Rapid Deployment of Oracle® Hyperion Financial Close Management Domain for Release 11.1.2.3.000
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About This Document

This document presents recommended steps to build a typical Oracle® Hyperion Financial Close Management development environment comprising the following products on one server running Microsoft Windows.

- Financial Close Management
- Required products including Oracle Database and Oracle WebLogic Server.
- Deployment Requirements

Deployment Requirements

Server

Table 1 Server Requirements

<table>
<thead>
<tr>
<th>Server Operating System</th>
<th>Windows 2008 R2 x64</th>
</tr>
</thead>
<tbody>
<tr>
<td>Processor</td>
<td>Quad core</td>
</tr>
<tr>
<td>Memory</td>
<td>16 GB RAM</td>
</tr>
<tr>
<td>Disk</td>
<td>200 GB Disk</td>
</tr>
<tr>
<td>Other Software</td>
<td>A program, such as 7-Zip or WinZip, to extract the contents of media packs</td>
</tr>
</tbody>
</table>

Disabling User Account Control

To turn off user account control:

1. Log on to the server using the deployment account (the admin user account to install EPM).
2. On the server, click Start, and then Control Panel.
3. In Control Panel, click User Accounts, and then User Accounts.
4. In Make Changes to your user account, click Change User Account Control settings.
5. Drag the user account control slider to Never Notify.
IPv6 Network

This is prerequisites to test IPv6 Network on your environment. If your machine has IPv6 turned on then you have to make sure IPv6 routing is properly working in your network. If your network doesn't support IPv6 then you have to turn off IPv6 device(s) before you start EPM installation.

IPv6 network testing

- Run `ipconfig /all` from Command Prompt.
If there is any device using IPv6 such as the following example then you need to test IPv6 connection from other remote machine.

From other remote machine, ping your machine (Machine A) from a Command Prompt as follows:

```
ping -6 Machine A
```

where <Machine A> is the name or IP Address of your machine.

If ping returns **Ping request could not find host <Machine A>** then your network
doesn't support IPv6 and you must turn off IPv6 before you start EPM installation.

**Turning Off IPv6**

- From Local Area Connection Properties, unchecked IPv6:
  
  a. From the **Start** menu, right click on Network and click on Properties.

  ![Network and Sharing Center](image)

  b. From **Network** and **Sharing Center** screen, click on **Local Area Connection**

  c. From **Local Area Connection Properties**, clear IPv6.
• From Command Prompt, run `ipconfig /all` and check if there is no process using IPv6 (this check has to done every time you restart the machine).

For example the following illustrates Teredo is still using IPv6.
To disable devices using IPv6 do the following

a. From the Start menu, Click **Administrative Tools**, and then **Computer Management**
b. Go to Device Manager
c. Form View menu, click **Show hidden devices**
d. Expand Network adapters
e. Right click on **Teredo Tunneling Pseudo-Interface** (or any other device that is using IPv6) and disable it

**Computer Management**

<table>
<thead>
<tr>
<th>File</th>
<th>Action</th>
<th>View</th>
<th>Help</th>
</tr>
</thead>
<tbody>
<tr>
<td><img src="image" alt="Computer Management" /></td>
<td><img src="image" alt="System Tools" /></td>
<td><img src="image" alt="Device Manager" /></td>
<td><img src="image" alt="Services and Applications" /></td>
</tr>
</tbody>
</table>

- **Run** `ipconfig /all` **again** from the Command Prompt to make sure there are no longer any devices using IPv6. If you find more then repeat above steps to turn it off until there is no device using IPv6.
Deployment Process

The deployment process involves the following steps and takes approximately six hours:

Step 1: **Downloading Installation Files** (approximately 50 minutes)

Step 2: **Installing and Configuring the Database** (approximately 20 minutes)

Step 3: **Installing and Configuring EPM System** (approximately 170 minutes)

Step 1: **Downloading Installation Files**

To download media packs from the Oracle Software Delivery Cloud:

1. Create two folders named EPM_rapid_downloads and EPM_rapid_unzipped on your server. The file path should not contain spaces.
3. In the Oracle Software Delivery Cloud, click Sign In/Register.
4. In Sign In, enter the Oracle Software Delivery Cloud user name and password, and then click Sign In.
5. On Terms & Restrictions, read and accept the Trial License and Export Restrictions agreements, and then click Continue.
1. In Media Pack Search, search for Oracle Database product pack for Microsoft Windows x64 (64-bit), and then select Go.
2. From Results section, select Oracle Database 11g Release 2 (11.2.0.1.0) Media Pack for Microsoft Windows x64 (64-bit), and then click Continue.

