

## **Oracle® Banking Platform**

Installation Guide - Silent Installation

Release 2.4.1.0.0

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# Preface

The Oracle Banking Platform Installation Guide - Silent Installation contains information on silent installation and configuration of Oracle Banking Platform software and its associated products.

This preface contains the following topics:

- [Audience](#)
- [Documentation Accessibility](#)
- [Organization of the Guide](#)
- [Related Documents](#)
- [Conventions](#)

## Audience

This guide is primarily meant as a step-by-step installation manual for Oracle Banking Platform IT deployment teams at Oracle Banking Platform development center as well as onshore implementations at client locations to install a complete Oracle Banking Platform system in a UNIX based environment.

The reader is expected to have an acquaintance with UNIX platform, Oracle WebLogic server and Oracle Fusion platform firmware such as Oracle JDeveloper, Oracle OID and Oracle SOA Suite.

## Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

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## Organization of the Guide

This document contains:

## **Chapter 1, "Getting Started"**

This chapter presents an overview of Oracle Banking Platform and the installation guide. It also mentions the assumptions, limitations and exclusions that this document has been based upon.

## **Chapter 2, "Pre-Installation Configuration"**

This chapter describes the pre-configuration activities that are to be completed successfully for proper installation and functioning of Oracle Banking Platform.

## **Chapter 3, "Oracle Banking Platform Host Media Pack Installation"**

This chapter details every step involved in the installation, and post installation and configuration of Oracle Banking Platform Host Media pack.

## **Chapter 4, "Oracle Banking Platform Presentation Media Pack Installation"**

This chapter details every step involved in the installation, and post installation and configuration of Oracle Banking Platform Presentation (UI) Media pack.

## **Chapter 5, "Oracle Banking Platform SOA Media Pack Installation"**

This chapter details every step involved in the installation, and post installation and configuration of Oracle Banking Platform SOA (Integration Server) Media pack.

## **Chapter 6, "Oracle BAM Installation using OBP SOA Media Pack"**

This chapter details every step involved in the installation, and post installation and configuration of Oracle BAM using OBP SOA Media pack.

## **Chapter 7, "Oracle Banking Platform Reference Process Models Media Pack Installation"**

This chapter details the steps involved in the installation of Oracle Banking Platform Reference Process Models Media pack (Media pack 4).

## **Chapter 8, "Standalone Database Setup – Running Repository Creation Utility (RCU)"**

This chapter details the steps involved in Oracle Banking Platform Database which are primarily concerned with importing an existing database dump of the QA database.

## **Chapter 9, "Oracle Banking Platform and IPM Integration"**

This chapter details the steps involved in the integration of Oracle Banking Platform and Oracle Imaging and Process Management (IPM).

## **Chapter 10, "BIP Datasource Creation"**

This chapter explains the steps required for Oracle Banking Platform BIP (BI Publisher) datasource creation.

## **Chapter 11, "Monitoring Servers Using Oracle Enterprise Manager"**

This chapter lists the steps required to monitor servers using Oracle Enterprise Manager (EM).

## **Chapter 12, "Post Installation Verification"**

This chapter lists the steps required to verify the Oracle Banking Platform solution installation.



### Chapter 13, "Errors and Remedies"

This chapter provides information on troubleshooting to help diagnose and remedy some of the problems encountered during installation of the Oracle Banking Platform.

### Chapter 14, "Uninstalling the Application"

This chapter explains the process of uninstalling the Oracle Banking Platform.

## Related Documents

For more information, see the following documentation:

- For information necessary for the installation and configuration of integration components to create a complete solution using Oracle Banking Platform (OBP) and Oracle Documaker, see the installation and configuration guides at [http://docs.oracle.com/cd/E22582\\_01/e22582\\_01\\_index.html](http://docs.oracle.com/cd/E22582_01/e22582_01_index.html).
- Information on Oracle Fusion Middleware Install-Config Checklist is available at <http://aseng-wiki.us.oracle.com/asengwiki/display/ASMWArchPM/FMW+Install-Config+Checklist+Page>.
- For a comprehensive overview of security for Oracle Banking, see the Oracle Banking Security Guide
- For the complete list of Oracle Banking licensed products and the Third Party licenses included with the license, see the Oracle Banking Licensing Guide
- For information related to setting up a bank or a branch, and other operational and administrative functions, see the Oracle Banking Administrator's Guide
- For information related to customization and extension of Oracle Banking, see the Oracle Banking Extensibility Guide
- For information on the functionality and features of the Oracle Banking product licenses, see the respective Oracle Banking Functional Overview documents

## Conventions

The following text conventions are used in this document:

Convention	Meaning
<b>boldface</b>	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
<i>italic</i>	Italic type indicates book titles, emphasis, or placeholder variables for which you supply particular values.
monospace	Monospace type indicates commands within a paragraph, URLs, code in examples, text that appears on the screen, or text that you enter.

The following acronyms are used in this document:

Acronym	Meaning
OBP	Oracle Banking Platform
UI	User Interface that is Presentation Tier
HOST	Middleware Host Tier
SOA	Service Oriented Architecture Tier

<b>Acronym</b>	<b>Meaning</b>
DB or db	Oracle Database
OEL	Oracle Enterprise Linux
SVN	Source Code Version Repository
RCU	Repository Creation Utility
WLS	WebLogic Server
sh	Unix Shell file
OID	Oracle Internet Directory
ADF	Application Development Framework
OLTP	Online Transaction Processing
VM	Virtual Machine
OS	Operating System
IPM	Imaging and Process Management
BIP	Business Intelligence Publisher
BAM	Business Activity Monitoring
OES	Oracle Entitlements Server
OSB	Oracle Service Bus
ODI	Oracle Data Integrator
OIM	Oracle Identity Manager
OEM	Oracle Enterprise Manager
OAAM	Oracle Adaptive Access Manager
IAM	Identity and Access Management
LDAP	Lightweight Directory Access Protocol
OPSS	Oracle Platform Security Services
FEPI	Front End Processing Interface
ATM	Automated Teller Machine
POS	Point Of Sale
RPM	Reference Process Model
BPEL	Business Process Execution Language

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# Getting Started

This chapter presents an overview of Oracle Banking Platform and the installation guide. It also mentions the assumptions, limitations and exclusions that this document has been based upon.

## 1.1 About Oracle Banking Platform

Oracle Banking Platform (OBP) is a one-stop solution for a bank for its core banking operations, across retail and business banking operations. It is designed to help banks respond strategically to today's business challenges, while also transforming their business models and processes to reduce operating costs and improve productivity across both front and back offices.

OBP provides a unified yet scalable IT solution for a bank to manage its data and end-to-end business operations with an enriched user experience. It is a composed set of different modules wherein each of the modules is serviced by a set of services and other subsystems.

## 1.2 About This Guide

This document guides you through the installation of the core banking application Oracle Banking Platform. This document guides in deploying the following parts of the application:

- Presentation Server (ADF Presentation UI deployment on WebLogic)
- Application Server (Banking Services hosted on WebLogic)
- Integration Server (Oracle Banking Platform Integration and Approval Processes hosted on Oracle SOA)
- Security Configuration (Seeding security to OID)
- Seed Data Configuration (Seeding data to Core banking OLTP Database Server)

There are multiple prerequisites that need to be done before the start of the installation. The prerequisites section lists down the requirements. This document does not attempt to guide you through the prerequisites installation. The readers are expected to see the appropriate platform documentation to install the prerequisites.

This document prescribes bare minimum hardware requirements to have a functional application configuration. The sizing for a production environment is not prescribed here.

Due care has been taken to make this document as complete as possible. In case of any anomalies please mail to [obp-deployment-support@oracle.com](mailto:obp-deployment-support@oracle.com).

There are certain steps in the installation that *may* not be optimal yet. Further releases will optimize the deployment further.

## 1.3 Assumptions

It is assumed that the reader is aware of the technologies involved and is capable of installing the prerequisite software products mentioned in [Section 2.1.2, "Software Environment"](#).

The following are the assumptions regarding the environment and setup with regard to carrying out this installation:

- The Oracle Banking Platform installables are downloaded and copied onto a Linux machine or Linux VM.
- The reader has taken a remote connection to the Linux machine via Windows box.
- The reader is able to take an 'ssh' connection to the servers on which various Oracle Banking Platform components have to be installed from the Linux machine.
- The user is aware of the process of creating required db schema using RCU prior to initiation of OBP installation.

## 1.4 Exclusions

Though some of the software and products listed in prerequisites section may work on Windows, such qualification has not been carried out and shall not be the focus of this guide. It is advisable to use the mentioned Operating System (OS) for the best experience.

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## Pre-Installation Configuration

This chapter describes the pre-configuration activities that are to be completed successfully for proper installation and functioning of Oracle Banking Platform.

### 2.1 Setup Prerequisites

This section lists down the requirements from an environment perspective including minimum hardware requirements with Operating System (OS) and the middleware software products, which the Oracle Banking Platform solution depends and runs on (for example, Database or WebLogic) or interfaces with (for example, OID or IPM).

#### 2.1.1 Hardware Environment

The minimum hardware requirements for Oracle Banking Platform solution to install and function decently are listed below:

**Table 2–1 Hardware and OS**

Sr. No.	CPU (2+GHz)	RAM (GB)	Disk (GB)	OS Version	Purpose
1	4	16	200	OEL 6.4	Oracle Banking Platform Oracle Database
2	4	32	200	OEL 6.4	Oracle Banking Platform ADF UI Presentation Server
3	4	32	200	OEL 6.4	Oracle Banking Platform Services Middleware Host Server
4	2	16	200	As per OID certification matrix.	Oracle OID Server
5	2	16	200	As per IPM certification matrix.	Oracle IPM Server
6	2	16	200	As per BIP certification matrix.	Oracle BIP Server
7	4	32	200	As per SOA certification matrix.	Oracle SOA Server
8	4	16	200	As per BAM certification matrix.	Oracle BAM Server

## 2.1.2 Software Environment

It is assumed that the following products are installed and are available on the server on which the Oracle Banking Platform installation will be performed.

### 2.1.2.1 Certification Details

The following software are mandatory:

**Table 2–2 List of Software**

Sr. No.	Components	Zone	Software
1	OBP UI Presentation	Banking App	Oracle ADF Run Time 11.1.1.9 Oracle Weblogic Server 10.3.6 Java Version jdk1.7.0_xx Oracle Linux 6.4 64-bit
2	SOA	Banking App	Oracle SOA Suite 11.1.1.9 Oracle Weblogic Server 10.3.6 Java Version jdk1.7.0_xx Oracle Linux 6.4 64-bit
3	OBP HOST	Banking App	Oracle Weblogic Server 10.3.6 Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 Java Version jdk1.7.0_xx Oracle Linux 6.4 64-bit
4	OID and OES	Security	Oracle Entitlements Server (IAM Suite) 11.1.2.3 Oracle Internet Directory (IDM Suite) 11.1.1.9 Oracle Weblogic Server 10.3.6 Java Version jdk1.7.0_xx Oracle Linux 6.4 64-bit
5	BIP	Document	Oracle Business Intelligence 11.1.1.9 Java Version jdk1.7.0_xx Oracle Linux 6.4 64-bit
6	IPM	Document	Oracle WebCenter - Content 11.1.1.9 Oracle Weblogic Server 10.3.6 Java Version jdk1.7.0_xx Oracle Linux 6.4 64-bit
7	OSB	Integration	Oracle Service Bus 11.1.1.9 Oracle Weblogic Server 10.3.6 Java Version jdk1.7.0_xx Oracle Linux 6.4 64-bit
8	ODI	Integration	ODI 11.1.1.9 Oracle Weblogic Server 10.3.6 Java Version jdk1.7.0_xx Oracle Linux 6.4 64-bit

**Table 2–2 (Cont.) List of Software**

<b>Sr. No.</b>	<b>Components</b>	<b>Zone</b>	<b>Software</b>
9	OIM	Security	Oracle IAM 11.1.2.3 Suite Oracle Weblogic Server 10.3.6 Java Version jdk1.7.0_xx Oracle Linux 6.4 64-bit
10	OAAM	Security	Oracle IAM 11.1.2.3 Suite Oracle Weblogic Server 10.3.6 Java Version jdk1.7.0_xx Oracle Linux 6.4 64-bit
11	OAM	Security	Oracle IAM 11.1.2.3 Suite Oracle Weblogic Server 10.3.6 Java Version jdk1.7.0_xx Oracle Linux 6.4 64-bit
12	OEM	Management	Oracle Enterprise Manager 12.1.0.4.0 Java Version jdk1.7.0_xx Oracle Linux 6.4 64-bit
13	EM Agent Installation	Management	Push from OEM Console
14	OBP Database	Database	Oracle Database 12c Enterprise Edition Release 12.1.0.2.0 Oracle Linux 6.4 64-bit
15	HTTP Server	Web Server	Oracle HTTP Server 11.1.1.9
16	BAM	Banking App	Oracle SOA Suite 11.1.1.9 Oracle Weblogic Server 10.3.6 Java Version jdk1.7.0_xx Oracle Linux 6.4 64-bit

The following are some notes related to the software.

**Table 2–3 Notes**

<b>Serial Number</b>	<b>Description</b>
1	OBP release has been certified with OEL version 6.4 during the release cycle. It is strongly recommended to use the versions on which the release is certified.
2	Oracle Business Intelligence Publisher is required at the time of OBP installation. It is required to use the actual BIP property values during the installation. This is required as the installer uploads the OBP reports as onto the BIP server as part of the middleware host installation process.

**Table 2–3 (Cont.) Notes**

Serial Number	Description
3	<p>ODI_OUTBOUND_USERNAME and ODI_OUTBOUND_PASSWORD</p> <p>The OBP installer will not abort the installation if this component is not present. It can be installed later.</p> <p>However, it is strongly recommended to use the actual property values instead of default property values during the installation.</p> <p>Else, the actual values for ODI_OUTBOUND_USERNAME and ODI_OUTBOUND_PASSWORD once available have to be manually updated in the 'ra/FCRJConnectorODI' jndi property of com.ofss.fc.app.connector.ear application inside middleware host server after the entire installation completes.</p>
4	<p>The OBP installer will not abort the installation if this component is not present. It can be installed later.</p> <p>It is strongly recommended to use the actual property values instead of default property values during the installation. Else, these properties have to be manually updated in Host Database after the entire installation completes.</p>
5	<p>OIM_OUTBOUND_USERNAME and OIM_OUTBOUND_PASSWORD</p> <p>The OBP installer will not abort the installation if this component is not present. It can be installed later.</p> <p>It is recommended to use the actual property values instead of default property values during the installation. Else, these properties have to be manually updated in Host Database. Also, actual values for OIM_OUTBOUND_USERNAME and OIM_OUTBOUND_PASSWORD once available have to be manually updated in the 'ra/FCRJConnectorOIM' jndi property of com.ofss.fc.app.connector.ear application inside middleware host server after the entire installation completes.</p>
6	<p>Oracle Access Manager can be installed later.</p>
7	<p>The patch p19637463 needs to be downloaded from support.oracle.com and applied on the Oracle WebLogic 10.3.6 installation. This patch supersedes all patches that were released for 10.3.6.</p>
8	<p>During installation, password of unix user will be asked multiple times for "scp" "ssh". There is a time limit for entering password. If not entered within specified limit, the installation is likely to exit. User should take care of this.</p>
9	<p>It is mandatory for Oracle Toplink 12c (12.1.3) to be installed on the machine where OBP Host Media pack installation is planned. This path is required as input in the installer properties and has been mentioned in the checklist table.</p>
10	<p>It is mandatory for machine nodes on which OBP UI, Host, and SOA Media pack installation is planned, to install the Java Cryptography Extensions Unlimited Strength Jurisdiction Policy Files, to enable additional encryption strengths.</p>
11	<p>Download the jce_policy.zip from Oracle website for the current Java version being used. For jdk1.7.0_xx, download UnlimitedJCEPolicyJDK7.zip from the following link:</p> <p><a href="http://www.oracle.com/technetwork/java/javase/downloads/jce-7-download-432124.html">http://www.oracle.com/technetwork/java/javase/downloads/jce-7-download-432124.html</a></p> <p>Copy "local_policy.jar" and "US_export_policy.jar" from this zip file in the path mentioned below:</p> <p>JAVA_HOME/jre/lib/security/</p>



**Table 2–3 (Cont.) Notes**

Serial Number	Description
12	<p>It is mandatory that the team installing OBP reads and understands the system requirements and specifications for the fusion middleware specified in the following link:</p> <p><a href="http://docs.oracle.com/html/E18558_01/fusion_requirements.htm">http://docs.oracle.com/html/E18558_01/fusion_requirements.htm</a></p> <p>The link details the system and platform-specific information for Oracle Fusion Middleware 11g Release 1 (11.1.1.9.0) products.</p> <p>Changes necessary at a system level for the fusion middleware should be made prior to executing OBP media packs.</p> <p>For example, the number of open files should be increased from the default value as specified in the following link:</p> <p><a href="http://docs.oracle.com/html/E18558_01/fusion_requirements.htm#BABFCFIF">http://docs.oracle.com/html/E18558_01/fusion_requirements.htm#BABFCFIF</a></p>
13	SOA managed servers may need the default value raised at operating system level to run, as it needs to load a large number of OBP application binaries.
14	It is mandatory for SOA Suite to be installed in machine nodes on which OBP BAM Installation is planned.
15	The value of property SOA_SERVER_NAME in installer properties should not be changed. The default value of soa_server1, that is shipped along with media pack, should be retained AS IS. Managed servers, that are required inside the cluster as per the naming onsite conventions, should be added after the media pack installation is complete.
16	<p>The Weblogic-10.3.6.0.10 (12 UV) Patch p16485257_1036010_Generic.zip has to be applied on the Oracle Weblogic 10.3.6 installation. This can be downloaded from the following link:</p> <p><a href="http://aru.us.oracle.com:8080/ARU/ViewPatchRequest/process_form?aru=19605273">http://aru.us.oracle.com:8080/ARU/ViewPatchRequest/process_form?aru=19605273</a></p> <p>Bug ID associated with it is as follows:</p> <p><a href="https://bug.oraclecorp.com/pls/bug/webbug_edit.edit_info_top?rptno=22275555">https://bug.oraclecorp.com/pls/bug/webbug_edit.edit_info_top?rptno=22275555</a></p>
17	<p>SOA Bundle Patch - p22036578_111190_Generic.zip has to be applied on SOA machine only. This can be downloaded from the following link:</p> <p><a href="https://support.oracle.com/epmos/faces/ui/patch/PatchDetail.jspx?_afLoop=103793333600893&amp;parent=DOCUMENT&amp;patchId=22036578&amp;sourceId=1485949.1&amp;_afWindowMode=0&amp;_adf.ctrl-state=nf5ksejfn_77">https://support.oracle.com/epmos/faces/ui/patch/PatchDetail.jspx?_afLoop=103793333600893&amp;parent=DOCUMENT&amp;patchId=22036578&amp;sourceId=1485949.1&amp;_afWindowMode=0&amp;_adf.ctrl-state=nf5ksejfn_77</a></p>

### 2.1.2.2 Optional

The following software is optional:

- Oracle VM server release 2.2.3

### 2.1.2.3 Patching

OPatch is a patching utility in OBP Installer. The following is required to run OPatch.

The Python packages need to be installed in the same order as mentioned below. They have to be installed as root user in UI, Host, and SOA Machines.

- Suds-0.4 (to create webservice client)
- docutils-0.12 (prerequisite for SOAPpy)
- wstools-0.4.3 (prerequisite for SOAPpy)
- SOAPpy0.12.5 (to make SOAP webservice call)

- PyYAML-3.11 (to read yaml file)
- Jypye1-0.5.7 (to call java code from Python)

The above mentioned packages are available in the form of .tar.gz files in the media pack.

The installation steps are as follows:

1. Extract each file so that the above Python packages get installed in the same order.
2. Run setup.py file inside extracted folder. (command:python setup.py install).

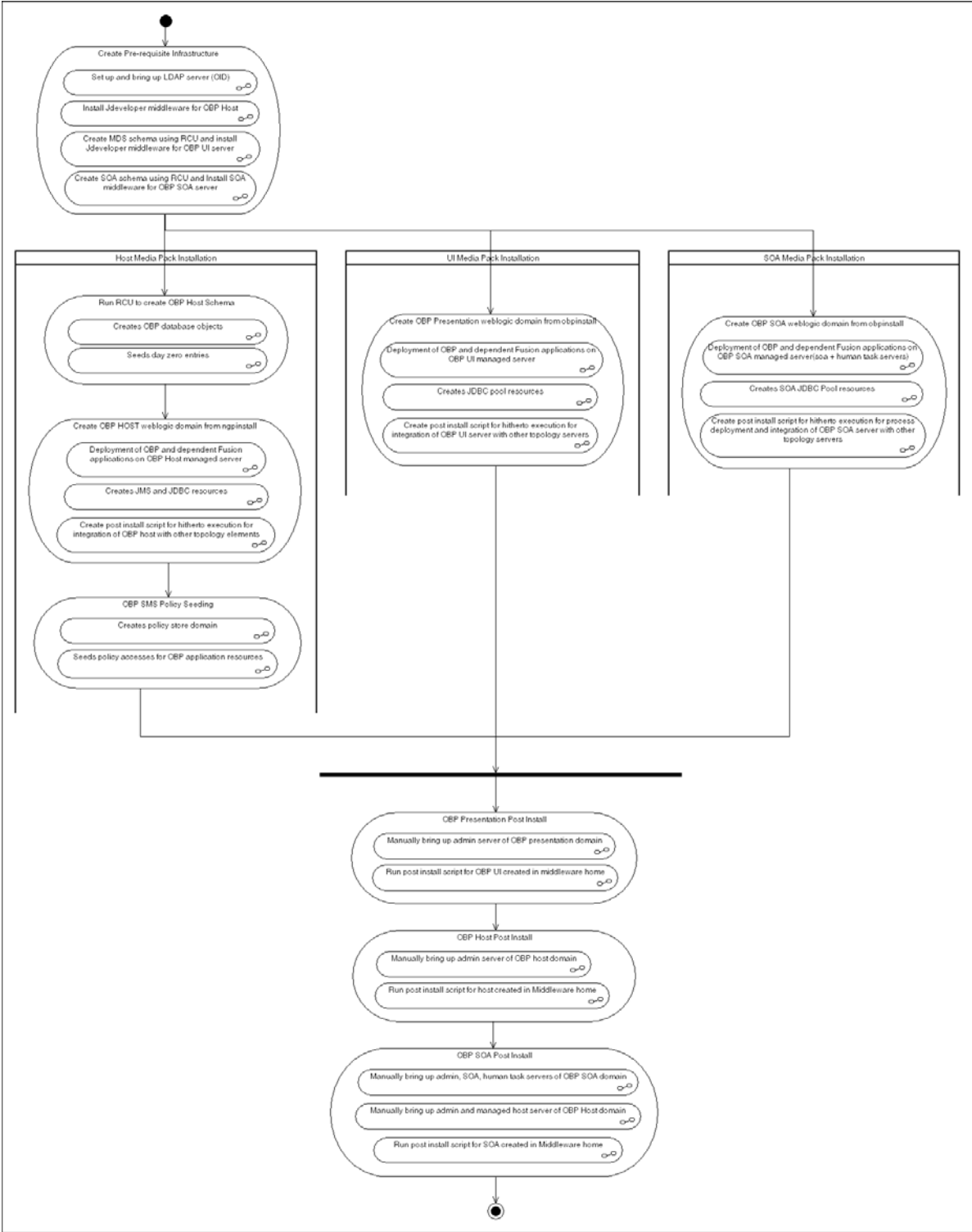
```
tar -xvzf suds-0.4.tar.gz
tar -xvzf docutils-0.12.tar.gz
tar -xvzf wstools-0.4.3.tar.gz
tar -xvzf SOAPpy-0.12.5.tar.gz
tar -xvzf PyYAML-3.11.tar.gz
tar -xvzf JPyype1-0.5.7.tar.gz
chmod -R 777 *
cd suds-0.4
python setup.py install
cd ../docutils-0.12
python setup.py install
cd ../wstools-0.4.3
python setup.py install
cd ../SOAPpy-0.12.5
python setup.py install
cd ../PyYAML-3.11
python setup.py install
cd ../JPyype1-0.5.7
python setup.py install
```

Please note that the above step is only required to run OPatch (a patching utility available with OBP Installer

## 2.2 Installation Process Overview

The following diagram provides an overview of the steps that need to be followed to install and configure Oracle Banking Platform:

Figure 2-1 Installation Overview



## 2.3 Installation Checklists

It is mandatory that the team installing OBP reads and understands the system requirements and specifications for the fusion middleware specified in the following link:

[http://docs.oracle.com/html/E18558\\_01/fusion\\_requirements.htm](http://docs.oracle.com/html/E18558_01/fusion_requirements.htm)

The link details the system and platform-specific information for Oracle Fusion Middleware 11g Release 1 (11.1.1.9.0) products.

Changes necessary at a system level for the fusion middleware should be made prior to executing OBP media packs.

For example, the number of open files should be increased from the default value as specified in the following link:

[http://docs.oracle.com/html/E18558\\_01/fusion\\_requirements.htm#BABFCFIF](http://docs.oracle.com/html/E18558_01/fusion_requirements.htm#BABFCFIF)

To make the installation experience quick and easy, a checklist of information is provided, which should be filled and kept handy. The checklist has been made more intuitive and relevant by ensuring that the Key for properties defined in the installation property file is same as the Name column in the first table of the checklist.

### 2.3.1 Updating `installobp***.properties`

This checklist provides values for updating `installobp***.properties`.

