oracle and one for Sample Content. Select the OracleDB folder. Locate DCWorksite->Update folder. Locate the update scripts. Make note that the scripts are named in the order on which they need to be run.
2. Apply the script(s) to update the database. Scripts must be run in the correct order. The number in the file name indicates the order in which the script should be run. For example, DCP_01_UniqueName.sql should be the first script to be applied.
3. The DCPalette database is up to date.

Take Note:

The DCPalette Installation allows you to enter the database connection information. Make note of:

1. The database server name or IP address
2. The database name
3. User name
4. Password

UTILIZING SAMPLE CONTENT

Sample Content is a separate set of database backups and integration adaptors consisting of a PC Palette Oracle .dmp file, a DC Palette SQL .bak file, and a .jar file containing the activity adaptors. The sample content is not suitable for re-use in the 'real world', but demonstrates - and provides examples of - the features of Data Capture.

A Sample Content file for the DCWorksite is not included. The contents of DCWorksite are populated by publishing from the DCPalette.

Prior to restoring sample content, you will need to know the new and old schema owner names.

Loading the Sample Content Oracle Database for Product Configuration

1. From the installation download, select the DCSampleContent folder. Locate the PC_10_PALETTE_SAMPLE.dmp file.
2. Park the .DMP file in a location you can access.
3. Grant the proper privileges to the new schema owner to the location where the .DMP file resides.
4. Restore the schemas using the .DMP file. Make sure the REMAP_SCHEMA attribute in the impdp statement reflects the actual old and new schema owner names. The dmp file name is the old schema name.

Loading the Sample Content MSSQL Database for DCPalette

1. From the installation download, select the DCSampleContent folder. Locate the DC_51_PALETTE_SAMPLE.bak file.
2. Park the .bak file in a location where the SQL Server has access. Typically it should be on the same machine where the SQL Server instance resides.
3. Restore the backup file. It is strongly suggested that the database name be changed to something that defines the database more accurately in your environment.

Deploying the Sample Content Activity Adaptors

1. The IBSS should be deployed prior to loading the sample adaptors. Please see the IBSS for OIDC Installation Guide for instructions on deploying the IBSS.EAR file.
2. From the installation download, open the DCSampleContent directory.
3. Locate and copy the ActivitiesImpl-SampleContent.jar file to the WebLogic library: [MW_HOME]\user_projects\domains\[YOUR_DOMAIN]\lib.

For more information, please see the Insbridge IBSS User Guide. Please see <http://www.oracle.com/technetwork/documentation/insurance-097481.html#Insbridge> for documentation.

4. From the OIDC installation download, locate the JAR files, ActivityServiceSDK.jar, IBSoftService.jar, and libIntgUtil.jar, in DCIntegration\OIDC-integration-shared.zip. Extract and copy to the WebLogic library [MW_HOME]\user_projects\domains\YOUR_DOMAIN\lib folder as well.

Where[MW_HOME] is the relative path to the app server installation location

5. The DCSampleContent oidc-sample-lib-regs.xml requires arguments to be configured. Open oidc-sample-lib-regs.xml in Notepad and copy the contents to the Windows clipboard.
6. Navigate to the Insbridge application directory where contents of the IBSS installation have been placed.
7. Open insbridge.net.softraterconfig.xml using Wordpad (it correctly interprets UNIX-style line breaks, so the contents will be easier to read) and paste the contents of the clipboard between the start and end <lib_ref> tags. Save the file and close.

```
- <lib_ref>
- <lib n="PolicySubmitMockImpl" cls="com.oracle.igbu.activity.SubmitPolicyMockImpl" l=""
  d="2012-07-30 02:23:34 AM" s="a" t="2" />
- <lib n="LOVTestSoftData" cls="com.oracle.igbu.activity.ListOfValuesSampleXmlImpl" l=""
  d="2013-04-19 07:57:37 AM" s="a" t="2" />
</lib_ref>
```

Figure 2 Sample

8. Restart the WebLogic server on which your IBSS runs.

DEPLOYING APPLICATIONS TO WEBLOGIC

PCPalette and DCWorksite have been tested and support WebLogic 11g (10.3.6) utilizing a Windows 2008 64 bit OS.

Installation procedure:

- Download and place PCPalette and DCWorksite files in location you can access.
- Create an OIDC domain in WebLogic
- Edit the deployment files
- Deploy PCPalette in WebLogic
- Deploy DCWorksite in WebLogic

During the installation, the installation program requires the installer have administrator rights on the machine where the install is occurring. Please close all open applications before installing.

PCPALETTE AND DCWORKSITE REQUIREMENTS

The following configuration assumes that the administrator of the server is generally familiar with managing WebLogic and the server where WebLogic resides. PCPalette and DCWorksite require:

- ADF Runtime 11.1.2.2
- An OIDC domain in WebLogic
- An Oracle 11g release 2 database – schema name, location and password, for PCPalette and DCWorksite
- In a Windows environment, you will need 7-zip or win-zip to extract the .EAR files.

PCPalette and DCWorksite require an OIDC domain in WebLogic. WebLogic should not be installed as root. Root will not allow for access to the ADF Runtime required by OIDC. If WebLogic has been installed as root, you will need to allow for ADF Runtime access or you can uninstall WebLogic and then reinstall as a non-root user, for example as the OIDC installer.

ADF Requirements

Prior to creating any domains, verify that ADF Runtime 11.1.2.2 is installed. If you need to run ADF Runtime, please have this information ready prior to installing.

NOTE: *If the WebLogic Server option is not available during the ADF install, check that you have a compatible version of WebLogic installed. You may need to upgrade your WebLogic.*

High Level ADF Instructions

1. Verify a complete WebLogic 10.3.6 install.
2. Install the 11.1.1.6 Application Developer Runtime. The Oracle installation guide for installing the 11.1.1.6 Application Developer Runtime is available at:
http://docs.oracle.com/cd/E23943_01/doc.1111/e14827/toc.htm#BEGIN
3. Apply the 11.1.2.2 Application Developer Runtime patches. There are two patches that need to be applied. The My Oracle Support guide for downloading and installing the patches required to bring ADR 11.1.1.6 up to 11.1.2.2 is available at:
https://support.oracle.com/epmos/faces/ui/km/DocumentDisplay.jspx?_afLoop=1590909613788319&id=1328698.1&_afWindowMode=0&_adf.ctrl-state=i2bbzyse6_4

ADF Runtime Download Location

ADF Runtime needs to be installed prior to creating any domain. To achieve the correct ADF level, you must download and install ADF 11.1.1.6 first. You can download ADF Runtime from:
<http://www.oracle.com/technetwork/developer-tools/adf/downloads/index.html>.

The Oracle installation guide for installing the 11.1.1.6 Application Developer Runtime can be found at:
http://docs.oracle.com/cd/E23943_01/doc.1111/e14827/toc.htm#BEGIN

ADF Updates

After the initial installation, there are two updates that need to be applied to bring ADF up to 11.1.2.2. This is the required level for OIDC 5.1. Patches can be found on My Oracle Support.

1. Search for bug #13656274. Download the patch and follow the instructions included with the patch.
2. Search for bug #13656372. Download the patch and follow the instructions included with the patch.

The My Oracle Support guide for downloading and installing the patches required to bring ADR 11.1.1.6 up to 11.1.2.2 can be found at:
https://support.oracle.com/epmos/faces/ui/km/DocumentDisplay.jspx?_afLoop=1590909613788319&id=1328698.1&_afWindowMode=0&_adf.ctrl-state=i2bbzyse6_4

My Oracle Account

The ADF installer may require that an update be run during the install. If you would like to run any updates, please have your *My Oracle* account information ready. You can get an account at:

<https://support.oracle.com/CSP/ui/flash.html>

A Location for JRE/JDK

The installer requires the full path to the location of a Java Runtime Environment (JRE) on your system. If you do not use this location during the ADF install you may have to specify the JRE/JDK location for WebLogic, for example:

```
C:\Oracle\Middleware\jrockit_160_29_D1.2.0-10\jre
or
/root/jrockit-jdk1.6.0_24_D1.1.2-4.0.1/jre
```

Creating the WebLogic Domain

OIDC should have its own domain.

1. Log in as the OIDC Installer.
2. Launch the Domain Creation Wizard for WebLogic.

```
Start→All Programs→Oracle WebLogic→QuickStart
or
cd /home/OIDCINSTALLER/Oracle/Middleware/utils/quickstart/quickstart.sh
```

3. Select Create a new WebLogic domain, click next.

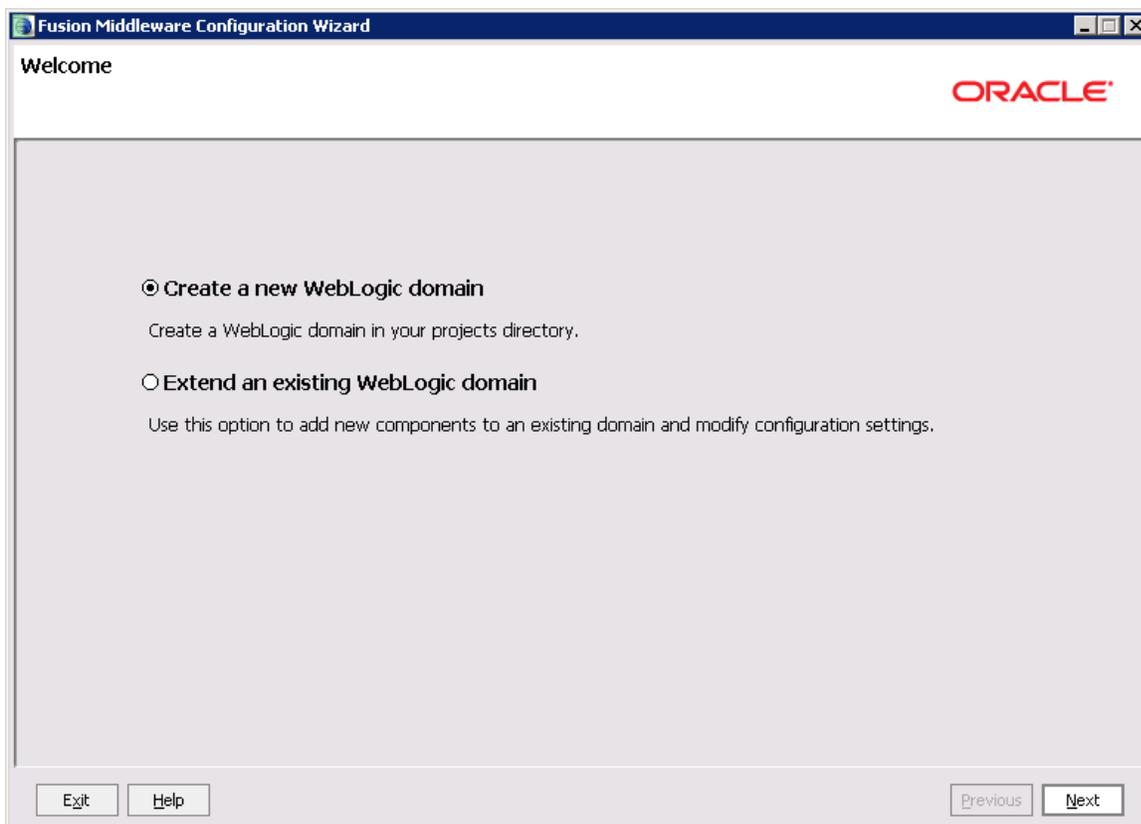


Figure 3 Create a New WebLogic Domain

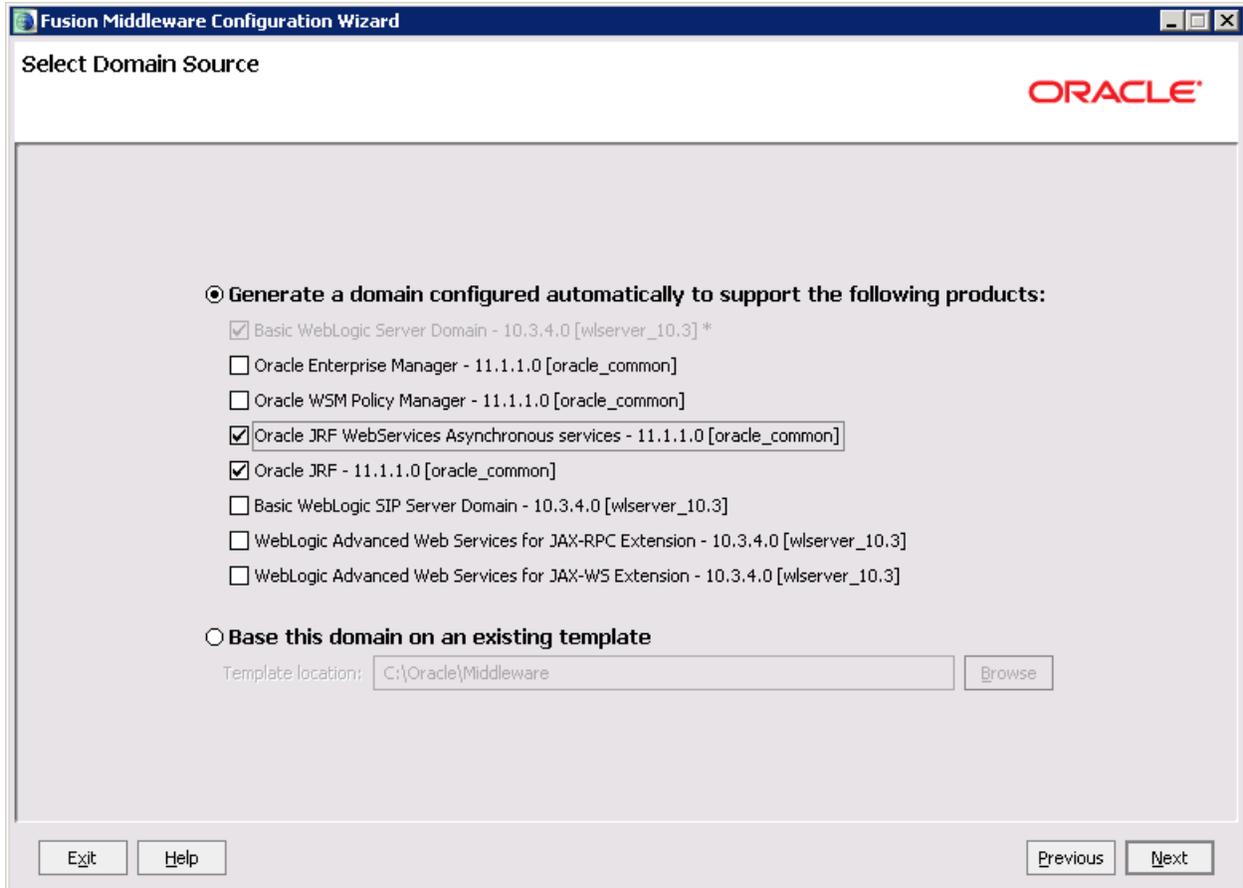


Figure 4 Selecting Oracle JRF

4. Select **Oracle JRF WebServices Asynchronous services - 11.1.1.0 [oracle_common]**,
5. Click next.

NOTE: If you do not have this option, ADF Runtime is not installed. **Stop** the domain creation and verify that ADF Runtime has been installed and that WebLogic can access it.