6. Download part numbers to install Oracle Database 11g
3. Download the following part numbers to EPM_rapid_downloads:

**Table 2: Database Part Numbers to Download**

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>V20610-01 Part 1 of 2</td>
<td>Oracle Database 11g Release 2 (11.2.0.1.0) for Microsoft Windows x64 (64-bit) (Part 1 of 2)</td>
</tr>
<tr>
<td>V20610-01 Part 2 of 2</td>
<td>Oracle Database 11g Release 2 (11.2.0.1.0) for Microsoft Windows x64 (64-bit) (Part 2 of 2)</td>
</tr>
</tbody>
</table>

   a. From the browser, navigate back to Media Pack Search.
   b. In Media Pack Search, search for Oracle Enterprise Performance Management System for Microsoft Windows x64 (64-bit) platform, and then select Go to start the search.
   c. In Results, select Oracle Enterprise Performance Management (11.1.2.3.0) Media Pack for Microsoft Windows x64 (64-bit), and then click Continue.
d. Download the following part numbers to EPM_rapid_downloads:

Table 3 EPM System Part Numbers to Download

<table>
<thead>
<tr>
<th>Part Number</th>
<th>Name</th>
</tr>
</thead>
<tbody>
<tr>
<td>V37944-01</td>
<td>EPM System Release 11.1.2.3.0 for Microsoft Windows (64-bit) Part 1</td>
</tr>
<tr>
<td>V37945-01</td>
<td>EPM System Release 11.1.2.3.0 for Microsoft Windows (64-bit) Part 2</td>
</tr>
<tr>
<td>V37933-01</td>
<td>EPM System Release 11.1.2.3.0 Part 3</td>
</tr>
<tr>
<td>V37946-01</td>
<td>EPM System Release 11.1.2.3.0 for Microsoft Windows (64-bit) Part 4</td>
</tr>
<tr>
<td>V37947-01</td>
<td>EPM System Release 11.1.2.3.0 for Microsoft Windows (64-bit) Part 5</td>
</tr>
<tr>
<td>V37948-01</td>
<td>EPM System Release 11.1.2.3.0 for Microsoft Windows (64-bit) Part 6</td>
</tr>
<tr>
<td>V37949-01</td>
<td>EPM System Release 11.1.2.3.0 for Microsoft Windows (64-bit) Part 7</td>
</tr>
<tr>
<td>V37950-01</td>
<td>EPM System Release 11.1.2.3.0 for Microsoft Windows (64-bit) Oracle HTTP Server</td>
</tr>
<tr>
<td>-----------</td>
<td>--------------------------------------------------------------------------------------------------</td>
</tr>
<tr>
<td>V37380-01</td>
<td>Oracle SOA Suite 11g Patch Set 6 (11.1.1.7.0) (Part 1 of 2)</td>
</tr>
<tr>
<td>V37380-01 Part 2 of 2</td>
<td>Oracle SOA Suite 11g Patch Set 6 (11.1.1.7.0) (Part 2 of 2)</td>
</tr>
<tr>
<td>V37395-01</td>
<td>Oracle Fusion Middleware Repository Creation Utility 11g (11.1.1.7.0) for Microsoft Windows x64 (64-bit)</td>
</tr>
</tbody>
</table>

8. Using a program, for example 7-Zip, extract the contents of the downloaded media packs:
   a. V37380-01_1of2.zip and V37380-01_2of2.zip into the EPM_rapid_unzipped\SOA\folder;
   b. All other packs into the root of EPM_rapid_unzipped. You will be warned about overwriting some files. Select Yes.

---

### Step 2: Installing and Configuring the Database

To install and configure Oracle Database:

1. Using Windows Explorer, navigate to EPM_rapid_unzipped\database, and then double-click setup.exe to launch the installer.
2. In Configure Security Updates, uncheck I wish to receive security updates via My Oracle Support, and then select Next.

A warning that you did not provide an email address is displayed.
3. In **Email Address Not Specified**, click **Yes**.

4. In **Select Installation Option**, ensure that Create and configure a database is selected, and then click **Next**.
5. In **System Class**, select **Server Class**, and then click **Next**.

6. In **Grid Installation Options**, select **Single instance database installation**, and then click **Next**.
7. In **Select Install Type**, ensure that **Typical install** is selected, and then click **Next**.

8. In **Typical Install Configuration**, enter the following information. Keep the default values for all other fields, then click **Next**.
- **Global Database Name** — Enter Database System ID (SID) to uniquely identify the database on a system. Make sure that SID doesn't contain dots.

  For example: epmrapid

- **Administrative Password** — Enter a password (it will be password for sys user).
- **Confirm Password** — Reenter the password.