**Table 2–4 Values for updating `installobp***.properties`**

Sr. No	Name	Description	Example Value	Value
1	JPS_CONTEXT_DSN	The DSN used for object class jpsroot in the OID LDAP.	jpsroot	
2	OID_IP	IP address of the OID server.	10.180.25.164	
3	OID_PORT	Port of the OID process instance.	3060	
4	OID_ADMIN_USER	Admin user id which can be used to log in as the OID administrator.	cn=orcladmin	
5	OID_ADMIN_PWD	Refers to the password of admin user of the OID.	welcome1	
6	OID_DOMAIN_NAME	Refers to the domain name to be used for the WebLogic domain for seeding OBP policies. This name will be used to re-associate the Presentation and Host WebLogic installation domain.	obpdomain	
7	OID_DOMAIN_PORT	Refers to the port number to be used for the WebLogic domain for seeding OBP policies. This port should be free on the UI Presentation server.	7005	
8	OID_GROUP_DSN	The DSN used for object class Groups in the OID LDAP.	cn=Groups,dc=oracle,dc=com	
9	OID_USER_DSN	The DSN used for object class Users in the OID LDAP.	cn=Users,dc=oracle,dc=com	
10	POLICY_SEEDING_TYPE	LDAP or DB. Refers to the type of policy seeding required for installation and reassociation with OID.	DB	

**Table 2-4 (Cont.) Values for updating *installobp\*\*\*.properties***

Sr. No	Name	Description	Example Value	Value
11	NODE_MGR_PORT	Refers to the port number to be used for the WebLogic node manager. This port should either be free on the UI Presentation server or an existing WebLogic node manager should be installed to listen on this port when the same is started.	5556	
12	OUI_JAVA_HOME	Refers to the home directory of java installation. The version of java installed should be 1.7.0. This is used for OBP patching.	/oracle/app/product/jdk-1.7.0.9.x86_64	
13	CENTRAL_INVENTORY_LOC	Refers to the path of central inventory. This path is used for OUI patching.	/scratch/app/oraInventory	
14	UI_IP	IP address of the server on which the OBP presentation or UI layer should be installed.	10.180.25.166(Always use IP, don't use localhost)	
15	UI_MW_HOME	Refers to the middleware home of the WebLogic installation on the UI server.	/oracle/app/product/fmw	
16	UI_TARGET	Refers to a location on the UI server where the installables can be transferred. The user id used for installation of OBP should have read, write and execute privileges on this directory.	/home/oracle/software	
17	UI_JAVA_HOME	Refers to the home directory of java installation. The version of java installed should be 1.7.0 or above. This is used to execute the OBP security policy seeding utility at the end of the installation.	/oracle/app/product/jdk1.7.0_80	
18	HOST_IP	IP address of the server on which the OBP host or middleware layer should be installed.	10.180.25.165(Always use IP, don't use localhost)	
19	HOST_MW_HOME	Refers to the middleware home of the WebLogic installation on the Host server.	/oracle/app/product/fmw	
20	HOST_TARGET	Refers to a location on the Host server where the installables can be transferred. The user id used for installation of OBP should have read, write and execute privileges on this directory.	/home/oracle/software	
21	INSTALL_AS	Linux login user id used to install the OBP solution.	oracle	
22	LOCAL_IP	IP of the local machine which could be a Windows machine on which software like XManager is installed for rendering UI of a utility executing on a remote Linux server.	10.180.91.50	
23	BIP_SERVER_IP	IP of the BIP server to host OBP reports	10.180.9.73	

**Table 2–4 (Cont.) Values for updating installobp\*\*\*.properties**

Sr. No	Name	Description	Example Value	Value
24	BIP_SERVER_PORT	Port of the BIP server that hosts OBP reports	9704	
25	IPM_SERVER_IP	IP of Oracle Image and Processing Server for OBP Content Management	10.180.9.97	
26	IPM_SERVER_PORT	Port of Oracle Image and Processing Server for OBP Content Management	16000	
27	OAAM_SERVER_IP	OAAM server IP for 2FA. OAAM_SERVER_IP refers to the IP address of OAAM Server (that is, the IP of default server name as oaam_server_server1)	ofsmud6vm1106.i-flex.com	
28	OAAM_SERVER_PORT	OAAM server Port for 2FA. OAAM_SERVER_PORT refers to the port of OAAM Server (default server name as oaam_server_server1)	14300	
29	OIM_SERVER_IP	Oracle Identity Manager IP	10.180.91.223	
30	OIM_SERVER_PORT	Oracle Identity Manager Port	9001	
31	OFSAA_SERVER_IP	OFSAA Server IP	10.184.134.19	
32	OFSAA_SERVER_PORT	OFSAA Server Port	9538	
33	OBP_HOST_DB_USER	OBP Host database user	st_appuser	
34	OBP_HOST_DB_IP	OBP Host database IP	10.180.90.30	
35	OBP_HOST_DB_PORT	OBP Host database port	1521	
36	OBP_HOST_DB_SERVICE_NAME	OBP Host database service name	OBPDB	
37	OBP_IPM_MAIN_APP_NAME	OBP Content Main Application Name	ST_MAIN	
38	OBP_IPM_TEMP_APP_NAME	OBP Content Temp Application Name	ST_TEMP	
39	HOST_ADMIN_JVM_PARAMS	Host domain admin JVM startup parameters	-Xms1024m -Xmx4096m -XX:PermSize=512m -XX:MaxPermSize=1024m	

**Table 2-4 (Cont.) Values for updating installobp\*\*\*.properties**

Sr. No	Name	Description	Example Value	Value
40	HOST_MANAGED_JVM_PARAMS	Host domain managed JVM startup parameters	-Xms4096m -Xmx8162m -XX:PermSize=1024m -XX:MaxPermSize=2048m -XX:NewSize=2048m -XX:MaxNewSize=4096m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75	
41	UI_ADMIN_JVM_PARAMS	UI domain admin JVM startup parameters	-Xms2048m -Xmx4096m -XX:MaxPermSize=2048m	
42	UI_MANAGED_JVM_PARAMS	UI domain managed JVM startup parameters	-Djbo.ampool.doampooling=false -Xms4096m -Xmx6084m -XX:MaxPermSize=2048m -XX:NewSize=512m -XX:MaxNewSize=2048m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Djbo.load.components.lazily=true -Dobp.http.maxRetryCount=1 -Dobp.http.socketBufferSize=8192 -Dobp.http.connectionTimeout=600000 -Dobp.http.expireAndRetry=true -Dobp.http.maxConnectionsPerHost=150 -Dobp.http.idleTimeoutPollInterval=10000 -Dobp.http.staleCheckEnabled=false	

**Table 2–4 (Cont.) Values for updating installobp\*\*\*.properties**

Sr. No	Name	Description	Example Value	Value
43	SOA_ADMIN_JVM_PARAMS	SOA domain admin JVM startup parameters	-Xms1024m -Xmx2048m -XX:PermSize=512m -XX:MaxPermSize=1024m	
44	SOA_MANAGED_JVM_PARAMS	SOA domain managed SOA server's JVM startup parameters	-XX:NewSize=2048m -XX:MaxNewSize=4096m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Xms8192m -Xmx15360m -XX:PermSize=1024m -XX:MaxPermSize=2048m	
45	SOA_HUMANTASKSERVER_JVM_PARAMS	SOA domain human task server's JVM startup parameters	-Djbo.ampool.doampooling=false -Xms4096m -Xmx6084m -XX:MaxPermSize=2048m -XX:NewSize=512m -XX:MaxNewSize=2048m -XX:+UseParNewGC -XX:+CMSParallelRemarkEnabled -XX:+UseConcMarkSweepGC -XX:CMSInitiatingOccupancyFraction=75 -Dobp.http.maxRetryCount=1 -Dobp.http.socketBufferSize=8192 -Dobp.http.maxConnectionsPerHost=20 -Dobp.http.expireAndRetry=true -Dobp.http.maxConnectionsPerHost=150 -Dobp.http.connectionTimeout=600000 -Dobp.http.idleTimeoutPollInterval=10000 -Dobp.http.staleCheckEnable=false	



**Table 2–4 (Cont.) Values for updating `installobp***.properties`**

Sr. No	Name	Description	Example Value	Value
46	OBP_IPM_UCM_CONN_NAME	UCM Connection Name	UCM_Connection	
47	OBP_IPM_UCM_CONN_PORT	UCM Connection port	4444	
48	HOST_JAVA_HOME	Refers to the home directory of java installation of the host machine. The version of java installed should be 1.7.0 or above. This is used to execute the OBP security policy seeding utility at the end of the installation.	/scratch/app/product/jdk1.7.0_80	
49	SOA_JAVA_HOME	Refers to the home directory of java installation of the SOA machine. The version of java installed should be 1.7.0 or above. This is used to execute the OBP security policy seeding utility at the end of the installation.	/scratch/app/product/jdk1.7.0_80	
50	UI_UNIX_USER	Linux login user id used to install the OBP UI solution.	oracle	
51	UI_DOMAIN_NAME	Refers to the domain name to be used for the WebLogic domain of the OBP Presentation server	obpuidomain	
52	BIP_UNIX_USER	Linux login user id for BIP server	oracle	
53	BIP_HOME	Oracle BIP Home directory on BIP server	/oracle/app/product/fmw1/Oracle_BI1	
54	BIP_INSTANCE_PATH	Oracle BIP Instance directory on BIP server	/oracle/app/product/fmw1/instances/instance1	
55	BIP_SERVER_USER	Oracle BIP server user id	WebLogic	
56	BIP_REPORT_BASE_PATH	Logical Base Path on Oracle BIP server under which OBP reports would be hosted	/OBP/REPORTS	
57	BIP_DATASOURCE_NAME	OBP Host database user used by OBP report to fetch data for reports	OBP_HOSTDBUSER	
58	LOCAL_DISPLAY_VALUE	Value of DISPLAY variable to be exported to generate installation wizard in local machine	0.0	
59	OPSS_SEED_TYPE	Type of OID seeding. It should be either PolicyStore or BulkLoad	PolicyStore	
60	DOMAIN_NAME	WebLogic Domain name	Obptestdomain	
61	DOMAIN_DIRECTORY_LOCATION	Location where DOMAIN_NAME folder will be created	/oracle/app/product/fmw1/user_projects/domains	
62	WEBLOGIC_USERNAME	Username for WebLogic domain	WebLogic	
63	WEBLOGIC_PASSWORD	Password for WebLogic domain	WebLogic1	

**Table 2-4 (Cont.) Values for updating installobp\*\*\*.properties**

Sr. No	Name	Description	Example Value	Value
64	MDS_SCHEMA_USER (For UI) MDS_HOST_DB_USER (For HOST)	MDS schema user to be used by UI and Host domain	DEV_MDS	
65	MDS_SCHEMA_PASSWORD (For UI), MDS_HOST_DB_PASSWORD (For HOST)	MDS schema Password of MDS schema user to be used by UI and Host domain	Welcome1	
66	MDS_DB_IP (FOR UI) MDS_HOST_DB_IP (For HOST)	MDS DB IP address of MDS schema user to be used by UI and Host domain	10.180.25.200	
67	MDS_DB_PORT (FOR UI) MDS_HOST_DB_PORT (For HOST)	MDS DB port of MDS schema user to be used by UI and Host domain	1521	
68	MDS_DB_SERVICE_NAME (FOR UI) MDS_HOST_DB_SERVICE_NAME (For HOST)	MDS DB service name of MDS schema user to be used by UI and Host domain	OBPDB	
69	ADMIN_SERVER_LISTEN_ADDRESS	Admin server listen address	10.180.25.23 (Always use IP, don't use localhost)	
70	ADMIN_SERVER_LISTEN_PORT	Admin server listen port	7001	
71	ADMIN_SERVER_SSL_LISTEN_PORT	Admin server SSL listen port	7002	
72	MANAGED_SERVER_LISTEN_ADDRESS	Managed server listen address	10.180.25.23 (Always use IP, don't use localhost)	
73	MANAGED_SERVER_LISTEN_PORT	Managed server listen port	8001	
74	MANAGED_SERVER_SSL_LISTEN_PORT	SSL listen port for managed server	8002	

**Table 2-4 (Cont.) Values for updating *installobp\*\*\*.properties***

Sr. No	Name	Description	Example Value	Value
75	LDAP_PROVIDER	OID or OVD	OID	
76	HOST_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of host managed server	10.180.25.15 (Always use IP, don't use localhost)	
77	HOST_MANAGED_SERVER_LISTEN_PORT	Listen port of host managed server	8001	
78	SOA_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of SOA server	10.180.25.113 (Always use IP, don't use localhost)	
79	SOA_MANAGED_SERVER_LISTEN_PORT	Listen port of SOA server	8001	
80	MDS_SCHEMA_USER (For SOA)	MDS schema user for SOA domain	DEV2_MDS	
81	BAM_SCHEMA_USER (For SOA)	BAM schema user for SOA domain	DEV2_ORABAM	
82	SOA_INFRASTRUCTURE_SCHEMA_USER (For SOA)	SOA infrastructure schema user for SOA domain	DEV2_SOAINFRA	
83	USER_MESSAGING_SERVICE_SCHEMA_USER (For SOA)	User messaging schema user for SOA domain	DEV2_ORASDPM	
84	SOA_SERVER_LISTEN_ADDRESS	Listen address of SOA server	10.180.25.113 (Always use IP, don't use localhost)	
85	SOA_SERVER_LISTEN_PORT	Listen port of SOA server	8001	
86	SOA_SERVER_SSL_LISTEN_PORT	SSL listen port of SOA server	8002	
87	HUMANTASK_SERVER_LISTEN_ADDRESS	Listen address of human task server	10.180.25.113 (Always use IP, don't use localhost)	
88	HUMANTASK_SERVER_LISTEN_PORT	Listen port of human task server	9001	

**Table 2–4 (Cont.) Values for updating installobp\*\*\*.properties**

Sr. No	Name	Description	Example Value	Value
89	HUMANTASK_SERVER_SSL_LISTEN_PORT	SSL listen port of human task server	9002	
90	KEYSTORE_PASSWORD	Password for generating certificate	Welcome1	
91	UI_SSL_PASSWORD	Password for configuring SSL in UI domain	Welcome1	
92	UCM_READ_FROM_URL	<p>Flag for getting UCM URL from properties file.</p> <p>These values are used by the Webcenter Portal application for internet banking. Hence values for UCM_READ_FROM_URL and UCM_IP, UCM_PORT below can be left as is for installations, which do not use the Webcenter portal for hosting their internet banking application.</p> <p>However, as a best practice, it is recommended that we configure values for UCP_IP and UCM_PORT correctly from day 1.</p>	true/false	
93	UCM_IP	<p>IP of UCM</p> <p>UCM_IP the IP address of the UCM WebLogic managed server.</p>	Ofss.ucm.com	
94	UCM_PORT	<p>Port of UCM.</p> <p>UCM_PORT refers to the IntradocServerPort property from \$DomainHome/ucm/cs/config/config.cfg</p> <p>By default, this value is 4444.</p>	4444	
95	***_OUTBOUND_USERNAME	Username created in connector	WebLogic	
96	***_OUTBOUND_PASSWORD	Password for the user in connector	WebLogic1	
97	OES_IP	IP of the OES machine	10.180.25.116	
98	OES_DOMAIN_NAME	Domain created in OES by using the Authorization Policy Manager.	obpdomain	
99	OES_UNIX_USER	Unix user of the OES Machine	oracle	
100	OES_MW_HOME	Middleware home in OES machine	/scratch/app/product/fmw_oes	
101	OES_JAVA_HOME	JAVA_HOME of OES machine	/scratch/app/product/jdk1.7.0_80	
102	OES_DB_IP	IP of the OES DB machine	10.180.25.200	
103	OES_DB_PORT	Port of OES DB	1521	

**Table 2-4 (Cont.) Values for updating installobp\*\*\*.properties**

Sr. No	Name	Description	Example Value	Value
104	OES_SCHEMA_USER	Username of OES DB schema	DEV3_MDS	
105	OES_SCHEMA_PASSWORD	Password of OES DB schema	Welcome1	
106	OES_DB_SERVICE_NAME	Service name of OES DB	OBPDB	
107	HOST_DB_SCHEMA_CREATION_FLAG	Flag for Host application DB schema creation	Y	
108	OID_FARM_AND_POLICY_SEEDING_FLAG	Flag for OID farm creation and policy seeding	Y	
109	BIP_REPORTS_UPLOADING_FLAG	Flag for BIP reports uploading	Y	
110	USER_TIMEZONE	Time zone entry	+5:30	
111	SILENT_INSTALL	Flag for installing silent or interactive mode	y	
112	DOMAIN_NAME	Name of the WebLogic domain to be created	ui_domain or host_domain or base_domain	
113	UI_ADMIN_SERVER_LISTEN_ADDRESS	Listen address of UI admin server	10.180.25.23	
114	UI_ADMIN_SERVER_LISTEN_PORT	Listen port of UI admin server	8001	
115	SOA_IP	IP address of SOA machine	10.180.25.113	
116	SOA_UNIX_USER	Unix username of SOA machine	ofssobp	
117	SOA_MW_HOME	Refers to the middleware home of the WebLogic installation on the SOA server.	/scratch/app/product/fmw	
118	SOA_WEBLOGIC_USERNAME	Username of the server of SOA domain	WebLogic	
119	SOA_WEBLOGIC_PASSWORD	Password of the server of SOA domain	WebLogic1	
120	UI_DOMAIN_NAME	Name of UI domain	Ui_domain	
121	BIP_SERVER_PSWD	Password of BIP server	WebLogic1	
122	UI_MANAGED_SERVER_LISTEN_ADDRESS	Listen address of UI managed server	10.180.25.23	

**Table 2–4 (Cont.) Values for updating installobp\*\*\*.properties**

Sr. No	Name	Description	Example Value	Value
123	UI_MANAGED_SERVER_LISTEN_PORT	Listen port of UI managed server	8001	
124	DOCUKAKER_SERVER_IP	IP address of Documaker server	10.180.25.64	
125	DOCUKAKER_SERVER_PORT	Listen port of Documaker server	8005	
126	HOST_DB_SCHEMA_PREFIX	Prefix of HOST application DB schema (Maximum length of characters: 12)	DEV	
127	HOST_ADMIN_SERVER_LISTEN_ADDRESS	Listen address of HOST admin server	10.180.25.15	
128	HOST_ADMIN_SERVER_LISTEN_PORT	Listen port of HOST admin server	8001	
129	SOA_TARGET	Target folder of SOA machine where files will be copied temporarily during installation	/scratch/app/product/fmw/target	
130	BAM_SERVER_LISTEN_ADDRESS	Listen address of BAM server	10.180.25.113	
131	BAM_SERVER_LISTEN_PORT	Listen port of BAM server	9003	
132	BAM_SERVER_SSL_LISTEN_PORT	SSL listen port of BAM server	9004	
133	UI_DOMAIN_HOME	Full path of UI domain	/scratch/app/product/fmw/user_projects/domains/ui_domain	
134	DB_IP	IP address of the machine where DB schemas for SOA created	10.180.24.54	
135	DB_PORT	Port of the DB where DB schemas for SOA created	1521	
136	DB_SERVICE_NAME	Service name of the DB where DB schemas for SOA created		
137	CARD_USERNAME	Username of Card connector	orakey	
138	CARD_PASSWORD	Password of Card connector	welcome1	
139	RULE_USERNAME	Username of Rule connector	orakey	
140	RULE_PASSWORD	Password of Rule connector	welcome1	
141	BAM_USERNAME	Username of BAM connector	WebLogic	

**Table 2-4 (Cont.) Values for updating installobp\*\*\*.properties**

Sr. No	Name	Description	Example Value	Value
142	BAM_PASSWORD	Password of BAM connector	WebLogic1	
143	DEFAULT_BANK_CODE (For SOA)	Default bank code will be set while configuring SOA domain	48	
144	DEFAULT_TRANSACTION_BRANCH_CODE (For SOA)	Default branch code will be set while configuring SOA domain	8542	
145	DEFAULT_TARGET_UNIT (For SOA)	Default target unit will be set while configuring SOA domain	TARGET_NAME	
146	UI_HOST_NAME	Host name of the UI machine	Ofss25879	
147	SOA_ORACLE_HOME	Name of Oracle SOA which is present in fusion middleware	OracleSOA1	
148	POLICY_DB_IP	IP of the OES db machine used for DB Based Policy Seeding	10.180.25.200	
149	POLICY_DB_IP	Port of OES db used for DB Based Policy Seeding	1521	
150	POLICY_DB_USER	Username of OES db schema used for DB Based Policy Seeding	DEV3_MDS	
151	POLICY_DB_PASSWORD	Password of OES db schema used for DB Based Policy Seeding	Welcome1	
152	POLICY_DB_IP	Service name of OES db used for DB Based Policy Seeding	OBPDB	
153	HOST_OPATCH_CREATION_FLAG	Whether the OPatch Setup has to be made available in Host Server	Y	
154	UI_OPATCH_CREATION_FLAG	Whether the OPatch Setup has to be made available in UI Server	Y	
155	SOA_OPATCH_CREATION_FLAG	Whether the OPatch Setup has to be made available in SOA Server	Y	
156	TOPLINK_INSTALLATION_PATH	Oracle Toplink 12c (12.1.3) Installation Path in the Host Server		
157	HOST_SSL_PASSWORD	Password for configuring SSL in HOST domain	welcome1	
158	SOA_SERVER_NAME	VALUE OF THIS PROPERTY SHOULD NOT BE CHANGED AND SHOULD BE LEFT AS IT IS SHIPPED ALONG WITH THE MEDIA PACK.  NAME OF MANAGED SOA SERVER SHOULD ALWAYS BE "soa_server1"	soa_server1	

**Table 2–4 (Cont.) Values for updating installobp\*\*\*.properties**

Sr. No	Name	Description	Example Value	Value
159	BAM_INSTALLATION	During SOA installation value should be N During BAM installation value should be Y	N	
160	IPM_USERNAME	Username of IPM connector	ofssobp	
161	IPM_PASSWORD	Password of IPM connector	welcome1	
162	FTP_IPM_USERNAME	Username of FTP_IPM connector	ofssobp	
163	FTP_IPM_PASSWORD	Password of FTP_IPM connector	welcome1	
164	FTP_IPM_BATCH_USERNAME	Username of FTP_IPM_BATCH connector	ofssobp	
165	FTP_IPM_BATCH_PASSWORD	Password of FTP_IPM_BATCH connector	welcome1	

## 2.3.2 Database and WebLogic Domain Configuration

The following table lists the other information which should be kept handy to make this installation easy.

**Table 2–5 Oracle Banking Platform DB and WebLogic Domain Configuration**

Sr. No.	Name	Description and Example	Value
<b>UI and Host Linux user login details</b>			
1.	UI / Presentation Linux server user id	This is same as INSTALL_AS captured in the checklist above.	
2.	UI / Presentation Linux server user password	Password for the user specified against INSTALL_AS.	
3.	Host Linux server user id	This is same as INSTALL_AS captured in the checklist above.	
4.	Host Linux server user password	Password for the user specified against INSTALL_AS.	
<b>Database Details</b>			
5.	IP address of the Oracle Banking Platform Oracle DB server	10.180.90.30	
6.	Port of the Oracle Banking Platform Oracle DB instance	1521	



**Table 2–5 (Cont.) Oracle Banking Platform DB and WebLogic Domain Configuration**

Sr. No.	Name	Description and Example	Value
7.	Oracle Banking Platform DB Service Name	OBPDB	
8.	Oracle Banking Platform DB sys password	*****	
<b>Additional UI Install Checklist</b>			
9.	Admin user id and password for the Oracle Banking Platform UI domain.	The default admin user id is WebLogic. Decide on the password to be used and note it.	
10.	List of port numbers for the Oracle Banking Platform UI domain for: Admin server HTTP port for managed server HTTPS port for managed server	Default Values Admin Server Port: 7001 Managed Server http port: 15308 Managed Server https port: 15309	
11.	Password for the key generated to establish trust between the Oracle Banking Platform UI and Host.	Decide on the password to be used and note it. This is required for the post installation tasks of UI domain.	
12.	Password for keystore generated to establish trust.	Decide on the password to be used and note it. This is required for the post installation tasks UI domain.	
<b>Additional Host Install Checklist</b>			
13.	Admin user id and password for the Oracle Banking Platform Host domain.	The default admin user id is WebLogic. Decide on the password to be used and note it.	
14.	List of port numbers for the Oracle Banking Platform Host domain for: Admin server HTTP port for managed server HTTPS port for managed server	Default Values Admin Server Port: 7001 Managed Server http port: 15308 Managed Server https port: 15309	

**Table 2–5 (Cont.) Oracle Banking Platform DB and WebLogic Domain Configuration**

Sr. No.	Name	Description and Example	Value
15.	Password for the key generated to establish trust between the Oracle Banking Platform UI and Host.	This is same as password in row 11. This is required for the post installation tasks of host domain.	
16.	Password for keystore generated to establish trust.	This is same as password in row 12. This is required for the post installation tasks of host domain.	
<b>Additional OBP IPM checklist for Section 9</b>			
17	OBP_IPM_MAIN_APP_NAME	Used to create the MAIN application that would be used to manage the content such as outbound communications, inbound documents, and so on. This application will be used actively by OBP at runtime.	
18	OBP_IPM_TEMP_APP_NAME	Used to create the TEMP application that would archive old documents. This application will not be used actively by OBP at runtime.	
19	OBP_IPM_SOA_CONN_NAME	Used as the name for creation of the workflow connection.	

## 2.4 OID Schema Setup – Custom OBP Schema

This section describes the OID Schema setup which is a pre-installation configuration required for Oracle Banking Platform setup.

### 2.4.1 Prerequisite – OID setup

It is assumed that OID 11.1.1.9 is installed with ODSM and configured. We can thereafter proceed to the next step of setting up the OBP policy store. OID works better when installed on OEL. See [Section 2.1.2, "Software Environment"](#) for version information of the software products.

### 2.4.2 Verify the OID installation

This section describes the procedure to verify the OID installation.

#### 2.4.2.1 Start and Verify the OID processes

Log in to the Linux console with user id `oracle`, navigate to the 'bin' directory of the OID instance and start the OID processes using the commands as follows:

For example, if the OID installation is in `/oracle/app/product/fmw/asinst_1`

```
cd /oracle/app/product/fmw/asinst_1/bin
```

```
./opmnctl startall
```

**Figure 2–2 Locate the OID Instance**

```

oracle@oelguest1:~ - Shell - Konsole
Session Edit View Bookmarks Settings Help
[oracle@oelguest1 ~]$ cd /oracle/app/product/fmw/asinst_1/bin
    
```

The `./opmnctl startall` command should result in a starting opmn and all managed processes message on the screen.

**Figure 2–3 Start the OID Instance**

```

oracle@oelguest1:/oracle/app/product/fmw/asinst_1/bin - Shell - Konsole
Session Edit View Bookmarks Settings Help
[oracle@oelguest1 ~]$ cd /oracle/app/product/fmw/asinst_1/bin
[oracle@oelguest1 bin]$
[oracle@oelguest1 bin]$
[oracle@oelguest1 bin]$ ./opmnctl startall
opmnctl startall: starting opmn and all managed processes...
    
```

After the prompt returns, run the following command to check the status of OID processes:

```
./opmnctl status
```

**Figure 2–4 Verify the Status of OID Instance**

```

[oracle@oelguest1 bin]$ ./opmnctl status
Processes in Instance: asinst_1
-----+-----+-----+-----+
ias-component | process-type | pid | status
-----+-----+-----+-----+
ovd1          | OVD          | 2986 | Alive
oid1          | oidldapd    | 3022 | Alive
oid1          | oidldapd    | 3017 | Alive
oid1          | oidmon      | 2985 | Alive
EMAGENT      | EMAGENT     | 2984 | Alive
[oracle@oelguest1 bin]$
    
```

### 2.4.2.2 OPSS/OID Performance Tuning

The following changes are required in OID before initiating OBP installation:

#### Parameters

Change the parameter values as provided below.

**Table 2–6 Parameter Values to be Changed**

Parameter Name	Value
orlmaxcc (Number of DB Connections per Server Process)	10
orclserverprocs (Number of OID LDAP Server Processes)	4
orclgeneratechangelog (Change log Generation)	0
orclldapconntimeout (LDAP Connection Timeout)	60
orclmatchdenabled (Enable MatchDN Processing)	0

**Advanced OID tuning**

The steps to perform advanced OID tuning are as follows:

1. Create a .ldif file with any name. For example, tune.ldif.
2. Enter the following information in that file and save it:
 

```
dn: cn=dsaconfig,cn=configsets,cn=oracle internet directory
changetype: modify
replace: orclecachemaxsize
orclecachemaxsize: 3g
-
replace: orclecachemaxentries
orclecachemaxentries: 500000
```
3. Then in command prompt, navigate to that directory and run it using the following command:

---

**Note:** Ensure that 'ldapmodify' is available on the machine.

---

```
$ORACLE_HOME/bin/ldapmodify -h <<OIDIP>> -p <<OIDPORT>> -D
<<OIDUSERNAME>> -w <<OIDPASSWORD>> -f <<FILENAME>>
```

Example:

```
$ORACLE_HOME/bin/ldapmodify -h 10.180.25.116 -p 3060 -D cn=orcladmin -w
welcome1 -f tune.ldif
```

See the OID Tuning Guide available at [http://docs.oracle.com/cd/E23943\\_01/core.1111/e10108/oid.htm#ASPER99961](http://docs.oracle.com/cd/E23943_01/core.1111/e10108/oid.htm#ASPER99961)

Patch for OID:

Download and apply the patch (13879999) for OID performance from <http://support.oracle.com>

**OPSS Tuning**

The steps to perform advanced OPSS tuning are as follows:

1. **IDM Database recommendations**
  - a. The following table presents the suggested values of parameters and alter scripts executed in system for which the user needs to change the parameters.