6. Enter in the domain name: **OIDC**, click next.

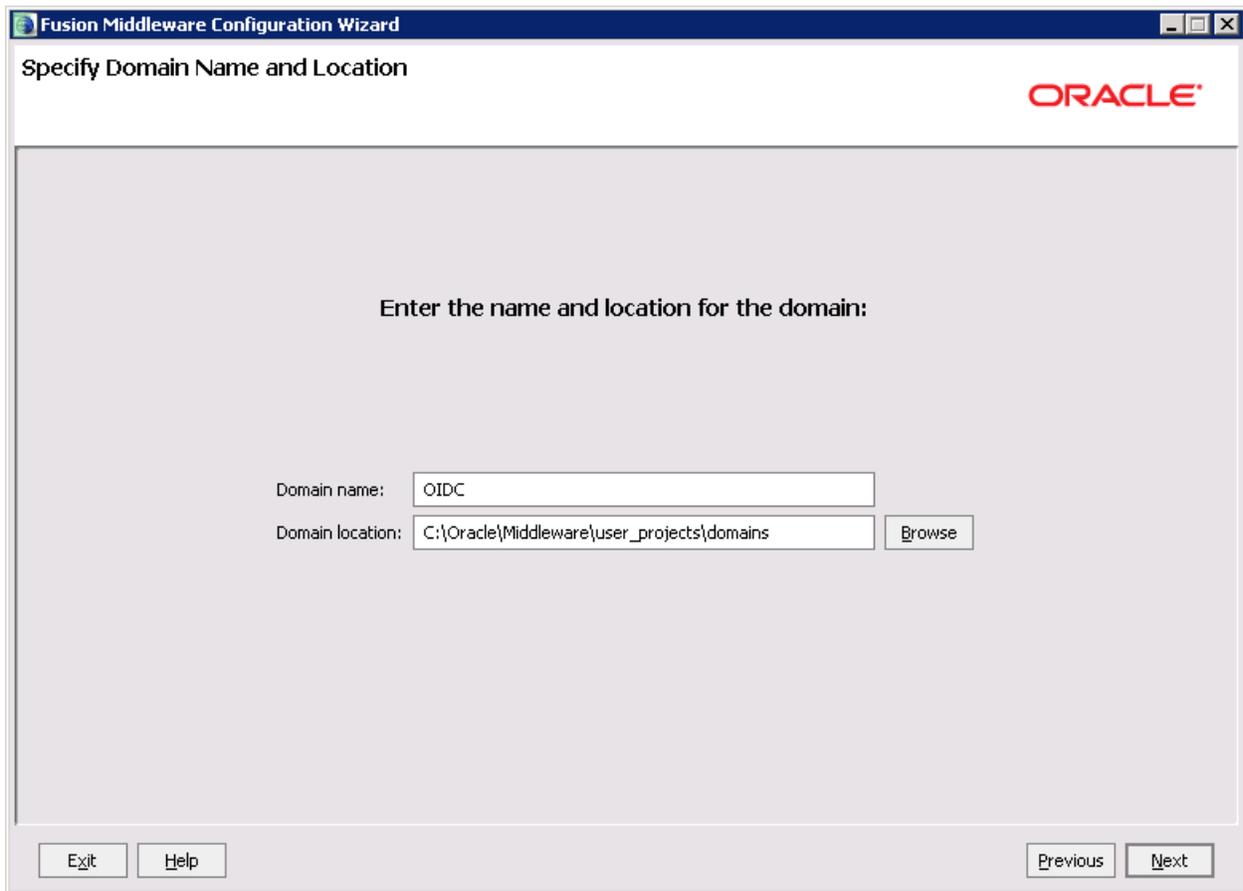


Figure 5 Entering WebLogic Domain Name

7. Enter in the user name password you want to use for the domain, click next.

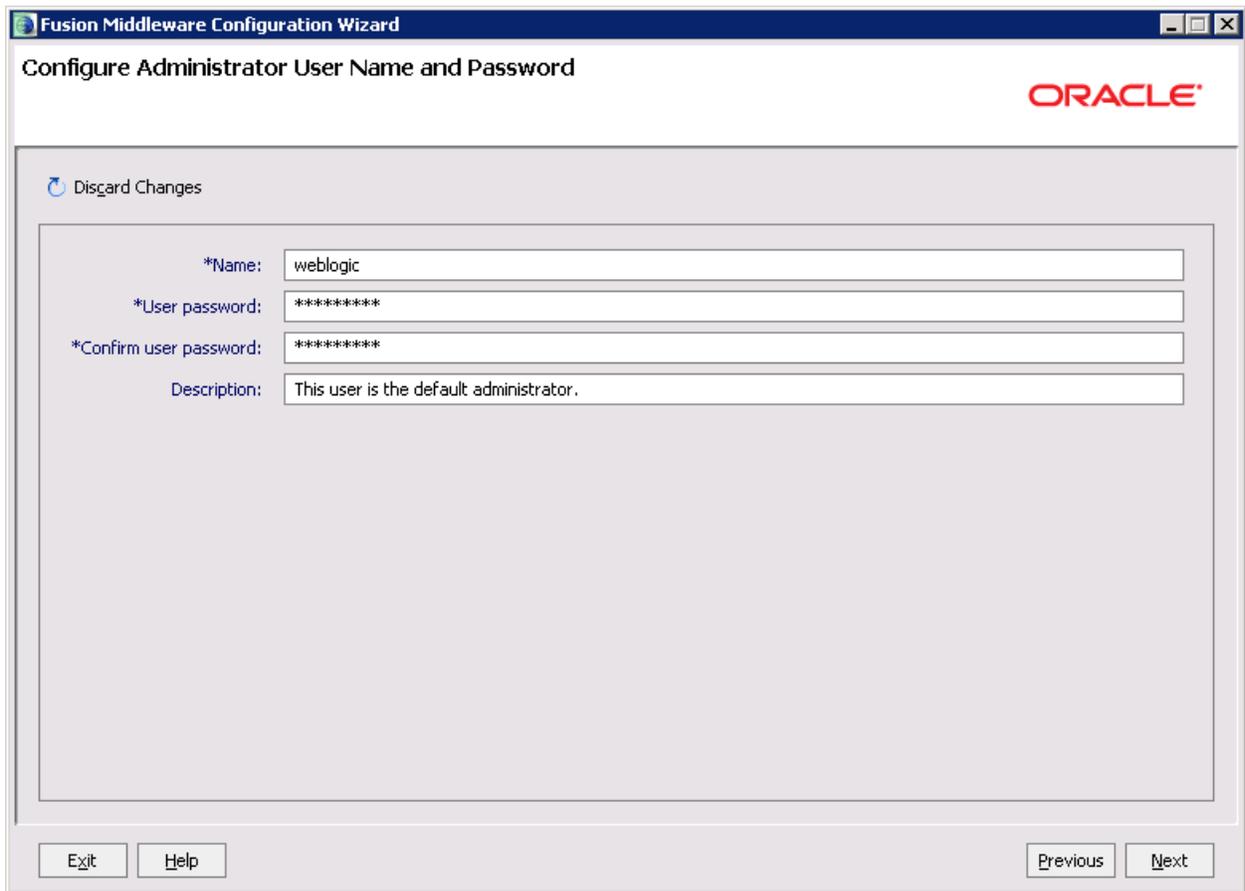


Figure 6 Entering WebLogic Admin Name and Password

8. Select "Development Mode", click next.

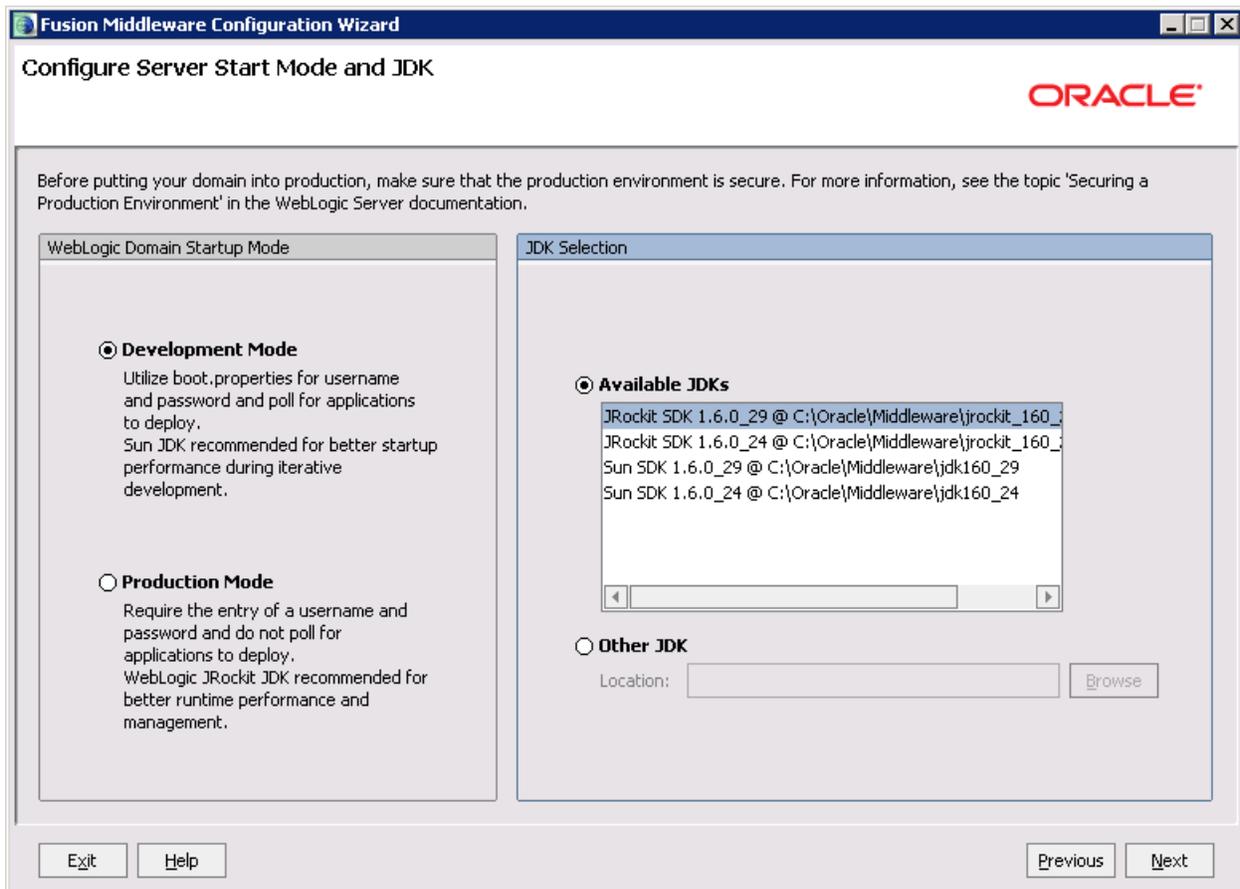


Figure 7 Selecting Development Mode

- 9. It is recommended that OIDC be on a port separate from IBSS. To create a dedicated port for OIDC, select Administration Server and set the port that you want to use. Make note of the port number you choose. The port number will be required for further installation instructions.

If IBSS, PCPalette and DCWorksite are all on separate servers or in separate domains, ports will not be an issue. However, if IBSS and PCPalette or DCWorksite share the same WebLogic domain, you may need to create at least two separate domains.

- 10. Click next.

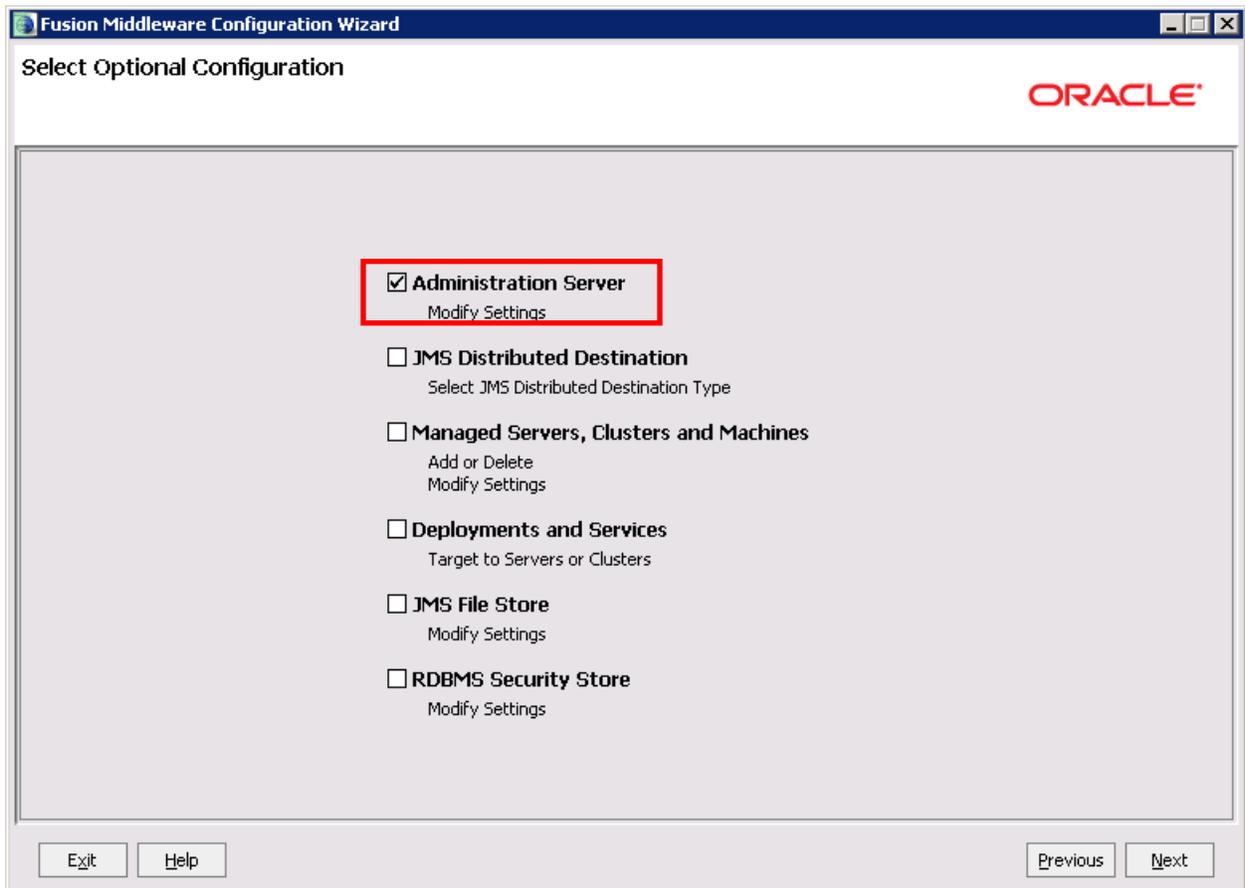
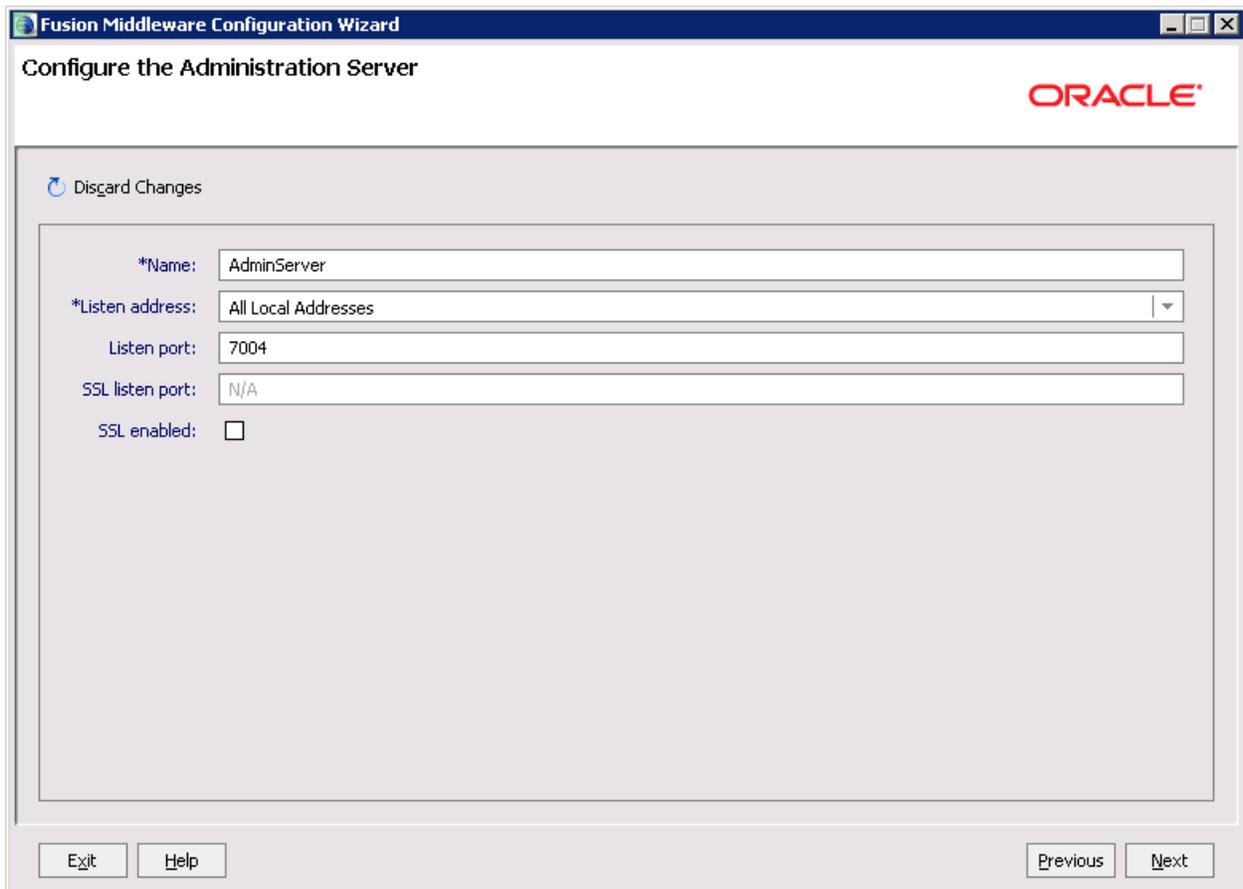


Figure 8 Updating Administration Server Settings

11. Enter in the port number you want to user for OIDC.



The screenshot shows the 'Fusion Middleware Configuration Wizard' window. The title bar reads 'Fusion Middleware Configuration Wizard'. The main window title is 'Configure the Administration Server'. The Oracle logo is in the top right corner. Below the title bar, there is a 'Disgard Changes' button. The main configuration area contains the following fields:

- *Name: AdminServer
- *Listen address: All Local Addresses
- Listen port: 7004
- SSL listen port: N/A
- SSL enabled:

At the bottom of the window, there are four buttons: 'Exit', 'Help', 'Previous', and 'Next'.

Figure 9 Hard Coding a Port

12. Click Next.

13. Verify your selections and click create.

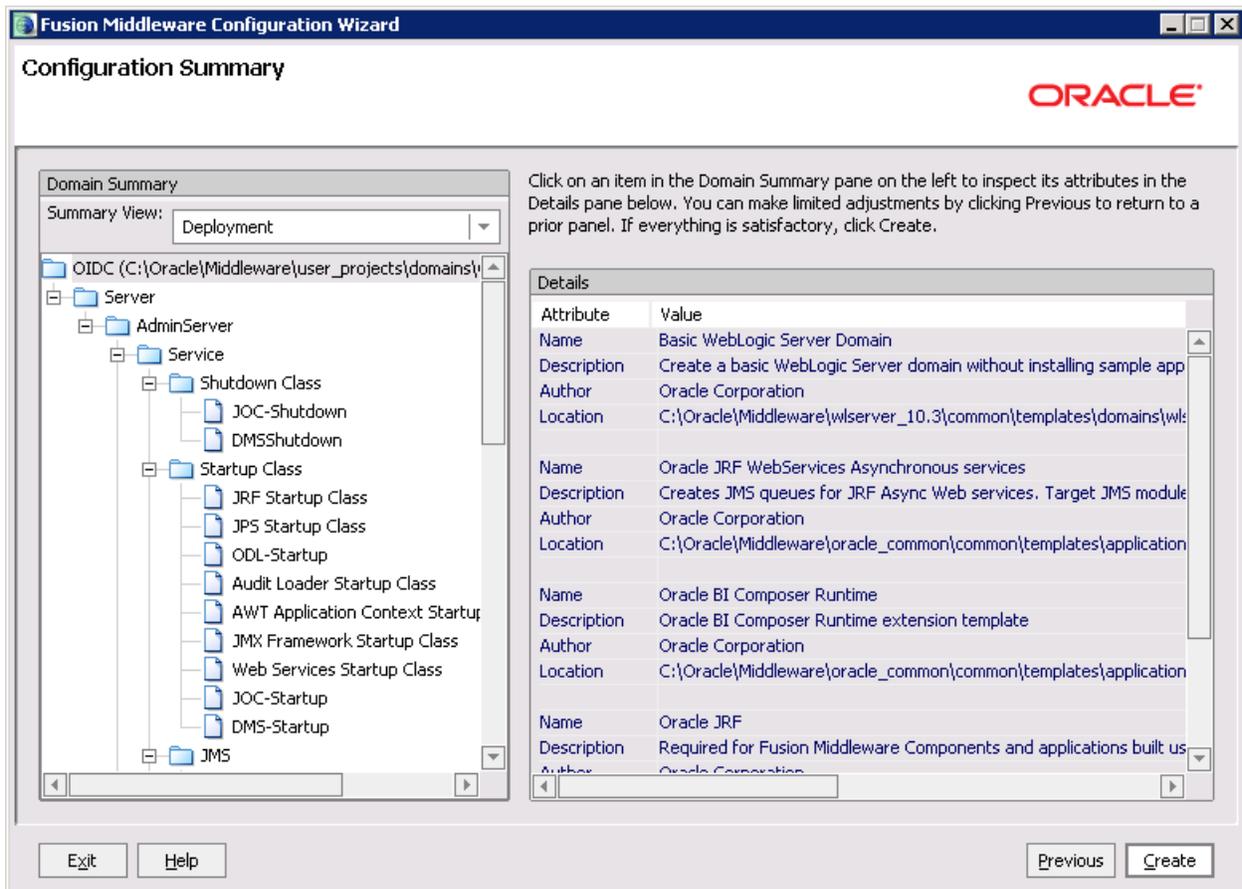


Figure 10 Verifying Selections

14. Progress will be displayed. When WebLogic finishes, click **done**. The OIDC domain has been successfully created.

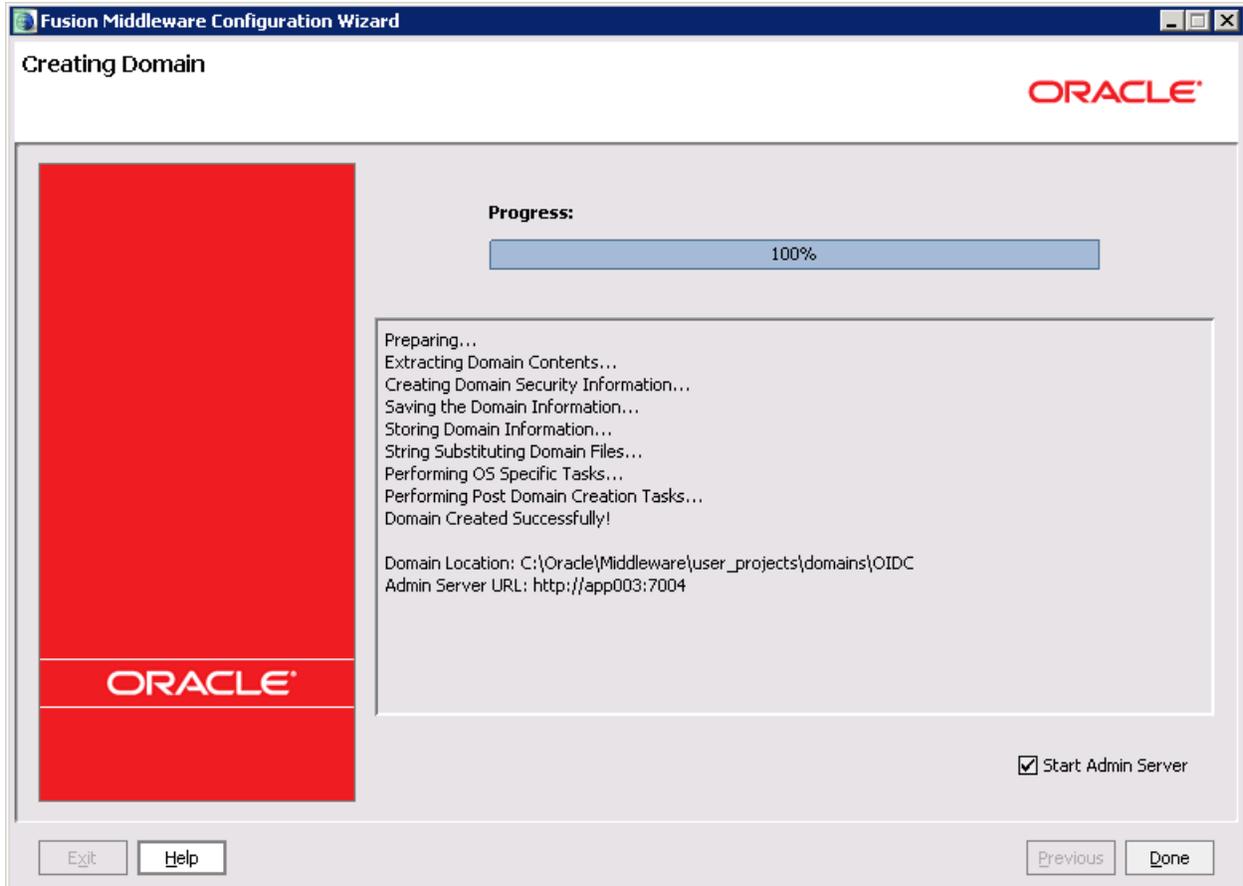


Figure 11 Completed WebLogic Domain

15. The final step is to Start WebLogic. This can be done by checking the Start Admin Server box and clicking Done. This will start WebLogic.