9. In **Summary**, click **Finish**.
10. In **Install Product**, click **Finish**.

11. After completing the installation process, the installer runs the **Database Configuration Assistant**.
12. In **Database Configuration Assistant** summary, click **OK**.
13. In **Oracle Database 11g Release 2 Installer**, click **Close**.
14. Create database user fcm, who will use default table space, and update database parameter values.
   a. On your server, select **Start**, then **All Programs**, then **Oracle - OraDb 11g_home1**, then **Application Development**, and then **SQL Plus**.
   b. For **Enter user name**, enter SYS as SYSDBA.
   c. For **Password**, enter the sys user password.
   d. Create a database user named **fcm**, and assign roles and privileges.
      i. Execute the following statement.

```
create user fcm identified by welcome1;
```

ii. Grant CONNECT and RESOURCE roles, and CREATE SESSION and CREATE VIEW privileges to fcm by entering the following command:

```
grant RESOURCE,CONNECT,CREATE SESSION,CREATE VIEW to fcm;
```
e. Create a database user named **DEV_ODI_REPO** (for ODI master repository), and assign roles and privileges
   
i. Execute the following statement.

   ```sql
   create user DEV_ODI_REPO identified by welcome1
   default tablespace users temporary tablespace temp;
   ```

   ii. Grant CONNECT and RESOURCE roles, and CREATE SESSION and CREATE VIEW privileges to DEV_ODI_REPO by entering the following command:

   ```sql
   grant RESOURCE,CONNECT,CREATE SESSION,CREATE VIEW to DEV_ODI_REPO;
   ```
f. Modify the database processes and sessions parameters by executing the following statements:

alter system set processes = 450 scope = spfile;
alter system set sessions = 475 scope = spfile;

g. Shutdown and then restart the database using the following commands:

shutdown immediate;

startup;
Step 3: Installing and Configuring EPM System

To install EPM System files:

- In Windows Explorer, navigate to the EPM_rapid_unzipped folder, and double-click installTool.cmd.

- In EPM System Installer, select a language, and click OK.

- On the Welcome screen, click Next.

- On the Destination screen, select the location for the Middleware Home directory, and click
Next. The default directory is c:\oracle\middleware.

- On the Installation Type screen, select **New installation** type, and click **Next**.

- On the Product Selection screen, select **Foundation Components, Financial Close**.
Management and FDM Enterprise Edition (“Oracle Database Client-32 bit” and “Financial Management ADM Driver” will be auto-selected) and click Next.

- On the Confirmation screen, click Next.
On the Summary screen, click **Finish**.
Installing and Configuring SOA Suite

Installing and configuring SOA Suite requires you to perform the following tasks:

**Running the Repository Creation Utility**
Navigate to the EPM_rapid_unzipped\rcuHome\bin folder and run `rcu.bat`.

- On the Welcome screen, click **Next**.

- On the Create Repository screen, select **Create**, and then click **Next**.
On the Database Connection Details screen, enter the database connection details, you wish to configure SOA and Click **Next**.

- **Host Name**: Enter the name of your machine
- **Port**: 1521
- **Service name**: Enter the SID of the database. (SID is available in C:\app\<user>\product\11.2.0\dbhome_1\NETWORK\ADMIN\tnsnames.ora)
- **User name**: sys
- **Password**: Enter the password for user sys.

At the prerequisites confirmation prompt, click **OK**. If a warning prompt regarding the
character set is displayed, click **Ignore**.

- On the Select Components screen, in the **Create a new prefix** text box, leave a default prefix for the schema tables.

- In the Component list, **Under SOA and BPM Infrastructure** select **SOA Infrastructure**. You will see that, **User Messaging Service** under **SOA and BPM Infrastructure** and **Metadata Services** under **AS Common Schemas** get selected automatically when you selected **SOA Infrastructure**. Click **Next**.

- At the prerequisites confirmation prompt, click **OK**.
On the Schema Passwords screen, select **Use the same password for all schemas**, enter a password, and click **Next**.
On the Map Tablespace screen, leave the default tablespace names and click **Next**.

At the confirmation prompt, click **OK**.

At the completion prompt, click **OK**.
On the Summary screen, click Create. This may take a while.
On the Completion Summary screen, click **Close**.
Installing SOA Suite

When you install SOA Suite, select the same Middleware Home directory that you specified for Financial Close Management. The Middleware Home directory contains the WebLogic installation, which is required for installing SOA Suite.

- Open a Command prompt and Navigate to the EPM_rapid_unzipped\SOA\Disk1 folder in the SOA Suite installation directory and provide following command.

\[\text{Setup.exe -jreLoc c:\Oracle\Middleware\jdk160_35}\] (where -jreLoc value has to be your JDK location)

- On the Welcome screen, click Next.

- Select Skip Software Updates and click Next.
On the Prerequisites screen, click **Next**.