**Table 2–7 Suggested values for Tuning and Alter Command**

Sr. No.	DB Property Name	Suggested Value for Tuning	Alter Command
1	Process	1500	ALTER SYSTEM SET processes = 1500 SCOPE = spfile;
2	SGA Target	3G	ALTER SYSTEM SET sga_target = 3221225472 SCOPE = spfile;
3	Audit Trail	None	ALTER SYSTEM SET audit_sys_operations=FALSE SCOPE =SPFILE; ALTER SYSTEM SET audit_trail = NONE SCOPE = spfile;
4	Open Cursor	500	ALTER SYSTEM SET open_cursors = 500 SCOPE = spfile;
5	PGA_Aggregate_Target	1.5GB	ALTER SYSTEM SET pga_aggregate_target = 1610612736 SCOPE = spfile;
6	NLS Sort	Binary	ALTER SYSTEM SET nls_sort = BINARY SCOPE = spfile;
7	Filesystemio_Options	SETALL	ALTER SYSTEM SET filesystemio_options = SETALL SCOPE = spfile;
8	Fast_start_mttr_target	3600	ALTER SYSTEM SET fast_start_mttr_target = 3600 SCOPE = spfile;
9	db_securefile	ALWAYS	ALTER SYSTEM SET db_securefile = ALWAYS SCOPE = spfile;
10	Session_cached_cursors	500	ALTER SYSTEM SET session_cached_cursors = 500 SCOPE = spfile;
11	plsql_code_type	NATIVE	ALTER SYSTEM SET plsql_code_type = NATIVE SCOPE = spfile;
12	_b_tree_bitmap_plans	false	ALTER SYSTEM SET "_b_tree_bitmap_plans" = FALSE scope=spfile;
13	Memory_target	0	ALTER SYSTEM SET memory_target=0 SCOPE = SPFILE;

**b. Redo log file**

**Allocated Disk Space for Redo Log Files**

```
ALTER DATABASE ADD logfile ('<oradata
directory>/ORA4212/redo01.log') SIZE 4G REUSE;

ALTER DATABASE ADD logfile ('<oradata
directory>/ORA4212/redo02.log') SIZE 4G REUSE;

ALTER DATABASE ADD logfile ('<oradata
directory>/ORA4212/redo03.log') SIZE 4G REUSE;
```

**c. Undo tablespace**

**Increase Disk Space Allocated for UNDO Tablespace**

```
ALTER DATABASE DATAFILE '<oradata directory>/ORA4212/undotbs01.dbf'
RESIZE 20G NEXT 1G;
```

**d. IAS Table space: If many large applications have to be managed in policy store, allocate a large tablespace size, 40 GB for IAS\_OPSS tablespace.**

**Increase Tablespace (<RCU>\_ias\_opss.dbf)**

```
ALTER DATABASE datafile
'/scratch/app/product/oradata/ORA4212/SHAOES123_ias_opss.dbf'
RESIZE 40960m;
```

```
ALTER DATABASE datafile
'/scratch/app/product/oradata/ORA4212/SHAOES123_ias_opss.dbf'
AUTOEXTEND ON MAXSIZE 61440m;
```

```
ALTER DATABASE datafile
'/scratch/app/product/oradata/ORA4212/SHAOES123_ias_opss.dbf'
AUTOEXTEND ON NEXT 1G;
```

- e. Temp table space: If many large applications have to be managed in policy store, allocate a large tablespace size, 15 GB for IAS\_TEMP tablespace.

**Increase Tablespace (<RCU>\_iastemp.dbf)**

```
ALTER DATABASE tempfile
'/scratch/app/product/oradata/ORA4212/SHAOES123_iastemp.dbf' RESIZE
15360m;
```

```
ALTER DATABASE tempfile
'/scratch/app/product/oradata/ORA4212/SHAOES123_iastemp.dbf'
AUTOEXTEND ON MAXSIZE 30720m;
```

```
ALTER DATABASE tempfile
'/scratch/app/product/oradata/ORA4212/SHAOES123_iastemp.dbf'
AUTOEXTEND ON NEXT 1G;
```

**2. startWeblogic.sh (OES server)**

In startWeblogic.sh file include Heap size as listed below:

```
MEM_ARGS="-Xms6144m -Xmx6144m -Xmn1900m -XX:+UseParallelGC
-XX:PermSize=128m -XX:MaxPermSize=1024m"
```

**3. jps-config.xml (All servers of OES, OBP-UI, OBP-Host, OBP-SOA domains)**

- a. Remove the following properties from <serviceInstance name="pdp.service" provider="pdp.service.provider"> in jps\_config.xml.

```
<property
name="oracle.security.jps.runtime.pd.client.policyDistributionMode"
value="mixed"/>
<property name="oracle.security.jps.runtime.instance.name"
value="OracleIDM"/>
<property name="oracle.security.jps.runtime.pd.client.sm_name"
value="OracleIDM"/>
<property name="oracle.security.jps.policystore.refresh.enable"
value="true"/>
```

- b. Add following properties:

```
<DOMAIN-HOME>/config/fmwconfig/jps-config.xml

<propertySet name="props.db.1">
  <property name="authorization_cache_enabled" value="true"/>
  <property name="connection.pool.min.size" value="20"/>
  <property name="connection.pool.max.size" value="40"/>
  <property name="connection.pool.provider.type" value="IDM"/>
  <property name="connection.pool.timeout" value="300000"/>
  <property name="connection.pool.provider.type" value="5"/>
  <property name="oracle.security.jps.policystore.rolemember.cache.type"
value="STATIC"/>
```

```

    <property
name="oracle.security.jps.policystore.rolemember.cache.strategy"
value="NONE" />
    <property name="oracle.security.jps.policystore.rolemember.cache.size"
value="100" />
    <property name="oracle.security.jps.policystore.policy.lazy.load.enable"
value="true" />
    <property name="oracle.security.jps.policystore.policy.cache.strategy"
value="NONE" />
    <property name="oracle.security.jps.policystore.policy.cache.size"
value="1000000" />
    <property name="oracle.security.jps.policystore.refresh.enable"
value="true" />
    <property name="oracle.security.jps.policystore.refresh.purge.timeout"
value="43200000" />
    <property name="oracle.security.jps.ldap.policystore.refresh.interval"
value="6000000" />
    <property
name="oracle.security.jps.policystore.rolemember.cache.warmup.enable"
value="true" />
</propertySet>

```

- c. All the above properties should also be added in the <pdp.service> service-instance.

```

<serviceInstance name="pdp.service" provider="pdp.service.provider">
  <description>Runtime PDP service instance</description>
  <property name="authorization_cache_enabled" value="true" />
  <property name="connection.pool.min.size" value="20" />
  <property name="connection.pool.max.size" value="40" />
  <property name="connection.pool.provider.type" value="IDM" />
  <property name="connection.pool.timeout" value="300000" />
  <property name="connection.pool.provider.type" value="5" />
  <property name="oracle.security.jps.policystore.rolemember.cache.type"
value="STATIC" />
  <property
name="oracle.security.jps.policystore.rolemember.cache.strategy"
value="NONE" />
  <property name="oracle.security.jps.policystore.rolemember.cache.size"
value="100" />
  <property name="oracle.security.jps.policystore.policy.lazy.load.enable"
value="true" />
  <property name="oracle.security.jps.policystore.policy.cache.strategy"
value="NONE" />
  <property name="oracle.security.jps.policystore.policy.cache.size"
value="1000000" />
  <property name="oracle.security.jps.policystore.refresh.enable"
value="true" />
  <property name="oracle.security.jps.policystore.refresh.purge.timeout"
value="43200000" />
  <property name="oracle.security.jps.ldap.policystore.refresh.interval"
value="6000000" />
  <property
name="oracle.security.jps.policystore.rolemember.cache.warmup.enable"
value="true" />
</serviceInstance>

```

#### 4. adf-config.xml

In adf-config.xml, maintain **authorizationEnforce="true"**

#### 5. setDomainEnv.sh

In setDomainEnv.sh file, include the following java properties. These are absolutely necessary, if authorizationEnforce = true (previous point).

**Table 2–8 Properties**

Property	Description
-Djps.combiner.optimize=true	This system property is used to cache the protection domains for a given subject. Setting -Djps.combiner.optimize=true can improve Java authorization performance.
-Djps.combiner.optimize.lazyeval=true	This system property is used to evaluate a subject's protection domain when a checkPermission occurs. Setting -Djps.combiner.optimize.lazyeval=true can improve Java authorization performance.
-Djps.policystore.hybrid.mode=false	This 'hybrid mode' property is used to facilitate transition from SUN java.security.Policy to OPSS Java Policy Provider.
-Djps.authz=ACC	Delegates the call to JDK API AccessController.checkPermission which can reduce the performance impact at run time or while debugging.

Example:

```

JAVA_PROPERTIES="-Djps.combiner.optimize=true
-Djps.combiner.optimize.lazyeval=true
-Djps.policystore.hybrid.mode=false -Djps.authz=ACC ${JAVA_PROPERTIES}
${WLP_JAVA_PROPERTIES}"

export JAVA_PROPERTIES
    
```

### 2.4.2.3 Import OBP Specific LDIF files

Start by checking the OID for the presence of jpsroot, fcperson, Users, Groups, WebLogic and Administrators. If they are already present, no modification is required in OID. However, if they are not present, then they can be added as described below:

---



---

**Note:** Ensure that 'ldapadd' and 'ldapmodify' are available on the machine.

---



---

1. Extract the 'host.zip' to obtain 'obpinstall-host.zip'. It contains ldif.zip.
2. Extract ldif.zip. It will create a folder named LDIF with six LDIF files as follows:
  - jpsroot.ldif
  - fcPerson.ldif
  - Users.ldif
  - Groups.ldif
  - WebLogic.ldif
  - Administrators.ldif
3. These are to be used and updated in the OID if necessary. The execution commands for uploading these LDIF files are given below. The execution order must be maintained as described.



**Table 2–9 Order of Execution**

Sr. No.	LDIF File Name	Description
1	jpsroot	Creates jpsroot and jpscontext
2	fcPerson	Creates fcPerson object class
3	Users	Creates OFSSUser
4	Groups	Creates OFSS_Role and offlinerole
5	WebLogic	Creates WebLogic user
6	Administrators	Creates Administrators Group

4. DNS should be changed as per the requirement of the bank in the LDIF files for:

- Users
- Groups
- WebLogic
- Administrators

---

**Note:** While executing fcPerson.ldif, “value already exist” problem may appear in console.

For this problem, the objectClasses value is required to be changed.

It can be found, at the end of the file as:

```
“add:objectClasses
objectClasses:(2.5.6.47”
```

To resolve this problem, change the value (default, it is 2.5.6.47) of object classes, then run it again.

---

Before executing the following commands, navigate to the location where the LDIF files reside (that is, inside LDIF folder) in Host machine, where OpenLDAP has been installed as mentioned in prerequisite section.

**ldapadd jpsroot.ldif**

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f
jpsroot.ldif
```

**ldapmodify fcPerson.ldif**

```
ldapmodify -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f
fcPerson.ldif
```

**ldapadd Users.ldif**

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f
Users.ldif
```

**ldapadd Groups.ldif**

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f
Groups.ldif
```

### Idapadd WebLogic.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f
Weblogic.ldif
```

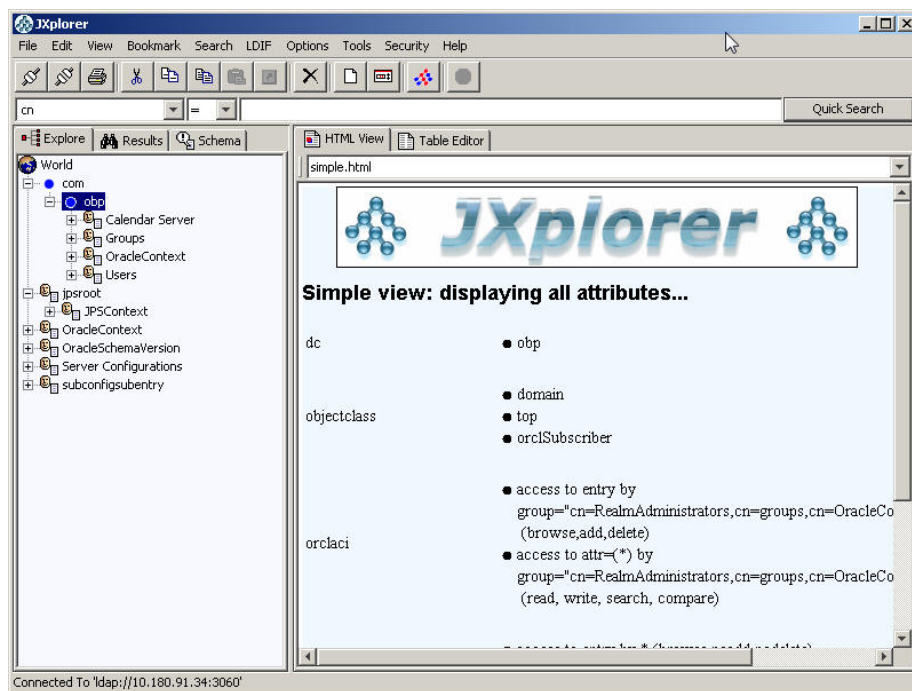
### Idapadd Administrators.ldif

```
ldapadd -h $ldapIP -p $ldapPort -D cn=orcladmin -w welcome1 -c -v -f
Administrators.ldif
```

#### 2.4.2.4 Verify the import using ODSM or JXplorer

The import of Oracle Banking Platform specific LDIF files can be verified using JXplorer.

**Figure 2–5 JXplorer**



---

---

# Oracle Banking Platform Host Media Pack Installation

This chapter details every step involved in the installation of Oracle Banking Platform Host Media pack. The subsequent section refers to the variable names specified in [Section 2.3, "Installation Checklists"](#).

## 3.1 Installation and Configuration Procedure

This section details the installation procedure for the Oracle Banking Platform Host Media Pack.

### 3.1.1 Preparatory Steps

This section lists the preparatory steps required for the Oracle Banking Platform Host Media Pack installation.

#### Step 1 Procuring Installables

Download the appropriate host media pack from the following location:

<http://edelivery.oracle.com/>

#### Step 2 Extracting the Installables

Copy the 'host.zip' to a local Linux VM or Linux machine from where the installation will be carried out. Extract the 'host.zip'. Four files will be extracted:

- A zip file 'obpinstall-host.zip'
- The installation script 'installobphost.sh'
- The install configuration property file 'installobphost.properties'
- A zip file 'em\_monitor.zip' that is used for monitoring (For more information, see [Chapter 11, "Monitoring Servers Using Oracle Enterprise Manager."](#)).

#### Step 3 Printing Checklists

Take a printout of the installation checklist mentioned in [Section 2.3, "Installation Checklists"](#) of this guide and note the values applicable for each point in the last column for "Value" so that the same is handy during the actual installation.

### 3.1.2 Pre-Installation Steps

This section lists the pre-installation steps required for the Oracle Banking Platform Host Media Pack installation.

#### Step 1 Updating `installobphost.properties`

Navigate to the directory where the files `obpinstall-host.zip`, `installobphost.sh` and `installobphost.properties` are placed and update `installobphost.properties` with relevant values from the checklist.

#### Step 2 Checklist for a new setup

Before initiating installation on a completely new setup, check the following:

- Node manager must not be running on the target machine.
- Create a dummy folder named as Target and mention its path against `HOST_TARGET` property.
- In case of re-installation ensure that the directory paths against `DOMAIN_DIRECTORY_LOCATION`, `OES_MW_HOME`, `HOST_TARGET` and `HOST_MW_HOME` specified in `installobphost.properties` are cleaned up for traces of any previous installations, as the remote shell copy may not be overwriting in case of any residual file left by the previous run.
- No processes should be running on the ports in HOST and OES machine given in `installobphost.properties`.
- Values in `installobphost.properties` must be correct. At run time no option is given to change them.
- No other schema should exist in db with the same prefix as `HOST_DB_SCHEMA_PREFIX` specified in `installobphost.properties`. `OBP_HOST_DB_USER` should be given on the basis of `HOST_DB_SCHEMA_PREFIX`.  
For example, if `HOST_DB_SCHEMA_PREFIX` is `DEV`, then `OBP_HOST_DB_USER` should be `DEV_OBP_HOST`.
- `OID_DOMAIN_NAME` in `installobphost.properties` should match with the `OID_DOMAIN_NAME` given in `installobpui.properties`. Any other domain with the same name must not exist in OID. The domain in OID will be created in host pre-install.
- `OBP_HOST_DB_USER` and `BIP_DATASOURCE_NAME` must be same in `installobphost.properties`.
- The following schemas are manually created prior to installation and are available for updation in the checklist:
  - `MDS_HOST_DB_USER` (by RCU)
  - `OBP_HOST_DB_USER` (by RCU)
  - `OES_SCHEMA_USER` (by RCU)
- `MDS_HOST_DB_USER` as updated in `installobphost.properties` and `MDS_SCHEMA_USER` as updated in `installobpui.properties` should point to the same MDS db schema.
- Oracle Text 11g must be installed in Host db.
- An OES WebLogic domain must exist and the admin server of this domain must be in running state prior to pre-installation.

- It is mandatory for Oracle Toplink 12c (12.1.3) to be installed on the machine, where OBP Host Media pack installation is planned. This path is required as input in the installer properties and has been mentioned in the checklist.

Before installing Oracle Toplink assign ORACLE\_HOME to TOPLINK\_INSTALLATION\_PATH and export variable to environment.

```
ORACLE_HOME=" ${TOPLINK_INSTALLATION_PATH} "
```

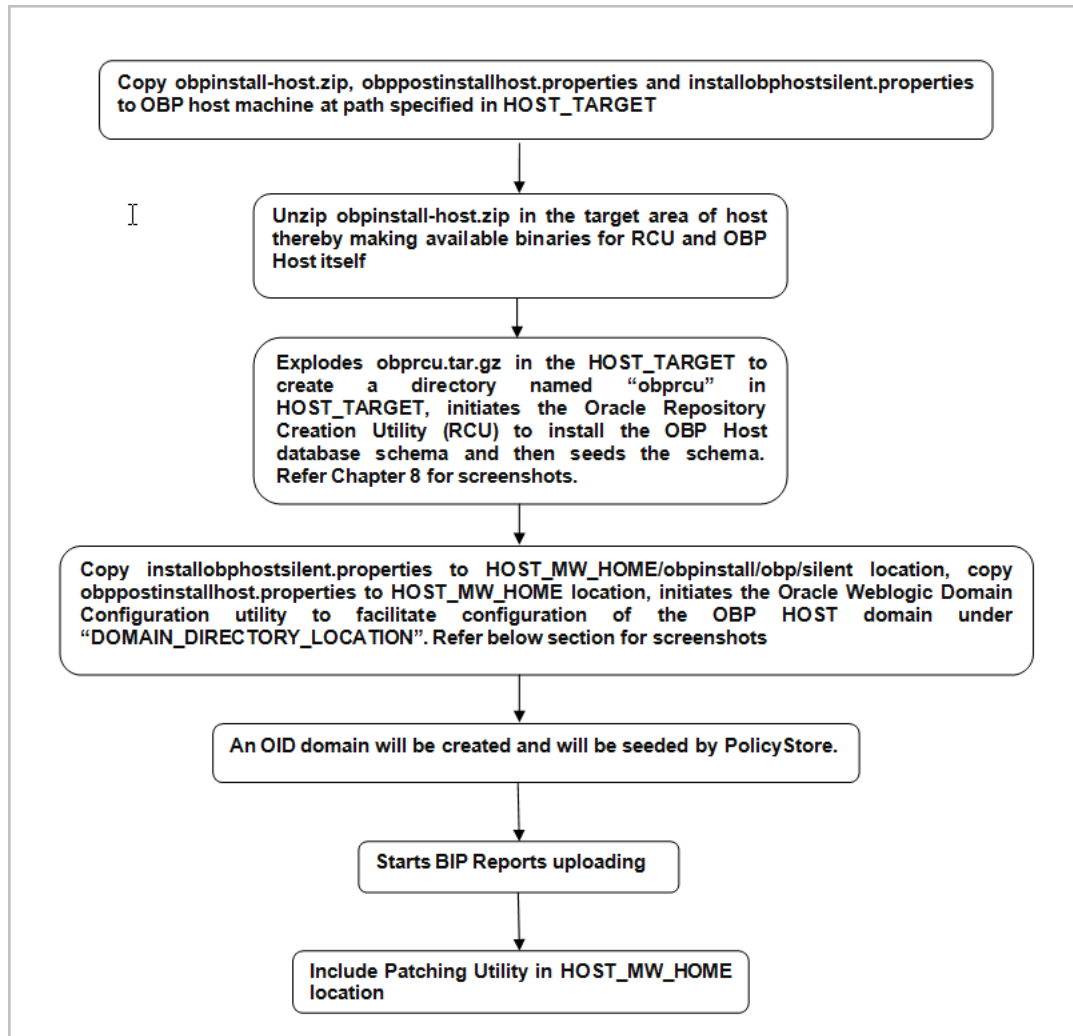
```
export ORACLE_HOME
```

### 3.1.3 Installation Steps

This section lists the installation steps required for the Oracle Banking Platform Host Media Pack installation.

1. Navigate to the directory where the media pack files are placed and execute `installobphost.sh`. The installation script shall echo the values entered in the `installobpui.properties` file and ask for confirmation to go ahead with the installation.
2. The installation script automatically triggers the following significant steps using secure remote copy 'scp' command and remote shell commands execution using the 'ssh' command.

**Figure 3–1 Steps in installobphost.sh script**



A sample output is given here.

**Figure 3–2 Verification of Properties**

```

ofssobp@ofss3131506/scratch/install/host
[ofssobp@ofss3131506 host]$ ./installobphost.sh
The present working directory is /scratch/install/host. It is assumed that all installables are present in this directory.
Printing the information:
SILENT_INSTALL                : y
HOST_DB_SCHEMA_CREATION_FLAG  : N
OID_FARM_AND_POLICY_SEEDING_FLAG : N
BIP_REPORTS_UPLOADING_FLAG    : N
LOCAL_IP                      : 10.180.91.52
LOCAL_DISPLAY_VALUE           : 0.0
DOMAIN_NAME                   : host_domain
DOMAIN_DIRECTORY_LOCATION     : /scratch/app/product/fmw/user_projects/domains
WEBLOGIC_USERNAME             : weblogic
WEBLOGIC_PASSWORD             : weblogic1
ADMIN_SERVER_LISTEN_ADDRESS   : 10.180.85.39
ADMIN_SERVER_LISTEN_PORT      : 7001
ADMIN_SERVER_SSL_LISTEN_PORT  : 7002
MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.39
MANAGED_SERVER_LISTEN_PORT    : 8001
MANAGED_SERVER_SSL_LISTEN_PORT : 8002
POLICY_SEEDING_TYPE           : LDAP
LDAP_PROVIDER                 : OID
OID_IP                        : 10.180.85.42
OID_ADMIN_USER                : cn=orcladmin
OID_ADMIN_PWD                 : welcome1
OID_DOMAIN_NAME               : ouidomain
OID_DOMAIN_PORT               : 7005
OID_GROUP_DSN                 : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN                  : cn=Users,dc=in,dc=oracle,dc=com
JPS_CONTEXT_DSN               : cn=jpsroot
NODE_MGR_PORT                 : 5556
HOST_IP                      : 10.180.85.39
HOST_TARGET                   : /scratch/app/product/fmw/target
HOST_JAVA_HOME                : /scratch/app/product/jrockit-jdk1.6.0_51
HOST_MW_HOME                  : /scratch/app/product/fmw
UI_ADMIN_SERVER_LISTEN_ADDRESS : 10.180.85.40
UI_ADMIN_SERVER_LISTEN_PORT   : 7001
SOA_IP                        : 10.180.85.41
SOA_UNIX_USER                 : ofssobp
SOA_MW_HOME                   : /scratch/app/product/fmw
SOA_WEBLOGIC_USERNAME         : weblogic
SOA_WEBLOGIC_PASSWORD         : weblogic1
SOA_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.41
SOA_MANAGED_SERVER_LISTEN_PORT : 8001
UI_IP                        : 10.180.85.40
UI_UNIX_USER                  : ofssobp
UI_DOMAIN_HOME                : /scratch/app/product/fmw/user_projects/domains/ui_domain
INSTALL_AS                   : ofssobp
BIP_SERVER_IP                 : 10.180.9.73
BIP_SERVER_PORT               : 9704
BIP_UNIX_USER                 : oracle
BIP_HOME                      : /oracle/app/product/fmw1/Oracle_BI1
BIP_INSTANCE_PATH             : /oracle/app/product/fmw1/instances/instance1
BIP_SERVER_USER               : weblogic
BIP_SERVER_PSWD               : weblogic1
BIP_REPORT_BASE_PATH          : /OBP3/R2BINSTALLER3
BIP_DATASOURCE_NAME           : forhdevsails40
IPM_SERVER_IP                 : 10.180.9.97
IPM_SERVER_PORT               : 16000
OFSAA_SERVER_IP               : ofsaa-ofss.com
OFSAA_SERVER_PORT             : 17000

```

3. Verify the value of each property carefully before proceeding.
4. If all values are correct, then enter 'Y' or 'y' and press Enter to initiate the installation. The installation utility performs the installation and domain is created silently.

**Figure 3–3 Confirmation and Copying of Installables to Target Machine**

```

root@IFLMUD51M00385:/opt/oracle/fmw/sudip_MW_11.1.1.6/mediapack_silent/host
HOST_ADMIN_JVM_PARAMS      : -Xms512m -Xmx1024m -Xgc:gencon -XXnoSystemgc
HOST_MANAGED_JVM_PARAMS    : -XXaggressive -Xms4096m -Xmx4096m -Xgc:pausetime -XXnoSystemgc -XX:-FlightRecorder
IPM_OUTBOUND_USERNAME      : ipmweblogic
IPM_OUTBOUND_PASSWORD      : weblogic1
BIF_OUTBOUND_USERNAME      : bifweblogic
BIF_OUTBOUND_PASSWORD      : weblogic1
ODI_OUTBOUND_USERNAME      : odiweblogic
ODI_OUTBOUND_PASSWORD      : weblogic1
OIM_OUTBOUND_USERNAME      : oimweblogic
OIM_OUTBOUND_PASSWORD      : weblogic1
WCM_OUTBOUND_USERNAME      : wcmweblogic
WCM_OUTBOUND_PASSWORD      : weblogic1
OFFLINE_CHANNEL_OUTBOUND_USERNAME : offlinechannelweblogic
OFFLINE_CHANNEL_OUTBOUND_PASSWORD : weblogic1
SAML_ISSUER_OUTBOUND_USERNAME : samlissuerweblogic
SAML_ISSUER_OUTBOUND_PASSWORD : weblogic1
BPCL_ENCRYPTION_OUTBOUND_USERNAME : bpclencryptionweblogic
BPCL_ENCRYPTION_OUTBOUND_PASSWORD : weblogic1
FTP_IPM_OUTBOUND_USERNAME : ftpipmweblogic
FTP_IPM_OUTBOUND_PASSWORD : weblogic1
BIP_USR_OUTBOUND_USERNAME : bipusrweblogic
BIP_USR_OUTBOUND_PASSWORD : weblogic1
SOA_PURGING_OUTBOUND_USERNAME : soapurgingweblogic
SOA_PURGING_OUTBOUND_PASSWORD : weblogic1
SOA_OUTBOUND_USERNAME      : soaweblogic
SOA_OUTBOUND_PASSWORD      : weblogic1
ATMUSER_OUTBOUND_USERNAME : atmuserweblogic
ATMUSER_OUTBOUND_PASSWORD : weblogic1
POSUSER_OUTBOUND_USERNAME : posuserweblogic
POSUSER_OUTBOUND_PASSWORD : weblogic1
DMSHOST_OUTBOUND_USERNAME : dmshostweblogic
DMSHOST_OUTBOUND_PASSWORD : weblogic1
DMSUI_OUTBOUND_USERNAME    : dmsuiweblogic
DMSUI_OUTBOUND_PASSWORD    : weblogic1
KEYSTORE_PASSWORD          : welccm1
UCM_READ_FROM_URL          : true
UCM_IP                      : ofss.ucm.com
UCM_PORT                    : 4444

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
y
Installation will begin in sometime.
Please wait while the installables are copied onto the servers.

#####
This computer including any devices attached to this computer and the
information systems accessed from this point contain information that is
confidential.

Your activities and use of these facilities are monitored.
Your use of (and related activities in connection with) these facilities is
recorded and may be reviewed at any time.

For Support You may Contact,
InfraStructure Team
#####
oracle@10.180.25.15's password:
obpininstall-host.zip
81% 606MB 11.2MB/s 00:12 ETA

```

5. After copying, there is host DB schema creation and seeding.  
 After extracting the installables, the domain gets installed and a confirmation message is shown.