If you close the wizard without starting WebLogic, start WebLogic by:

```
Start→All Programs→Oracle WebLogic→User Projects→OIDC→Start Admin
Server for WebLogic Server Domain
```

Or

```
cd /home/OIDCINSTALLER/Oracle/Middleware/user_projects/domains/oidc
nohup ./startWeblogic.sh &
```

Extracting the Archive Files

1. DCWorksite files require editing prior to being deployed. It is recommended that you work on the server where WebLogic is located.
2. Create a holding folder where you can place the DCWorksite files that need to be edited. For example:

```
C:\OIDC\5.1\DCWorksite  
Or  
home/OIDC/5.1/DCWorksite
```

3. Place the DCW51.ear file in the new holding folder.
4. Extract the contents of .ear file. To extract an *.ear or *.war or *.jar file in a Windows Operating system, you can use any zip file creation tool such as 7-zip or win-zip. In Linux, you can open with Archive Manager and then extract to a location of your choosing.
5. Extract the contents into a new folder. The extracted contents should be in their own folder. In Windows, do not use Extract Here.
6. A new folder will be created called OracleInsuranceDataCapture_application1. Inside the new folder will be three more folders; adf, lib and META-INF along with an OracleInsuranceDataCapture_OIDCPresentation_webapp1.war file.
7. In the holding folder, delete the original DCW51.ear file. You will no longer need this file.
8. Select the OracleInsuranceDataCapture_OIDCPresentation_webapp1.war. Extract the contents of the .war file. In Windows, do not use Extract Here.
9. A new folder will be created called OracleInsuranceDataCapture_OIDCPresentation_webapp1.
10. Delete the original OracleInsuranceDataCapture_OIDCPresentation_webapp1.war file. You will no longer need this file.
11. In the holding folder, select the META-INF folder.
12. Select the application.xml file. Right click and open with Wordpad or any text editor. You will edit the file in Wordpad or any text editor.
13. Find the <web-uri>OracleInsuranceDataCapture_OIDCPresentation_webapp1.war</web-uri>
14. Remove '.war' extension. The file will now read:

```
<web-uri>OracleInsuranceDataCapture_OIDCPresentation_webapp1</web-uri>
```
15. Save your changes and close the updated file.

Verifying jsf in WebLogic

Prior to installing any application .EAR file, please verify that there are two jsf libraries in WebLogic.

On the deployment page, scroll down to find:

- jsf(1.2,1.2.9.0)
- jsf(2.0,1.0.0.0_2-0-2)

Name	State	Health	Type	Deployment Order
adf.oracle.businesseditor(1.0,11.1.1.2.0)	Active		Library	100
adf.oracle.domain(1.0,11.1.1.2.0)	Active		Library	100
adf.oracle.domain.webapp(1.0,11.1.1.2.0)	Active		Library	100
DMS Application (11.1.1.1.0)	Active	✓ OK	Web Application	5
FMW Welcome Page Application (11.1.0.0.0)	Active	✓ OK	Enterprise Application	5
jsf(1.2,1.2.9.0)	Active		Library	100
jsf(2.0,1.0.0.0_2-0-2)	Active		Library	100
jsf(1.2,1.2.0.1)	Active		Library	100
ohw-rcf(5,5.0)	Active		Library	100

Figure 12 jsf Verification

jsf(1.2,1.2.9.0) can be found at:

WINDOWS: Oracle\Middleware\wlserver_10.3\common\deployable-libraries\jsf-1.2.war

or

LINUX: /Oracle/Middleware/wlserver_10.3/common/deployable-libraries/jsf-1.2.war

jsf(2.0,1.0.0.0_2-0-2) can be found at:

WINDOWS: Oracle\Middleware\oracle_common\modules\oracle.jsf_2.0\jsf-ri-20.war

or

LINUX: /Oracle/Middleware/oracle_common/modules/oracle.jsf_2.0/jsf-ri-20.war

If a library is missing, please deploy as a library before deploying any application .EAR files.

A missing library may result in errors when deploying the PCPalette or DCW .EAR files.

Deploying in WebLogic Application Server

1. Prior to deploying, WebLogic must be started and running.
2. If the holding folder that you just edited is on a different machine, copy it to the machine where WebLogic is running.
3. Log in to the WebLogic Admin console. You can log in either remotely or on the machine where WebLogic is located. For example, <http://HostName:7001/console>

NOTE: Where *HostName* is the name or IP of the server where WebLogic is installed.

7001 is the most commonly used port for WebLogic. The port may have been changed when you created the OIDC domain. If WebLogic fails to display, check to make sure WebLogic has been started. If WebLogic has been started verify the host name and the port.

4. Click on the Deployments link on the left side of the screen.
5. Click Install.

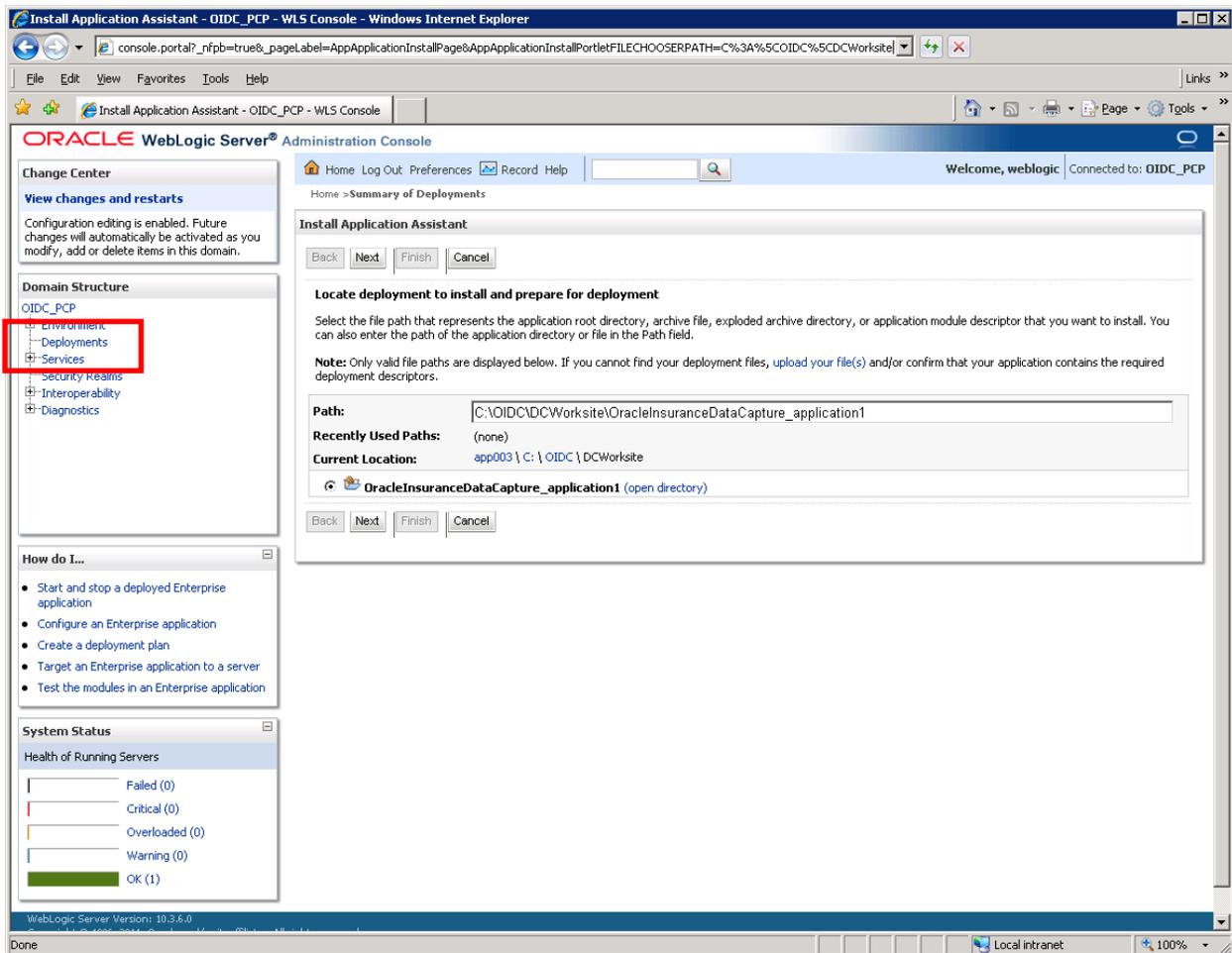


Figure 13 Selecting the OracleInsuranceDataCapture_application1 File

6. You can enter in the path of the holding folder. Or you can navigate to it by selecting the available folders in the Current Location area. When you have reached the location of the holding folder, available directories will be listed.
7. Select OracleInsuranceDataCapture_application1. Click Next.
8. On the Install Application Assistant page, select to Install this deployment as an application. Click Next.
9. On the Optional Settings page, it is recommended that you keep the default values. You can rename the deployment if you want. The name is for the deployment listing in WebLogic only. Click Finish.

- After the deployment has been added, you will be placed on the Summary of Deployments page. The deployment you added will be listed. Read the messages at the top of the screen and correct any error messages.

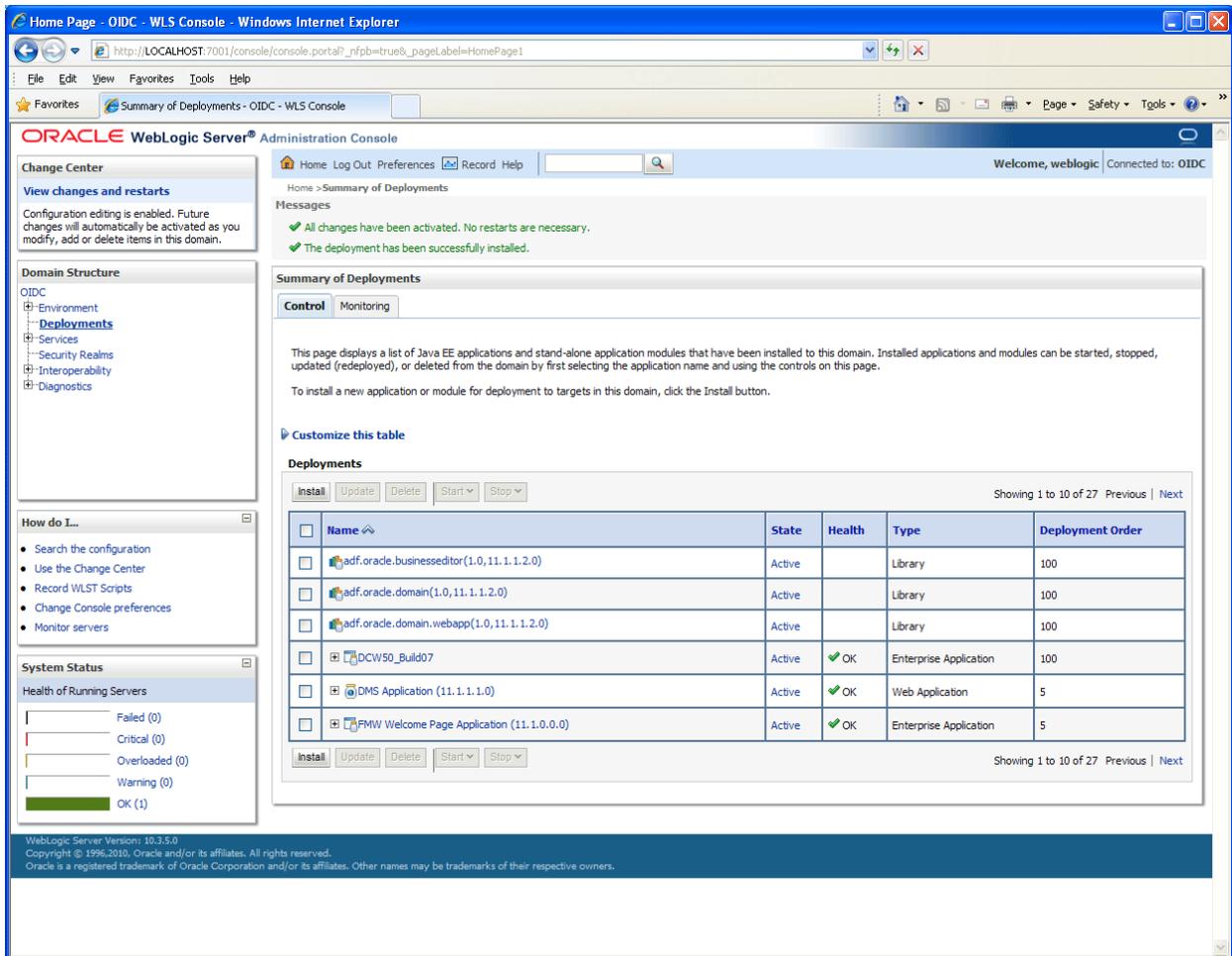


Figure 14 Completed DCWorksite Deployment

- Repeat for PCPalette by deploying the PCPalette.ear file. The deployment steps are the same. PCPalette does not require a domain separate from DCWorksite.

CONFIGURING WEBLOGIC

After the PCPalette and DCWorksite .ear files have been deployed, return to WebLogic to configure user groups and users. There are no default user groups or users. User groups and users must be set up in order to run PCPalette and DCWorksite.

WebLogic should be up and running.

WEBLOGIC STARTUP OPTIONS

The startup script needs to have two commands added; one to set the location where the oidc_config.xml file will be created and maintained and one for the proper functioning of callout adapters.

1. Locate the startup script for the OIDC domain on the server where WebLogic is installed:

This script can be found at:

`[%MW_HOME%]\user_projects\domains\[%DC_DOMAIN%\bin\`

Where: %MW_HOME% is the Fusion Middleware home where WebLogic is installed

And: %DC_DOMAIN% is the name of the domain where OIDC is deployed.

For example:

`C:\Oracle\Middleware\user_projects\domains\[OIDC_DOMAIN]\bin\startWebLogic.cmd`

Or

`Oracle/Middleware/user_projects/domains/[OIDC_DOMAIN]/bin/startWeblogic.sh`

Where: [OIDC_DOMAIN] is the name used for the OIDC Domain

2. Make a copy of the script and give it a name of your choosing.

NOTE: Startup scripts are generated by the WebLogic configuration wizard and changes will be overwritten if you later extend the domain, so make modifications to the renamed new copy.

3. To edit the script, open the start file in a text editor.
4. Near the end of the script, find the server startup commands. Right before these calls, add the following Java properties to %JAVA_OPTIONS%:

```
set JAVA_OPTIONS=%JAVA_OPTIONS% -Doracle.insurance.dc.appDirectory="
C:\Downloads\OIDC\5.1\DCWorksite"
```

```
set JAVA_OPTIONS=%JAVA_OPTIONS% -
Dweblogic.wsee.workarea.skipWorkAreaHeader=true
```

Where: *C:\Downloads\OIDC\5.1\DCWorksite* Is the location where DCWorksite has been installed.

```
echo *****
echo * To start WebLogic Server, use a username and *
echo * password assigned to an admin-level user. For *
echo * server administration, use the WebLogic Server *
echo * console at http://hostname:port/console *
echo *****
@REM CLASS CACHING
if "%CLASS_CACHE%"=="true" (
    CALL :classCaching
)
@REM START WEBLOGIC
echo starting weblogic with java version:
%JAVA_HOME%\bin\java %JAVA_VM% -version
set JAVA_OPTIONS=%JAVA_OPTIONS% -Doracle.insurance.dc.appDirectory="C:\Oracle\IGBU\Datacapture\OIDC"
set JAVA_OPTIONS=%JAVA_OPTIONS% -Dweblogic.wsee.workarea.skipworkAreaHeader=true
if "%WLS_REDIRECT_LOG%"==" " (
    echo Starting WLS with line:
    echo %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% -Dweblogic.Name=%SERVER_NAME% -Djava.security.poli
    %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% -Dweblogic.Name=%SERVER_NAME% -Djava.security.policy=
) else (
    echo Redirecting output from WLS window to %WLS_REDIRECT_LOG%
    %JAVA_HOME%\bin\java %JAVA_VM% %MEM_ARGS% -Dweblogic.Name=%SERVER_NAME% -Djava.security.policy=
)
```

Figure 15 Updating the startWebLogic Script

5. When you are finished with your edits, save the file.

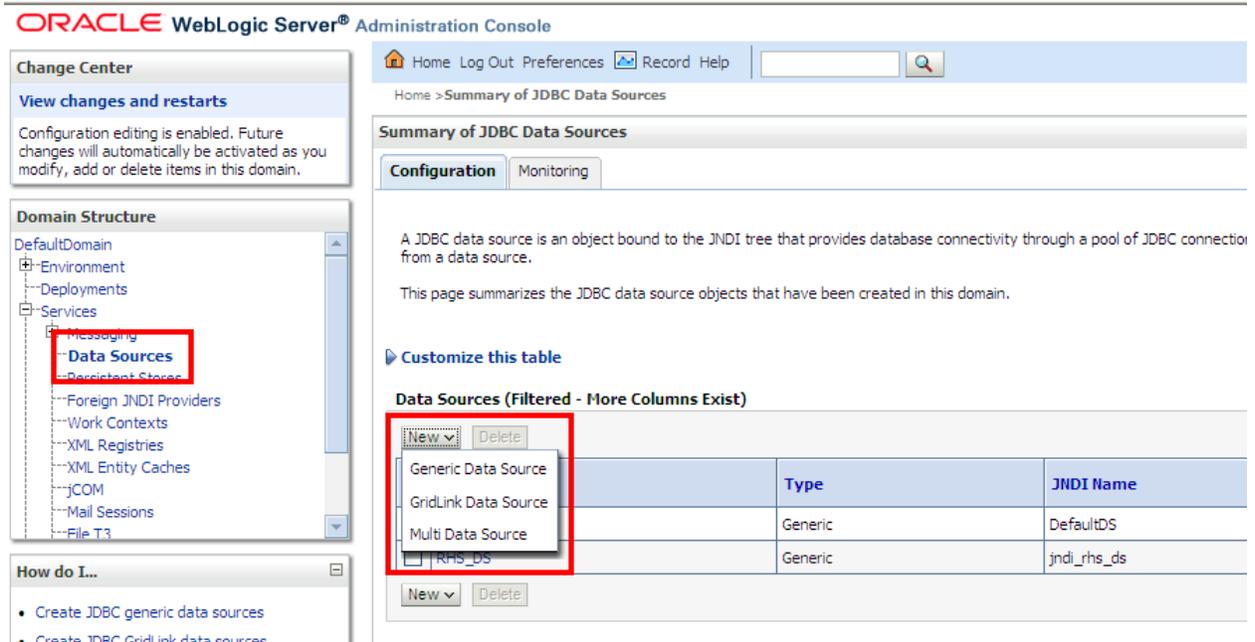
If you are running OIDC on a managed server, you would make similar modifications to startManagedWeblogic.cmd (or startManagedWeblogic.sh), again making your own copy of the provided script.

You could set both properties together on one line, or add them individually to the startup instructions, or set them in setDomainEnv.cmd (or setDomainEnv.sh, for Linux), which is called by setWebLogic.cmd (or startWebLogic.sh). It doesn't matter where, as long as these settings are passed at startup.

The next time you start WebLogic using the modified script, OIDC will look for the oidc_config.xml file in the location defined by oracle.insurance.dc.appDirectory. When OIDC is launched, it will create the oidc_config.xml file in this directory if it does not exist. If it does exist then OIDC will use it as is.

CONFIGURING DATA SOURCE IN WEBLOGIC APP SERVER

1. Log in to WebLogic Console and select Services-> Data Sources in Domain Structure panel. Click New and select the Generic Data Source option.



The screenshot displays the Oracle WebLogic Server Administration Console interface. On the left, the 'Domain Structure' tree shows the 'Data Sources' folder under 'Services' highlighted with a red box. The main content area is titled 'Summary of JDBC Data Sources' and includes a 'Configuration' tab. Below the tab, there is a table of existing data sources. A 'New' button is highlighted with a red box, and its dropdown menu is open, showing 'Generic Data Source' as the selected option. The table below shows two existing data sources: 'DefaultDS' and 'jndi_rhs_ds', both of type 'Generic'.

Data Sources (Filtered - More Columns Exist)		
	Type	JNDI Name
Generic Data Source	Generic	DefaultDS
GridLink Data Source		
Multi Data Source		
RHS_DS	Generic	jndi_rhs_ds

Figure 16 Selecting Data Sources

2. Enter the data source name and JNDI Name:
 - a. Data Source Name: OI DC_51_DS
 - b. JNDI Name: jdbc/OidcConnDS
3. Click Next.

The screenshot shows the 'Settings for OI DC_51_DS' configuration window. The 'General' tab is active. The 'Name' field is 'OI DC_51_DS'. The 'JNDI Name' field is 'jdbc/OidcConnDS'. The 'Row Prefetch Enabled' checkbox is checked. The 'Row Prefetch Size' is 48. The 'Stream Chunk Size' is 256. There are 'Save' buttons at the top and bottom.

Figure 17 Creating a New JDBC Data Source

The data source name can be any name you choose.

The JNDI name in the WebLogic data source must match the setting in the 'non-jta-data-source' section of the persistence.xml. Uniform naming reduces errors because the same name must be defined in multiple places in DCWorksite and allows for multiple instances to be installed on the same server.