On the Specify Installation Location screen, verify that the Middleware Home directory is the

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directory that you selected when you installed the EPM Components, and click **Next**.

Please ensure to modify the Middleware Home that is defaulted.

![Image of Oracle Middleware Home and Oracle Home Directory fields]

- On the Application Server screen, verify that the WebLogic Server is selected, and click **Next**.

![Image of Application Server screen with WebLogic Server option selected]

- On the Installation Summary screen, click **Install**.
On the Installation Progress screen, when the Installation Successful message is displayed, click **Next**.

On the Installation Complete screen, click **Finish**.
### Install Oracle SOA Suite

#### Directory Details
- Middleware Home Location: C:\Oracle\Middleware
- Oracle Home Location: C:\Oracle\Middleware\Oracle_SOA1
- Application Server Type: WebLogic Server
- Application Server Location: C:\Oracle\Middleware

#### Disk Space
- Oracle Home Size: 1252 MB
- Available: 107636 MB

#### Applications
- Oracle BPEL Process, Mediator, Rules, B2B, Human Workflow
- Oracle Business Activity Monitoring (BAM)

Save Installation Details: [Save]

Oracle SOA Suite installation completed successfully
Configuring SOA Suite

After installing SOA Suite and running the Repository Creation Utility, you configure SOA Suite and create a WebLogic domain. You later extend this WebLogic domain for Financial Close Management.

- Select Start, then Programs, then Oracle SOA 11g - Home1, and then Configure Application Server.
  
  (You can also start it with config.cmd. For example: C:\Oracle\Middleware\Oracle_SOA1\common\bin\config.cmd)

- Select Create a new WebLogic domain, and click Next.

  ○ Create a new WebLogic domain
    
    Create a WebLogic domain in your projects directory.
  
  ○ Extend an existing WebLogic domain
    
    Use this option to add new components to an existing domain and modify configuration settings.
On the Select Domain Source screen, select **Generate a domain configured automatically to support the following products**, then select Oracle SOA Suite, Oracle Enterprise Manager, Oracle WSM Policy Manager, Oracle JRF Webservices Asynchronous Services, and Oracle JRF, and click Next.

You will see that, Oracle WSM Policy Manager and Oracle JRF get selected automatically when you selected Oracle SOA Suite.
On the Specify Domain Name and Location screen, enter a domain name and accept the default locations. You must use the same domain name when you configure the EPM components. In this example, the domain name is base_domain.

![Domain Name and Location Screen](image)

On the Configure User Name and Password screen, enter a user name and password for the WebLogic domain administrator. You use this domain administrator name and password for the EPM components as well. In this example, the domain administrator name is weblogic.

![User Name and Password Screen](image)
• On the WebLogic Domain Startup Mode screen, select **Production Mode**, then select the Jrockit location, and click **Next**.

![WebLogic Domain Startup Mode screen]

• On the Configure JDBC Component Schema screen, select each **component schema** and provide the **database connection information**,
  - DBMS/Service: Enter the SID of the database. (SID is available in `C:\app\<user>\product\11.2.0\dbhome_1\NETWORK\ADMIN\tnsnames.ora`)
  - Host Name: Enter the name of your machine
  - Port: 1521
  - Schema password: password for all schemas that you entered in the Repository Creation Utility.

When finished, click **Next**.
• On the Test Component Schemas screen, verify that the connections to your data sources are successful, and click Next.

• On the Select Optional Configuration screen, leave the default settings and click Next.
- On the Configuration Summary screen, click **Create**.

![Configuration Summary screen](image1)

- On the Creating Domain screen, when the process is complete, click **Done**.

![Creating Domain screen](image2)
Configuring EPM System Components

The database schemas for the EPM components are created during the configuration process.

During the configuration process you must provide valid Oracle database user names and passwords under which to create the schemas. You perform the Deploy to SOA configuration task after you restart WebLogic Server.

Configuring Foundation Services, Financial Close Management and FDM

From the Windows Start menu, select Programs, then Oracle EPM System, then Foundation Services, and then EPM System Configurator (all instances).

(You can also start it with configtool.bat. For example: C:\Oracle\Middleware\EPMSystem11R1\common\config\11.1.2.0\configtool.bat)

- Accept the defaults, and click Next.

- Select Perform first-time configuration of Shared Services database, enter the database connection details for the Shared Service database:
  - **Server**: Enter the name of your machine
  - **Port**: 1521
  - **Service Name or SID**: Enter the SID of the database. (SID is available in C:\app\<user>\product\11.2.0\dbhome_1\NETWORK\ADMIN\tnsnames.ora)
- **User Name**: fcm
- **Password**: welcome1

When finished, click **Next**.