Figure 3–4 Domain Installation Confirmation

```

root@FLMUD51M00385:opt/oracle/fmw/sudip_MW_11.1.16/mediapack_silent/host
obpininstall/inventory/Templates/rdcms/
obpininstall/inventory/Templates/rdcms/install/
obpininstall/inventory/Templates/rdcms/install/sbs/
obpininstall/inventory/Templates/rdcms/install/sbs/diagsetup.sbs
obpininstall/inventory/Templates/rdcms/install/sbs/asm.sbs
obpininstall/inventory/Templates/rdcms/install/sbs/antimesa.sbs
obpininstall/inventory/Templates/rdcms/install/sbs/dbmsaml.sbs
obpininstall/inventory/Templates/rdcms/install/sbs/umu.sbs
obpininstall/inventory/Templates/rdcms/demo/
obpininstall/inventory/Templates/rdcms/demo/sgxml.conf
CLASSPATH=/oracle/app/product/fmw/patch_wls1035/profiles/default/sys_manifest_classpath/weblogic_patch.jar:/oracle/app/product/oracle_jrockit_jdk1.6.0_31_R28.2.3/lib/tools.jar:/oracle/app/product/fmw/wlserver_10.3/ser
er/lib/weblogic_sp.jar:/oracle/app/product/fmw/wlserver_10.3/server/lib/weblogic.jar:/oracle/app/product/fmw/modules/features/weblogic.server.modules_10.3.5
.0.jar:/oracle/app/product/fmw/wlserver_10.3/server/lib/webservices.jar:/oracle/app/product/fmw/modules/org.apache.ant_1.7.1/lib/ant-all.jar:/oracle/app/produ
ct/fmw/modules/net.sf.antcontrib_1.1.0.0_1-0b2/lib/ant-contrib.jar:/oracle/app/product/fmw/obpininstall/common/wlst/resources/wsm-wlst.jar:/oracle/app/produ
ct/fmw/oracle_common/modules/oracle_jps_11.1.1/jps-wls-trustprovider.jar:/oracle/app/product/fmw/oracle_common/modules/oracle_jff_11.1.1/jff-wlstman.jar:/orac
le/app/product/fmw/oracle_common/common/wlst/lib/adfscripting.jar:/oracle/app/product/fmw/oracle_common/common/wlst/lib/adf-share-means-wlst.jar:/oracle/app/
product/fmw/oracle_common/common/wlst/lib/mdavlst.jar:/oracle/app/product/fmw/oracle_common/common/wlst/resources/auditwlst.jar:/oracle/app/product/fmw/oracl
e_common/common/wlst/resources/igfwlsthelp.jar:/oracle/app/product/fmw/oracle_common/common/wlst/resources/jps-wlst.jar:/oracle/app/product/fmw/oracle_common
/common/wlst/resources/jrf-wlst.jar:/oracle/app/product/fmw/oracle_common/common/wlst/resources/oamap_help.jar:/oracle/app/product/fmw/oracle_common/common/w
lst/resources/oamAuthnProvider.jar:/oracle/app/product/fmw/oracle_common/common/wlst/resources/ossolap_help.jar:/oracle/app/product/fmw/oracle_common/common/wl
st/resources/ossolap.jar:/oracle/app/product/fmw/oracle_common/common/wlst/resources/ovdwlsthelp.jar:/oracle/app/product/fmw/oracle_common/common/wlst/reso
urces/ssiconfigwlst.jar:/oracle/app/product/fmw/oracle_common/common/wlst/resources/wsm-wlst.jar

PATH=/oracle/app/product/fmw/wlserver_10.3/server/bin:/oracle/app/product/fmw/modules/org.apache.ant_1.7.1/bin:/oracle/app/product/oracle_jrockit_jdk1.6.0_31
_R28.2.3/jre/bin:/oracle/app/product/oracle_jrockit_jdk1.6.0_31_R28.2.3/bin:/usr/kerberos/bin:/usr/local/bin:/bin:/usr/bin

Your environment has been set.

CLASSPATH=/oracle/app/product/fmw/patch_wls1035/profiles/default/sys_manifest_classpath/weblogic_patch.jar:/oracle/app/product/fmw/patch_ocp360/profiles/defa
ult/sys_manifest_classpath/weblogic_patch.jar:/oracle/app/product/oracle_jrockit_jdk1.6.0_31_R28.2.3/lib/tools.jar:/oracle/app/product/fmw/wlserver_10.3/ser
ver/lib/weblogic_sp.jar:/oracle/app/product/fmw/wlserver_10.3/server/lib/weblogic.jar:/oracle/app/product/fmw/modules/features/weblogic.server.modules_10.3.5
.0.jar:/oracle/app/product/fmw/wlserver_10.3/server/lib/webservices.jar:/oracle/app/product/fmw/modules/org.apache.ant_1.7.1/lib/ant-all.jar:/oracle/app/produ
ct/fmw/modules/net.sf.antcontrib_1.1.0.0_1-0b2/lib/ant-contrib.jar:/oracle/app/product/fmw/obpininstall/common/wlst/resources/wsm-wlst.jar:/oracle/app/produ
ct/fmw/oracle_common/modules/oracle_jps_11.1.1/jps-wls-trustprovider.jar:/oracle/app/product/fmw/oracle_common/modules/oracle_jff_11.1.1/jff-wlstman.jar:/orac
le/app/product/fmw/oracle_common/common/wlst/lib/adfscripting.jar:/oracle/app/product/fmw/oracle_common/common/wlst/lib/adf-share-means-wlst.jar:/oracle/app/
product/fmw/oracle_common/common/wlst/lib/mdavlst.jar:/oracle/app/product/fmw/oracle_common/common/wlst/resources/auditwlst.jar:/oracle/app/product/fmw/oracl
e_common/common/wlst/resources/igfwlsthelp.jar:/oracle/app/product/fmw/oracle_common/common/wlst/resources/jps-wlst.jar:/oracle/app/product/fmw/oracle_common
/common/wlst/resources/jrf-wlst.jar:/oracle/app/product/fmw/oracle_common/common/wlst/resources/oamap_help.jar:/oracle/app/product/fmw/oracle_common/common/w
lst/resources/oamAuthnProvider.jar:/oracle/app/product/fmw/oracle_common/common/wlst/resources/ossolap_help.jar:/oracle/app/product/fmw/oracle_common/common/wl
st/resources/ossolap.jar:/oracle/app/product/fmw/oracle_common/common/wlst/resources/ovdwlsthelp.jar:/oracle/app/product/fmw/oracle_common/common/wlst/reso
urces/ssiconfigwlst.jar:/oracle/app/product/fmw/oracle_common/common/wlst/resources/wsm-wlst.jar:/oracle/app/product/fmw/util/config/10.3/config-launch.jar
:/oracle/app/product/fmw/wlserver_10.3/common/derby/lib/derbynet.jar:/oracle/app/product/fmw/wlserver_10.3/common/derby/lib/derbyclient.jar:/oracle/app/produ
ct/fmw/wlserver_10.3/common/derby/lib/derbytools.jar::

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

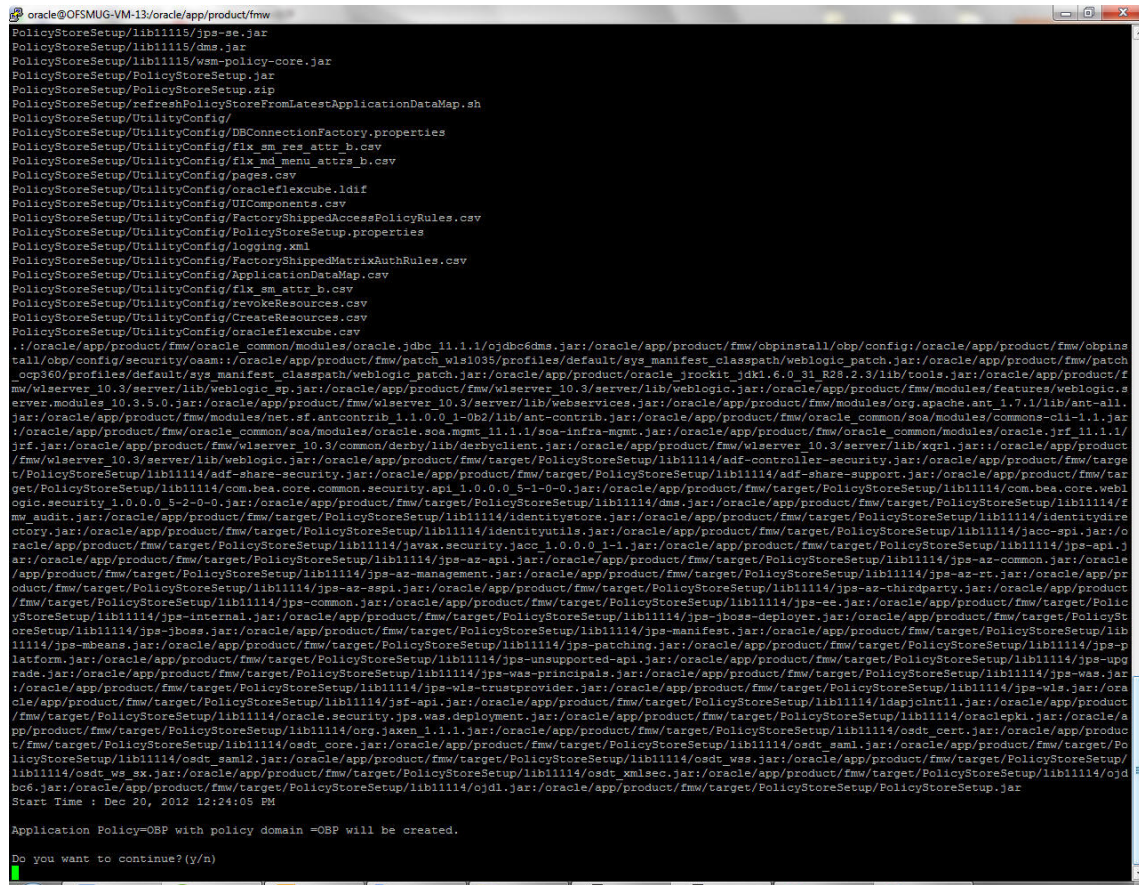
Type help() for help on available commands

Domain creation started..
Read domain /oracle/app/product/fmw/user_projects/domains/host_domain to applyJRF
Copy JRF configuration files from /oracle/app/product/fmw/oracle_common/modules to /oracle/app/product/fmw/user_projects/domains/host_domain/config/fmwconfig
/servers/obphost_server1
Target JRF components to "obphost_cluster1"
Update JRF changes to domain /oracle/app/product/fmw/user_projects/domains/host_domain in offline mode
Domain created successfully.

```

6. After completion of domain installation, it will proceed to OID domain creation and seeding.

Figure 3–5 OID Domain Creation and Seeding



7. Finally, if HOST\_OPATCH\_CREATION\_FLAG="Y" in installobphost.properties file, the Host Pre Installation ends with creation of a directory called 'patchStage' and a directory called 'patching' with the OPatch Utility executing code.

### 3.1.4 Front End Processing Interface (FEPI) Installation Steps

Following are the basic steps for FEPI installation procedure:

#### Step 1 Installation

The installer will create a directory structure for FEPI as /scratch/app/product/fmw/obpinstall/obp/fepi

1. Change the paths in FEPI start scripts based on the environment.
2. Modify Start\_fepi\_atm.sh and Start\_fepi\_pos.sh located at /scratch/app/product/fmw/obpinstall/obp/fepi/scripts.
3. Change the property values in channels\_atm.properties and channels\_pos.properties based on the environment as follows:

Property	Description	Example
BANK_CODE	Indicates the bank code	BANK_CODE=335
LISTENER_PORT	The port number on which FEPI server accepts incoming ISO message requests	LISTENER_PORT=9999

Property	Description	Example
COMMAND_PORT	The port number on which FEPI server accepts command message  Note: Need to specify an available valid port number, so that FEPI starts; it is a feature of native code and currently no messages are sent.	COMMAND_PORT=9998
ISO_TRACE_FILE_AREA	The location for ATM Trace logs	ISO_TRACE_FILE_AREA=/scratch/app/product/fmw/obpinstall/obp/fepi/logs/ATMTRACE
FNDI.FJ.java.naming.provider.url	The IP address and port number on which WebLogic accepts requests	FNDI.FJ.java.naming.provider.url=t3://10.180.9.108:7001

4. Start ATM and POS FEPI.
5. On prompt enter WebLogic login credentials. For example, \$ sh start\_fepi\_atm.sh.

### Step 2 ATM and POS Trace logs

The Trace logs are available in the logs folder. For example, the trace logs can be located at /oracle/deployables/iut2/fepi/logs.

Additionally, fepi-console and fepi-ofss logs are also stored at the above location for ATM and POS FEPI server.

### Step 3 module.channel or cz.module.channel enabling of logs

This is not related to FEPI, and these logs (host logs) are controlled by logging.xml of the WebLogic server.

### Step 4 Multiple Instances

Currently, there are two instances of FEPI which are ATM and POS. Each instance has the following set of individual files along with the common shared files. For example, for the ATM FEPI server, the files are as follows:

File Name	Description
channels_atm.properties	Configuration file
fepi_atm.logging.xml	Logging configuration file
start_fepi_atm.sh	Start script
stop_fepi_atm.sh	Stop script

## 3.2 Post Installation Configuration

This section describes the post installation configuration procedure for Oracle Banking Platform Host Media Pack. This can be started after the UI Post installation.

### Checklist for Post Installation Procedure

Before proceeding with the post installation procedure for the host, ensure the following:

- UI post installation has been done.

- Node manager is not running and no other process is running on NODE\_MGR\_PORT.
- OID domain given in obppostinstallhost.properties must exist (It is actually created in HOST pre-install).
- Host db schema seeding has been done.
- The node manager port should be free. You can verify this using the following command, where 5556 is the Node Manager Port.

```
$netstat -na | grep 5556
```

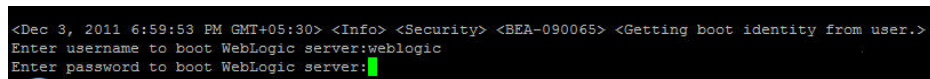
### Post Installation Configuration

1. Start the domain admin WebLogic server by executing the startWebLogic.sh script in the host domain directory.

```
cd <middleware home>
cd user_projects/domains/obphostdomain
./startWebLogic.sh
```

2. Enter the username and password to ensure that the WebLogic server starts.

**Figure 3–6 Host Domain Admin Server Credentials**



3. Once the server status changes to RUNNING, proceed to execute the post installation script for Host domain located under middleware. This script performs a multitude of configurations such as:
  - Making changes in Oracle Banking Platform config properties to point to the appropriate integration server (Example: Setting the BIP server URL)
  - Setting the security realm properties of WebLogic domain and reassociating the same to the OID
  - Trust configuration setup using the trust keys copied from the UI domain

---

**Note:** Ensure that Oracle IPM application is running as during post install of Oracle Banking Platform host. There is a call to the same for creating Oracle Banking Platform content applications.

---

4. Navigate to the middleware home and list the files in the directory. A post installation and configuration script named obp-host-post-install.sh will be listed along with other files and directories.
5. Execute the script using the following command:
 

```
./obp-host-post-install.sh
```
6. For monitoring the script run, check the following log files created under the UI domain directory:
  - obp-host-install-log.txt
  - obp-host-install-log-py.txt

---

---

**Note:** The output shown here is a sample output and may vary slightly from the original output.

---

---

**Figure 3–7** Host Domain Post Installation Script Execution



A terminal window screenshot showing the execution of a post-installation script. The window title is "oracle@OFSMUG-VM-05/oracle/app/product/fmw". The prompt is "[oracle@OFSMUG-VM-05@25.15 ~]\$" and the user has navigated to the directory "/oracle/app/product/fmw". The prompt is now "[oracle@OFSMUG-VM-05@25.15 fmw]\$" and the user has entered the command "./cbp-host-post-install.sh". The terminal output is mostly black, with a single character "I" visible in the center. The window has standard Linux window controls (minimize, maximize, close) in the top right corner.

```
oracle@OFSMUG-VM-05/oracle/app/product/fmw
[oracle@OFSMUG-VM-05@25.15 ~]$ cd /oracle/app/product/fmw
[oracle@OFSMUG-VM-05@25.15 fmw]$ ./cbp-host-post-install.sh
I
```



**Figure 3–8 Host Domain Post Installation Script Execution Summary**

```

oracle@OFSMUG-VM-05/oracle/app/product/fmw
SOA_PURGING_OUTBOUND_PASSWORD : weblogic1
SOA_OUTBOUND_USERNAME          : soaweblogic
SOA_OUTBOUND_PASSWORD          : weblogic1
AMUSER_OUTBOUND_USERNAME       : atmuserweblogic
AMUSER_OUTBOUND_PASSWORD       : weblogic1
POSUSER_OUTBOUND_USERNAME      : posuserweblogic
POSUSER_OUTBOUND_PASSWORD      : weblogic1
DMSHOST_OUTBOUND_USERNAME     : dmshostweblogic
DMSHOST_OUTBOUND_PASSWORD     : weblogic1
DMSUI_OUTBOUND_USERNAME       : dmsuiweblogic
DMSUI_OUTBOUND_PASSWORD       : weblogic1
KEYSTORE_PASSWORD             : welcomel
UCM_READ_FROM_URL              : true
UCM_IP                          : ofss.ucm.com
UCM_PORT                       : 4444

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
y
Post-installation will begin in sometime...

#####
This computer including any devices attached to this computer and the
information systems accessed from this point contain information that is
confidential.

Your activities and use of these facilities are monitored.
Your use of (and related activities in connection with) these facilities is
recorded and may be reviewed at any time.

For Support You may Contact,
InfraStructure Team
#####

oracle@10.180.25.23's password:
orakey.crt                               100% 457    0.5KB/s  00:00
orakey.crt copied from UI domain to /oracle/app/product/fmw/user_projects/domains/host_domain/config/fmwconfig
BIP_SERVICE_ENDPOINT as http://10.180.9.73:9704/xmlpserver/services/PublicReportService?wsl
IPM_URL as http://10.180.9.97:16000/imagings/ws
JDBC String as jdbc:oracle:thin:@10.180.22.245:1521:DEVDB
loc /oracle/app/product/fmw/obpinstall/obp/ipscripts/imaging-client.jar
java.lang.RuntimeException: Factory class constructor not found
    at oracle.imaging.ServicesFactory.createFactory(ServicesFactory.java:410)
    at oracle.imaging.ServicesFactory.login(ServicesFactory.java:374)
    at com.ofss.fc.utils.content.ContentDeploymentUtility.setupUCMConnection(ContentDeploymentUtility.java:344)
    at com.ofss.fc.utils.content.ContentDeploymentUtility.main(ContentDeploymentUtility.java:99)
Owner: CN=orakey, O="oracle C=us"
Issuer: CN=orakey, O="oracle C=us"
Serial number: 50d2b256
Valid from: Thu Dec 20 12:08:14 IST 2012 until: Wed Mar 20 12:08:14 IST 2013
Certificate Fingerprints:
    MD5: B3:EB:2A:61:6D:0B:1A:5D:EF:20:72:B2:C9:13:8B:D8
    SHA1: F2:2D:EA:84:7F:A0:A4:C6:E7:CS:D1:C1:0A:DF:86:B8:38:26:FC:8C
    Signature algorithm name: SHA1withRSA
    Version: 3
Trust this certificate? [no]: yes
Certificate was added to keystore
Logging WLS stderr to /oracle/app/product/fmw/user_projects/domains/host_domain/servers/AdminServer/stderr.log
Verifying setDomainEnv , checking OBP_ORACLE_HOME as
/oracle/app/product/fmw/obpinstall/obp

```

After completion of the host post installation, it will return to the command prompt.

Finally inside logging.xml file for managed servers, for example:

```
/scratch/app/product/fmw/user_projects/domains/host_
domain/config/fmwconfig/servers/obphost_server1/logging.xml
```

within the following xml tag:

```
<logging_configuration> <log_handlers> </log_handlers></logging_configuration>
```

we need to add:

```

<log_handler name='el-handler' level='TRACE:32'
class='oracle.core.ojdl.logging.ODLHandlerFactory'>
<property name='path' value='${fc.log.dir}/logs/eclipselink.log' />
<property name='maxFileSize' value='10485760' />
<property name='maxLogSize' value='104857600' />
<property name='encoding' value='UTF-8' />
<property name='useThreadName' value='true' />
<property name='supplementalAttributes'

```

```
value='J2EE_APP.name,J2EE_MODULE.name,WEBSERVICE.name,WEBSERVICE_
PORT.name,composite_instance_id,component_instance_id,composite_
name,component_name' />
```

```
</log_handler>
```

Within the following xml tag:

```
<logging_configuration><loggers></loggers></logging_configuration>
```

we need to add:

```
<logger name='org.eclipse.persistence' level='TRACE:32'
useParentHandlers='false'>
```

```
<handler name='el-handler' />
```

```
</logger>
```

```
<logger name='javax.persistence' level='TRACE:32'
useParentHandlers='false'>
```

```
<handler name='el-handler' />
```

```
</logger>
```

Then start the admin and managed servers to check the domain configuration status as described in verification part in [Section 12.2, "Host Domain Verification."](#)

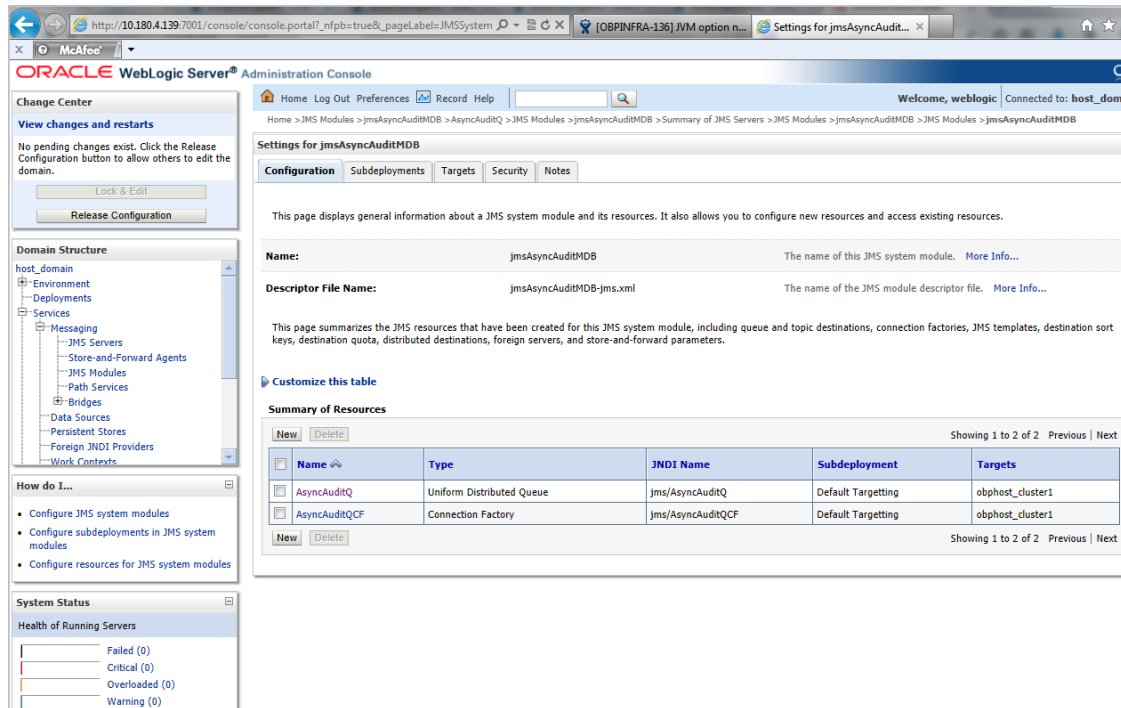
Due to the new feature of Asynchronous Audit being introduced, a JMS Module called `jmsAsyncAuditMDB` is required

**Figure 3–9 JMS System module Summary**

The screenshot shows the Oracle WebLogic Server Administration Console. The main content area displays the 'JMS Modules' configuration page. A message at the top states: 'The JMS module configuration was canceled.' Below this, a text block explains that JMS system resources are configured as modules and that this page summarizes the created modules for the domain. A table titled 'JMS Modules' lists 13 modules, each with a checkbox, name, and type (all are 'System'). The table includes modules like `jmsAccountingModule`, `jmsAnalyticsModule`, `jmsAsyncAuditMDB`, `jmsBatchModule`, `jmsCasaModule`, `jmsCollectionModule`, `jmsDomainPublishModule`, `jmsOriginationModule`, `jmsPricingAnalysisModule`, and `jmsReportModule`. The console interface includes a 'Change Center' on the left, a 'Domain Structure' tree, and a 'System Status' section at the bottom.

Name	Type
<code>jmsAccountingModule</code>	System
<code>jmsAnalyticsModule</code>	System
<code>jmsAsyncAuditMDB</code>	System
<code>jmsBatchModule</code>	System
<code>jmsCasaModule</code>	System
<code>jmsCollectionModule</code>	System
<code>jmsDomainPublishModule</code>	System
<code>jmsOriginationModule</code>	System
<code>jmsPricingAnalysisModule</code>	System
<code>jmsReportModule</code>	System

Figure 3–10 JMS module Configuration



Under the above mentioned JMS Module, we need to configure a queue connection factory and uniform distributed queue having the JNDI names and Targets as shown in the above figure.



---

# Oracle Banking Platform Presentation Media Pack Installation

This chapter details every step involved in the installation of Oracle Banking Platform Presentation (UI) Media pack. The subsequent section refers to the variable names specified in [Section 2.3, "Installation Checklists"](#).

## 4.1 Installation and Configuration Procedure

This section details the installation procedure for the Oracle Banking Platform Presentation Media Pack.

### 4.1.1 Preparatory Steps

This section lists the preparatory steps required for the Oracle Banking Platform Presentation Media Pack installation.

#### Step 1 Procuring Installables

Download the appropriate presentation media pack from the following location:

<http://edelivery.oracle.com/>

#### Step 2 Extracting the Installables

Copy the 'ui.zip' to a local Linux VM or Linux machine from where the installation will be carried out. Extract the 'ui.zip'. Three files will be extracted:

- A zip file 'obpinstall-ui.zip'
- The installation script 'installobpui.sh'
- The install configuration property file 'installobpui.properties'

#### Step 3 Printing Checklists

Take a printout of the installation checklist mentioned in [Section 2.3, "Installation Checklists"](#) of this guide and note the values applicable for each point in the last column for 'Value' so that the same is handy during the actual installation.

## 4.1.2 Pre-Installation Steps

This section lists the pre-installation steps required for the Oracle Banking Platform Presentation Media Pack installation.

### Step 1 Updating `installobpui.properties`

Navigate to the directory where the files `obpinstall-ui.zip`, `installobpui.sh` and `installobpui.properties` are placed and update `installobpui.properties` with relevant values from the checklist.