Please only use these JNDI Names:

- jdbc/OidcConnDS – for DCWorksite
- jdbc/PCPDS – for PCP

4. Select the appropriate JDBC Driver from the options available.
5. Click Next.

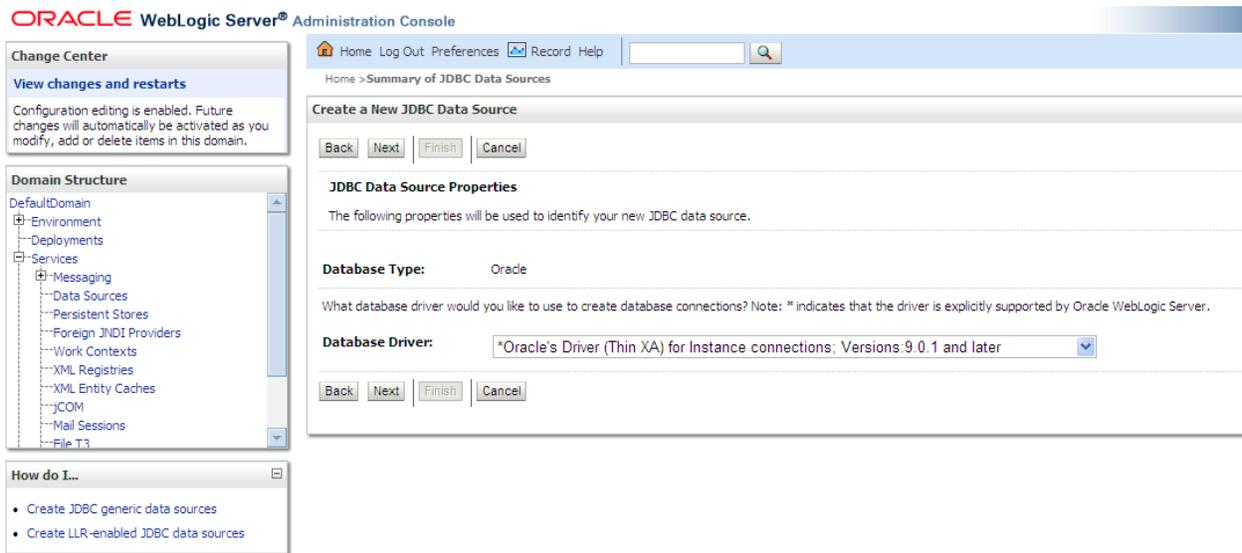


Figure 18 Selecting the JDBC Driver

6. No changes are needed on the next screen. Click Next.

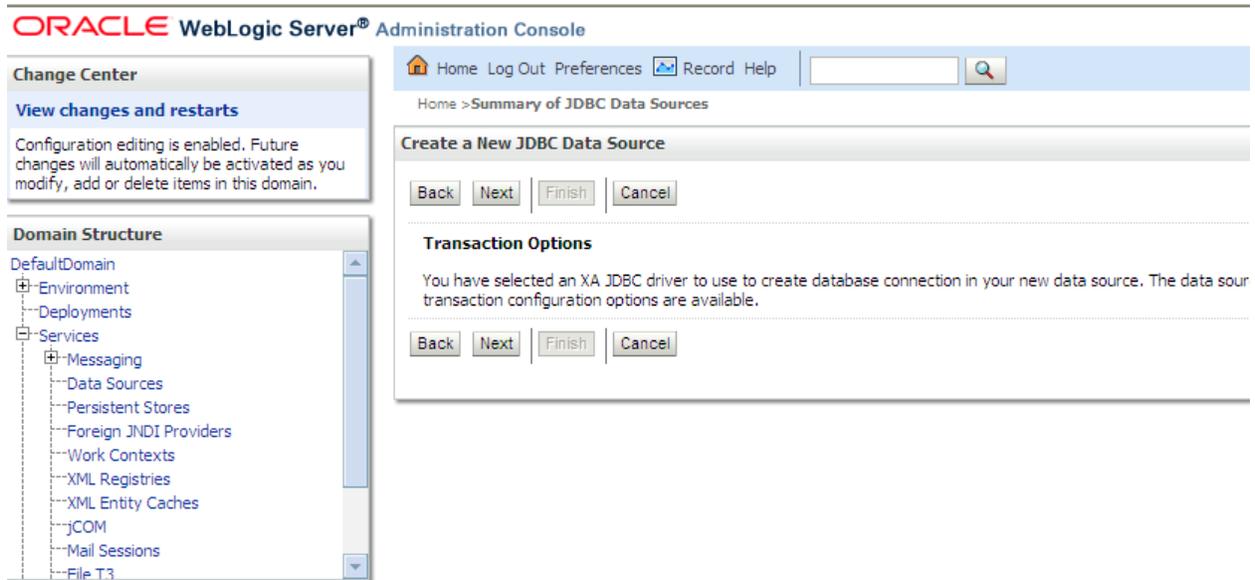


Figure 19 Auxiliary Screen for Creating a New JDBC Data Source

7. Enter the Database details. You will need the database name, server name, port, database user and password.
8. Click Next.

Home Log Out Preferences Record Help

Home > Summary of JDBC Data Sources

Create a New JDBC Data Source

Back Next Finish Cancel

Connection Properties
Define Connection Properties.

What is the name of the database you would like to connect to?

Database Name:

What is the name or IP address of the database server?

Host Name:

What is the port on the database server used to connect to the database?

Port:

What database account user name do you want to use to create database connections?

Database User Name:

What is the database account password to use to create database connections?

Password:

Confirm Password:

Back Next Finish Cancel

Figure 20 Entering Database Details

9. Click on Test Configuration to validate the Database details. A successful connection displays a “success” message. If a fail message is displayed, please verify your entry and try again.
10. Click Next.

Messages
✔ Connection test succeeded.

Create a New JDBC Data Source

Test Configuration | Back | Next | Finish | Cancel

Test Database Connection

Test the database availability and the connection properties you provided.

What is the full package name of JDBC driver class used to create database connections in the connection pool?
(Note that this driver class must be in the classpath of any server to which it is deployed.)

Driver Class Name:

What is the URL of the database to connect to? The format of the URL varies by JDBC driver.

URL:

What database account user name do you want to use to create database connections?

Database User Name:

What is the database account password to use to create database connections?
(Note: for secure password management, enter the password in the Password field instead of the Properties field below)

Password:

Confirm Password:

Figure 21 Testing Configuration

11. Select the target server and click Finish. A successful creation displays a “success” message. If there are any errors, please correct and try again.

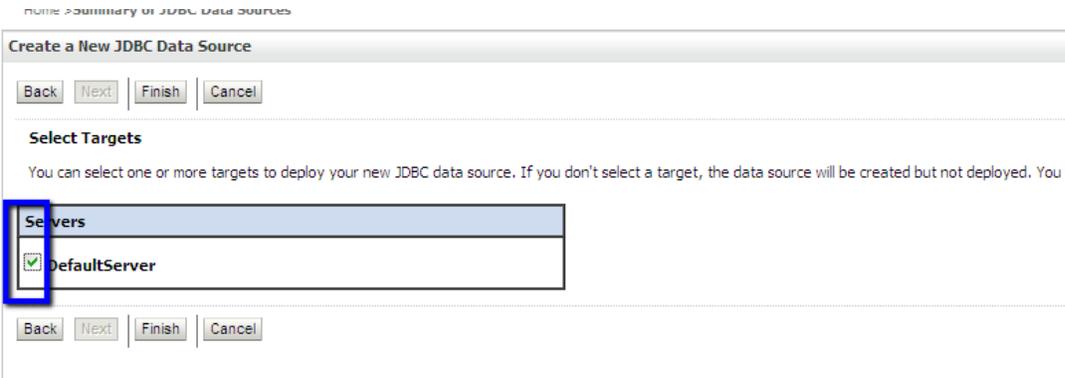


Figure 22 Selecting the Target Server

12. Create a Data Source for PCPalette as well. The steps are the same.

SECURITY SETTINGS

Once the data source has been created, the Security Users & Groups can be created.

Creating a Group in WebLogic Console

1. Log in to the WebLogic Admin Console and click on Security Realms.

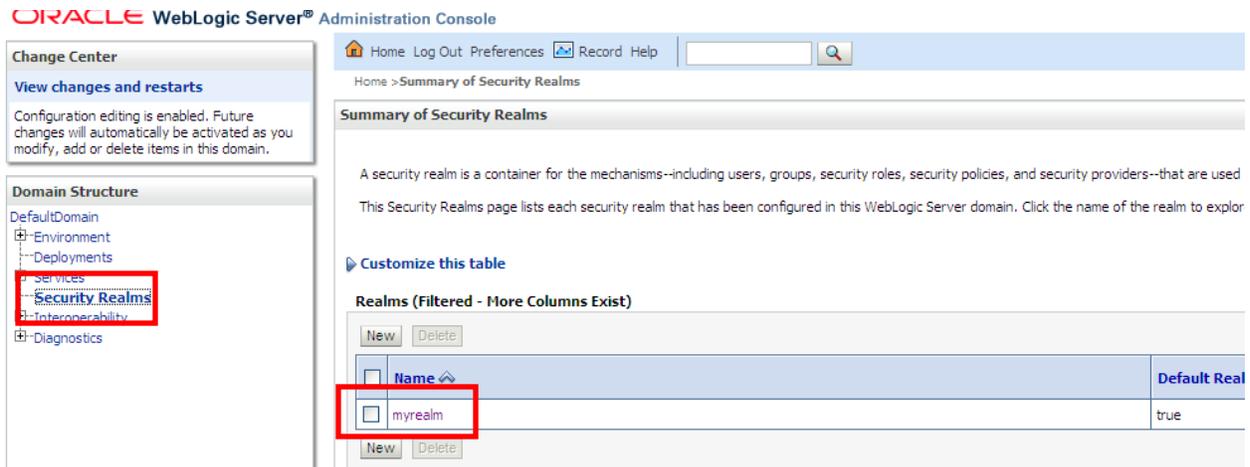


Figure 23 Security Realms in WebLogic

2. Click myrealm.
3. Click Users and Groups.
4. Select Groups.
5. Click New to create a new Group.

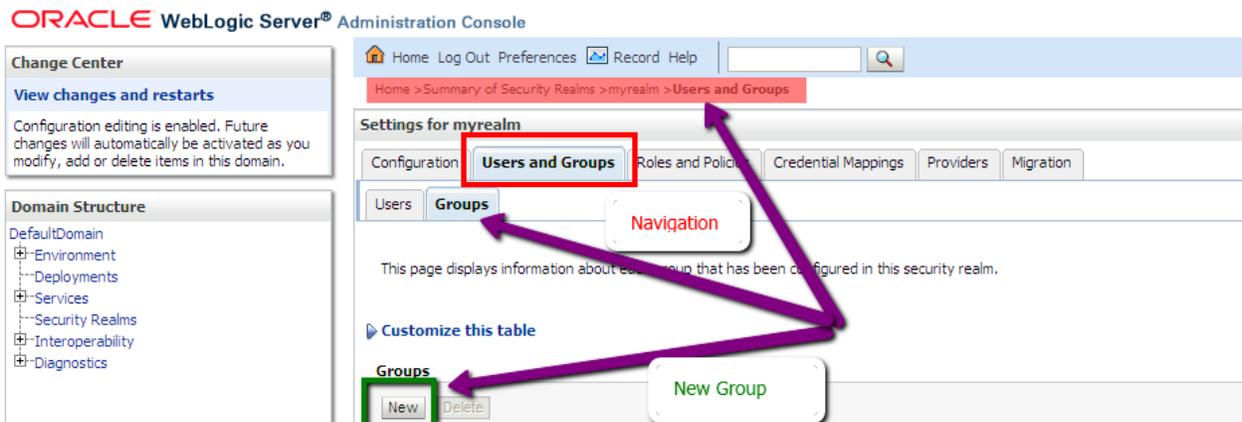


Figure 24 Creating Groups in WebLogic

6. There are 4 groups that need to be created. For each group, enter the Name and Description of the new group and click OK. The description can be the same as the name.
 - **DCBASE_**
 - **DCROLES_**
 - **DCTEAMS_**
 - **DCDataAdministrators_**

NOTE: Do not change the provider.

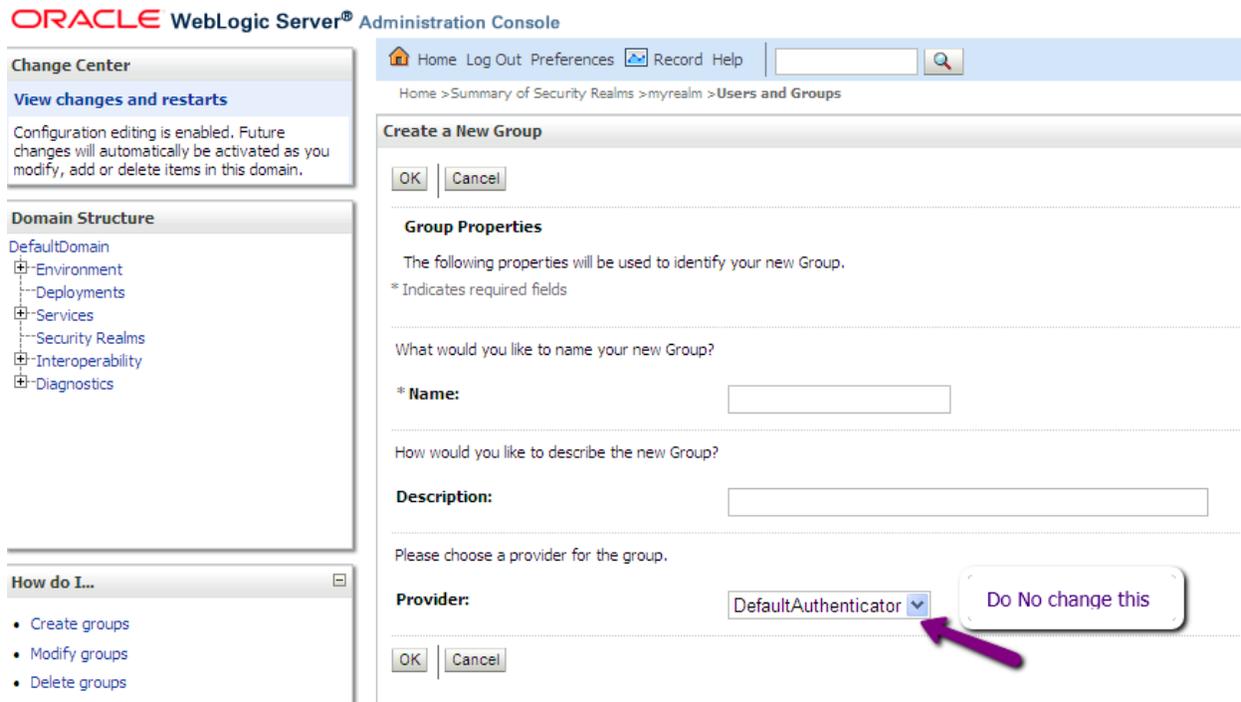
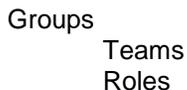


Figure 25 Entering Group Information in WebLogic

Groups, Teams, and Roles

OIDC classifies groups as either groups, teams, or roles. A group is a top level holding container where teams are located. A team is the mid-level holding container where OIDC users are located. A role is the role that a user can take in Data Capture. A user may be assigned to any number of teams but only ONE role. The same role will apply to every team.

Groups, teams, and roles are all created the same way. The relationship between them is defined in the membership tab. The relationship structure is:



- **DCBASE_** This is a security group that serves as the root level for all other groups.
- **DCROLES_** This is a security group that will hold the available roles. DCROLES_ is a member of DCBASE_.

- **DCTEAMS_** This is a security group that will serve as the root for all your OIDC user teams. DCTEAMS_ is a member of DCBASE_.
- **DCDataAdministrators_** This is a security role for Data Capture Admins. DCDataAdministrators is a member of DCROLES_. If a user requires admin rights, the user must be a member of this role. The admin user also has view, create, edit and delete rights.
- **MyDCTeam** - This represents a team in your organization. This team can be any name you choose. You can create additional teams and team hierarchies if you wish. This team will be a member of DCTEAMS_.

7. Verify all the Groups have been created.

8. Click on the **DCBASE_** group and select the Membership tab.

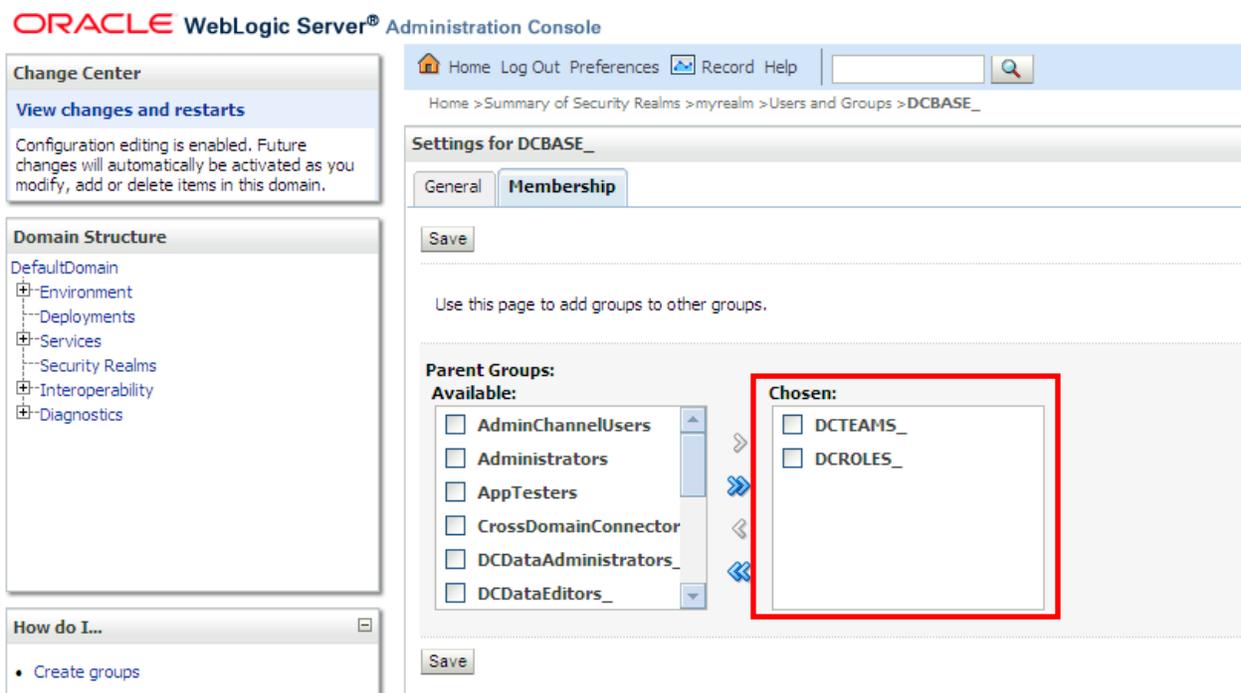


Figure 26 Selecting Membership for DCBase

9. Select DCTEAMS_ and DCROLES_ from the Parent Groups Available, located on the left and move to Chosen, on the right. This makes the DCTeams_ and DCRoles_ groups members of the DCBase_ group.

10. Click Save.

11. Return to the Users and Groups page (you can navigate using the locator links at the top of the screen). Select the DCROLES_ group and select the Membership tab.

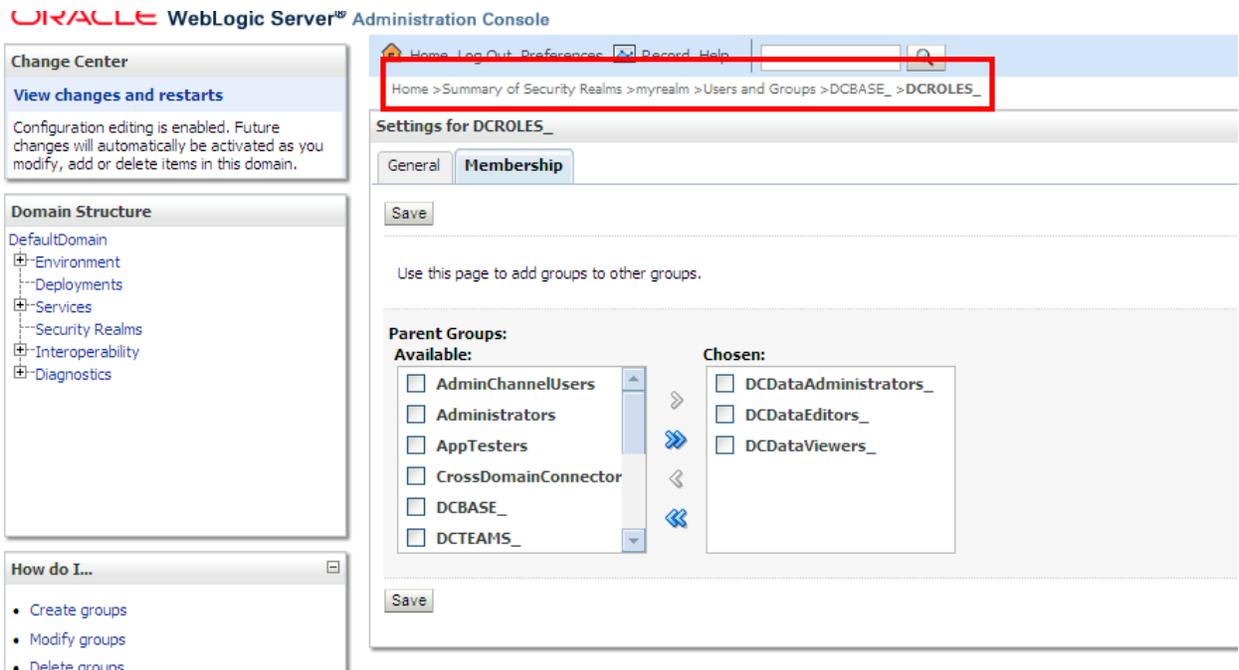


Figure 27 Selecting Members for the DCRoles Group

12. Move DCDataAdministrators_ from Parent groups Available to Chosen. This makes the DCDataAdministrators_ role a member of the DCROLES_ group.
13. Click Save.