- Accept the default options under Hyperion Foundation. For Financial Close, select **Deploy to application server** and **Configure Database**. Do **not** select Deploy to SOA.

When finished, click **Next**.
Under Configure Common Settings, select **Create Windows Services for configured components** and click **Next**.

You will see the database connection details that were provided in Shared Services database connection details screen. Verify the connection details for the Financial Close Management, EPRI
Integrator and Account Reconciliation database, and click **Next**.

- Select **Deploy web applications to an existing domain**, enter the information for the WebLogic domain that you created when you configured SOA, and click **Next**.

  Administrator User/Password: (use the WebLogic administrator username and password created from SOA configurator.)

  Domain Name: base_domain (use the existing domain that was created from SOA configurator)
- On the warning about password validation press OK.

- Uncheck the **Deploy the web application to a single managed server** and accept the default application server deployment settings, and click **Next**.
- Under Configure Web Server, select **Oracle HTTP Server** and click **Next**.

- Click **Next** and answer **Yes** at the confirmation prompt.

Note: This setup is not integrated with OCM
Enter the Shared Services Admin User name and password. Make sure that password contains no less than one numeric or special characters and click Next.

Review your selections, and click Next to launch the configuration.
When the configuration is complete, click **Finish**.

### Deploying to SOA

After configuring EPM products, you need to run the EPM System Configurator again to deploy to SOA.

- To start the WebLogic Admin Server, select **Start**, then **Programs**, then **Oracle WebLogic**, then **User Projects**, then `<domain>`, and then **Start Admin Server for Weblogic Server Domain**, where `<domain>` is the WebLogic domain you created with the SOA configuration tool.

  (You can also start it with startWebLogic.cmd. For example: C:\Oracle\Middleware\user_projects\domains\base_domain\bin\startWebLogic.cmd)

Enter the Web Logic admin user name and password if prompted.

The process will take a couple of minutes and is complete when you see '<Server started in
RUNNING mode>' in the Command Prompt box.

- To start the SOA managed server, enter the following command at a Command Prompt:
  
  ```
c:\oracle\middleware\user_projects\domains\<domain>\bin\startmanagedweblogic.cmd
  soa_server1,
  ```

  where `<domain>` is the WebLogic domain you created with the SOA configuration tool.

  Enter the Web Logic admin user name and password when prompted.

  The process will take a couple of minutes and is complete when you see '<Server started in
  RUNNING mode>' in the Command Prompt box.

- From the Windows Start menu, select Programs, then Oracle EPM System, then Foundation
  Services, and then EPM System Configurator (all instances).

  (You can also start it with configtool.bat. For example:
  C:\Oracle\Middleware\EPMSystem11R1\common\config\11.1.2.0\configtool.bat).

- Select EPM Oracle instance to which this configuration would be applied, and click Next.
- Uncheck All and Expand Financial Close, then Financial Close Management and select Deploy to SOA. Also within Financial Close, expand Account Reconciliation and select Deploy to SOA, Deploy to SOA for ERPI and click Next.
- On the Deploy to SOA screen, click **Next**.

- On the Confirmation screen, click **Next** to launch the configuration.

- When the configuration is complete, click **Finish**.
Configuration completed
Performing Post-Installation Manual Configuration Tasks

You perform the manual configuration tasks after installing and configuring SOA Suite and the EPM components.

Add Native users to the WebLogic Server

- You should restart the WebLogic Admin Server before add Native users:
  - Select Start, then Programs, then Oracle WebLogic, then User Projects, then \<domain\>, and then Stop Admin Server, where \<domain\> is the WebLogic domain you created with the SOA configuration tool.
    (You can also stop it with stopWebLogic.cmd. For example: C:\Oracle\Middleware\user_projects\domains\base_domain\bin\stopWebLogic.cmd).
  - Select Start, then Programs, then Oracle WebLogic, then User Projects, then \<domain\>, and then Start Admin Server for Weblogic Server Domain, where \<domain\> is the WebLogic domain you created with the SOA configuration tool.
    (You can also start it with startWebLogic.cmd. For example: C:\Oracle\Middleware\user_projects\domains\base_domain\bin\startWebLogic.cmd)
    - The process will take a couple of minutes and is complete when you see ‘<Server started in RUNNING mode>’ in the Command Prompt box.

- Connect to the WebLogic Console [http://host:7001/console](http://host:7001/console) where host is the name of the Machine.
- Log on using the WebLogic administrator name and password that you specified for the domain.
- Click on Lock & Edit
In the Domain Structure area, click Security Realms.

Click myrealm

Summary of Security Realms

A security realm is a container for the mechanisms—including users, groups, security roles, and resources. You can have multiple security realms in a Weblogic Server domain, but only one

This Security Realms page lists each security realm that has been configured in this WebLogic realm.