### Step 2 Checklist for a new setup

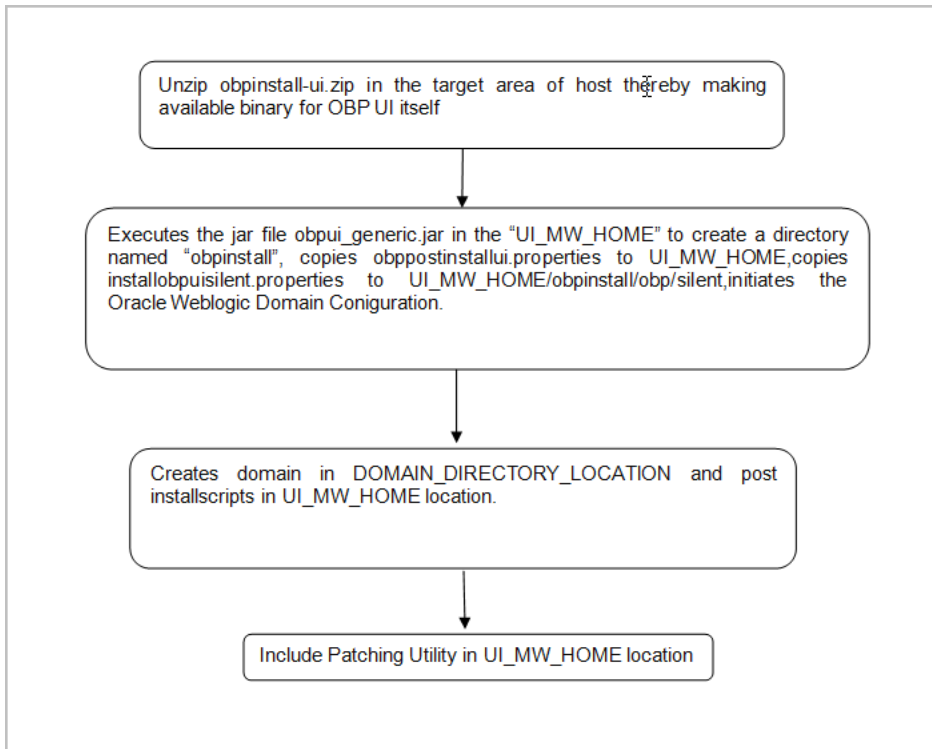
Before initiating installation on a completely new setup, check the following:

- Node manager must not be running on the target machine.
- Create a dummy folder named as Target and mention its path against `HOST_TARGET` property.
- In case of a re-installation ensure that the directory paths against `DOMAIN_DIRECTORY_LOCATION`, `OES_MW_HOME`, `HOST_TARGET` and `HOST_MW_HOME` specified in `installobpui.properties` are cleaned up for traces of any previous installations, as the remote shell copy may not be overwriting in case of any residual file left by the previous run.
- No processes should be running on the ports in HOST and OES machine given in `installobpui.properties`.
- `MDS_SCHEMA_USER` schema given in the `installobpui.properties` exists. This should point to the same schema as `MDS_HOST_DB_USER` of `installobphost.properties`.
- Values given in `installobpui.properties` must be correct. At run time, no option will be given to change the values.

## 4.1.3 Installation Steps

This section lists the installation steps required for the Oracle Banking Platform Presentation Media Pack installation.

1. Navigate to the directory where the media pack files are placed and execute `installobpui.sh`. The installation script shall echo the values entered in the `installobpui.properties` file and ask for a confirmation to go ahead with the installation.
2. The installation script automatically triggers the following significant steps using secure remote copy 'scp' command and remote shell commands execution using the 'ssh' command.

**Figure 4–1 Steps in *installobpui.sh* script**

A sample output is given here.

**Figure 4–2 Confirmation to Proceed Domain Installation**

```
[ofssobp@ofss3131507 oui-ui]$ ./installobpui.sh
The present working directory is /scratch/install/oui-ui. It is assumed that all installables are present in this directory.
Printing the installation details:-
SILENT_INSTALL                : y
LOCAL_IP                      : 10.180.91.52
LOCAL_DISPLAY_VALUE          : 0.0
DOMAIN_NAME                   : ui_domain
DOMAIN_DIRECTORY_LOCATION    : /scratch/app/product/fmw/user_projects/domains
WEBLOGIC_USERNAME            : weblogic
WEBLOGIC_PASSWORD            : weblogic1
MDS_SCHEMA_USER              : HOSTUI_MDS
MDS_SCHEMA_PASSWORD          : welcome1
MDS_DB_IP                    : 10.180.85.42
MDS_DB_PORT                   : 1521
MDS_DB_SERVICE_NAME          : ORA8542
HOST_SCHEMA_USER             : TEST1_OBP_HOST
HOST_SCHEMA_PASSWORD         : welcome1
HOST_DB_IP                   : 10.180.85.42
HOST_DB_PORT                  : 1521
HOST_DB_SERVICE_NAME         : ORA8542
OES_SCHEMA_USER              : HOSTUI_MDS
OES_SCHEMA_PASSWORD          : welcome1
OES_DB_IP                    : 10.180.85.42
OES_DB_PORT                   : 1521
OES_DB_SERVICE_NAME          : ORA8542
ADMIN_SERVER_LISTEN_ADDRESS  : 10.180.85.40
ADMIN_SERVER_LISTEN_PORT     : 7001
ADMIN_SERVER_SSL_LISTEN_PORT : 7002
MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.40
MANAGED_SERVER_LISTEN_PORT   : 8001
MANAGED_SERVER_SSL_LISTEN_PORT : 8002
POLICY_SEEDING_TYPE          : LDAP
LDAP_PROVIDER                 : OID
OID_IP                       : 10.180.85.42
OID_PORT                     : 3060
OID_ADMIN_USER                : cn=orcladmin
OID_ADMIN_FWD                 : welcome1
OID_DOMAIN_NAME               : ouidomain
OID_DOMAIN_PORT               : 7005
OID_GROUP_DSN                 : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN                  : cn=Users,dc=in,dc=oracle,dc=com
OES_CONTEXT_DSN               : jpsroot
NODE_MGR_PORT                 : 8556
OES_IP                       : 10.180.2.188
OES_MW_HOME                   : /scratch/app/product/fmw
OES_DOMAIN_NAME               : oesDomain
OES_UNIX_USER                 : ofssobp
UI_IP                         : 10.180.85.40
UI_HOST_NAME                  : ofss3131507
UI_TARGET                     : /scratch/app/product/fmw/target
UI_MW_HOME                    : /scratch/app/product/fmw
UI_JAVA_HOME                  : /scratch/app/product/jrockit-jdk1.6.0_51
OUI_JAVA_HOME                  : /usr/lib/jvm/java-1.7.0-openjdk-1.7.0.9.x86_64
CENTRAL_INVENTORY_LOC        : /scratch/app/product/fmw/obpinstall/inventory
INSTALL_AS                    : ofssobp
IPM_SERVER_IP                 : 10.180.9.97
IPM_SERVER_PORT               : 16000
OFSAA_SERVER_IP               : ofssaa-ofss.com
OFSAA_SERVER_PORT             : 17000
OAMM_SERVER_IP                : oamm-ofss.com
```

3. Verify the value of each property carefully before proceeding.
4. If all values are correct, then enter 'Y' or 'y' and press Enter to initiate the installation. The installation utility performs the installation and domain is created silently.

Figure 4-3 Copying and Extraction of obpininstall-ui.zip

```

OID_ADMIN_PWD           : welcome1
OID_DOMAIN_NAME        : ouidomain
OID_DOMAIN_PORT        : 7005
OID_GROUP_DSN          : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN           : cn=Users,dc=in,dc=oracle,dc=com
JPS_CONTEXT_DSN        : jpsroot
NODE_MGR_PORT          : 5556
OES_IP                  : 10.180.2.188
OES_MW_HOME            : /scratch/app/product/fmw
OES_DOMAIN_NAME        : oesDomain
OES_UNIX_USER          : ofssobp
UI_IP                   : 10.180.85.40
UI_HOST_NAME           : ofss913107
UI_TARGET               : /scratch/app/product/fmw/target
UI_MW_HOME             : /scratch/app/product/fmw
UI_JAVA_HOME           : /scratch/app/product/jrockit-jdk1.6.0_51
OUI_JAVA_HOME          : /usr/lib/jvm/java-1.7.0-openjdk-1.7.0.9.x86_64
CENTRAL_INVENTORY_LOC  : /scratch/app/product/fmw/obpininstall/inventory
INSTALL_AS              : ofssobp
IPM_SERVER_IP          : 10.180.9.97
IPM_SERVER_PORT        : 16000
OFSM_SERVER_IP         : ofssas-ofss.com
OFSM_SERVER_PORT       : 17000
OAMM_SERVER_IP         : oam-ofss.com
OAMM_SERVER_PORT       : 14000
OIM_SERVER_IP          : oim-ofss.com
OIM_SERVER_PORT        : 16000
UI_ADMIN_JVM_PARAMS    : -Xms512m -Xmx1024m -XXnoSystemGC
UI_MANAGED_JVM_PARAMS  : -Djbo.ampool.doampooling=false -XXaggressive -Xms4096m -Xmx4096m -Xgc:pausetime -XXnoSystemGC -XX:-FlightRecorder -Djbo
ckit.codegen.newlockmatching=true -Djbo.load.components.lazily=true -XX:-FlightRecorder
HOST_ADMIN_SERVER_LISTEN_ADDRESS : 10.180.85.39
HOST_ADMIN_SERVER_LISTEN_PORT   : 7001
HOST_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.39
HOST_MANAGED_SERVER_LISTEN_PORT   : 8001
SOA_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.41
SOA_MANAGED_SERVER_LISTEN_PORT    : 8001
KEYSTORE_PASSWORD                : welcome1
UI_SSL_PASSWORD                   : welcome1
UCH_READ_FROM_URL                 : true
UCH_IP                             : ofss.uch.com
UCH_PORT                           : 4444
OFFLINE_CHANNEL_OUTBOUND_USERNAME : offlineuser
OFFLINE_CHANNEL_OUTBOUND_PASSWORD : offlinepassword
CARD_USERNAME                      : orakey
CARD_PASSWORD                       : welcome1
RULE_USERNAME                       : orakey
RULE_PASSWORD                       : welcome1
USER_TIMEZONE                       : +S:30

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
y
Installation will begin in sometime.
Please wait while the installables are copied onto the servers.
ofssobp@10.180.85.40's password:
obpininstall-ui.zip                                     100% 390MB 194.9MB/s 00:02
obpostinstallui.properties                             100% 1904 1.9KB/s 00:00
installobpininstall.properties                         100% 862 0.8KB/s 00:00
The configuration of OBE UI domain will begin immediately.
ofssobp@10.180.85.40's password:

```

**Figure 4–4 Domain Creation Confirmation**

```

..... 75%
..... 76%
..... 80%
..... 83%
..... 86%
..... 90%
..... 93%
..... 96%
..... 99%

..... 47% Done.
..... 95% Done.
.....
Installation in progress (Tuesday, July 22, 2014 6:08:28 AM UTC)
.....
Install successful
..... 98% Done.

Linking in progress (Tuesday, July 22, 2014 6:08:28 AM UTC)
Link successful

Setup in progress (Tuesday, July 22, 2014 6:08:28 AM UTC)
Setup successful

Saving inventory (Tuesday, July 22, 2014 6:08:28 AM UTC)
Saving inventory complete
Configuration complete

End of install phases.(Tuesday, July 22, 2014 6:08:28 AM UTC)
Logs successfully copied to /scratch/app/product/fmw/obpinstall/inventory/logs.

CLASSPATH=/scratch/app/product/fmw/patch_wls1036/profiles/default/sys_manifest_classpath/weblogic_patch.jar:/scratch/app/product/fmw/patch_ocp371/profiles/default/sys_manifest_classpath/weblogic_patch.jar:/scratch/app/product/jrockit-jdk1.6.0_51/lib/tools.jar:/scratch/app/product/fmw/wlserver_10.3/server/lib/weblogic_sp.jar:/scratch/app/product/fmw/wlserver_10.3/server/lib/weblogic.jar:/scratch/app/product/fmw/modules/features/weblogic.server.modules_10.3.6.0.jar:/scratch/app/product/fmw/wlserver_10.3/server/lib/webserver.jar:/scratch/app/product/fmw/modules/org.apache.ant_1.7.1/lib/ant-all.jar:/scratch/app/product/fmw/modules/net.sf.antcontrib_1.1.0.0_1-0b2/lib/ant-contrib.jar:/scratch/app/product/fmw/obpinstall/common/wlst/resources/wsm-wlst.jar:/scratch/app/product/fmw/oracle_common/modules/oracle_jps_11.1.1/jps-wls-trustprovider.jar:/scratch/app/product/fmw/oracle_common/modules/oracle_jrf_11.1.1/jrf-wlstman.jar:/scratch/app/product/fmw/oracle_common/wlst/lib/afscripting.jar:/scratch/app/product/fmw/oracle_common/wlst/lib/afsf-share-mbeans-wlst.jar:/scratch/app/product/fmw/oracle_common/wlst/resources/audit/wlst.jar:/scratch/app/product/fmw/oracle_common/wlst/resources/igt/wlsthelp.jar:/scratch/app/product/fmw/oracle_common/wlst/resources/jps-wlst.jar:/scratch/app/product/fmw/oracle_common/wlst/resources/jps-wls-trustprovider.jar:/scratch/app/product/fmw/oracle_common/wlst/resources/jrf-wlst.jar:/scratch/app/product/fmw/oracle_common/wlst/resources/oamap_help.jar:/scratch/app/product/fmw/oracle_common/wlst/resources/oamAuthnProvider.jar:/scratch/app/product/fmw/oracle_common/wlst/resources/ossolap_help.jar:/scratch/app/product/fmw/oracle_common/wlst/resources/ossolap.jar:/scratch/app/product/fmw/oracle_common/wlst/resources/ovd/wlsthelp.jar:/scratch/app/product/fmw/oracle_common/wlst/resources/selconfig/wlst.jar:/scratch/app/product/fmw/oracle_common/wlst/resources/wsm-wlst.jar:/scratch/app/product/fmw/utls/config/10.3/config-launch.jar:/scratch/app/product/fmw/wlserver_10.3/common/derby/lib/derbynet.jar:/scratch/app/product/fmw/wlserver_10.3/common/derby/lib/derbyclient.jar:/scratch/app/product/fmw/wlserver_10.3/common/derby/lib/derbytools.jar::

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Domain creation started...
Read domain /scratch/app/product/fmw/user_projects/domains/ui_domain to applyJRF
Copying JRF configuration files from /scratch/app/product/fmw/oracle_common/modules to /scratch/app/product/fmw/user_projects/domains/ui_domain/config/fmwconfig/servers/obpui_server1
Target JRF components to "obpui_cluster01"
Update JRF changes to domain /scratch/app/product/fmw/user_projects/domains/ui_domain in offline mode
Domain created successfully.
[ofsobp@ofs3131507 oui-ui]$

```

The above domain configuration process also creates files named `obp-ui-post-install.sh` and `obp-ui-post-install.py` in `UI_MW_HOME` location which are to be used to perform post installation configuration as elaborated in [Section 4.2, "Post Installation Configuration"](#).

- Finally, if `UI_OPATCH_CREATION_FLAG="Y"` in `installobpui.properties` file, the UI Pre Installation ends with creation of a directory called 'patchStage' and a directory called 'patching' with the OPatch Utility executing code in `UI_MW_HOME`.

## 4.2 Post Installation Configuration

This section describes the post installation configuration procedure for Oracle Banking Platform Presentation Media Pack.

### Checklist for Post Installation Procedure

Before proceeding with the post installation procedure for UI, ensure the following:

- Node manager is not running on the UI machine.
- OID domain given in `obppostinstallui.properties` must exist in OID. (The OID domain is created at the time of host pre-install).
- Node manager port should be free. You can verify this using the following command, where 5556 is the Node Manager Port.

```
$netstat -na | grep 5556
```

## Post Installation Configuration

1. Start the domain admin WebLogic server by executing the startWebLogic.sh script in the domain directory.

```
cd <middleware home>
```

```
cd user_projects/domains/obpuidomain
```

```
./startWebLogic.sh
```

2. Enter the username and the password to ensure that the WebLogic server starts up.

Figure 4–5 UI Admin Server Credentials

```

oracle@OFSMUG-VM-13/oracle/app/product/fmw/user_projects/domains/ui_domain
[oracle@OFSMUG-VM-13@25.23 ~]$ cd /oracle/app/product/fmw/user_projects/domains/ui_domain
[oracle@OFSMUG-VM-13@25.23 ui_domain]$ ./startWebLogic.sh
Logging WLS stderr to /oracle/app/product/fmw/user_projects/domains/ui_domain/servers/AdminServer/stderr.log
.
.
.
JAVA Memory arguments: -Xms256m -Xmx512m
.
WLS Start Mode=Production
.
CLASSPATH=/oracle/app/product/fmw/oracle_common/modules/oracle.jdbc.11.1.1/objdbc6dms.jar:/oracle/app/product/fmw/obpinatall/obp/config:/oracle/app/product/fmw/obpinatall/obp/config/security/oaam:/oracle/app/product/fmw/patch_wls1035/profiles/default/sys_manifest_classpath/weblogic_patch.jar:/oracle/app/product/fmw/patch_ocp360/profiles/default/sys_manifest_classpath/weblogic_patch.jar:/oracle/app/product/oracle_jrockit_jdk1.6.0_31_R28.2.3/lib/tools.jar:/oracle/app/product/fmw/wlseserver_10.3/server/lib/weblogic_sp.jar:/oracle/app/product/fmw/wlseserver_10.3/server/lib/weblogic.jar:/oracle/app/product/fmw/modules/features/weblogic_server_modules_10.3.5.0.jar:/oracle/app/product/fmw/wlseserver_10.3/server/lib/weblogic.jar:/oracle/app/product/fmw/modules/org.apache.ant_1.7.1/lib/ant-all.jar:/oracle/app/product/fmw/modules/net.sf.amicontrib_1.1.0.0_1-0p2/lib/amc-contrib.jar:/oracle/app/product/fmw/oracle_common/soa/modules/commons-all-1.1.jar:/oracle/app/product/fmw/oracle_common/soa/modules/oracle_soa_mgmt_11.1.1/soa-infra-mgmt.jar:/oracle/app/product/fmw/oracle_common/modules/oracle_jrf_11.1.1/jrf.jar:/oracle/app/product/fmw/wlseserver_10.3/common/dexby/lib/dexbylient.jar:/oracle/app/product/fmw/wlseserver_10.3/server/lib/xqrl.jar
.
PATH=/oracle/app/product/fmw/wlseserver_10.3/server/bin:/oracle/app/product/fmw/modules/org.apache.ant_1.7.1/bin:/oracle/app/product/oracle_jrockit_jdk1.6.0_31_R28.2.3/jre/bin:/oracle/app/product/oracle_jrockit_jdk1.6.0_31_R28.2.3/bin:/oracle/app/product/oracle_jrockit_jdk1.6.0_31_R28.2.3/bin:/oracle/app/product/oracle_jrockit_jdk1.6.0_20_R28.1.0-4.0.1/bin:/usr/kerberos/bin:/usr/local/bin:/bin:/usr/bin:/home/oracle/bin:/oracle/app/product/11.2.0/dbhome_1/bin
.
*****
* To start WebLogic Server, use a username and *
* password assigned to an admin-level user. For *
* server administration, use the WebLogic Server *
* console at http://hostname:port/console *
*****
starting weblogic with Java version:
java version "1.6.0_31"
Java(TM) SE Runtime Environment (build 1.6.0_31-b05)
Oracle JRockit(R) (build R28.2.3-13-149708-1.6.0_31-20120327-1523-linux-x86_64, compiled mode)
Starting WLS with time:
/oracle/app/product/oracle_jrockit_jdk1.6.0_31_R28.2.3/bin/java -jrockit -Xms256m -Xmx512m -Dweblogic.Name=AdminServer -Djava.security.policy=/oracle/app/p
/oracle/app/wlseserver_10.3/server/lib/weblogic.policy -Dweblogic.ProductionModeEnabled=true -da -Dplatform.home=/oracle/app/product/fmw/wlseserver_10.3 -Dwls
home=/oracle/app/product/fmw/wlseserver_10.3/server -Dweblogic.home=/oracle/app/product/fmw/wlseserver_10.3/server -Dcommon.components.home=/oracle/app/product
/fmw/oracle_common -Djrf.version=11.1.1 -Dorg.apache.commons.logging.Log=org.apache.commons.logging.impl.Jdk4Logger -Ddomain.home=/oracle/app/product/fmw/use
r_projects/domains/ui_domain -Djrockit.optfile=/oracle/app/product/fmw/oracle_common/modules/oracle_jrf_11.1.1/jrockit_optfile.txt -Doracle.server.config.dir
=/oracle/app/product/fmw/user_projects/domains/ui_domain/config/fmwconfig/servers/AdminServer -Doracle.domain.config.dir=/oracle/app/product/fmw/user_project
s/domains/ui_domain/config/fmwconfig -Djgf.arisidbeans.carmloc=/oracle/app/product/fmw/user_projects/domains/ui_domain/config/fmwconfig/carmloc -Djgf.arisid
stack.home=/oracle/app/product/fmw/user_projects/domains/ui_domain/config/fmwconfig/arisidprovider -Doracle.security.jps.config=/oracle/app/product/fmw/user
_projects/domains/ui_domain/config/fmwconfig/jps-config.xml -Doracle.deployed.app.dir=/oracle/app/product/fmw/user_projects/domains/ui_domain/servers/AdminSer
ver/tmp/_WL_user -Doracle.deployed.app.ext=/ -Dweblogic.alternateTypesDirectory=/oracle/app/product/fmw/oracle_common/modules/oracle_osoaiap_11.1.1/_oracle
/app/product/fmw/oracle_common/modules/oracle_oamprovider_11.1.1 -Djava.protocol.handler.pkgs=oracle.mds.net.protocol -Dweblogic.jdbc.remoteEnabled=false -D
user.home=/oracle/app/product/fmw/obpinatall/obp/config -Drc.log.dir=/oracle/app/product/fmw/obpinatall/obp/logs -Dem.oracle.home=/oracle/app/product/fmw/
oracle_common -Djava.awt.headless=true -Dweblogic.management.discover=true -Dplw.iterativeDev=false -Dplw.testConsole=false -Dplw.logErrorsToConsole=false -
Dweblogic.Stderr=/oracle/app/product/fmw/user_projects/domains/ui_domain/servers/AdminServer/stderr.log -Dweblogic.ext.dirs=/oracle/app/product/fmw/patch_wls
1035/profiles/default/sysext_manifest_classpath:/oracle/app/product/fmw/patch_ocp360/profiles/default/sysext_manifest_classpath weblogic.Server
[WARN ] Use of -Djrockit.optfile is deprecated and discouraged.
<Dec 6, 2012 10:15:06 AM IST> <Info> <Security> <BEA-090906> <Disabling CryptoJ JCE Provider self-integrity check for better startup performance. To enable t
his check, specify -Dweblogic.security.allowCryptoDefaultSelfCertIntegrity=true>
<Dec 6, 2012 10:15:06 AM IST> <Info> <Security> <BEA-090906> <Changing the default Random Number Generator in RSA CryptoJ from ECDRBG to FIPS186PRNG. To disa
ble this change, specify -Dweblogic.security.allowCryptoDefaultPRNG=true>
<Dec 6, 2012 10:15:06 AM IST> <Info> <WebLogicServer> <BEA-000377> <Starting WebLogic Server with Oracle JRockit(R) Version R28.2.3-13-149708-1.6.0_31-201203
27-1523-linux-x86_64 from Oracle Corporation>
<Dec 6, 2012 10:15:07 AM IST> <Info> <Management> <BEA-141107> <Version: WebLogic Server 10.3.5.0 Fri Apr 1 20:20:06 PDT 2011 1398638 >
<Dec 6, 2012 10:15:09 AM IST> <Info> <Security> <BEA-090065> <Getting boot identity from user.>
Enter username to boot WebLogic server:weblogic
Enter password to boot WebLogic server:

```



Figure 4–6 UI Admin Server Running

```

oracle@OFSMUG-V13:oracle/app/product/fmw/user_projects/domains/ui_domain
KeyUsage [
  Key_CertSign
]
]
Algorithm: [MD5withRSA]
Signature:
0000: 9D 26 4C 29 C8 91 C3 A7 06 C3 24 6F AE B4 F8 82 .6L).....So....
0010: 80 4D AA CB 7C 79 46 84 81 C4 66 95 F4 1E D8 C4 .M...VF...f....
0020: E9 B7 D9 7C E2 23 3A A4 B7 21 E0 AA 54 2B 4A FF .....#3...!T+J.
0030: CB 21 20 88 81 21 DB AC 90 54 D8 7D 79 63 23 3C .! ...!...T..yc#<
] The system is vulnerable to security attacks, since it trusts certificates signed by the demo trusted CA.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Security> <BEA-090898> <Ignoring the trusted CA certificate "CN=Entrust Root Certification Authority - G2,OU=(c) 2009 Entrust, Inc. - For authorized use only,OU=See www.entrust.net/legal-terms,OU=Entrust, Inc.,C=US". The loading of the trusted certificate list raised a certificate parsing exception PKIX: Unsupported OID in the AlgorithmIdentifier object: 1.2.840.113549.1.1.11.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Security> <BEA-090898> <Ignoring the trusted CA certificate "CN=thawte Primary Root CA - G3,OU=(c) 2008 thawte, Inc. - For authorized use only,OU=Certification Services Division,O=thawte, Inc.,C=US". The loading of the trusted certificate list raised a certificate parsing exception PKIX: Unsupported OID in the AlgorithmIdentifier object: 1.2.840.113549.1.1.11.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Security> <BEA-090898> <Ignoring the trusted CA certificate "CN=T-TeleSec GlobalRoot Class 3,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE". The loading of the trusted certificate list raised a certificate parsing exception PKIX: Unsupported OID in the AlgorithmIdentifier object: 1.2.840.113549.1.1.11.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Security> <BEA-090898> <Ignoring the trusted CA certificate "CN=T-TeleSec GlobalRoot Class 2,OU=T-Systems Trust Center,O=T-Systems Enterprise Services GmbH,C=DE". The loading of the trusted certificate list raised a certificate parsing exception PKIX: Unsupported OID in the AlgorithmIdentifier object: 1.2.840.113549.1.1.11.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Security> <BEA-090898> <Ignoring the trusted CA certificate "CN=GlobalSign,O=GlobalSign,OU=GlobalSign Root CA - R3". The loading of the trusted certificate list raised a certificate parsing exception PKIX: Unsupported OID in the AlgorithmIdentifier object: 1.2.840.113549.1.1.11.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Security> <BEA-090898> <Ignoring the trusted CA certificate "OU=Security Communication RootCA2,O=SECOM Trust Systems CO.,LTD.,C=JP". The loading of the trusted certificate list raised a certificate parsing exception PKIX: Unsupported OID in the AlgorithmIdentifier object: 1.2.840.113549.1.1.11.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Security> <BEA-090898> <Ignoring the trusted CA certificate "CN=VeriSign Universal Root Certification Authority,OU=(c) 2008 VeriSign, Inc. - For authorized use only,OU=VeriSign Trust Network,O=VeriSign, Inc.,C=US". The loading of the trusted certificate list raised a certificate parsing exception PKIX: Unsupported OID in the AlgorithmIdentifier object: 1.2.840.113549.1.1.11.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Security> <BEA-090898> <Ignoring the trusted CA certificate "CN=KEYNECTIS ROOT CA,OU=ROOT,O=KEYNECTIS,C=FR". The loading of the trusted certificate list raised a certificate parsing exception PKIX: Unsupported OID in the AlgorithmIdentifier object: 1.2.840.113549.1.1.11.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Security> <BEA-090898> <Ignoring the trusted CA certificate "CN=GeoTrust Primary Certification Authority - G3,OU=(c) 2008 GeoTrust Inc. - For authorized use only,O=GeoTrust Inc.,C=US". The loading of the trusted certificate list raised a certificate parsing exception PKIX: Unsupported OID in the AlgorithmIdentifier object: 1.2.840.113549.1.1.11.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Server> <BEA-002613> <Channel "DefaultSecure[2]" is now listening on 127.0.0.1:7002 for protocols iiops, t3s, ldaps, https.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Server> <BEA-002613> <Channel "DefaultSecure[3]" is now listening on 0:0:0:0:0:0:1:7002 for protocols iiops, t3s, ldaps, https.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Server> <BEA-002613> <Channel "Default[3]" is now listening on 0:0:0:0:0:0:1:7001 for protocols iiop, t3, ldaps, snmp, http.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Server> <BEA-002613> <Channel "Default[1]" is now listening on fe80:0:0:0:216:3eff:fe35:67a4:7001 for protocols iiop, t3, ldaps, snmp, http.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Server> <BEA-002613> <Channel "DefaultSecure" is now listening on 10.180.25.23:7002 for protocols iiops, t3s, ldaps, https.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Server> <BEA-002613> <Channel "DefaultSecure[1]" is now listening on fe80:0:0:0:216:3eff:fe35:67a4:7002 for protocols iiops, t3s, ldaps, https.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Server> <BEA-002613> <Channel "Default[2]" is now listening on 127.0.0.1:7001 for protocols iiop, t3, ldaps, snmp, http.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <Server> <BEA-002613> <Channel "Default" is now listening on 10.180.25.23:7001 for protocols iiop, t3, ldaps, snmp, http.>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <WebLogicServer> <BEA-000329> <Started WebLogic Admin Server "AdminServer" for domain "ui_domain" running in Production Mode>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <WebLogicServer> <BEA-000365> <Server state changed to RUNNING>
<Dec 6, 2012 10:16:39 AM IST> <Notice> <WebLogicServer> <BEA-000360> <Server started in RUNNING mode>