14. Return to the Users and Groups page (you can navigate using the locator links at the top of the screen). Select the MyDCTeam team and select the Membership tab.
15. Move MyDCTeam team from Available to Chosen. This makes MyDCTeam a member of the DCTEAMS_ group.
16. Click Save.

NOTE: *Any new Team created should be added to DCTEAMS_ to interact with DC Worksite.*

Creating User in WebLogic Console

Users must be a member of a team and have a role assigned.

- Return to Users and Groups and click on the Users tab.

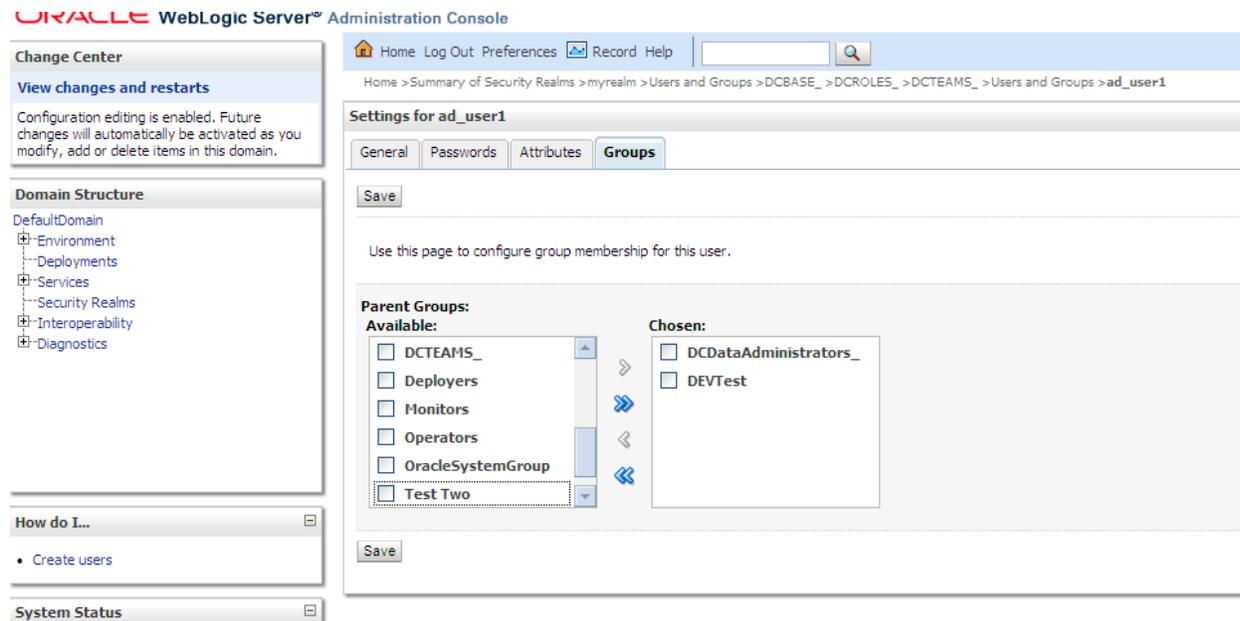


Figure 28 Creating Users for DCWorksite

- Click New to create user ad_user1, for example.

NOTE: Make note of the password. This information needs to be passed on to the user.

- Select the ad_user1. This opens the edit screen.
- Select the groups tab. This allows you to select the roles and teams this user will belong to.
- Select two: **DCDataAdministrators_*** and **MyDCTeam**. Move from Available to Chosen. This makes the ad_user1 a member of the MyDCTeam team and assigns ad_user1 the role of admin.

NOTE: * Currently, OIDC only supports the DCDataAdministrators_ role.

- Click Save.

CREATING USERS AND GROUPS IN PCPALETTE

1. Log in to Weblogic Admin Console and click on Security Realms.

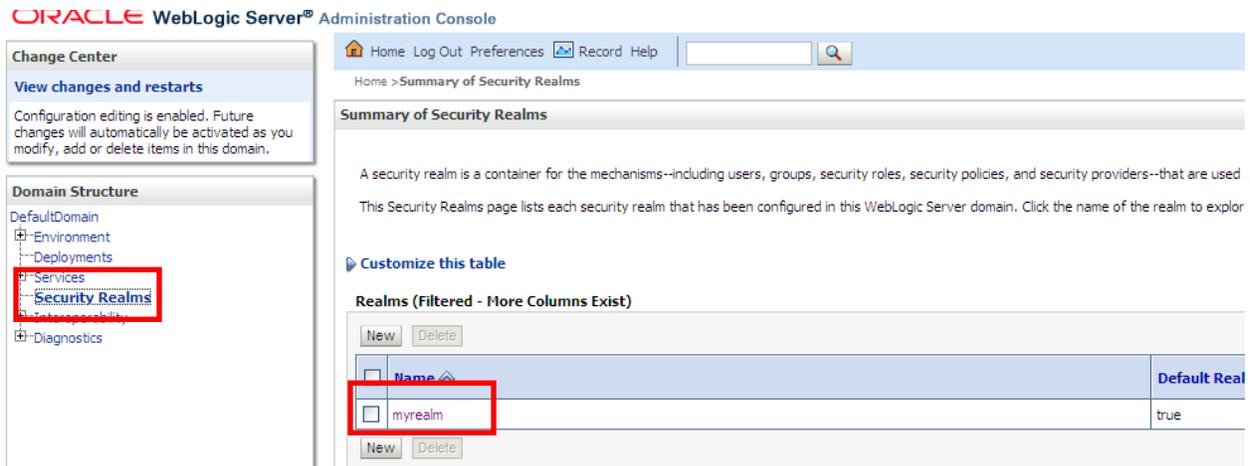


Figure 29 Security Realms in WebLogic

2. Click myrealm.
3. Click on Users and Groups.
4. Select the Groups tab.
5. Click New to create a new Security Group.

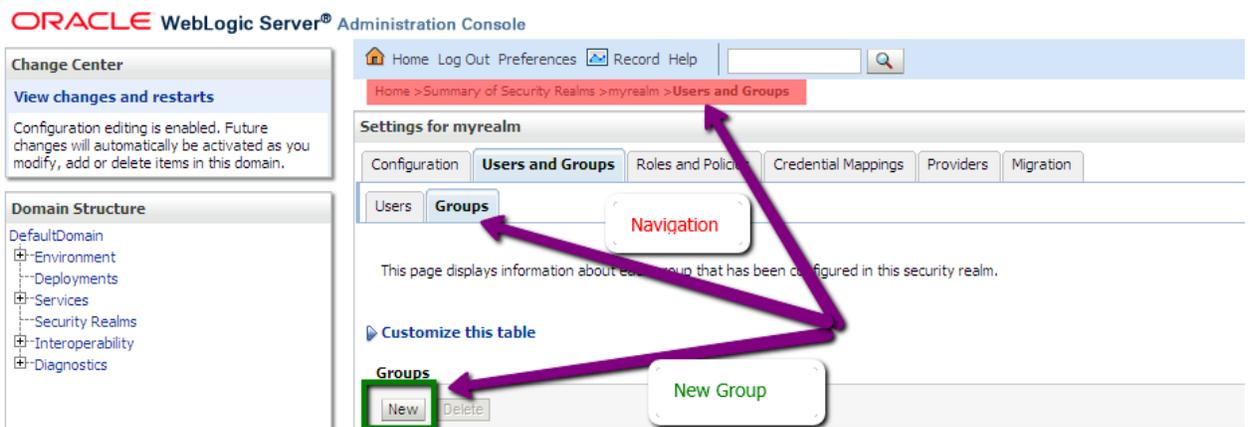


Figure 30 Creating Groups in WebLogic

6. There are 5 groups that need to be created. For each group, enter the Name and Description of the new group and click OK. The description can be the same as the name.
 - PCBASE_
 - PCTEAMS_

- PCROLES_
- PCDataAdministrators_
- MyPCTeam

NOTE: Do not change the provider.

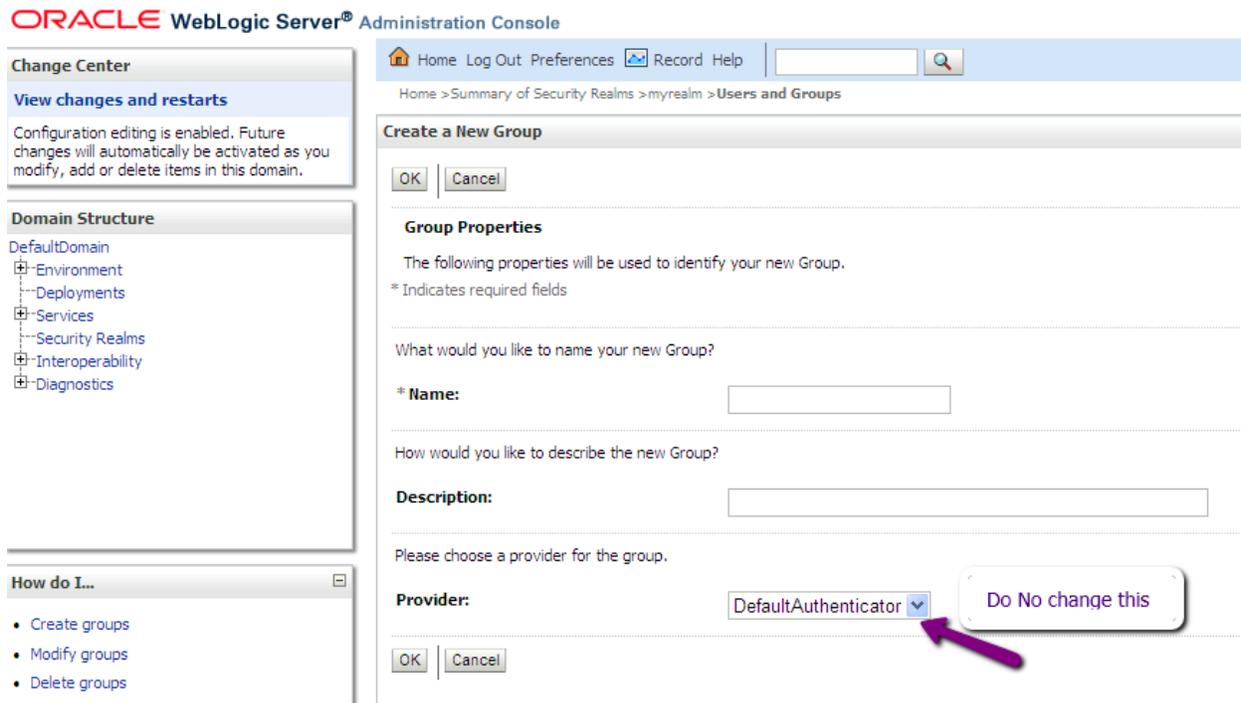
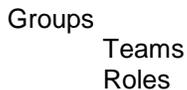


Figure 31 Entering Group Information in WebLogic

Groups, Teams, and Roles

OIDC classifies groups as either groups, teams, or roles. A group is a top level holding container where teams are located. A team is the mid-level holding container where OIDC users are located. A role is the role that a user can take in Data Capture. A user may be assigned to any number of teams but only ONE role. The same role will apply to every team.

Groups, teams, and roles are all created the same way. The relationship between them is defined in the membership tab. The relationship structure is:



- **PCBASE_** This is a security group that serves as the root level for all other groups.
- **PCROLES_** This is a security group that will hold the available roles. PCROLES_ is a member of PCBASE_.
- **PCTEAMS_** This is a security group that will hold the OIDC teams. PCTEAMS_ is a member of PCBASE_.

- **PCDataAdministrators_** This is a security role for Product Configuration Admins. PCDataAdministrators is a member of PCROLES_. If a user requires admin rights, the user must be a member of this group. The admin user also has view, create, edit and delete rights.
- **MyPCTeam** - This represents a team in your organization. This team can be any name you choose. You can create additional teams and team hierarchies if you wish.

7. Verify all the Groups have been created.
8. Click on the PCBASE_ group and select the Membership tab.

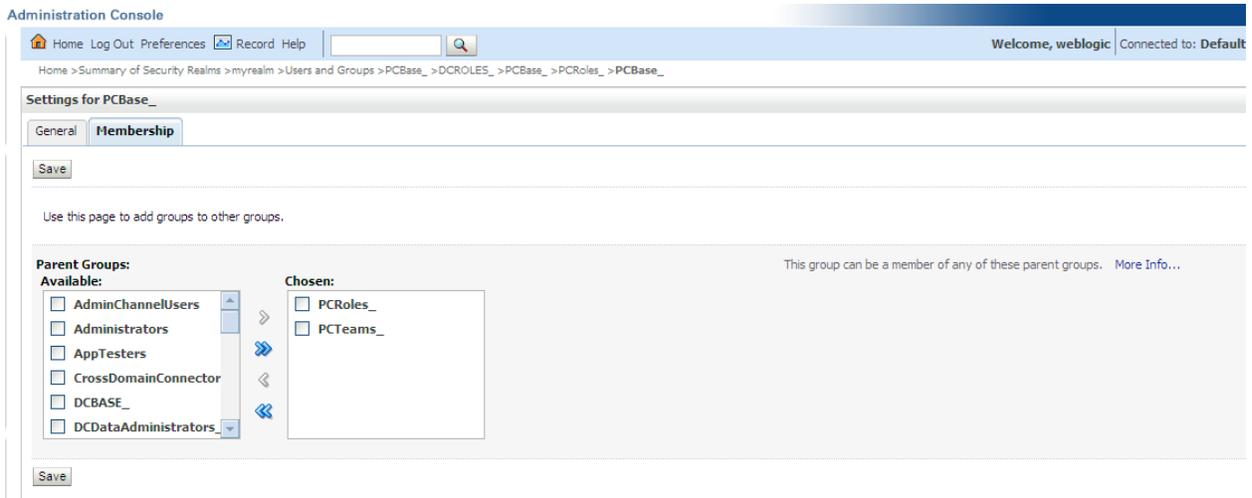


Figure 32 Selecting Membership for PCBase

9. Select PCTEAMS_ and PCROLES_ from the Parent Groups Available, located on the left to Chosen, on the right. This makes the PCTeams_ and PCRoles_ groups members of the PCBase_ group.
10. Click Save.
11. Return to the Users and Groups page (you can navigate using the locator links at the top of the screen). Select the PCROLES_ group and select the Membership tab.

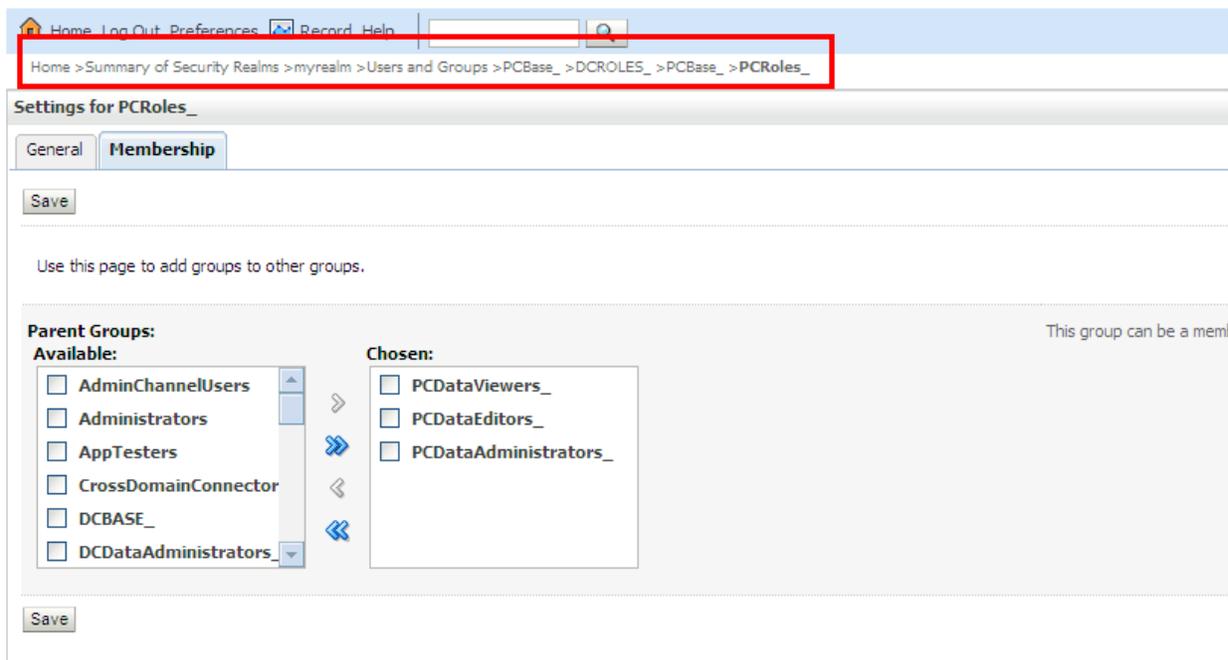


Figure 33 Selecting Members for the PCRoles Group

12. Move PCDataAdministrators_ from Parent groups Available to Chosen. This makes the PCDataAdministrators_ role a member of the PCROLES_ group. Click Save.
13. Return to the Users and Groups page (you can navigate using the locator links at the top of the screen). Select the PCTEAMS_ group and select the Membership tab.
14. Move the MyPCTeam team from Available to Chosen. This makes MyPCTeam a member of the PCTEAMS_ group.
15. Click Save.

NOTE: Any new Team created should be added to PCTEAMS_ to interact with PCPalette.

Creating User in WebLogic Console

Users must be a member of a team and have a role assigned.

16. Return to Users and Groups and click on the Users tab.

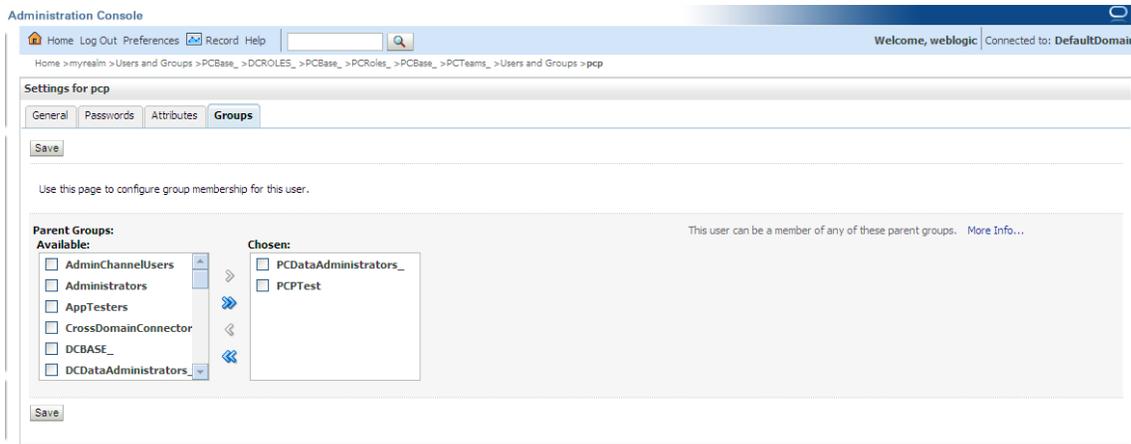


Figure 34 Creating Users for PCPalette

17. Click New to create user pcp, for example.

NOTE: Make note of the password. This information needs to be passed on to the user.

18. Select the pcp user. This opens the edit screen.

19. Select the groups tab. This allows you to select the teams and roles this user will belong to.

20. Select two: **PCDataAdministrators_*** and **MyPCTeam**. Move them from Available to Chosen. This makes the pcp user a member of the MyPCTeam team and assigns pcp the role of admin.

NOTE: * Currently, Product Configuration only supports the PCDataAdministrators_ role.

21. Click **Save**.

Updates to the DCWorksite and PCPalette

When performing an update, previous OIDC .EAR files must be removed and the new .EAR file deployed.

Some updates may require a new version of the file to be deployed and updated to meet your deployment requirements. The patch documentation will instruct you in those cases.

Updating DCWorksite

WebLogic should be up and running. Perform any database updates prior to updating the application.

1. From the installation download, locate the DCWorksite folder. Locate the OracleInsuranceDataCapture_application1.ear file.
2. Enter WebLogic and delete the current DCWorksite.EAR file.
3. Deploy the new OracleInsuranceDataCapture_application1.ear file.
4. Verify that the JNDI settings and security are still in place. If any of these settings have been deleted, you will need to re-create.
5. Stop WebLogic.
6. Start WebLogic up again. DCWorksite is up to date.

Updating PCPalette

WebLogic should be up and running. Perform any database updates prior to updating the application.

1. From the installation download, locate the PCPalette folder. Locate the pcp.ear file.
2. Enter WebLogic and delete the current PCPalette.EAR file.
3. Deploy the new pcp.ear file.
4. Verify that the JNDI settings and security are still in place. If any of these settings have been deleted, you will need to re-create.
5. Stop WebLogic.
6. Start WebLogic up again. PCPalette is up to date.