Customize this table

Realms (Filtered - More Columns Exist)

Click the Lock & Edit button in the Change Center to activate all the buttons on this page.
- Select **Users and Groups**, To add Shared Services user to WebLogic server, click on **New** under **Users**.

  - **Name**: Shared Services Admin user name;
  - **Password**: Shared Services Admin user password.

- On Create a New User screen, provide **Name**, **Password**, **Confirm Password** and click **OK**.
Click Release **Configuration**.

---

**ORACLE WebLogic Server® Administration Console**

Change Center

View changes and restarts
No pending changes exist. Click the Release Configuration button to allow others to edit the domain.

- Lock & Edit
- Release Configuration

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Click **Logout**

---

**Configuring the Keystore for Oracle Web Services Manager**

You must set up the Keystore for message protection and configure the Credential Store Provider. The Financial Close Management client and the Oracle Hyperion Financial Management Web service use the following policies:

- wss11_saml_token_with_message_protection_client_policy
- wss11_saml_token_with_message_protection_service_policy

At a Command Prompt, enter the following command to add the JDK to the path:

```
set PATH=%PATH%;C:\Oracle\Middleware\jdk160_35\bin
```

(where `C:\Oracle\Middleware\jdk160_35\bin` has to be your JDK path)

The JDK must be included in the path in order to run the Java keystore utility.

Use the Oracle keystore utility to create a keystore on the WebLogic Admin server hosting your EPM System domain by navigating to

`c:\oracle\middleware\user_projects\domains\<domain>\config\fmwconfig` (where `<domain>` is the WebLogic domain you created with SOA configuration tool), and enter the following command:

```
keytool -genkey -keyalg RSA -alias orakey -keypass welcome1 -keystore default-keystore.jks -storepass welcome1 -validity 3600
```
This command creates a keystore with the name default-keystore.jks and adds a new private key entry with alias 'orakey' and password welcome1 to it. You will be prompted for additional information regarding your authentication provider.

You can change the alias, password, and domain name as needed in the command.

Enter the following URL to start Oracle Enterprise Manager, replacing <host> with your host name: http://<host>:7001/em.

Enter your Weblogic administrator name and password to login.

- In the navigation pane, expand Weblogic Domain, and then select the WebLogic domain you created in the SOA configuration tool.

- Right-click on WebLogic Domain, then Security, and then Security Provider
Expand the Keystore section and click **Configure**.

In the Access Attributes enter `welcome1` in the password fields. In the Signature Key enter `orakey` in the Key Alias filed. In Encryption key enter `orakey` in the Crypt Alias field. In all password fields enter `welcome1`. 
Click OK.

Stop WebLogic Admin Server and SOA managed server

- To stop the WebLogic Admin Server, Press and hold Ctrl + C in the command window where WebLogic Admin server has been started. Type 'Y' and press the enter key when prompted to terminate the batch job.

- To stop the SOA managed server, Press and hold Ctrl + C in the command window where SOA managed server has been started Type 'Y' and press the enter key when prompted to terminate the batch job.

Starting the Servers

You must start the servers required for Financial Close Management in the following order:

1. WebLogic Admin Server;
2. SOA managed server
3. EPM System servers.

- To start the WebLogic Admin server, select Start, then Programs, then Oracle WebLogic, then User Projects, then <domain>, and then Start Admin Server for WebLogic Server Domain.

(You can also start it with startWebLogic.cmd. For example: C:\Oracle\Middleware\user_projects\domains\base_domain\bin\startWebLogic.cmd)
Enter the Web Logic admin user name and password if prompted.

The process will take a couple of minutes and is complete when you see '<Server started in RUNNING mode>' in the Command Prompt box.

- To start the SOA managed server, enter the following command at a command prompt:
  `c:\oracle\middleware\user_projects\domains\<domain>\bin\startmanagedweblogic.cmd soa_server1`
  where <domain> is the domain you created using the SOA configuration utility.

  Enter the Web Logic admin user name and password when prompted.

  The process will take a couple of minutes and is complete when you see '<Server started in RUNNING mode>' in the Command Prompt box.

- To start EPM servers, select **Start**, then **Programs**, then **Oracle EPM System**, then **Foundation Services**, then **Start EPM System**.

  (You can also start it with start.bat For example:
  C:\Oracle\Middleware\user_projects\epmsystem1\bin\start.bat).

**Run EPM System Diagnostics to Verify EPM Configuration**

To start EPM validator tool, select **Start**, then **Programs**, then **Oracle EPM System**, then **Foundation Services**, then **epmsystem1**, then **EPM System Diagnostic**.