```

- Once the server status changes to RUNNING proceed to execute the post installation script.
- Navigate to the middleware home and list the files in the directory. A post installation and configuration script named obp-ui-post-install.sh will be listed along with other files and directories.
- Navigate to the UI middleware location and give executable permission to the post install script:

```
$cd <ui middleware home>
```
- Execute the script using the following commands:

```
$. /obp-ui-post-install.sh
```



Figure 4-7 UI Post Install Script Confirm

```

DOMAIN_DIRECTORY_LOCATION      : /scratch/app/product/fmw/user_projects/domains
ADMIN_SERVER_LISTEN_ADDRESS    : 10.180.85.40
ADMIN_SERVER_LISTEN_PORT      : 7001
MANAGED_SERVER_LISTEN_ADDRESS  : 10.180.85.40
MANAGED_SERVER_LISTEN_PORT    : 8001
WEBLOGIC_USERNAME              : weblogic
WEBLOGIC_PASSWORD              : weblogic1
UI_ADMIN_JVM_PARAMS            : -Xms512m -Xmx1024m -XXnoSystemGC
UI_MANAGED_JVM_PARAMS          : -Djbo.ampool.doampooling=false -XXaggressive -Xms4096m -Xmx4096m -Xgc:pausetime -XXnoSystemGC -XX:-FlightRecorder -Dpro
okit.codegen.newlockmatching=true -Djbo.load.components.lazily=true -XX:-FlightRecorder
UI_IP                           : 10.180.85.40
UI_HOST_NAME                    : ofssa131507
UI_TARGET                       : /scratch/app/product/fmw/target
UI_MW_HOME                     : /scratch/app/product/fmw
KEYSTORE_PASSWORD              : welcome1
UI_SSL_PASSWORD                 : welcome1
INSTALL_AS                      : ofssobp
HOST_ADMIN_SERVER_LISTEN_ADDRESS : 10.180.85.39
HOST_ADMIN_SERVER_LISTEN_PORT  : 7001
HOST_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.39
HOST_MANAGED_SERVER_LISTEN_PORT : 8001
SOA_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.41
SOA_MANAGED_SERVER_LISTEN_PORT  : 8001
POLICY_SEEDING_TYPE            : LDAP
LDAP_PROVIDER                   : OID
OID_IP                          : 10.180.85.42
OID_PORT                        : 3060
OID_ADMIN_USER                  : cn=orcladmin
OID_ADMIN_PWD                   : welcome1
OID_DOMAIN_NAME                 : ou=domain
OID_DOMAIN_PORT                 : 7005
OID_GROUP_DSN                   : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN                    : cn=Users,dc=in,dc=oracle,dc=com
JPS_CONTEXT_DSN                 : jpsroot
NODE_MGR_PORT                   : 5556
OES_IP                          : 10.180.2.188
OES_MW_HOME                     : /scratch/app/product/fmw
OES_DOMAIN_NAME                 : oesDomain
OES_UNIX_USER                   : ofssobp
IPM_SERVER_IP                   : 10.180.9.97
IPM_SERVER_PORT                 : 16000
OFSAA_SERVER_IP                 : ofsaa-ofss.com
OFSAA_SERVER_PORT               : 17000
OAMM_SERVER_IP                  : oamm-ofss.com
OAMM_SERVER_PORT                : 14000
OIM_SERVER_IP                   : oim-ofss.com
OIM_SERVER_PORT                 : 16000
UCM_READ_FROM_URL               : true
UCM_IP                          : ofss-ucm.com
UCM_PORT                        : 4444
OFFLINE_CHANNEL_OUTBOUND_USERNAME : offlineuser
OFFLINE_CHANNEL_OUTBOUND_PASSWORD : offlinepassword
CARD_USERNAME                   : orakey
CARD_PASSWORD                   : welcome1
RULE_USERNAME                   : orakey
RULE_PASSWORD                   : welcome1
USER_TIMEZONE                   : +5:30
Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.

```

**Figure 4–8 UI Post Install Script Running**

```

OFSAA_SERVER_PORT      : 17000
OAAM_SERVER_IP        : oaam-ofss.com
OAAM_SERVER_PORT      : 14000
OIM_SERVER_IP         : oim-ofss.com
OIM_SERVER_PORT       : 16000
UCM_READ_FROM_URL     : true
UCM_IP                : ofss-ucm.com
UCM_PORT              : 4444
OFFLINE_CHANNEL_OUTBOUND_USERNAME : offlineuser
OFFLINE_CHANNEL_OUTBOUND_PASSWORD : offlinepassword
CARD_USERNAME         : orakey
CARD_PASSWORD         : welcome1
RULE_USERNAME        : orakey
RULE_PASSWORD        : welcome1
USER_TIMEZONE         : +5:30

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
y
Post-installation will begin in sometime...
Generating a self signed certificate with common name ofss3131507 and key strength 1024
<Jul 22, 2014 12:07:38 PM IST> <Info> <Security> <BEA-090905> <Disabling CryptoJ JCE Provider self-integrity check for better startup performance. To enable
this check, specify -Dweblogic.security.allowCryptoJDefaultJCEVerification=true>
<Jul 22, 2014 12:07:39 PM IST> <Info> <Security> <BEA-090906> <Changing the default Random Number Generator in RSA CryptoJ from ECDRBG to FIPS186PRNG. To dis
able this change, specify -Dweblogic.security.allowCryptoJDefaultPRNG=true>
<Jul 22, 2014 12:07:39 PM IST> <Info> <Security> <BEA-090908> <Using default WebLogic SSL Hostname Verifier implementation.>

Imported private key UI_SSL_SelfKey.key.pem and certificate UI_SSL_SelfCA.cer.pem
into a new keystore UI_SSL_IdentityStore.jks of type jks under alias UI_SSL_trustself
Enter keystore password:
Re-enter new password:
Owner: CN=ofss3131507, OU=FOR TESTING ONLY, O=MyOrganization, L=MyTown, ST=MyState, C=US
Issuer: CN=ofss3131507, OU=FOR TESTING ONLY, O=MyOrganization, L=MyTown, ST=MyState, C=US
Serial number: 73e9db7332da86af465df78e3bf22087
Valid from: Mon Jul 21 12:07:37 IST 2014 until: Sat Jul 22 12:07:37 IST 2014
Certificate fingerprints:
    MD5: 4C:E1:38:F6:DD:72:72:BD:99:92:5C:05:89:9C:71:B4
    SHA1: B1:67:05:D5:AA:11:35:E9:2F:91:33:0B:55:61:8E:75:26:B1:56:E1
Signature algorithm name: MD5withRSA
Version: 3

Extensions:

#1: ObjectId: 2.5.29.15 Criticality=true
KeyUsage [
    Key_CertSign
]

#2: ObjectId: 2.5.29.19 Criticality=true
BasicConstraints:[
    CA:true
    PathLen:1
]

Trust this certificate? [no]: yes
Certificate was added to keystore
Certificate stored in file <orakey.crt>
Logging WLS stderr to /scratch/app/product/fmw/user_projects/domains/ui_domain/servers/AdminServer/stderr.log
-----
/scratch/app/product/fmw/obpinstall/obp

```

7. For monitoring the script run check the following log files created under the ui domain directory,

- obp-ui-install-log.txt
- obp-ui-install-log-py.txt

---

---

# Oracle Banking Platform SOA Media Pack Installation

This chapter details every step involved in the installation of Oracle Banking Platform SOA (Integration Server) Media pack. The subsequent section refers to the variable names specified in [Section 2.3, "Installation Checklists"](#).

## 5.1 Installation and Configuration Procedure

This section details the installation procedure for the Oracle Banking Platform SOA Media Pack.

### 5.1.1 Preparatory Steps

This section lists the preparatory steps required for the Oracle Banking Platform SOA Media Pack installation.

#### Step 1 Procuring Installables

Download the appropriate SOA media pack from the following location:

<http://edelivery.oracle.com/>

#### Step 2 Extracting the Installables

Copy the 'soa.zip' to a local Linux VM or Linux machine from where the installation will be carried out. Extract the 'soa.zip'. Three files will be extracted:

- A zip file 'obpinstall-soa.zip'
- The installation script 'installobpsoa.sh'
- The install configuration property file 'installobpsoa.properties'

#### Step 3 Printing Checklists

Take a printout of the installation checklist mentioned in [Section 2.3, "Installation Checklists"](#) of this guide and note the values applicable for each point in the last column for 'Value' so that the same is handy during the actual installation.

## 5.1.2 Pre-Installation Steps

This section lists the pre-installation steps required for the Oracle Banking Platform SOA Media Pack installation.

### Step 1 Updating `installobpsoa.properties`

Navigate to the directory where the files `obpinstall-soa.zip`, `installobpsoa.sh` and `installobpsoa.properties` are placed and update `installobpsoa.properties` with relevant values from the checklist.

### Step 2 Checklist for a new setup

Before initiating installation, check the following:

- Node manager must not be running on the target machine.
- Create a dummy folder named `target` and mention its path against `HOST_TARGET` property.
- All required database schema are to be created manually using RCU 11.1.1.9. The schema are as follows:
  - `MDS_SCHEMA_USER`
  - `BAM_SCHEMA_USER`
  - `SOA_INFRASTRUCTURE_SCHEMA_USER`
  - `USER_MESSAGING_SERVICE_SCHEMA_USER`

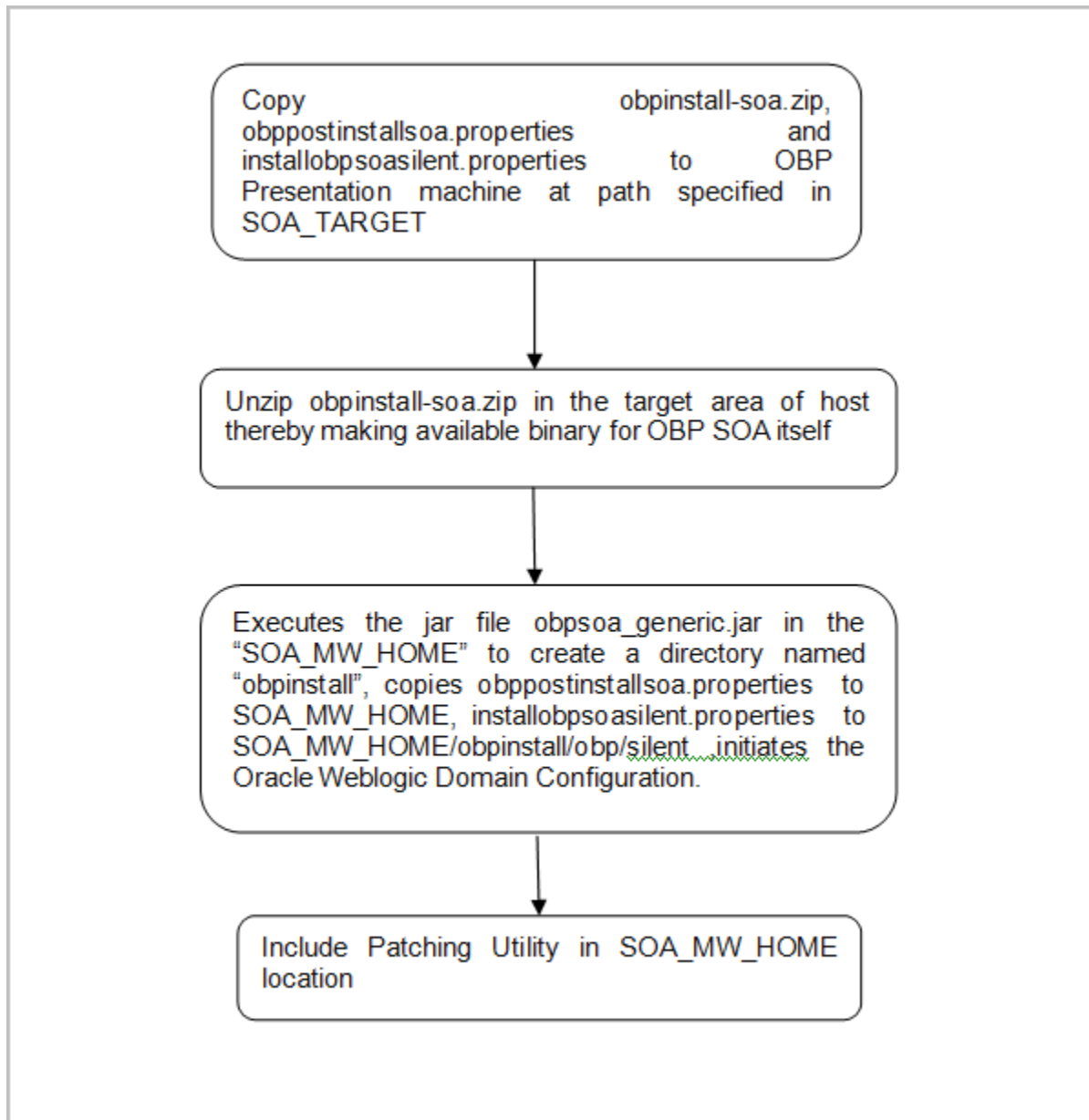
Prefix for all these four schema should be same.

- Values given in `installobpui.properties` must be correct. At run time, no option is given to change the values.
- No processes should be running on the ports given in `installobpsoa.properties`.
- `OID_DOMAIN_NAME` in `installobpsoa.properties` must not exist in `OID` and must be different from `OID_DOMAIN_NAME` in `installobpui.properties`.
- In case of a re-installation ensure that the directory paths against `SOA_TARGET` and `SOA_MW_HOME` specified in `installobpsoa.properties` are cleaned up for traces of any previous installations, as the remote shell copy may not be overwriting in case of any residual file left by the previous run.
- Before initiating the installation, ensure that all the values given in `installobpsoa.properties` are correct. At the time of installation, the values will only be displayed once for verification, and it will not be possible to change the values once the installation begins.

## 5.1.3 Installation Steps

This section lists the installation steps required for the Oracle Banking Platform SOA Media Pack installation.

1. Navigate to the directory where the media pack files are placed and execute `installobpsoa.sh`. The installation script shall echo the values entered in the `installobpsoa.properties` file and ask for a confirmation to go ahead with the installation.
2. The installation script automatically triggers the following significant steps using secure remote copy 'scp' command and remote shell commands execution using the 'ssh' command.

**Figure 5-1 Steps in `installobpsoa.sh` script**

A sample output is given here.

**Figure 5–2 Confirmation to Proceed Domain Installation**

```

BAM_SERVER_LISTEN_ADDRESS : 10.180.85.41
BAM_SERVER_LISTEN_PORT   : 9003
BAM_SERVER_SSL_LISTEN_PORT : 9004
HOST_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.39
HOST_MANAGED_SERVER_LISTEN_PORT   : 8001
POLICY_SEEDING_TYPE       : LDAP
LDAP_PROVIDER            : OID
OID_IP                   : 10.180.85.42
OID_PORT                 : 3060
OID_ADMIN_USER           : cn=orcladmin
OID_ADMIN_PWD            : welcome1
OID_DOMAIN_NAME          : ou=oadomain
OID_DOMAIN_PORT          : 7005
OID_GROUP_DSN            : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN             : cn=Users,dc=in,dc=oracle,dc=com
JPS_CONTEXT_DSN          : jpsroot
OES_SCHEMA_USER          : HOSTUI_MDS
OES_SCHEMA_PASSWORD      : welcome1
OES_DB_IP                : 10.180.85.42
OES_DB_PORT              : 1521
OES_DB_SERVICE_NAME      : ORA8542
OES_IP                   : 10.180.2.188
OES_MW_HOME              : /scratch/app/product/fmw
OES_DOMAIN_NAME          : oesDomain
OES_UNIX_USER            : ofsaobp
NODE_MGR_PORT            : 5556
SOA_IP                   : 10.180.85.41
SOA_HOME_PATH            : /scratch/app/product/fmw/Oracle_SOA1
SOA_TARGET               : /scratch/app/product/fmw/target
SOA_JAVA_HOME            : /scratch/app/product/jrockit-jdk1.6.0_51
OUI_JAVA_HOME            : /usr/lib/jvm/java-1.7.0-openjdk-1.7.0.9.x86_64
CENTRAL_INVENTORY_LOC   : /scratch/app/product/fmw/obpinventory
SOA_MW_HOME              : /scratch/app/product/fmw
UI_IP                    : 10.180.85.40
UI_UNIX_USER             : ofsaobp
UI_DOMAIN_HOME           : /scratch/app/product/fmw/user_projects/domains/ui_domain
INSTALL_AS               : ofsaobp
SOA_ADMIN_JVM_PARAMS     : -Xms12m -Xmx1024m -Xgc:gencon -XXnosystemgc
SOA_MANAGED_JVM_PARAMS   : -Xms144m -Xmx144m -XXnosystemgc -Xns:2048m -XX:-FlightRecorder -Xgc:pausetime
SOA_HUMANTASKSERVER_JVM_PARAMS : -Djbo.ampool.doampooling=false -Xms4096m -Xmx4096m -Xgc:pausetime -XX:-FlightRecorder -XXnosystemgc -Xms:1024m -Dobp.
http.staleCheckEnabled=false -Dobp.http.idleTimeoutPollInterval=10000 -Dobp.http.maxRetryCount=3 -Dobp.http.socketBufferSize=8192 -Dobp.http.maxConnectionsPer
Host=150 -Dobp.http.connectionTimeout=600000 -Dobp.http.expireAndRetry=false
KEYSTORE_PASSWORD       : welcome1
UCM_READ_FROM_URL       : true
UCM_IP                  : ofsaobp
UCM_PORT                : 4444
UI_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.40
UI_MANAGED_SERVER_LISTEN_PORT   : 8001
DEFAULT_BANK_CODE       : 48
DEFAULT_TRANSACTION_BRANCH_CODE : 8542
DEFAULT_TARGET_UNIT     : SUNCORP
CARD_USERNAME           : crakey
CARD_PASSWORD           : welcome1
RULE_USERNAME           : crakey
RULE_PASSWORD           : welcome1
USER_TIMEZONE           : +5:30

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.

```

3. Verify the value of each property carefully before proceeding.
4. If all values are correct, then enter 'Y' or 'y' and press Enter to initiate the installation. The installation utility performs the installation and domain is created silently.

**Figure 5-3 Copying and Extraction of obpininstall-soa.zip**

```

obpininstall-soa.zip                                100% 274MB 137.1MB/s 00:02
obpostinstallsoa.properties                       100% 2153  2.1KB/s 00:00
installobpsosilent.properties                    100% 1107  1.1KB/s 00:00
The configuration of OBP SOA domain shall begin immediately thereafter.
ofssobp@10.180.85.41's password:
Archive:  /scratch/app/product/fmw/target/obpininstall-soa.zip
  inflating: /scratch/app/product/fmw/target/obpsoa_generic.jar
  inflating: /scratch/app/product/fmw/target/installdomain.sh
  inflating: /scratch/app/product/fmw/target/installdomain_silent.sh
--> /usr/lib/jvm/java-1.7.0-openjdk-1.7.0.9.x86_64/bin/java -jar obpsoa_generic.jar -silent ORACLE_HOME=/scratch/app/product/fmw/obpininstall
Launcher log file is /tmp/OraInstall2014-07-22_06-53-49AM/launcher2014-07-22_06-53-49AM.log.
Extracting files....
Starting Oracle Universal Installer

Checking if CPU speed is above 300 MHz.   Actual 3457.998 MHz   Passed
Checking swap space: must be greater than 512 MB.   Actual 15949804 MB   Passed
Checking if this platform requires a 64-bit JVM.   Actual 64   Passed (64-bit not required)
Checking temp space: must be greater than 300 MB.   Actual 169950 MB   Passed

Preparing to launch the Oracle Universal Installer from /tmp/OraInstall2014-07-22_06-53-49AM
.....
Installation Summary

Disk Space : Required 473 MB, Available 169,926 MB
Feature Sets to Install:
  OBP SOA Server FeatureSet 2.3.0.0.0
  Next Generation Install Core 13.2.0.0.0
  OPatch 13.2.0.0.0
.....
You can find the log of this install session at:
/tmp/OraInstall2014-07-22_06-53-49AM/install2014-07-22_06-53-49AM.log

Loading products list. Please wait.
..... 1%
..... 40%

Loading products. Please wait.
..... 44%
..... 47%
..... 50%
..... 53%
..... 56%
..... 60%
..... 63%
..... 66%
..... 70%
..... 73%
..... 76%
..... 80%
..... 83%
..... 86%
..... 90%
..... 93%
..... 96%
..... 99%
.....
Installation in progress (Tuesday, July 22, 2014 6:54:06 AM UTC)

```

**Figure 5–4 Domain Creation Confirmation**

```

..... 80%
..... 83%
..... 86%
..... 90%
..... 93%
..... 96%
..... 99%
.....
Installation in progress (Tuesday, July 22, 2014 6:54:06 AM UTC)
99% Done.
Install successful

Linking in progress (Tuesday, July 22, 2014 6:54:06 AM UTC)
Link successful

Setup in progress (Tuesday, July 22, 2014 6:54:06 AM UTC)
Setup successful

Saving inventory (Tuesday, July 22, 2014 6:54:06 AM UTC)
Saving inventory complete
Configuration complete

End of install phases.(Tuesday, July 22, 2014 6:54:06 AM UTC)
Logs successfully copied to /scratch/app/product/fmw/obpinstall/inventory/logs.

CLASSPATH=/scratch/app/product/fmw/patch_wls1036/profiles/default/sys_manifest_classpath/weblogic_patch.jar:/scratch/app/product/fmw/patch_ocp371/profiles/default/sys_manifest_classpath/weblogic_patch.jar:/scratch/app/product/fmw/wlserver_10.3/serve/lib/weblogic_sp.jar:/scratch/app/product/fmw/wlserver_10.3/serve/lib/weblogic.jar:/scratch/app/product/fmw/modules/features/weblogic_server_modules_10.3.6.0.jar:/scratch/app/product/fmw/wlserver_10.3/serve/lib/weblogic.jar:/scratch/app/product/fmw/modules/org.apache.ant_1.7.1/lib/ant-all.jar:/scratch/app/product/fmw/modules/net.sf.antcontrib_1.1.0.0_1-0b2/lib/ant-contrib.jar:/scratch/app/product/fmw/obpinstall/common/wlst/resources/wsm-wlst.jar:/scratch/app/product/fmw/oracle_common/modules/oracle_jps_11.1.1/jps-wls-trustprovider.jar:/scratch/app/product/fmw/oracle_common/modules/oracle_jrf_11.1.1/jrf-wlstman.jar:/scratch/app/product/fmw/oracle_common/common/wlst/lib/adfscripting.jar:/scratch/app/product/fmw/oracle_common/common/wlst/lib/adf-share-mbeans-wlst.jar:/scratch/app/product/fmw/oracle_common/common/wlst/lib/mdswlst.jar:/scratch/app/product/fmw/oracle_common/wlst/resources/auditwlst.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/igfwlsthelp.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/jps-wlst.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/jps-wls-trustprovider.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/jrf-wlst.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/omsp_help.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/oaAuthnProvider.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/oaSOAP_help.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/oaSOAP.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/ovdwlsthelp.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/saiconfigwlst.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/wsm-wlst.jar:/scratch/app/product/fmw/utills/config/10.3/config-launch.jar:/scratch/app/product/fmw/wlserver_10.3/common/derby/lib/derbynet.jar:/scratch/app/product/fmw/wlserver_10.3/common/derby/lib/derbyclient.jar:/scratch/app/product/fmw/wlserver_10.3/common/derby/lib/derbytools.jar:

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Domain creation started...
Read domain /scratch/app/product/fmw/user_projects/domains/soa domain to applyJRF
Copying JRF configuration files from /scratch/app/product/fmw/oracle_common/modules to /scratch/app/product/fmw/user_projects/domains/soa_domain/config/fmwocnfig/soa_server1
Target JRF components to "obpsoa_cluster1"
Update JRF changes to domain /scratch/app/product/fmw/user_projects/domains/soa_domain in offline mode
Copying JRF configuration files from /scratch/app/product/fmw/oracle_common/modules to /scratch/app/product/fmw/user_projects/domains/soa_domain/config/fmwocnfig/soa_server1
Target JRF components to "obphumantask_cluster1"
Update JRF changes to domain /scratch/app/product/fmw/user_projects/domains/soa_domain in offline mode
Domain created successfully
tofssohn0f0es3131508 oui-soa16

```

5. Finally, if SOA\_OPATCH\_CREATION\_FLAG="Y" in installobpsoa.properties file, the SOA Pre Installation ends with creation of a directory called 'patchStage' and a directory called 'patching' with the OPatch Utility executing code in SOA\_MW\_HOME.

## 5.2 Post Installation Configuration

This section describes the post installation configuration procedure for Oracle Banking Platform SOA Media Pack. SOA post installation can be done after UI and Host post installation procedures have been completed.

### Checklist for Post Installation Procedure

Before proceeding with the post installation procedure for UI, ensure the following:

- Node manager is not running on the SOA machine.
- All values in obppostinstallsoa.properties are correct
- OID\_DOMAIN\_NAME given in obppostinstallsoa.properties must not exist.
- Node manager port should be free. You can verify using the following command, where 5556 is the Node Manager Port.

```
$netstat -na | grep 5556
```



## Settings

Before starting SOA admin and managed server make the following changes in <middleware home>/user\_projects/domains/<domain name>/bin/setSOADomainEnv.sh:

Change the values to 4096 as shown below:

```
DEFAULT_MEM_ARGS="-Xms8192m -Xms8192m"
```

```
PORT_MEM_ARGS="-Xms8192m -Xms8192m"
```

```
if [ "${JAVA_VENDOR}" != "Oracle" ]; then
```

```
DEFAULT_MEM_ARGS="${DEFAULT_MEM_ARGS} -XX:PermSize=2048m  
-XX:MaxPermSize=4096m"
```

```
PORT_MEM_ARGS="${PORT_MEM_ARGS} -XX:PermSize=2048m  
-XX:MaxPermSize=4096m"
```

Also, increase the size of tablespace for MDS (at least 4 GB) and SOAINFRA schema used for SOA domain.