OIDC DCPALETTE INSTALLATION

For the OIDC 5.1 release, the DCPalette application has been tested and supports MS Windows 2008 64-bit. Although it has not been tested, DCPalette also can be installed on 32-bit Windows 2008 or Windows 2003. The installation procedures are similar.

DCPalette installation:

- Download and place DCPalette files in a location you can access.
- Update Security Settings to allow for database information to be entered. Have this information ready prior to installing DCPalette.
- The database server IP address, database name, user name, and password for the DCPalette database and the PCPalette database can be entered during the install. The database information also can be entered at a later time. Entering database information at a later time requires manual updates to the web.config file.
- Run the DCPalette Installation. For Windows 2008 64-bit, you must run as administrator and allow the default application pool to run 32.
- Update the Application Pool.

NOTE: *The default directory structure of a NEW OIDC installation will be:*

C:\Program Files\Oracle\IGBU\DataCapture\5.1\Palette

A different default directory structure can be selected by the installer.

Update Security Policy

The security policy needs to be updated for this installation. This will allow for database information to be entered directly at installation time. The updated security policy only needs to be in place for the install. After installation, the policy change can be reversed.

1. Start→Administrative Tools→Local Security Policy. A separate screen will open.
2. Select Local Policies→Security Options.
3. Scroll down to User Account Control: Behavior of the elevation prompt for administrators in Admin Approval Mode. Open this option.
4. Select to Elevate without prompting.
5. Click OK to save your changes.

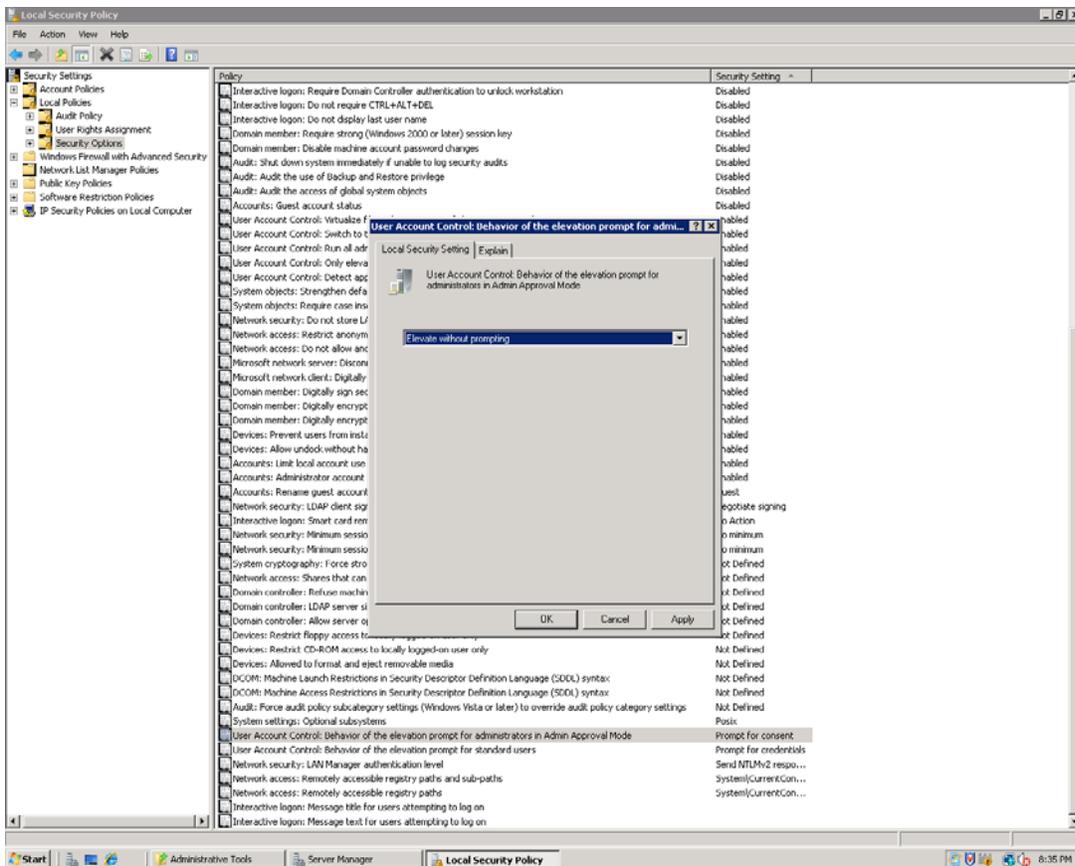


Figure 35 Security Settings

SERVER UPDATE – 64-BIT MACHINES ONLY

Prior to installing DCPalette, you will need to allow for 32-bit in the default application pool. If you do not, you may receive an error and DCPalette will fail to install. No error message will be displayed, the install will rollback without allowing for database information to be entered. No files will be created.

Updating the Default Application Pool

1. Click Start → Administrative Tools → select IIS Manager.
2. Expand the Local Computer and select Application Pools.

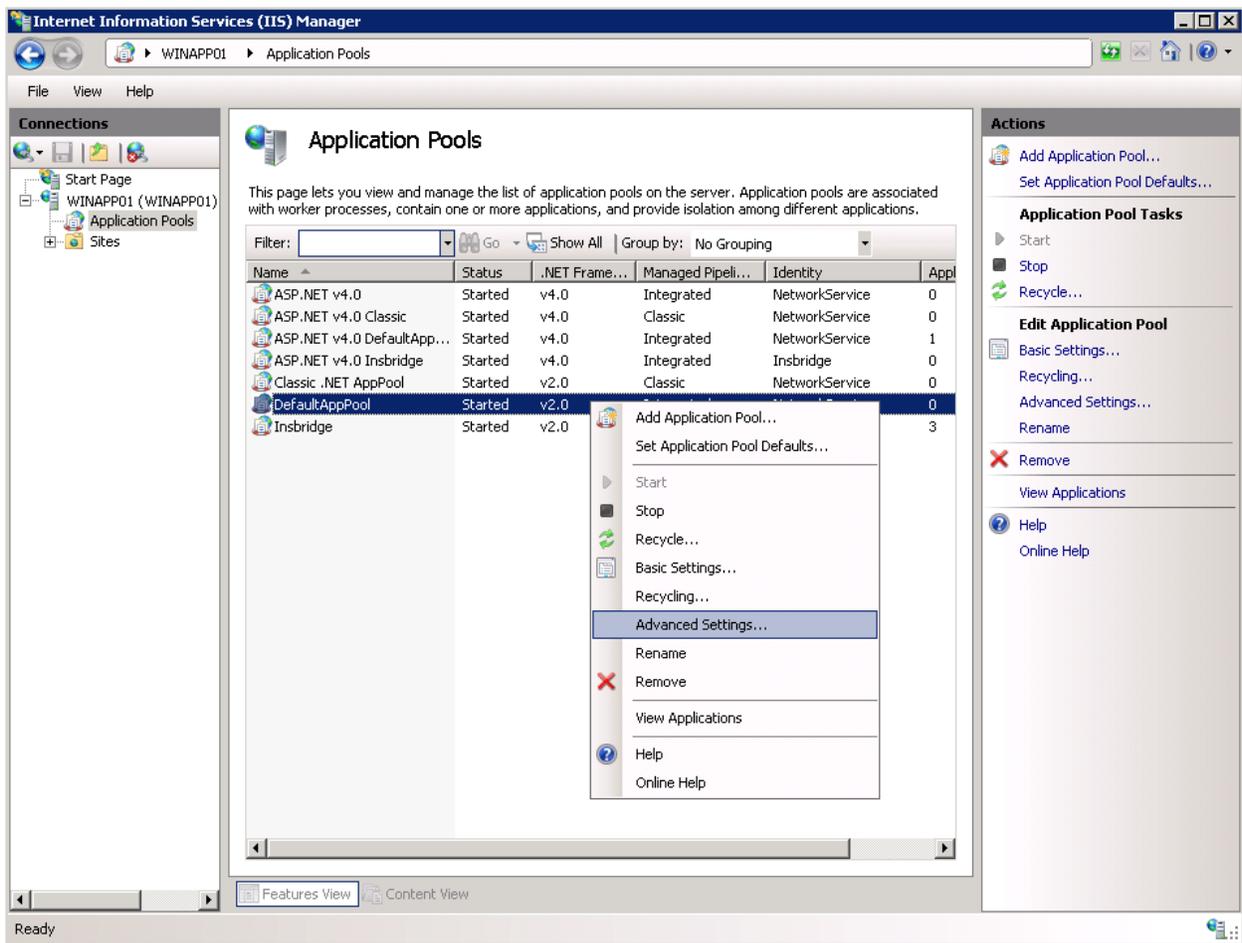


Figure 36 Navigating to Application Pool

3. Select the DefaultAppPool. Right click and select Advanced Settings. Check to ALLOW 32 bit. This option will be present in 64-bit machines only.
4. Click OK to save your changes.
5. Close Internet Information Services (IIS) Manager.

NOTE: After the installation, you may reset the DefaultAppPool if needed.

Running the DCPalette Installer

During the installation, the installation program requires the installer have administrator rights on the machine where the install is occurring. Please close all open applications and run the setup.exe file located in the DCPalette file.

1. Please close all open applications and run the **setup.exe** in the DCPalette file **as administrator**. A Welcome screen will be displayed.

Right click the executable and select Run as administrator. You may be required to enter administrator credentials. If you do not run as administrator, the database entry screen will not be displayed and the application may not install properly.



Figure 37 Welcome to Installing OIDC

2. Click on Next to continue.

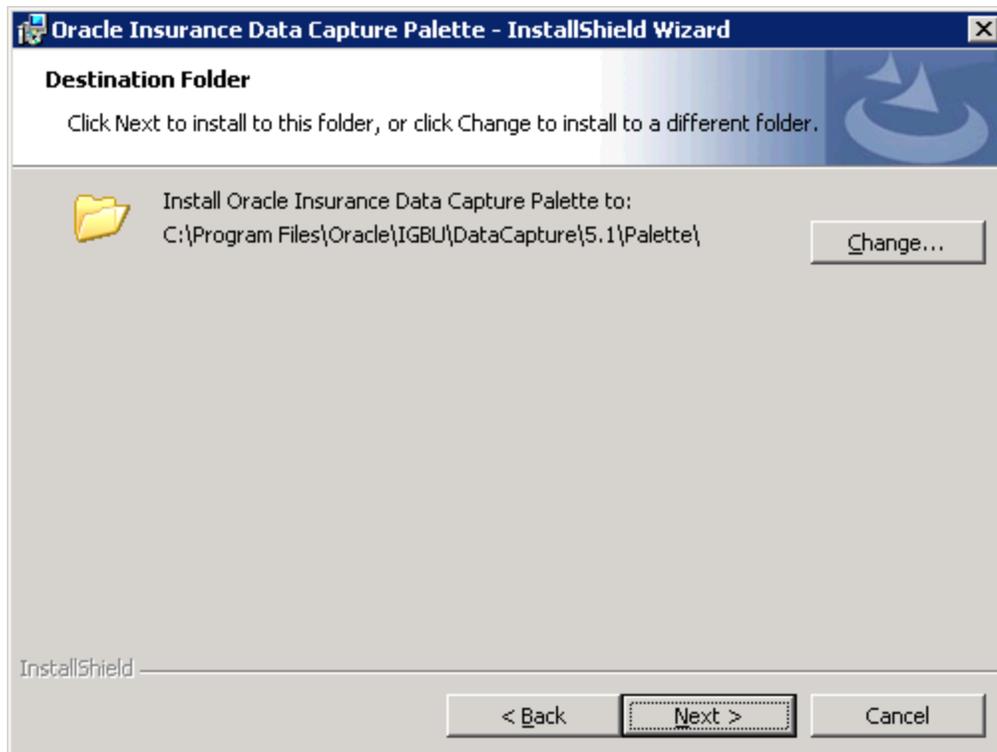


Figure 38 Selecting the Destination Folder

3. You have the option to select another installation directory. If you want another destination directory, browse for the directory you want to use. If the default installation directory is acceptable, Click Next.

- An information screen will be presented. If the information is correct, click Install.

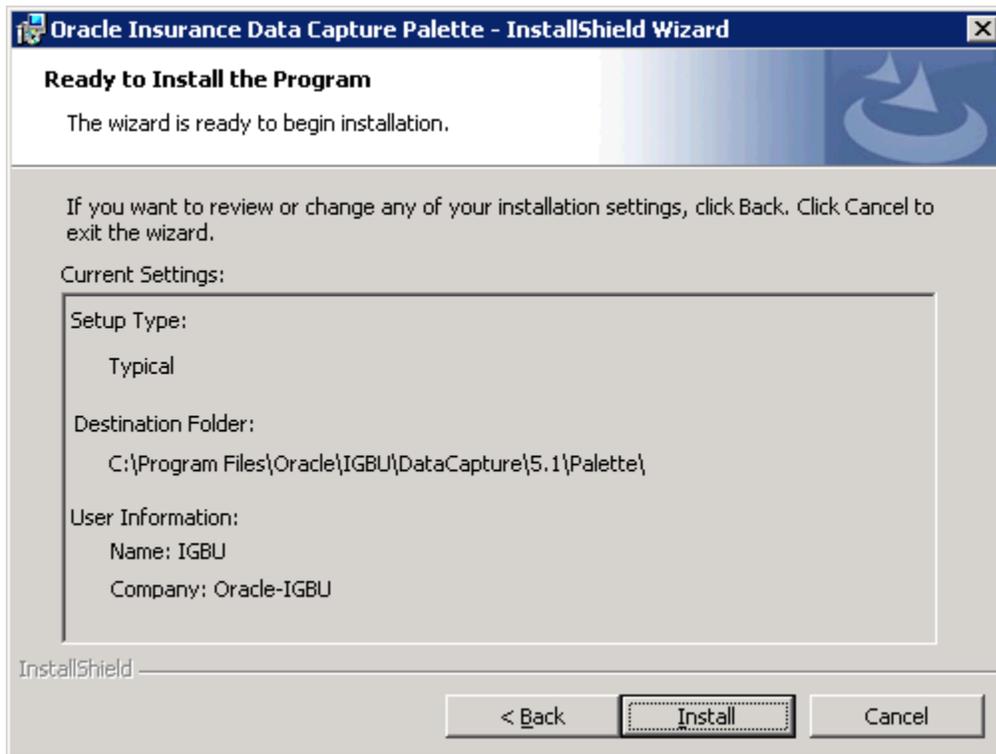


Figure 39 Ready to Install

If the information is not correct, click Back to return to the previous screen. Make your changes and then install when you are ready.

5. A progress screen will be displayed.

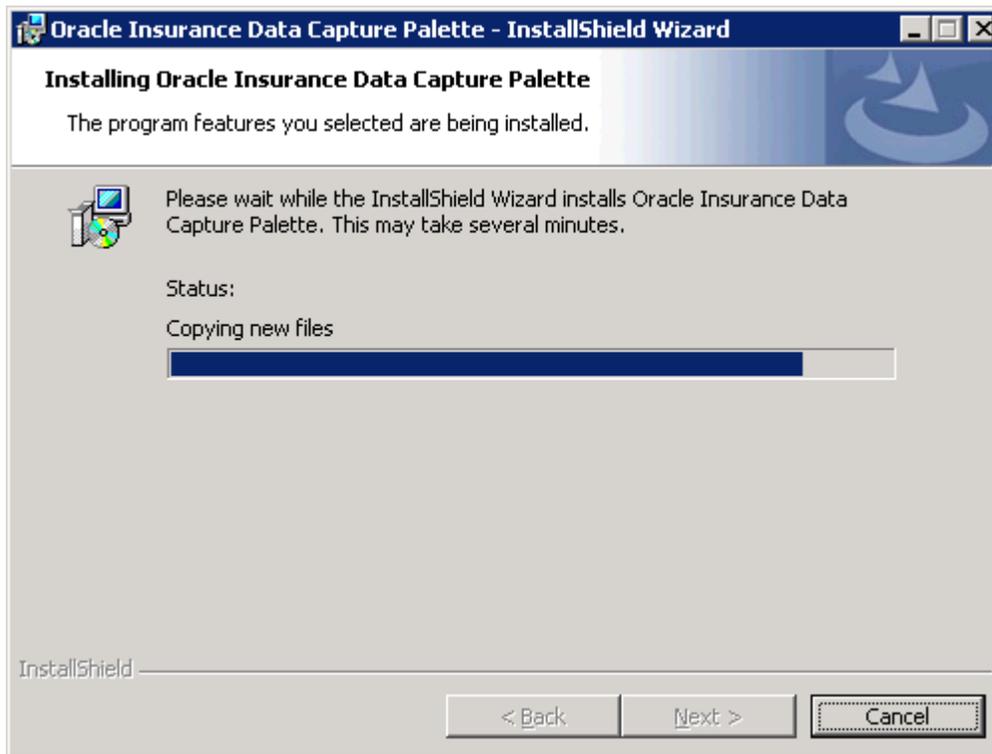


Figure 40 DCPalette Installation Progress

If the installation does not show any progress beyond this point, please verify that you are running as an administrator. Closing out the install at this point may result in the application not being installed properly.

If the application finishes without the database entry screen being displayed, you will have to manually enter the information. Please see [Manually Updating DCPalette Web.Config File](#).

You also may uninstall the application and then run the installation again.

6. Enter in the System database information.

For DCPalette: The **Server** is the database server name or IP address, whichever is resolvable by the DCPalette web server, for the DCPalette database. The **Name** is the database name. The **User** is the database user name and **Password** is the password for the database user.

For Target: The **Server** is the database server name or IP address, whichever is resolvable by the PCPalette web server, for the PCPalette database. The **User** is the database user name and **Password** is the password for the database user.

Test Connection: Test Connection is used to test the database connections. After you have made your entries, click **Test Connection**. A success or failure message will be returned. If you cannot resolve a connection issue, you can click Continue to complete the installation without correcting any errors. The entries will need to be corrected manually.

NOTE: Database information can be entered manually if you do not have it at this time. Leave the fields blank and click Continue. Please see *Manually Updating DCPalette Web.Config File*.

The screenshot shows a Windows-style dialog box titled "DC Palette Settings". It is divided into three main sections:

- Palette Database:** Contains four text input fields labeled "Server", "Name", "User", and "Password". Below these fields is a "Test Connection" button.
- Target Database:** Contains three text input fields labeled "Server", "User", and "Password". Below these fields is a "Test Connection" button.
- Launch:** Contains a checkbox labeled "Deployment Only" which is currently unchecked. Below the checkbox are two text input fields: "PCP URL" with the value "http://localhost:7001/PCP10/faces/pcpHome.jspx" and "PCPWS URL" with the value "http://localhost:7001/PCP10/ProductManager/w". A "Continue" button is located at the bottom of this section.

Figure 41 Entering Database Information

7. When you are finished, click Continue.

Launch Settings

Launch settings are the settings that will be used to launch the PCPalette and DCWorksite applications. These settings must be a URL that consists of server IP address, port number, and destination path. These settings can be updated manually if needed.

- PCP URL is the URL for PCPalette. Localhost must NOT be used in this URL.
- PCPWS URL is the URL for the product management webservice hosted by PCPalette.

When updating, only change the *localhost:7001* portion of the URL.

Deployment Only: By default DCPalette can be launched only from PCPalette. Enabling Deployment Only mode allows DCPalette to be launched directly but in a restricted read-only mode. This is the desired mode for Production environments where Data Capture content needs to be deployed but should not be edited. Users will not be allowed to create, edit, or work on questionnaires. Only deployments to the DCWorksite runtime will be allowed.

If you enable Deployment Only mode, no PCPalette URL setting is required. If Deployment Only is not enabled, please provide users with the PCPalette URL. This is used to re-direct users to the PCPalette for proper launch of DCPalette if they attempt to launch it directly.