(You can also start it with validate.bat For example:
C:\Oracle\Middleware\user_projects\epmsystem1\bin\validate.bat).

It will launch new browser with status of validation for every EPM components as following (All should be passed as following).
You can also run EPM deployment report by epmsys_registry.bat:

For example: C:\Oracle\Middleware\user_projects\epmsystem1\bin\epmsys_registry.bat report deployment

It will launch new browser with report information as following;
EPM Deployment Topology Report (Release 11.1.2.3)

Logical Web Addresses
A logical web address (LWA) is the address for the local database/web server that is used for access to server to server HTTP communication. Under standard deployment there is only one LWA address for a deployment.

http://MNSIPWLCZ02000
Account Reconciliation Web Application
EPM Enterprise Edition Web Application
Financial Close Web Application
Shared Services Web Application

Application Views Components
This section lists the components configured for each EPM instance in this deployment. It lists the following attributes for different list of components:
- Name - Database Server - Domain
- Operating System - Web Address
- Web Application - User Interface - Role
- Web Application - User Interface - Role

MySQL Database Server
- Database Name - User Interface - Role
- Web Application - User Interface - Role
- Web Application - User Interface - Role

Database Connections
This section lists the logical databases and the database connection for each relational repository.

MySQL Database Server
- Database Name - User Interface - Role
- Web Application - User Interface - Role
- Web Application - User Interface - Role

User Directories: 11G Not Enabled
This section lists the user directories in the current report order defined in Shared Services. The 11G mode and 11G User mode are shown in the title.

Data Directories

Scroll down to the end of the report and you should see all passed and nothing failed as following:

Run EPM System Diagnostics to Verify Close Manager/Account Reconciliation Manager Configuration

Run EPM System Diagnostics for:

- Close Manager
- Account Reconciliation Manager

Close Manager:

From a Web browser, open the following URL


- Where HOST is the name of the machine where FinancialClose0 managed server is configured..
Log on to Close manager with **Shared Services administrator** credentials.

- To validate the close manager configuration, click on “**Validate Financial Close Manager Configuration**” button.

- After validation, the configuration information will be displayed in a tabular form. See the following table for more information on the results.
Below is the list of things that will be displayed in a tabular form

<table>
<thead>
<tr>
<th>Admin Server</th>
<th>Host</th>
<th>Port</th>
<th>Status (running/shutdown)</th>
<th>Messages describing the steps to fix in case of (red)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Foundation Server</td>
<td>Host</td>
<td>Port</td>
<td>Status</td>
<td>DataSources targeted</td>
</tr>
<tr>
<td>FCM Managed Server</td>
<td>Host</td>
<td>Port</td>
<td>Status</td>
<td>DataSources targeted</td>
</tr>
<tr>
<td>SOA Server</td>
<td>Host</td>
<td>Port</td>
<td>Status</td>
<td>DataSources targeted</td>
</tr>
<tr>
<td>FCM Web application</td>
<td>Version:</td>
<td>Status:</td>
<td>DB Type</td>
<td></td>
</tr>
<tr>
<td>Authentication Providers</td>
<td>Provider configured/ not Control Flag (Sufficient/Not)</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>External</td>
<td>Lists the Authentication</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Authenticators</td>
<td>Providers</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>-------------------</td>
<td>---------------------------------------------------------------------------</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>SOA Composites</td>
<td>Check whether SOA composites Active/Not</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Foreign JNDI</td>
<td>EDN JMS (in case of sql server)</td>
<td></td>
<td></td>
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</tr>
<tr>
<td></td>
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<td></td>
</tr>
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<td>OWSM KeyStore</td>
<td>Lists the external Identity store configuration. The tool only lists the</td>
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<td></td>
<td>values used for the configuration. It is the responsibility of the</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>customer to make sure that the entered values are correct.</td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td><strong>Warning can be ignored.</strong></td>
<td></td>
<td></td>
<td></td>
</tr>
</tbody>
</table>

**Validate Test Schedule:**

The second half of the page has a utility that will generate a test Main Orchestration Process, deploys it to soa server and start a test task. The status for each task is displayed in a table below it and should there be any errors – the possible cause of the error and the way to fix it will be displayed in the last column.

If you are running this part, make sure the user logged into the Diagnostic tool with a user that is also present in HSS.