## Host Admin Server

Start the host admin server:

```
$cd <host_middleware_home/user_projects/domains/domain_name>  
$./startWebLogic.sh
```

## Host Managed Server

Start the host managed server:

```
$cd <host_middleware_home/user_projects/domains/domain_name/bin>  
$./startManagedWebLogic.sh <managed server name> t3://localhost:<admin  
server port>
```

## Post Installation Configuration

1. Start the Oracle Banking Platform SOA domain admin WebLogic server by executing the startWebLogic.sh script in the domain directory.

```
cd <middleware home>  
cd user_projects/domains/obpsoadomain  
./startWebLogic.sh
```

2. Enter the username and password when prompted.

3. Start the managed server – soa\_server1.

```
cd <middleware home>  
cd user_projects/domains/obpsoadomain/bin  
./startManagedWebLogic.sh soa_server1 t3://localhost:<admin_server_  
port>
```

---



---

**Note:** Do not run the post-install as soon as SOA server comes up.

Wait until it loads all the processes and displays the message *SOA platform is running and accepting requests.*

Initiate post-install after getting this message in the console.

---



---

- Once HOST and SOA admin and managed servers are running, execute the post install script 'obp-soa-post-install.sh' created under middleware directory just like other domains.
- Navigate to the middleware location and give executable permission to the post install script:

```
$cd <soa middleware home>
```

Then execute following script:

```
$. /obp-soa-post-install.sh
```

A sample output is given here:

**Figure 5–5 SOA Post Installation Confirmation**

```
[ofssobp@ofss0131508 oui-soa]$ cd /scratch/app/product/fmw/
[ofssobp@ofss0131508 fmw]$ ./obp-soa-post-install.sh
DOMAIN_NAME                : soa_domain
DOMAIN DIRECTORY LOCATION  : /scratch/app/product/fmw/user_projects/domains
WEBLOGIC_USERNAME         : weblogic
WEBLOGIC_PASSWORD         : weblogic1
ADMIN_SERVER_LISTEN_ADDRESS : 10.180.85.41
ADMIN_SERVER_LISTEN_PORT   : 7001
SOA_SERVER_LISTEN_ADDRESS  : 10.180.85.41
SOA_SERVER_LISTEN_PORT    : 8001
BAM_SERVER_LISTEN_ADDRESS  : 10.180.85.41
BAM_SERVER_LISTEN_PORT    : 9000
HOST_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.39
HOST_MANAGED_SERVER_LISTEN_PORT : 8001
POLICY_SEEDING_TYPE       : LDAP
LDAP_PROVIDER              : OID
OID_IP                     : 10.180.85.42
OID_PORT                   : 3060
OID_ADMIN_USER             : cn=orcladmin
OID_ADMIN_FQDN             : welcome1
OID_DOMAIN_NAME            : ou=soadomain
OID_GROUP_DSN              : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN               : cn=Users,dc=in,dc=oracle,dc=com
JPS_CONTEXT_DSN            : jpsroot
NODE_MGR_PORT              : 5556
OES_IP                     : 10.180.2.188
OES_MW_HOME                : /scratch/app/product/fmw
OES_DOMAIN_NAME            : oesDomain
OES_UNIX_USER              : ofssobp
SOA_IP                     : 10.180.85.41
SOA_HOME_PATH              : /scratch/app/product/fmw/Oracle_SOA1
SOA_TARGET                 : /scratch/app/product/fmw/target
SOA_JAVA_HOME              : /scratch/app/product/jrockit-jdk1.6.0_51
SOA_MW_HOME                : /scratch/app/product/fmw
UI_IP                      : 10.180.85.40
UI_UNIX_USER               : ofssobp
UI_DOMAIN_HOME            : /scratch/app/product/fmw/user_projects/domains/ui_domain
INSTALL_AS                 : ofssobp
SOA_ADMIN_JVM_PARAMS       : -Xms512m -Xmx1024m -Xgc:gencon -XXnosystemgc
SOA_MANAGED_JVM_PARAMS     : -Xms6144m -Xmx6144m -XXnosystemgc -Xns:2048m -XX:-FlightRecorder -Xgc:pausetime
SOA_HUMANTASKSERVER_JVM_PARAMS : -Djbo.ampool.doampooling=false -Xms4096m -Xmx4096m -Xgc:pausetime -XX:-FlightRecorder -XXnosystemgc -Xns:1024m -Dobp.h
ttp.staleCheckEnabled=false -Dobp.http.idleTimeoutPollInterval=10000 -Dobp.http.maxRetryCount=3 -Dobp.http.socketBufferSize=8192 -Dobp.http.maxConnectionsPer
Host=150 -Dobp.http.connectionTimeout=600000 -Dobp.http.expireAndRetry=false
KEYSTORE_PASSWORD         : welcome1
UCM_READ_FROM_URL         : true
UCM_IP                    : ofss.ucm.com
UCM_PORT                  : 4444
UI_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.40
UI_MANAGED_SERVER_LISTEN_PORT : 8001
DEFAULT_BANK_CODE        : 48
DEFAULT_TRANSACTION_BRANCH_CODE : 8542
DEFAULT_TARGET_UNIT      : SUNCORP
CARD_USERNAME             : orakey
CARD_PASSWORD             : welcome1
RULE_USERNAME             : orakey
RULE_PASSWORD             : welcome1
USER_TIMEZONE             : +5:30
Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
```

Figure 5–6 SOA Post Installation Completion

```

oracle@OFSMUG-VM-103:/oracle/app/product/fmw
replace:
  [unzip] Expanding: /oracle/app/product/fmw/obpinstall/obp/workflow/metadata/Metadata.zip into /oracle/app/product/fmw/obpinstall/obp/workflow/metadata/
  metadata
  [unjar] Expanding: /oracle/app/product/fmw/obpinstall/obp/workflow/metadata/metadata/sharedResources.jar into /oracle/app/product/fmw/obpinstall/obp/wor
  kflow/metadata/metadata/sharedResources
  [delete] Deleting: /oracle/app/product/fmw/obpinstall/obp/workflow/metadata/metadata/sharedResources.jar
  [jar] Building jar: /oracle/app/product/fmw/obpinstall/obp/workflow/metadata/metadata/sharedResources.jar
  [zip] Building zip: /oracle/app/product/fmw/obpinstall/obp/workflow/metadata/Metadata_updated.zip
  [delete] Deleting directory /oracle/app/product/fmw/obpinstall/obp/workflow/metadata/metadata

BUILD SUCCESSFUL
Total time: 17 seconds
Verifying OBP_ORACLE_HOME /oracle/app/product/fmw/obpinstall/obp
Buildfile: build.xml

create-manifest-jar:
  [echo] Creating oracle.soa.ext at /oracle/app/product/fmw/Oracle_SOA1/soa/modules/oracle.soa.ext_11.1.1/oracle.soa.ext.jar :/oracle/app/product/fmw/Or
  acle_SOA1/soa/modules/oracle.soa.ext_11.1.1/com.ofas.fc.workflow.dynamic.approvalgroup.jar:/oracle/app/product/fmw/Oracle_SOA1/soa/modules/oracle.soa.ext_1
  1.1.1/classes

BUILD SUCCESSFUL
Total time: 0 seconds
Archive: BFELRecoveryConfig.zip
  inflating: recoveryconfig.sh
  inflating: BFELRecoveryConfig.jar
0
Updating RecurringScheduleConfig.maxMessageRaiseSize from 0 to 0
Updating StartupScheduleConfig.maxMessageRaiseSize from 0 to 0
javax.management.openbean.CompositeDataSupport (compositeType=javax.management.openbean.CompositeType (name=RecurringScheduleConfig, items=( (itemName=MaxMes
  sageRaiseSize,itemType=javax.management.openbean.SimpleType (name=java.lang.Integer)), (itemName=startWindowTime,itemType=javax.management.openbean.SimpleT
  ype (name=java.lang.String)), (itemName=stopWindowTime,itemType=javax.management.openbean.SimpleType (name=java.lang.String)), (itemName=subsequentTriggerDel
  ay,itemType=javax.management.openbean.SimpleType (name=java.lang.Long)), (itemName=thresholdTimeInMinutes,itemType=javax.management.openbean.SimpleType (nam
  e=java.lang.Integer))))),contents={maxMessageRaiseSize=0, startWindowTime=00:00, stopWindowTime=04:00, subsequentTriggerDelay=300, thresholdTimeInMinutes=1
  0})
null
javax.management.openbean.CompositeDataSupport (compositeType=javax.management.openbean.CompositeType (name=RecoveryConfig, items=( (itemName=ClusterConfig,i
  temType=javax.management.openbean.CompositeType (name=ClusterConfig, items=( (itemName=ClusterDBTimeRefresh,itemType=javax.management.openbean.SimpleType (na
  me=java.lang.Long)), (itemName=heartbeatInterval,itemType=javax.management.openbean.SimpleType (name=java.lang.Long)), (itemName=masterAliveThreshold,itemType
  =javax.management.openbean.SimpleType (name=java.lang.Long)), (itemName=nodeReapInterval,itemType=javax.management.openbean.SimpleType (name=java.lang.Long)
  )), (itemName=nodeReapThreshold,itemType=javax.management.openbean.SimpleType (name=java.lang.Long))), (itemName=RecurringScheduleConfig,itemType=javax.mana
  gement.openbean.CompositeType (name=RecurringScheduleConfig, items=( (itemName=maxMessageRaiseSize,itemType=javax.management.openbean.SimpleType (name=java.l
  ang.Integer)), (itemName=startWindowTime,itemType=javax.management.openbean.SimpleType (name=java.lang.String)), (itemName=stopWindowTime,itemType=javax.mana
  gement.openbean.SimpleType (name=java.lang.String)), (itemName=subsequentTriggerDelay,itemType=javax.management.openbean.SimpleType (name=java.lang.Long)), (
  itemName=thresholdTimeInMinutes,itemType=javax.management.openbean.SimpleType (name=java.lang.Integer))), (itemName=StartupScheduleConfig,itemType=javax.m
  anagement.openbean.CompositeType (name=StartupScheduleConfig, items=( (itemName=maxMessageRaiseSize,itemType=javax.management.openbean.SimpleType (name=java
  .lang.Integer)), (itemName=startupRecoveryDuration,itemType=javax.management.openbean.SimpleType (name=java.lang.Long)), (itemName=subsequentTriggerDelay,ite
  mType=javax.management.openbean.SimpleType (name=java.lang.Long))))),contents={ClusterConfig=null, RecurringScheduleConfig=javax.management.openbean.Com
  positeDataSupport (compositeType=javax.management.openbean.CompositeType (name=RecurringScheduleConfig, items=( (itemName=maxMessageRaiseSize,itemType=javax.m
  anagement.openbean.SimpleType (name=java.lang.Integer)), (itemName=startWindowTime,itemType=javax.management.openbean.SimpleType (name=java.lang.String)), (l
  temName=stopWindowTime,itemType=javax.management.openbean.SimpleType (name=java.lang.String)), (itemName=subsequentTriggerDelay,itemType=javax.management.op
  enbean.SimpleType (name=java.lang.Long)), (itemName=thresholdTimeInMinutes,itemType=javax.management.openbean.SimpleType (name=java.lang.Integer))), conten
  ts={maxMessageRaiseSize=0, startWindowTime=00:00, stopWindowTime=04:00, subsequentTriggerDelay=300, thresholdTimeInMinutes=10}), StartupScheduleConfig=jav
  ax.management.openbean.CompositeDataSupport (compositeType=javax.management.openbean.CompositeType (name=StartupScheduleConfig, items=( (itemName=maxMessageRa
  iseSize,itemType=javax.management.openbean.SimpleType (name=java.lang.Integer)), (itemName=startupRecoveryDuration,itemType=javax.management.openbean.Simpl
  eType (name=java.lang.Long)), (itemName=subsequentTriggerDelay,itemType=javax.management.openbean.SimpleType (name=java.lang.Long))),contents={maxMessageRa
  iseSize=0, startupRecoveryDuration=600, subsequentTriggerDelay=300})}}
[oracle@OFSMUG-VM-103825.113 fmw]$

```

6. For monitoring the script run, check the following log files created under the SOA domain directory:

- deploy-composite-SOA-WLST.log
- post-obp-SOA-WLST.log
- post-soa-DynamicApprovalGroup-log.txt
- post-soa-GrantAndPolicySet-log.log
- post-soa-taskflow-grants.log

### Recommendations for enabling SSL

As mentioned in [Chapter 2, "Pre-Installation Configuration"](#), it is mandatory to install the Java Cryptography Extensions Unlimited Strength Jurisdiction Policy Files on machine nodes where SOA Media pack installation is planned. This enables additional encryption strengths.

Download the `jce_policy.zip` from Oracle website for the current Java version being used. For `jdk1.7.0_xx`, download `UnlimitedJCEPolicyJDK7.zip` from the following link:

<http://www.oracle.com/technetwork/java/javase/downloads/jce-7-download-432124.html>

Copy "`local_policy.jar`" and "`US_export_policy.jar`" from this zip file in the path mentioned below:

`JAVA_HOME/jre/lib/security/`

To enable SSL, perform the following steps:

1. Create SSL Certificates in Java Keystore using keytool.

Execute the following scripts in the given order from the SOA unix shell prompt. Replace <SOA\_SSL\_PASSWORD> as welcome1 or any chosen password.

- a. `$SOA_JAVA_HOME/bin/keytool -genkey -alias `hostname -f` -keyalg RSA -keysize 2048 -sigalg SHA256withRSA -validity 1095 -keypass <SOA_SSL_PASSWORD> -storetype jceks -keystore `hostname -f`_identity.jck -storepass <SOA_SSL_PASSWORD> -dname "CN=`hostname -f`, OU=Oracle Cloud for Industry, O=Oracle Corporation, L=Redwood Shores, S=California, C=US"`
- b. `$SOA_JAVA_HOME/bin/keytool -export -alias `hostname -f` -file `hostname -f`.cer -keystore `hostname -f`_identity.jck -storetype jceks -storepass <SOA_SSL_PASSWORD>`  
`$SOA_JAVA_HOME/bin/keytool -import -alias `hostname -f` -file `hostname -f`.cer -keystore `hostname -f`_trust.jck -storetype jceks -storepass <SOA_SSL_PASSWORD> -noprompt`
- c. `chmod o+r `hostname -f`_identity.jck`
- d. `chmod o+r `hostname -f`_trust.jck`
- e. `chmod o+r `hostname -f`.cer`

The following files are present in the "<SOA\_DOMAIN>/ssl" folder:

- <MACHINE\_NAME>.cer
- <MACHINE\_NAME>\_identity.jck
- <MACHINE\_NAME>\_trust.jck

**Example:**

```
ofss3131507.in.oracle.com.cer
ofss3131507.in.oracle.com_identity.jck
ofss3131507.in.oracle.com_trust.jck
```

2. Reconfigure WLS components to use the new certificate/stores.

- a. In the admin console: `http://<SOA_HOST_IP>:<SOA_ADMIN_PORT>/console`, click the Admin Server. In the **Keystores** tab, make the following changes.
  - Keystores='Custom Identity and Java Standard Trust'
  - Custom Identity Keystore='<SOA\_DOMAIN>/ssl/<MACHINE\_NAME>\_identity.jck'

**Example:**

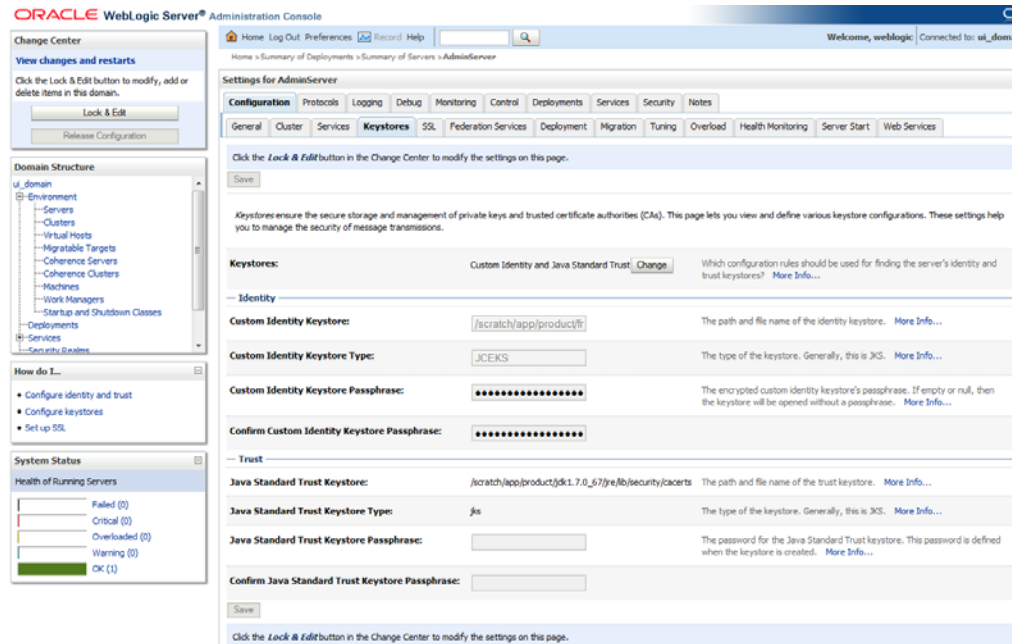
```
'/scratch/app/product/fmw/user_projects/domains/soa_
domain/ssl/ofss310063.in.oracle.com_identity.jck'
Custom Identity Keystore Type='JCEKS'
Custom Identity Keystore Passphrase= <SOA_SSL_PASSWORD>
Custom Standard Trust Keystore='<SOA_JAVA_
HOME>/jre/lib/security/cacerts'
```

```
eg '/etc/ssl/certs/ofss310063.in.oracle.com_trust.jck'
```

Custom Trust Keystore Type='jks'

CustomTrustKeyStorePassPhrase=<SOA\_SSL\_PASSWORD>

**Figure 5–7 WebLogic Server - Keystores Tab**



b. In the **SSL** tab, make the following changes.

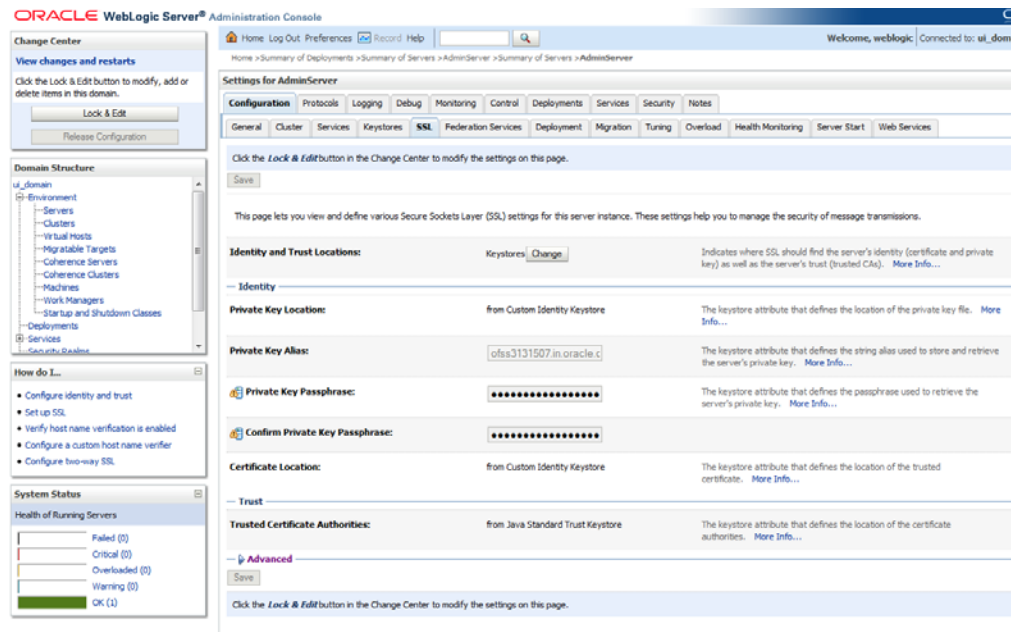
- Identity and Trust Locations='Keystores'
- Private Key Alias ='<SOA\_DOMAIN>/ssl/<MACHINE\_NAME>\_trust.jck'

**Example:**

```
'/scratch/app/product/fmw/user_projects/domains/soa_domain/ssl/ofss310063.in.oracle.com_trust.jck'
```

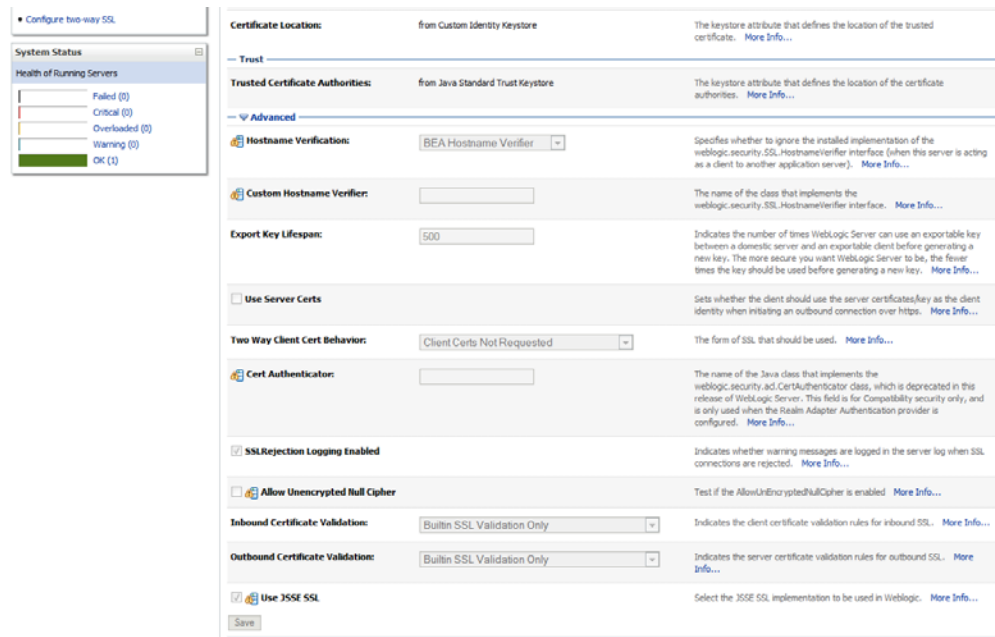
```
Private Key Passphrase=<SOA_SSL_PASSWORD>
```

Figure 5–8 WebLogic Server - SSL Tab



3. In the **Advanced** section, enable the **Use JSSE SSL** option.

Figure 5–9 WebLogic Server - Advanced Section



4. Restart the Admin server.
5. Repeat steps 2, 3, and 4 for all managed servers.

---

---

# Oracle BAM Installation using OBP SOA Media Pack

This section details every step involved in the installation of BAM using OBP SOA (Integration Server) Media pack. The subsequent section refers to the variable names specified in [Section 2.3, "Installation Checklists"](#).

It is mandatory not to carry out BAM installation in the same machine where SOA installation was done.

## 6.1 Installation and Configuration Procedure

This section details the installation procedure for BAM using OBP SOA Media Pack.

### 6.1.1 Preparatory Steps

This section lists the preparatory steps required for BAM using OBP SOA Media Pack.

#### Step 1 Procuring Installables

Download the appropriate SOA media pack from the following location:

<http://edelivery.oracle.com/>

#### Step 2 Extracting the Installables

Copy the 'soa.zip' to a local Linux VM or Linux machine from where the installation will be carried out. Extract the 'soa.zip'. Three files will be extracted:

- A zip file 'obpinstall-soa.zip'
- The installation script 'installobpsoa.sh'
- The install configuration property file 'installobpsoa.properties'

#### Step 3 Printing Checklists

Take a printout of the installation checklist mentioned in [Section 2.3, "Installation Checklists"](#) of this guide and note the values applicable for each point in the last column for Value so that the same is handy during the actual installation.

## 6.1.2 Pre-Installation Steps

This section lists the pre-installation steps required for BAM using OBP SOA Media Pack.

### Step 1 Updating `installobpsoa.properties`

Navigate to the directory where the files `obpinstall-soa.zip`, `installobpsoa.sh` and `installobpsoa.properties` are placed and update `installobpsoa.properties` with relevant values from the checklist. This should be easy as the key for properties is same as Name column of the checklist.

### Step 2 Checklist for a new setup

Before initiating installation, check the following:

- Node manager must not be running on the target machine.
- Create a dummy folder named `target` and mention its path against `HOST_TARGET` property.
- All required database schema are to be created manually using RCU 11.1.1.9. The schema are as follows:
  - `MDS_SCHEMA_USER`
  - `BAM_SCHEMA_USER`
  - `SOA_INFRASTRUCTURE_SCHEMA_USER`
  - `USER_MESSAGING_SERVICE_SCHEMA_USER`

Prefix for all these four schema should be same.

- Values given in `installobpui.properties` must be correct. At run time, no option is given to change the values.
- No processes should be running on the ports given in `installobpsoa.properties`.
- In case of a re-installation ensure that the directory paths against `SOA_TARGET` and `SOA_MW_HOME` specified in `installobpsoa.properties` are cleaned up for traces of any previous installations, as the remote shell copy may not be overwriting in case of any residual file left by the previous run.
- Before initiating the installation, ensure that all the values given in `installobpsoa.properties` are correct. At the time of installation, the values will only be displayed once for verification, and it will not be possible to change the values once the installation begins.
- The property that should be modified for BAM Pre Installation is as follows:

**Table 6–1 BAM Installation Property**

Property Name	Property Value
<code>BAM_INSTALLATION</code>	Y or y

For BAM installation to take place this property should be set to any of the above two values. In case of SOA Installation, this property is set as N.

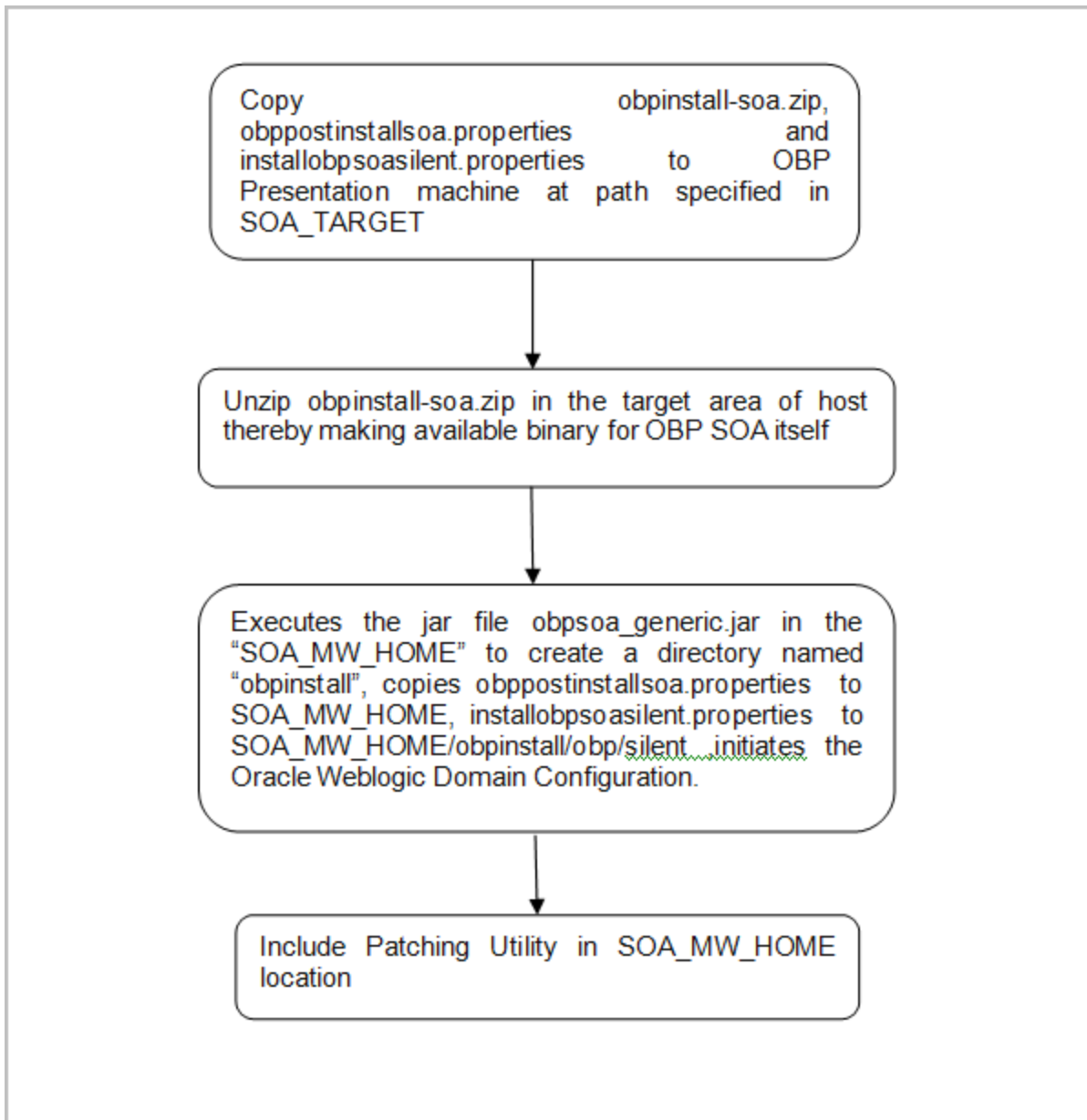
## 6.1.3 Installation Steps

This section lists the installation steps for BAM using OBP SOA Media Pack.