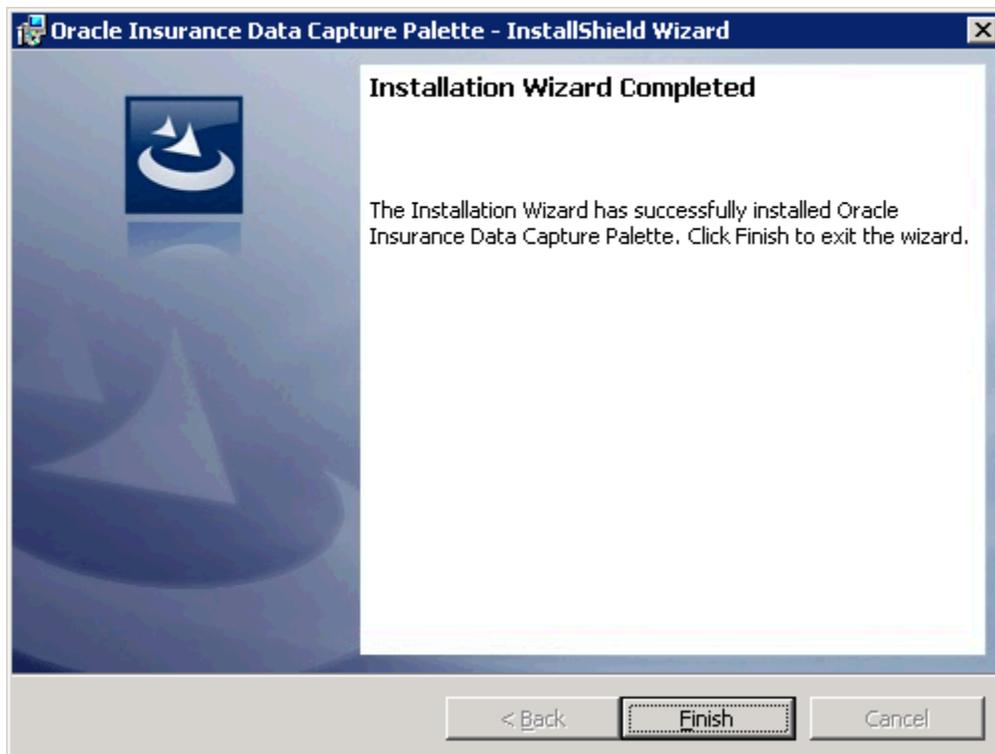


Figure 42 Completed DCPalette Install

8. Click Finish to finish the install.

SERVER UPDATES

An unstable session state may cause errors. To reduce the possibility of session state errors, you should create a separate OIDC application pool and then assign DCP51 to operate under this application pool.

To allow for quicker server response times you will need to enable compression.

Updating the OIDC Application Pool

The application pool should be created first.

1. Click Start → Administrative Tools → select IIS Manager.
2. Expand the Local Computer and select Application Pools. Right click and select Add Application Pool.

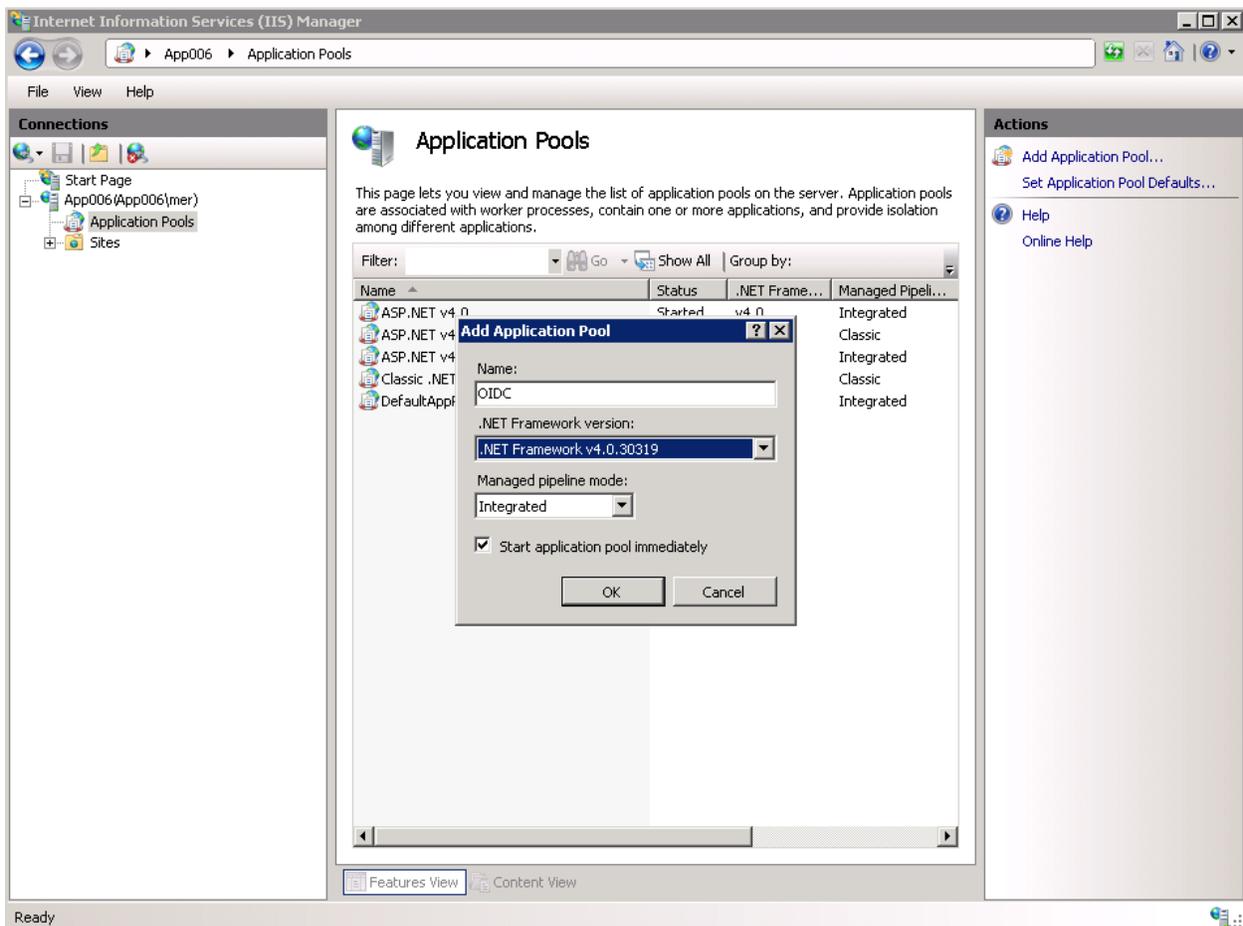


Figure 43 Navigating to Application Pool

3. Enter "OIDC" for the Application pool ID, select .NET Framework 4.0 and click OK. You will be returned to the IIS screen. Your new application pool will be listed.

- Right click the newly created OI DC Application Pool and select Advanced Settings. Check to ALLOW 32 bit. This option will be present in 64-bit machines only.

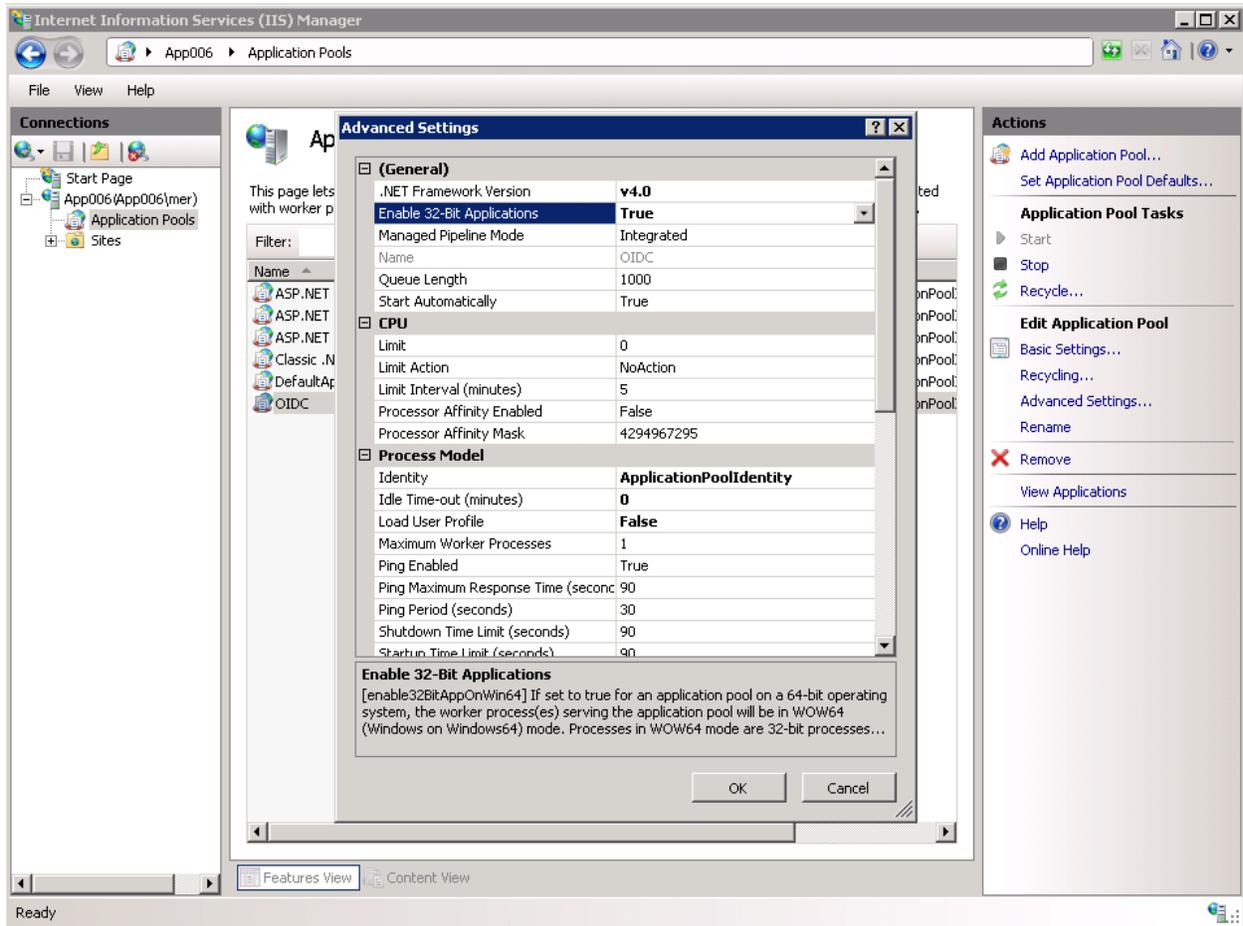


Figure 44 Windows 2008 Server Settings

- Select Idle Time-out and change the value to 0.
- Scroll down to Request Limit and change the value to 0.
- Click OK to save your changes.
- Stay in Internet Information Services (IIS) Manager → Application Pools.

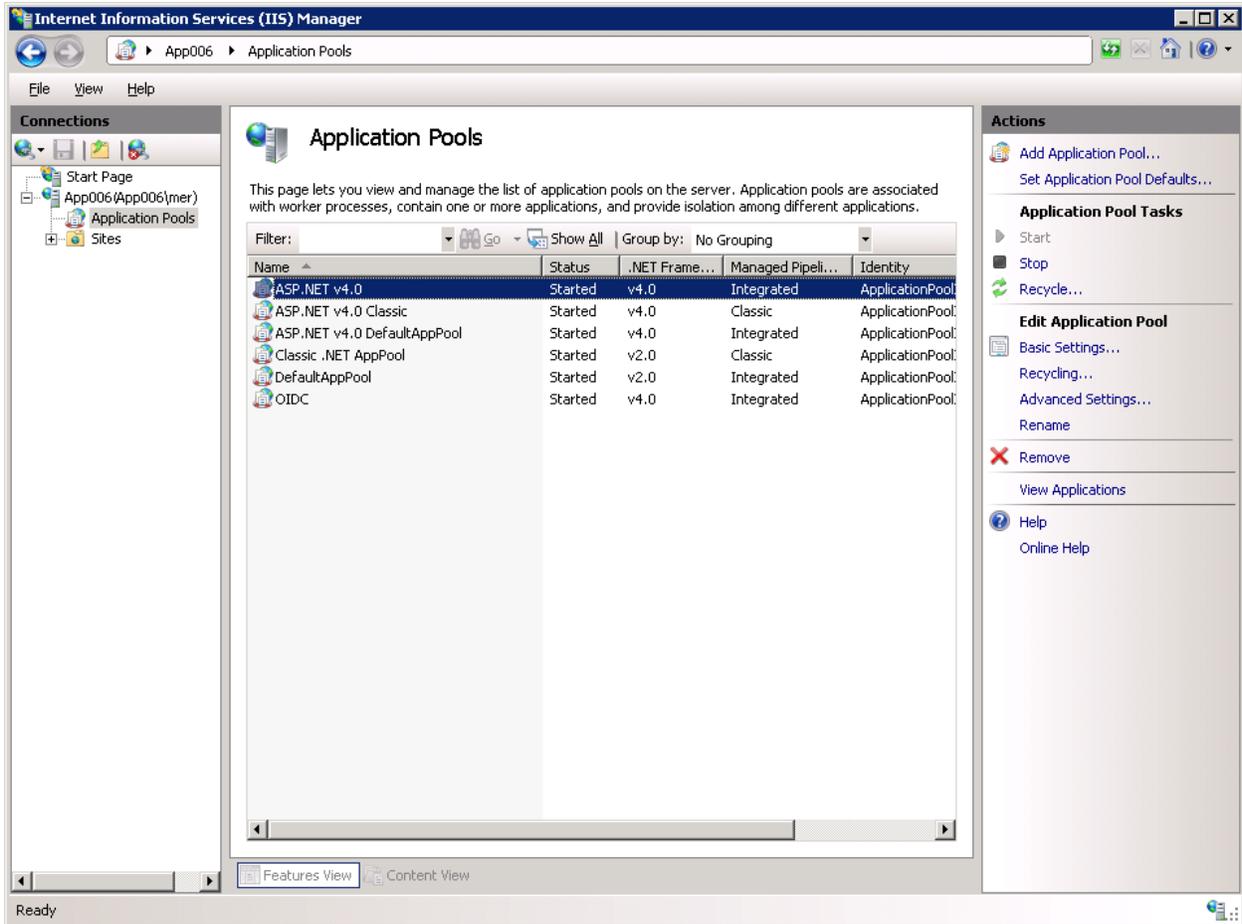


Figure 45 Allowing ASP.NET 4.0

9. Verify that ASP.NET 4.0 is started.

After you have created the new Application Pool, you will need to assign Virtual Directories to it.

10. Stay in IIS Manager. Under Local Server → Sites → select DCP51, right click and select Manage Application → Advanced Settings. A separate window will be displayed.

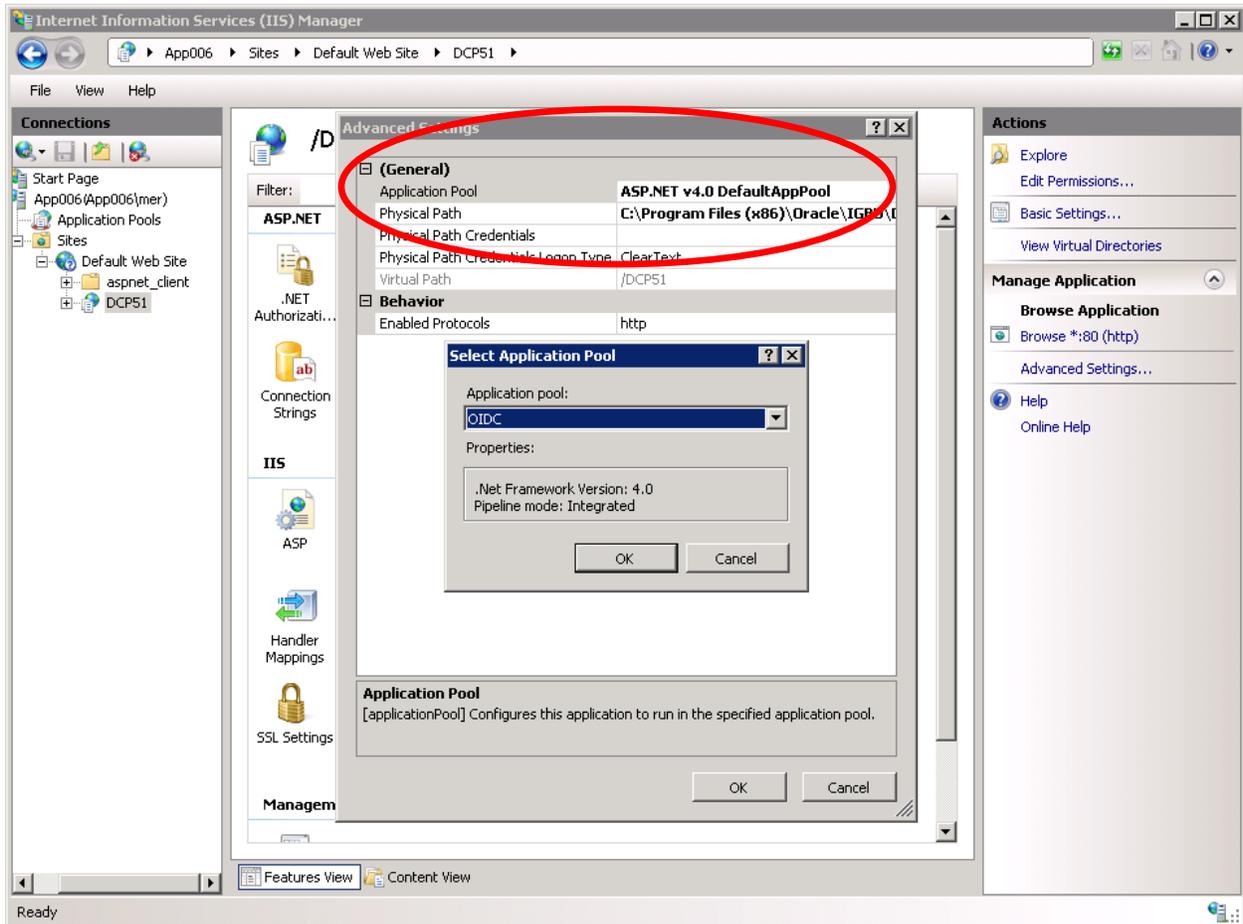


Figure 46 Selecting Virtual Directory Properties

11. Under the General Settings → Application Pool, assign the OIDC Application Pool.
12. Click OK to save your selection.
13. Click OK to save your changes and close the Advanced Settings.
14. Select the DCP51 site again. On the /DCP51 Home, select the Default Documentation option, make sure that default.aspx is listed.

Settings for Compression

The last item to update is compression settings. This is an optional setting.

1. Stay in IIS. Under Local Server → Sites → select DCP51.
2. Select Compression in the listing.
3. Verify that Enable static content compression is checked.

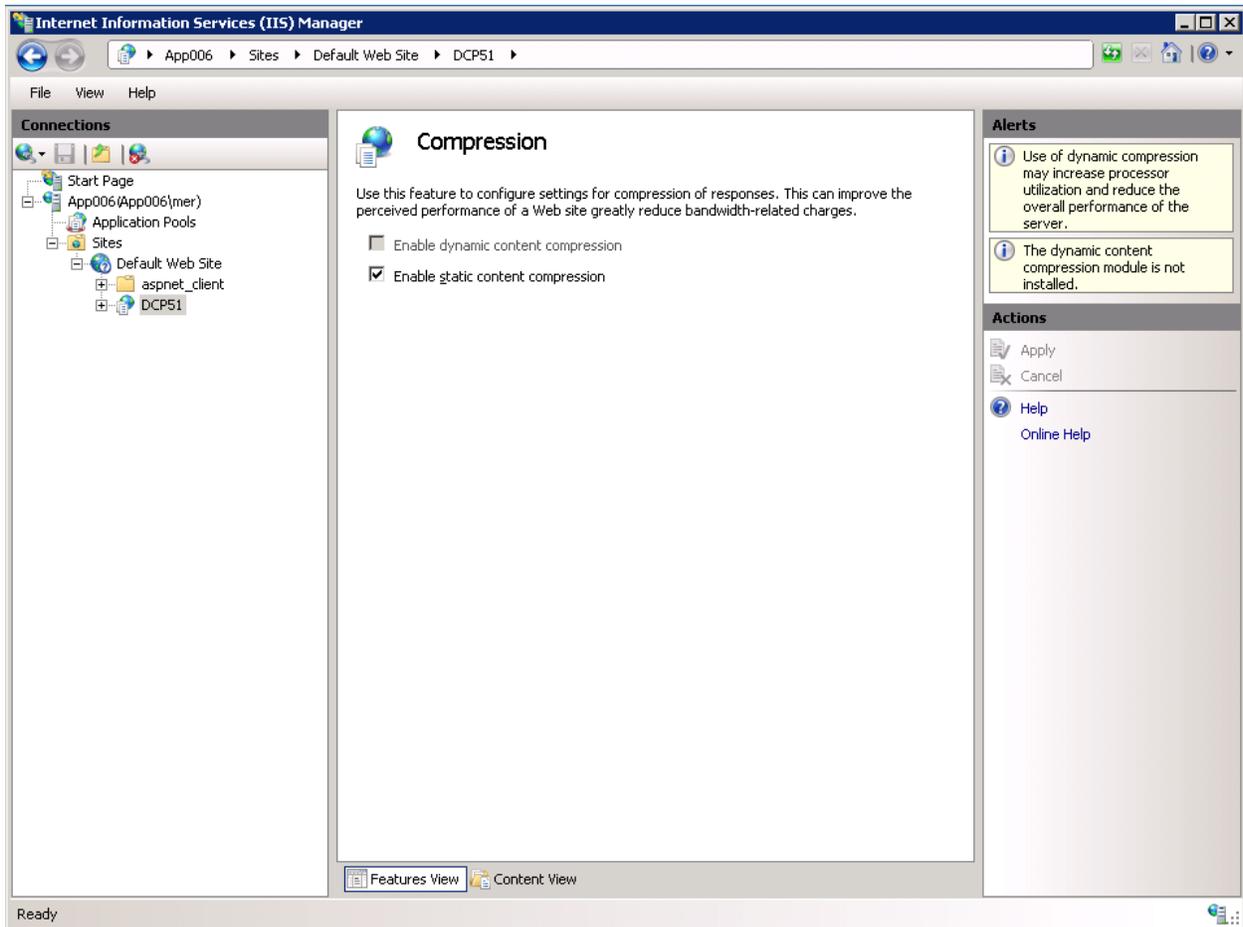


Figure 47 Selecting Properties

4. It is recommended that you restart IIS. On the IIS screen, select the Local Server and right click Stop. Wait a moment and then Start.