- Click on **Validate Test Schedule**

Note: The button to run this test is enabled only if all the required configuration from above table is in place – read marked with ✓ instead of ✗.
After validation, the configuration information is displayed in a tabular form:

Below is the list of things that is displayed in a tabular form:

<table>
<thead>
<tr>
<th>SOA Composite Deployment</th>
<th>Tells if the composite deployment to soa server is successful.</th>
<th>(Green)/ (red)</th>
<th>Messages describing the steps to fix in case of (red)</th>
</tr>
</thead>
<tbody>
<tr>
<td>Business Event</td>
<td>Tells if the business event if fired successfully.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Composite Instance</td>
<td>Tells if the business event is able to start a Task correctly or not.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>FCM Basic Task</td>
<td>Tells if the basic task is started and successfully set to Running Status.</td>
<td></td>
<td></td>
</tr>
<tr>
<td>Humanworkflow</td>
<td>The above task is submitted internally to confirm if</td>
<td></td>
<td></td>
</tr>
</tbody>
</table>
Humanworkflow is working fine.

Account Reconciliation Manager:

From a Web browser, open the following URL:


- Where HOST is the name of the machine where FinancialClose0 managed server is configured.

Log on with Shared Services administrator credentials.

- After successful logging in the following screen is displayed.

- To validate the account reconciliation manager configuration, click on the Validate Account Reconciliation Manager Configuration button.
After validation, the configuration information is displayed in a tabular form. See the following table for more information on the results.

<table>
<thead>
<tr>
<th>Validation Item</th>
<th>Results</th>
<th>Status</th>
<th>Percent Steps</th>
<th>Validated On</th>
</tr>
</thead>
<tbody>
<tr>
<td>Admin Server</td>
<td>Host: demo1.example.com</td>
<td>Port: 8080</td>
<td>Status: RUNNING</td>
<td>02/12/2012</td>
</tr>
<tr>
<td>Foundation Server</td>
<td>Host: demo2.example.com</td>
<td>Port: 8080</td>
<td>Status: RUNNING</td>
<td>02/12/2012</td>
</tr>
<tr>
<td>FCM Managed Server</td>
<td>Host: demo3.example.com</td>
<td>Port: 8080</td>
<td>Status: RUNNING</td>
<td>02/12/2012</td>
</tr>
</tbody>
</table>

Below is the list of things that will be displayed in a tabular form:

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<td></td>
<td></td>
</tr>
<tr>
<td>SOA Server</td>
<td>Host</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Port</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>Status</td>
<td></td>
<td></td>
<td></td>
<td></td>
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<tr>
<td></td>
<td>DataSources targeted</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>ARM Web</td>
<td>Version:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td>Application</td>
<td>Status:</td>
<td></td>
<td></td>
<td></td>
<td></td>
</tr>
<tr>
<td></td>
<td>DB Type</td>
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</table>

**Apply ADF patch 16709748**

Copy the downloaded patch to `<MIDDLEWARE_HOME>`\oracle_common\OPatch directory.

Shut down all the servers if any are running.

To apply the patch follow instructions given in the readme file of the patch.

**Configuring FDMEE for Account Reconciliation Manager**
Prerequisites

You should:

- Have access with sysdba privileges to an Oracle 11g (11.1.0.7 or higher) database.
- Have access to the installation files for the following software:
  - Oracle EPM Installed machine(s) – Should have installed and configured FDMEE

Note: FDMEE is required only for the Account Reconciliation Manager module. It is not required for the Close Manager module.

Configuring Oracle Security Policy for FDMEE

Configuration of Oracle Security Policy with OWSM is required to enable communication between Account Reconciliation Manager and FDMEE.

Prerequisites

1) Verify that the EPM_ORACLE_HOME system variable is set from the EPM Installation step.
2) FDMEE is installed.
3) Weblogic admin server is in the running state.
4) Start FDMEE service.

Note: If FDMEE service is already running, then restart it.

Running Automated Scripts to set Oracle Security Policy

Edit the wls-ARM.properties file

- Go to directory <EPM_ORACLE_HOME>/products/FinancialDataQuality/bin
- Modify the wls-ARM.properties file as following;

For Weblogic Admin server connection:

- userName=adminUserName  (Replace adminUserName with your weblogic admin user)
- passWord=adminPassword  (Replace adminPassword with your weblogic admin password)
- adminServerURL=t3://localhost:7001  (Replace localhost with your weblogic
Do not change ServiceEndPointSecPolicy and ServiceCallBackSecPolicy.

Run wlsConfigARM.bat file

- Open Command Prompt
- Change directory to <EPM_ORACLE_HOME>/products/FinancialDataQuality/bin
- Run wlsConfigARM.bat file and ensure that the script runs successfully
• Restart **FDMEE service and Admin Server.**

Check the status of FDMEE server;

Log in to the WebLogic Admin console ([http://localhost:7001/console](http://localhost:7001/console)). In the **Domain Structure** area, click **Environment**, and then **Servers**. You should wait until **FDMEE server status is changed to RUNNING.**

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EPM System Rapid Deployment of Financial Close Management Domain for Development Environments, 11.1.2.2.0.000

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Authors: EPM Information Development Team

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