Updates to DCPalette

When performing an update, previous DCPalette installations must be completely removed.

Unless otherwise instructed, prior to uninstalling DCPalette, please make a copy of the web.config file. This will allow you to use previous database connections and launch URLs. The copy file can be placed back into the new installation if database connection information has not changed. If database connections are being updated, you will have to re-enter the new information.

Some updates may require a new version of the file to be deployed and updated to meet your deployment requirements. The patch documentation will instruct you in those cases.

Updating DCPalette

Perform any database updates prior to updating the application.

1. From the installation download, locate the DCPalette folder. Locate the setup.exe file and place in a location you can access.
2. Locate the current DCPalette Web.config file. The file is located under the Palette installation. A common path is:

C:\Program Files (x86)\Oracle\IGBU\DataCapture\5.1\Palette

3. Make a copy of the Web.config file and park in a location you can access. You do not need to perform this step if you are updating connection information.
4. Uninstall the current DCPalette. Start->Control Panel->Programs and Features. Make sure DCPalette is completely removed.
5. Run the setup.exe to install the new DCPalette. You can leave the connection information blank if you are using the Web.config copy. If you are updating any database connection information, you will need to enter it.
6. After the install has finished, locate the new DCPalette Web.config file in the Palette folder and rename it. You will not need this file but it is recommended that you not delete it. Skip this step if you have entered new connection information.
7. Take the copy of the Web.config and place it in the Palette folder. Make sure the file name is Web.config. Skip this step if you have entered new connection information.
8. Perform the Server Updates, located on page 63.

LAUNCHING OIDC

Each of the three applications has a launch page. The launch page acts as a default home page for the application. To view and verify each application, open an Internet Explorer web browser to:

http://<host-name or host-ip>:<port_number>/<context-root>

Where:

- *host name* is the name of the server where DCWorksite was deployed
- *host-ip* is the IP address of the server where DCWorksite was deployed
- *port number* is the port used by the OIDC WebLogic domain. This is not needed for DCPalette.
- *context-root* is the name used by the application. There are three URL contexts for OIDC.
 - PCPalette – PCP10
 - DCPalette – DCP51
 - DCWorksite – DCW51

NOTE: *The default context-root value may be changed. Please make note of the exact value for the context-root. Context-root is case sensitive.*

URL Examples

- Launch PCPalette first. This area holds the basic information on which a questionnaire can be created. Information created here is pushed to DCPalette.

For example: http://Server:7001/PCP10

- DCPalette may be launched directly from PCPalette or have direct URL access. Direct access must be allowed at setup. DCPalette will not have a port number. If allowed at setup.

For example: http://Server/DCP51

- DCWorksite can be launched at any time from a URL.

For example: http://Server:7001/DCW51

The URL information should be sent to the users along with the login name and password.

DCPALETTE LAUNCH URL

DCPalette can be launched directly from a URL if the Deployment Only option has been checked however it will operate in a read-only state. This is intended for Production environments where no questionnaire editing is desired but deployment to the DCWorksite runtime is needed.

In normal mode, if an attempt is made to launch DCPalette directly, users will receive a message directing them to launch DCPalette from PCPalette.



Figure 48 OIDC DCPalette

To Launch in Deployment Only Mode:

Open an Internet Explorer web browser either remotely on the local OIDC web server and browse to:

http://<host-name or host-ip>/<context-root>

NOTE: The default context-root is DCP51. Please make note of the exact value for the context-root. Context-root is not case sensitive for DC Palette.

OIDC CONFIG XML

With the OIDC DCWorksite 5.1.0 release, a new user-maintainable configuration file, “oidc_config.xml” is being introduced. The purpose of this file is to provide a place outside the application hierarchy (open directory or EAR) where settings for active skin, application title, callout environments, etc. can be maintained and not overwritten when the application is redeployed. A base configuration file will be generated upon first launch of OIDC.

OVERVIEW

The new oidc_config.xml file holds custom deployment configuration settings. This file exists outside of the Data Capture EAR and resides as a sibling file to the Data Capture EAR file. This prevents subsequent Data Capture deployments from overwriting the config settings.

 oidc_config.xml	1/7/2013 2:12 PM	XML File
 OracleInsuranceDataCapture_application1.ear	1/8/2013 8:27 AM	EAR File
 pcp.ear	1/8/2013 6:27 AM	EAR File

Where does it go?

You can place the oidc_config.xml anywhere on the local drive of the machine where OIDC was deployed. The OIDC application must have access. . However, it will probably be most convenient to place it in the same directory where your application EAR or open directory resides.

For example

Open directory deployment:

You can create a designated folder where the oidc_config.xml can be placed.



Figure 49 Location of the oidc_config.xml File

EAR deployment:

Or you can leave it in the folder where the DCWorksite .EAR file was exploded.



Figure 50 oidc_config.xml File in the Exploded .EAR File

You can put the oidc_config.xml file anywhere you want, as long as you point the oracle.insurance.dc.appDirectory property at the directory where you want it to go.

How does OIDC find it?

For WebLogic, the location of the oidc_config.xml file is conveyed to OIDC by means of a Java property the application deployer must set in the WebLogic startup script for the domain in which OIDC is deployed. Please see WebLogic Startup Options on page 34.

SAMPLE OIDC_CONFIG.XML

No changes are needed to the oidc_config.xml at this point. This sample demonstrates some of the information that this file may hold.

```
<oidc>
  <appSettings>
    <!--
    *****
    *****
      General application settings

      <appTitle>
        optional text that overrides the default text that is displayed in the branding bar
      <skin>
        the name of the skin that that is used to control the look and feel of the application
      <depQuestionInd>
        specifies whether or not the dependent question indicator should be displayed ("true" or
        "false")
      *****
      *****
    -->
    <appTitle/>
    <skin>oidcFusionFx</skin>
    <depQuestionInd>>false</depQuestionInd>
  </appSettings>

  <calloutSettings>
    <activities>
      <!--
```

```
*****
*****
```

Definitions for Activity settings

Each known Activity has an element <activity id="act_id">, where "act_id" is the name by which the Activity is known. Within each <activity> the following child elements are defined:

```
<envRef>
    the name of the callout environment (see <environments>) to be used for the activity.
<defaultSvcName> (optional)
    the name of the serviceAdaptorName to be used for Activities that do not supply this
value via
    answer map settings. (eg., GetUsers)
```

```
*****
*****
```

```
-->
<activity id="ListOfValues">
  <envRef>PROTOTYPE</envRef>
  <defaultSvcName/>
</activity>
<activity id="PolicySubmit">
  <envRef>PROTOTYPE</envRef>
  <defaultSvcName/>
</activity>
<activity id="GetUsers">
  <envRef>PROTOTYPE</envRef>
  <defaultSvcName>GetUsersActivityAdaptor</defaultSvcName>
</activity>
</activities>
<environments>
  <!--
*****
*****
```

Definitions for callout environments

Each environment has an element <environment id="env_id">, where "env_id" is the name by which the environment is known. Within each <environment> the following child elements are defined:

```
<adaptor>
    the name of the adaptor class to be used for the callout. If a value is supplied for an
    Activity callouts, it is ignored.
<invoker>
    the name of the invoker class to be used for the callout. Valid values are
"IBSSRatingServiceInvoker"
    and "RatingServiceInvoker"
<endpoint>
    the URL of the WSDL for the callout gateway (eg., IBSS, IBFA, service bus, or other
service)
<userid>
    a userid to be used by the callout adaptor to connect with its inner business service
<password>
    a password to be used by the callout adaptor to connect with its inner business service
```

```
*****
*****
```

```
-->
```

```
<environment id="OIPARquestor">
  <adaptor>oracle.insurance.dc.callout.impl.SoftServiceAdaptor</adaptor>
  <invoker>oracle.insurance.dc.callout.impl.IBSSRatingServiceInvoker</invoker>
</environment>
<environment id="HODemoPublicDataRequestor">
  <adaptor>oracle.insurance.dc.callout.impl.SoftServiceAdaptor</adaptor>
  <invoker>oracle.insurance.dc.callout.impl.RatingServiceInvoker</invoker>
</environment>
<environment id="PROTOTYPE">
  <adaptor/>
  <invoker>oracle.insurance.dc.callout.impl.IBSSRatingServiceInvoker</invoker>
</environment>
<environment id="IBRatingRequestor">
  <adaptor>oracle.insurance.dc.callout.impl.RatingServiceAdaptor</adaptor>
  <invoker>oracle.insurance.dc.callout.impl.RatingServiceInvoker</invoker>
</environment>
</environments>
</calloutSettings>
</oidc>
```

MANUALLY UPDATING DCPALETTE WEB.CONFIG FILE

You can manually update the connection string information in the web.config file. If you were able to complete the connection string information in the installation, you do not need to perform this step. If you are experiencing trouble with the application, you can manually check and update the connection string information.

NOTE: *It is strongly recommended that you make a copy of the current web.config file before you make any changes. In the event you need to do a rollback, you will have a working copy to restore.*

1. Make sure the DCPalette database has been restored, and the DCWorksite database has been created. Return to the server where DCPalette is installed. Follow the local path to the location of DCPalette. The local path will default to the initial installation path or a path selected by the installer. A common path is:

C:\Program Files (x86)\Oracle\IGBU\DataCapture\5.1\Palette

2. Open the **web.config** file in Notepad.
3. Go down to the **connectionStrings** section. You will have to manually enter in the connection string information. There are four fields in each of the four connection strings that must be completed.

The highlighted fields in the example below demonstrate where you will need to make an entry.

No Entries:

```
<connectionStrings>
  <add name="QuestionnaireDB" connectionString="" providerName="System.Data.SqlClient" />
  <add name="SqlDatabase" connectionString="" providerName="System.Data.SqlClient" />
  <add name="OracleDatabase" connectionString="" providerName="Oracle.DataAccess.Client" />
</connectionStrings>
```

Update Entries:

```
<connectionStrings>
  <add name="QuestionnaireDB" connectionString="Data Source=10.100.10.10\SQL;Initial
Catalog=OIDC_5.1;Persist Security Info=True;User ID=sa;Password=password;Enlist=False"
providerName="System.Data.SqlClient" />
  <add name="SqlDatabase" connectionString="" providerName="System.Data.SqlClient" />
  <add name="OracleDatabase" connectionString="USER ID=DCW_51;PASSWORD=password;DATA
SOURCE=DB002" providerName="Oracle.DataAccess.Client" />
</connectionStrings>
```

For QuestionnaireDB:

- **Password** is the password for the SQL Server database user.
- **UserID** is the user ID for the database. It is recommended that you use the sa login and password.

- **Initial Catalog** is the name of the database.
- **Data Source** is the name or IP address of the server where the database is located.

For OracleDatabase:

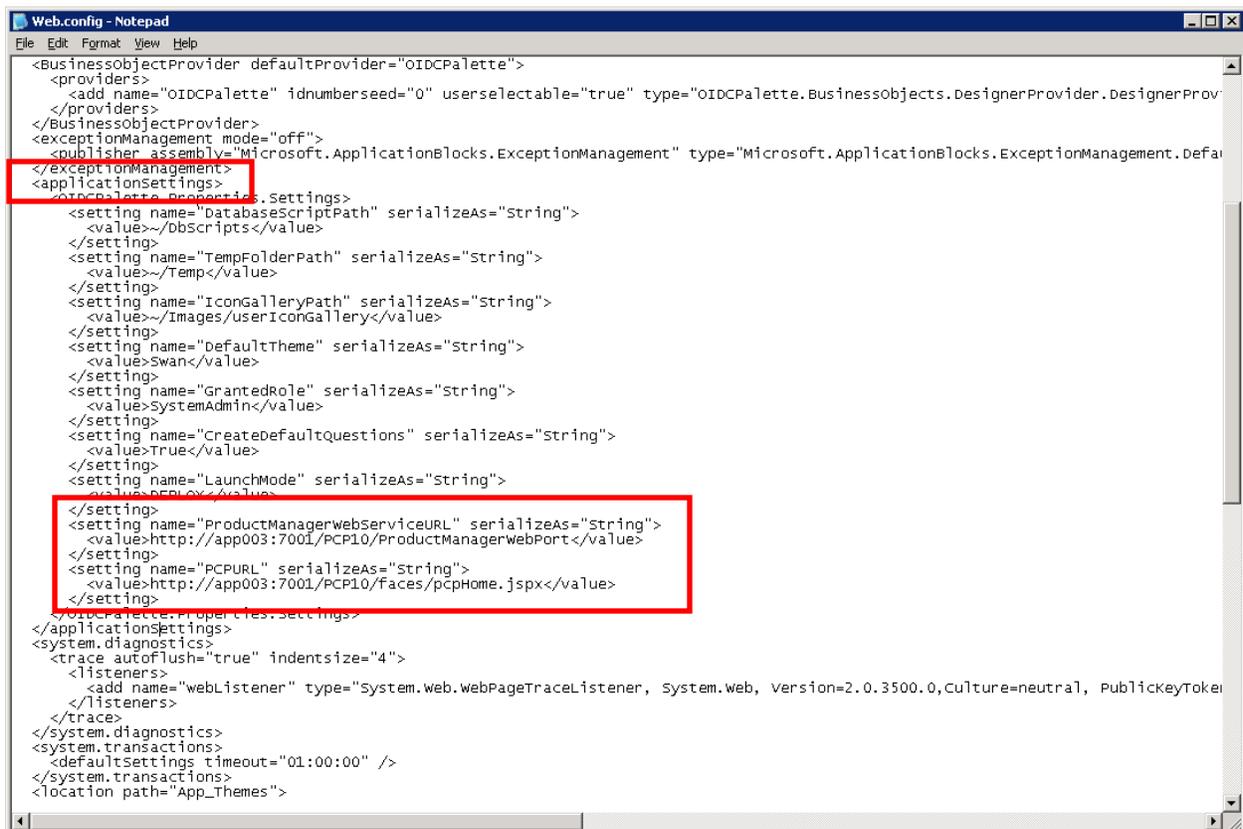
- **Password** is the password for the Oracle database user.
- **UserID** is the name of the schema owner.
- **Data Source** is the name or IP address of the server where the database is located and the instance ID.

4. **Save** your changes. No error message will be thrown for incorrect entries.

To test your entries, try accessing the application. If you cannot access the application, please re-check your entries.

Updating the Launch URLs

Launch URLs that were not entered at setup or need to be adjusted can be updated in the web.config file found on the server where DCPalette was installed. The default setting is localhost:7001.



```

Web.config - Notepad
File Edit Format View Help
<BusinessObjectProvider defaultProvider="OIDCPalette">
  <providers>
    <add name="OIDCPalette" idnumberseed="0" userselectable="true" type="OIDCPalette.BusinessObjects.DesignerProvider.DesignerProv
  </providers>
</BusinessObjectProvider>
<exceptionManagement mode="off">
  <publisher assembly="Microsoft.ApplicationBlocks.ExceptionManagement" type="Microsoft.ApplicationBlocks.ExceptionManagement.Default
</exceptionManagement>
<applicationSettings>
  <OIDCPalette.Properties.Settings>
    <setting name="DatabaseScriptPath" serializeAs="String">
      <value>~/DbScripts</value>
    </setting>
    <setting name="TempFolderPath" serializeAs="String">
      <value>~/Temp</value>
    </setting>
    <setting name="IconGalleryPath" serializeAs="String">
      <value>~/Images/userIconGallery</value>
    </setting>
    <setting name="DefaultTheme" serializeAs="String">
      <value>Swan</value>
    </setting>
    <setting name="GrantedRole" serializeAs="String">
      <value>SystemAdmin</value>
    </setting>
    <setting name="CreateDefaultQuestions" serializeAs="String">
      <value>True</value>
    </setting>
    <setting name="LaunchMode" serializeAs="String">
      <value>PCP10</value>
    </setting>
    <setting name="ProductManagerWebServiceURL" serializeAs="String">
      <value>http://app003:7001/PCP10/ProductManagerWebPort</value>
    </setting>
    <setting name="PCPURL" serializeAs="String">
      <value>http://app003:7001/PCP10/Faces/pcpHome.aspx</value>
    </setting>
  </OIDCPalette.Properties.Settings>
</applicationSettings>
<system.diagnostics>
  <trace autoflush="true" indentsize="4">
    <listeners>
      <add name="webListener" type="System.Web.WebPageTraceListener, System.Web, Version=2.0.3500.0, Culture=neutral, PublicKeyToken
    </listeners>
  </trace>
</system.diagnostics>
<system.transactions>
  <defaultSettings timeout="01:00:00" />
</system.transactions>
<location path="App_Themes">

```

Figure 51 Updating the WebLogic Location

1. Return to the server where DCPalette is installed. Follow the local path to the location of DCPalette. The local path will default to the initial installation path or a path selected by the installer. A common path is:

C:\Program Files (x86)\Oracle\IGBU\DataCapture\5.1\Palette

2. Open the **web.config** file in Notepad.
3. Go down to the **applicationSettings** section. You will have to manually update launch information. There is one field in each of the two launch settings that can be updated.

The highlighted fields in the example below demonstrate where you will need to make an entry.

No Entries:

```
<applicationSettings>
  <OIDCPalette.Properties.Settings>
    <setting name="DatabaseScriptPath" serializeAs="String">
      <value>~/DbScripts</value>
    </setting>
    <setting name="TempFolderPath" serializeAs="String">
      <value>~/Temp</value>
    </setting>
    <setting name="IconGalleryPath" serializeAs="String">
      <value>~/Images/userIconGallery</value>
    </setting>
    <setting name="DefaultTheme" serializeAs="String">
      <value>Swan</value>
    </setting>
    <setting name="GrantedRole" serializeAs="String">
      <value>SystemAdmin</value>
    </setting>
    <setting name="CreateDefaultQuestions" serializeAs="String">
      <value>True</value>
    </setting>
    <setting name="LaunchMode" serializeAs="String">
      <value></value>
    </setting>
    <setting name="ProductManagerWebServiceURL" serializeAs="String">
      <value>http://localhost:7001/PCP10/ProductManagerWebPort</value>
    </setting>
    <setting name="PCPURL" serializeAs="String">
      <value>http://localhost:7001/PCP10/faces/pcpHome.jspx</value>
    </setting>
  </OIDCPalette.Properties.Settings>
</applicationSettings>
```

Update Entries:

```
<applicationSettings>
  <OIDCPalette.Properties.Settings>
    <setting name="DatabaseScriptPath" serializeAs="String">
      <value>~/DbScripts</value>
    </setting>
    <setting name="TempFolderPath" serializeAs="String">
```

```
<value>~/Temp</value>
</setting>
<setting name="IconGalleryPath" serializeAs="String">
  <value>~/Images/userIconGallery</value>
</setting>
<setting name="DefaultTheme" serializeAs="String">
  <value>Swan</value>
</setting>
<setting name="GrantedRole" serializeAs="String">
  <value>SystemAdmin</value>
</setting>
<setting name="CreateDefaultQuestions" serializeAs="String">
  <value>True</value>
</setting>
<setting name="LaunchMode" serializeAs="String">
  <value>DEPLOY</value>
</setting>
<setting name="ProductManagerWebServiceURL" serializeAs="String">
  <value>http://appserver001:7002/PCP10/ProductManagerWebPort</value>
</setting>
<setting name="PCPURL" serializeAs="String">
  <value>http://appserver001:7002/PCP10/faces/pcpHome.jspx</value>
</setting>
</OIDCPalette.Properties.Settings>
</applicationSettings>
```

For ProductManagerWebServiceURL:

- **Localhost** is the server where PCPalette has been deployed.
- **7001** is the default port number for WebLogic. Update to the port number where PCPalette has been deployed.

For PCPURL:

- **Localhost** is the server where PCPalette has been deployed.
- **7001** is the default port number for WebLogic. Update to the port number where PCPalette has been deployed.

NOTE: *LaunchMode* determines the general operational behavior for DCPalette. *DEPLOY* indicates that DCPalette will work in a deployment only mode and no editing of content will be allowed. This is desirable when DCPalette is being used in a Test or Production environment and you want to prevent any changes from being made to your questionnaire content. If the field is blank, DCPalette will allow access to all of its functionality.

4. Verify your entries and **Save** your changes. No error message will be thrown for incorrect entries.

To test your entries, try accessing the application. If you cannot access the application or receive a “configuration file is not well-formed XML” error message, please re-check your entries.

CONTACTING MY ORACLE SUPPORT

If you need assistance with an Oracle Insurance Insbridge Rating and Underwriting System product, please log a Service Request using My Oracle Support at <https://support.oracle.com/>.

Address any additional inquiries to:

Oracle Corporation
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Redwood Shores, CA 94065
U.S.A.

Worldwide Inquiries:
Phone: +1.650.506.7000
Fax: +1.650.506.7200
oracle.com

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