1. Navigate to the directory where the media pack files are placed and execute `installobpsoa.sh`. The installation script shall echo the values entered in the `installobpsoa.properties` file and ask for a confirmation to go ahead with the installation.
2. The installation script automatically triggers the following significant steps using secure remote copy '`scp`' command and remote shell commands execution using the '`ssh`' command.

**Figure 6–1 Steps in `installobpsoa.sh` script**



A sample output is given here.

**Figure 6–2 Confirmation to Proceed Domain Installation**

```

BAM_SERVER_LISTEN_ADDRESS : 10.180.85.41
BAM_SERVER_LISTEN_PORT   : 9003
BAM_SERVER_SSL_LISTEN_PORT : 9004
HOST_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.39
HOST_MANAGED_SERVER_LISTEN_PORT   : 8001
POLICY_SEEDING_TYPE       : LDAP
LDAP_PROVIDER            : OID
OID_IP                   : 10.180.85.42
OID_PORT                 : 3060
OID_ADMIN_USER           : cn=orcladmin
OID_ADMIN_PWD            : welcome1
OID_DOMAIN_NAME          : ouisoadomain
OID_DOMAIN_PORT          : 7005
OID_GROUP_DSN            : cn=Groups,dc=in,dc=oracle,dc=com
OID_USER_DSN             : cn=Users,dc=in,dc=oracle,dc=com
JPS_CONTEXT_DSN          : jpsroot
OES_SCHEMA_USER          : HOSTUI_MDS
OES_SCHEMA_PASSWORD      : welcome1
OES_DB_IP                 : 10.180.85.42
OES_DB_PORT              : 1521
OES_DB_SERVICE_NAME      : ORA8542
OES_IP                   : 10.180.2.188
OES_MW_HOME              : /scratch/app/product/fmw
OES_DOMAIN_NAME          : oesDomain
OES_UNIX_USER            : ofsaobp
NODE_MGR_PORT            : 5556
SOA_IP                   : 10.180.85.41
SOA_HOME_PATH            : /scratch/app/product/fmw/Oracle_SOA1
SOA_TARGET               : /scratch/app/product/fmw/target
SOA_JAVA_HOME            : /scratch/app/product/jrockit-jdk1.6.0_51
OUI_JAVA_HOME            : /usr/lib/jvm/java-1.7.0-openjdk-1.7.0.9.x86_64
CENTRAL_INVENTORY_LOC    : /scratch/app/product/fmw/obpinventory
SOA_MW_HOME              : /scratch/app/product/fmw
UI_IP                    : 10.180.85.40
UI_UNIX_USER             : ofsaobp
UI_DOMAIN_HOME           : /scratch/app/product/fmw/user_projects/domains/ui_domain
INSTALL_AS               : ofsaobp
SOA_ADMIN_JVM_PARAMS     : -Xms12m -Xmx1024m -Xgc:gencon -XXnosystemgc
SOA_MANAGED_JVM_PARAMS   : -Xms144m -Xmx6144m -XXnosystemgc -Xns:2048m -XX:-FlightRecorder -Xgc:pausetime
SOA_HUMANTASKSERVER_JVM_PARAMS : -Djbo.ampool.doampooling=false -Xms4096m -Xmx4096m -Xgc:pausetime -XX:-FlightRecorder -XXnosystemgc -Xms:1024m -Dobp.
http.stateCheckEnabled=false -Dobp.http.idleTimeoutPollInterval=10000 -Dobp.http.maxRetryCount=3 -Dobp.http.socketBufferSize=8192 -Dobp.http.maxConnectionsPer
Host=150 -Dobp.http.connectionTimeout=600000 -Dobp.http.expireAndRetry=false
KEYSTORE_PASSWORD       : welcome1
UCM_READ_FROM_URL       : true
UCM_IP                  : ofsaobp
UCM_PORT                : 4444
UI_MANAGED_SERVER_LISTEN_ADDRESS : 10.180.85.40
UI_MANAGED_SERVER_LISTEN_PORT   : 8001
DEFAULT_BANK_CODE       : 48
DEFAULT_TRANSACTION_BRANCH_CODE : 8542
DEFAULT_TARGET_UNIT     : SUNCORP
CARD_USERNAME           : crakey
CARD_PASSWORD           : welcome1
RULE_USERNAME           : crakey
RULE_PASSWORD           : welcome1
USER_TIMEZONE           : +5:30

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter 'Y' or 'y' and press Enter to initiate the installation. The installation utility performs the installation and domain is created
silently.

```

3. Verify the value of each property carefully before proceeding.
4. If all values are correct, then enter 'Y' or 'y' and press Enter to initiate the installation. The installation utility performs the installation and domain is created silently.

**Figure 6–3 Copying and Extraction of obpininstall-soa.zip**

```

obpininstall-soa.zip                                100% 274MB 137.1MB/s 00:02
obpostinstallsoa.properties                       100% 2153  2.1KB/s 00:00
installobpsosilent.properties                     100% 1107  1.1KB/s 00:00
The configuration of OBP SOA domain shall begin immediately thereafter.
ofssobp@10.180.85.41's password:
Archive:  /scratch/app/product/fmw/target/obpininstall-soa.zip
  inflating: /scratch/app/product/fmw/target/obpsoa_generic.jar
  inflating: /scratch/app/product/fmw/target/installdomain.sh
  inflating: /scratch/app/product/fmw/target/installdomain_silent.sh
--> /usr/lib/jvm/java-1.7.0-openjdk-1.7.0.9.x86_64/bin/java -jar obpsoa_generic.jar -silent ORACLE_HOME=/scratch/app/product/fmw/obpininstall
Launcher log file is /tmp/OraInstall2014-07-22_06-53-49AM/launcher2014-07-22_06-53-49AM.log.
Extracting files....
Starting Oracle Universal Installer

Checking if CPU speed is above 300 MHz.   Actual 3457.998 MHz   Passed
Checking swap space: must be greater than 512 MB.   Actual 15949804 MB   Passed
Checking if this platform requires a 64-bit JVM.   Actual 64   Passed (64-bit not required)
Checking temp space: must be greater than 300 MB.   Actual 169950 MB   Passed

Preparing to launch the Oracle Universal Installer from /tmp/OraInstall2014-07-22_06-53-49AM
.....
Installation Summary

Disk Space : Required 473 MB, Available 169,926 MB
Feature Sets to Install:
  OBP SOA Server FeatureSet 2.3.0.0.0
  Next Generation Install Core 13.2.0.0.0
  OPatch 13.2.0.0.0
.....
You can find the log of this install session at:
/tmp/OraInstall2014-07-22_06-53-49AM/install2014-07-22_06-53-49AM.log

Loading products list. Please wait.
..... 1%
..... 40%

Loading products. Please wait.
..... 44%
..... 47%
..... 50%
..... 53%
..... 56%
..... 60%
..... 63%
..... 66%
..... 70%
..... 73%
..... 76%
..... 80%
..... 83%
..... 86%
..... 90%
..... 93%
..... 96%
..... 99%
.....
Installation in progress (Tuesday, July 22, 2014 6:54:06 AM UTC)

```

**Figure 6–4 Domain Creation Confirmation**

```

..... 80%
..... 83%
..... 86%
..... 90%
..... 93%
..... 96%
..... 99%
.....
Installation in progress (Tuesday, July 22, 2014 6:54:06 AM UTC)
99% Done.
Install successful

Linking in progress (Tuesday, July 22, 2014 6:54:06 AM UTC)
Link successful

Setup in progress (Tuesday, July 22, 2014 6:54:06 AM UTC)
Setup successful

Saving inventory (Tuesday, July 22, 2014 6:54:06 AM UTC)
Saving inventory complete
Configuration complete

End of install phases.(Tuesday, July 22, 2014 6:54:06 AM UTC)
Logs successfully copied to /scratch/app/product/fmw/obpinstall/inventory/logs.

CLASSPATH=/scratch/app/product/fmw/patch_wls1036/profiles/default/sys_manifest_classpath/weblogic_patch.jar:/scratch/app/product/fmw/patch_opp371/profiles/default/sys_manifest_classpath/weblogic_patch.jar:/scratch/app/product/7rockit-jdk1.6.0_51/lib/cool.jar:/scratch/app/product/fmw/wlserver_10.3/serve/lib/weblogic_sp.jar:/scratch/app/product/fmw/wlserver_10.3/serve/lib/weblogic.jar:/scratch/app/product/fmw/modules/features/weblogic_server_modules_10.3.6.0.jar:/scratch/app/product/fmw/wlserver_10.3/serve/lib/weblogic.jar:/scratch/app/product/fmw/modules/org.apache.ant_1.7.1/lib/ant-all.jar:/scratch/app/product/fmw/modules/net.sf.antcontrib_1.1.0.0_1-0b2/lib/ant-contrib.jar:/scratch/app/product/fmw/obpinstall/common/wlst/resources/wsm-wlst.jar:/scratch/app/product/fmw/oracle_common/modules/oracle_jps_11.1.1/jps-wls-trustprovider.jar:/scratch/app/product/fmw/oracle_common/modules/oracle_jrf_11.1.1/jrf-wlstman.jar:/scratch/app/product/fmw/oracle_common/common/wlst/lib/adscrip.jar:/scratch/app/product/fmw/oracle_common/common/wlst/lib/ads-share-mbeans-wlst.jar:/scratch/app/product/fmw/oracle_common/common/wlst/lib/mdswlst.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/auditwlst.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/igfwlsthelp.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/jps-wlst.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/jps-wls-trustprovider.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/jrf-wlst.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/omsp_help.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/omAuthnProvider.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/ossolap_help.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/ossolap.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/ovdwlsthelp.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/ssiconfigwlst.jar:/scratch/app/product/fmw/oracle_common/common/wlst/resources/wsm-wlst.jar:/scratch/app/product/fmw/utl/config/10.3/config-launch.jar:/scratch/app/product/fmw/wlserver_10.3/common/derby/lib/derbynet.jar:/scratch/app/product/fmw/wlserver_10.3/common/derby/lib/derbyclient.jar:/scratch/app/product/fmw/wlserver_10.3/common/derby/lib/derbytools.jar:

Initializing WebLogic Scripting Tool (WLST) ...

Welcome to WebLogic Server Administration Scripting Shell

Type help() for help on available commands

Domain creation started...
Read domain /scratch/app/product/fmw/user_projects/domains/soa domain to applyJRF
Copying JRF configuration files from /scratch/app/product/fmw/oracle_common/modules to /scratch/app/product/fmw/user_projects/domains/soa_domain/config/fmwocnfig/soa_server1
Target JRF components to "obpsoa_cluster1"
Update JRF changes to domain /scratch/app/product/fmw/user_projects/domains/soa_domain in offline mode
Copying JRF configuration files from /scratch/app/product/fmw/oracle_common/modules to /scratch/app/product/fmw/user_projects/domains/soa_domain/config/fmwocnfig/soa_server1
Target JRF components to "obphumantask_cluster1"
Update JRF changes to domain /scratch/app/product/fmw/user_projects/domains/soa_domain in offline mode
Domain created successfully
tofssohnfofess3131508 oui-soa16

```

5. Finally, if SOA\_OPATCH\_CREATION\_FLAG="Y" in installobpsoa.properties file, the SOA Pre Installation ends with creation of a directory called 'patchStage' and a directory called 'patching' with the OPatch Utility executing code in SOA\_MW\_HOME.

## 6.2 Post Installation Configuration

This section describes the post installation configuration procedure for BAM using OBP SOA Media Pack. Post installation for BAM can be done after UI and Host post installation is completed.

### Checklist for Post Installation Procedure

Before proceeding with the post installation, ensure the following:

1. Run the DB script Run.sql from location "<MIDDLEWARE\_HOME>/obpinstall/obp/workflow/bam/db" (If db scripts are run separately then they should be executed in the order mentioned in the Run.sql.)

---

**Note:** Make sure to grant CREATE VIEW privileges to the BAM SCHEMA that is being used.

---

2. Start the host admin server.

```

$cd <MIDDLEWARE_HOME >/user_projects/domains/domain_name
$. /startWeblogic.sh

```

3. Start the host managed server "bam\_server1" and wait for around 30 minutes for internal processes to complete.

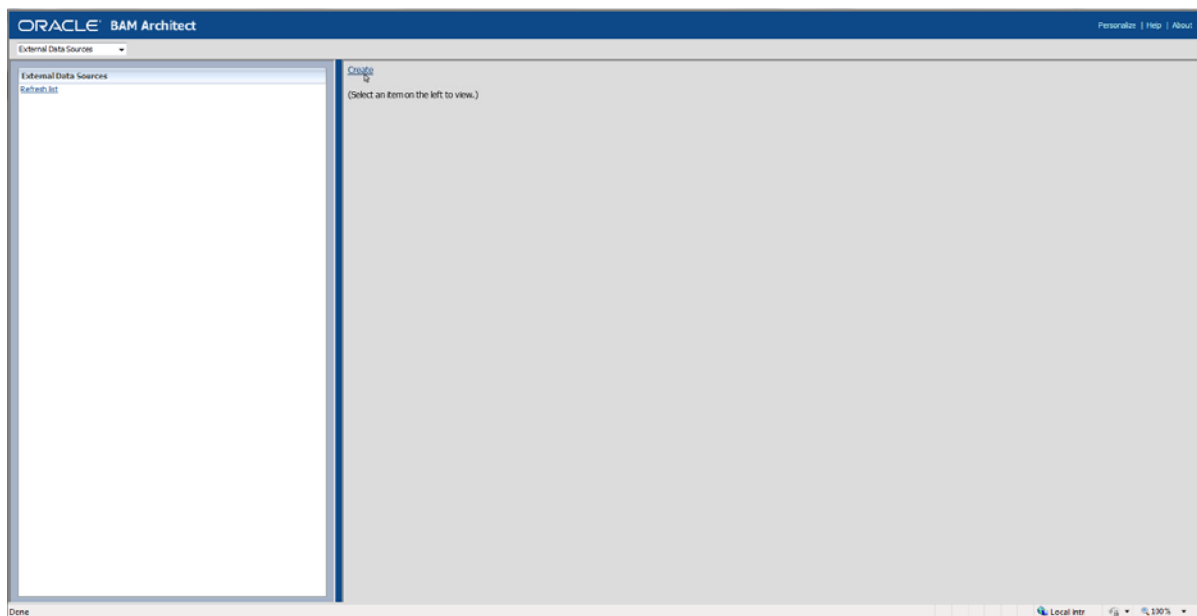
```
$cd <MIDDLEWARE_HOME>/user_projects/domains/domain_name/bin
```

```
$./startManagedWebLogic.sh <managed server name>
```

```
t3://localhost:<admin server port>
```

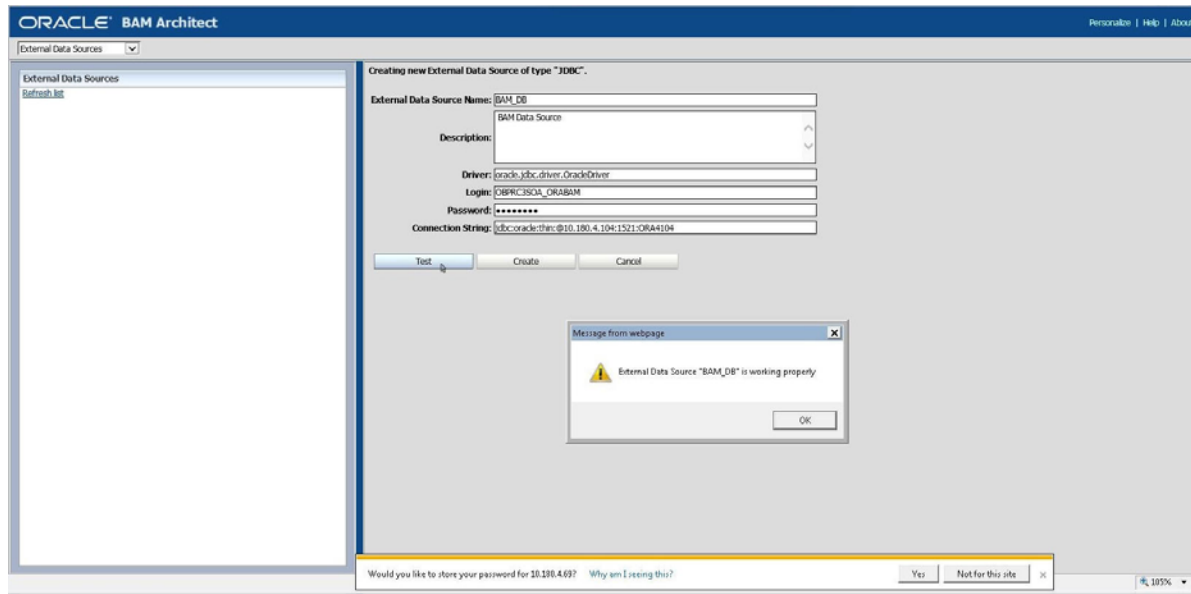
4. Create the BAM External DB.
  - a. Go to the BAM Login Page Link: [http://<BAM\\_IP>:9003/OracleBAM](http://<BAM_IP>:9003/OracleBAM)
  - b. After logging in, proceed to the BAM Start Page, and then click Architect.
  - c. Select External Data Source from the top left side and click the Create link.

**Figure 6–5 Select External Data Source**



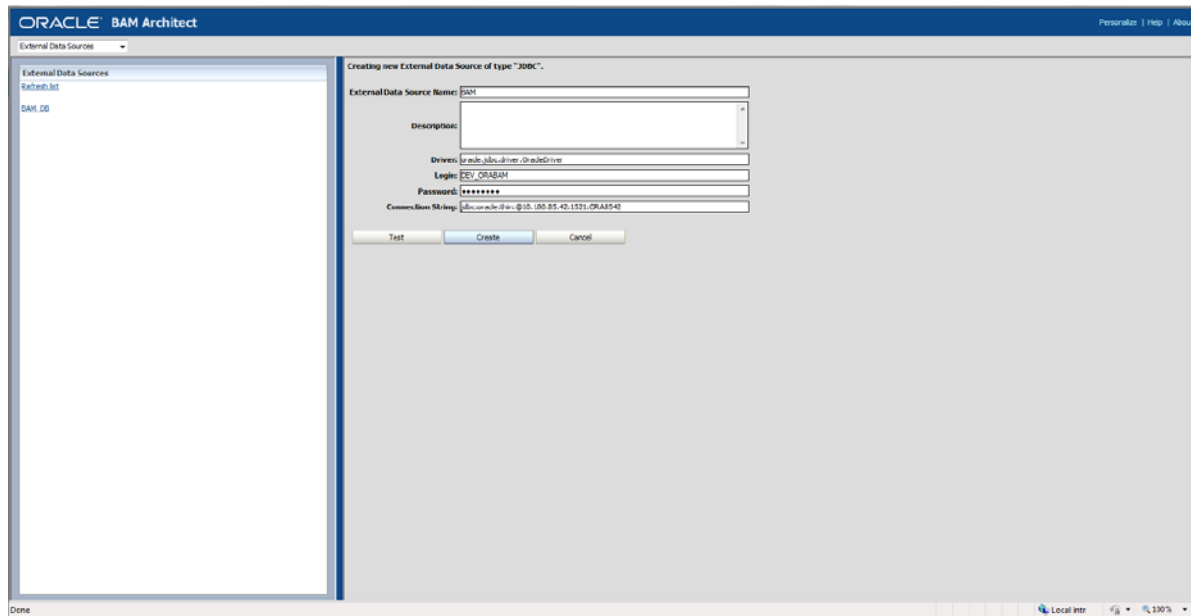
- d. Enter the BAM SCHEMA details (enter a name of your choice/requirement for the external date source name).
- e. Click Test to test the connection. It will prompt success message as shown in the below figure, if all the entries are proper. Click OK.

**Figure 6–6 Enter Schema Details and Test**

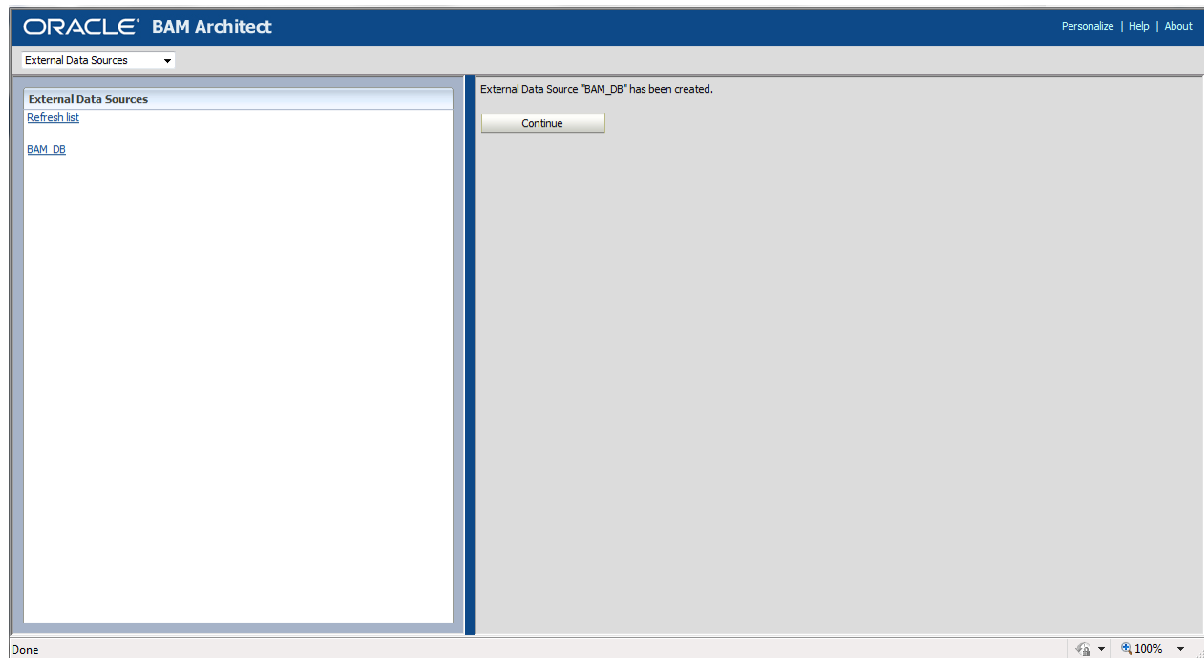


- f. Click Create to save the external db resource details.

**Figure 6–7 Create External Data Source**



- g. After clicking OK, you are done with the External Data Source Configurations as shown in the below figure.

**Figure 6–8 External Data Source Created**

### Post Installation Configuration

Execute `obp-soa-post-install.sh` as done for SOA Media Pack Installation.

1. Navigate to the middleware location and give executable permission to the post install script.

```
$cd <middleware home>
```

2. Run the script by:

```
$./obp-soa-post-install.sh
```

3. Finally after `obp-soa-post-install.sh` script is run, restart the bam managed server "bam\_server1".

```
$cd <MIDDLEWARE_HOME>/user_projects/domains/domain_name/bin
```

```
$./startManagedWebLogic.sh <managed server name>
```

```
t3://localhost:<admin server port>
```





---

---

# Oracle Banking Platform Reference Process Models Media Pack Installation

This chapter details the steps involved in the installation of Oracle Banking Platform Reference Process Models Media pack (Media pack 4).

The business processes that are supported by Oracle Banking Platform (OBP) have been defined using Oracle BPA – Oracle Business Process Management Version 12c.

## 7.1 Pre-Installation Steps

This section lists the pre-installation steps required for the Oracle Banking Platform Reference Process Models Media Pack.

The media pack consists of a zip file that contains all the projects that are part of this release.

To view the process maps, it is mandatory that the Oracle BPM Version 12c is installed in the server, and appropriately configured based on the specific installation needs. For more information, see the Oracle BPM Installation guide.

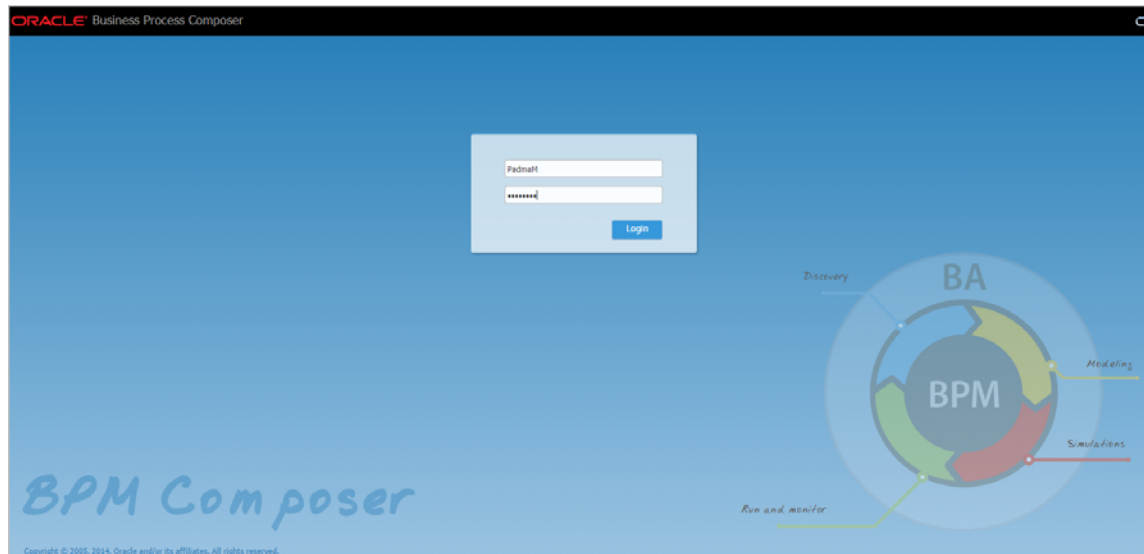
Copy the zip file from the media pack and unzip the contents with the password provided, to a folder on a server or desktop.

## 7.2 Installing RPM Process Maps

This section lists the installation steps required for the Reference Process Models Process Maps.

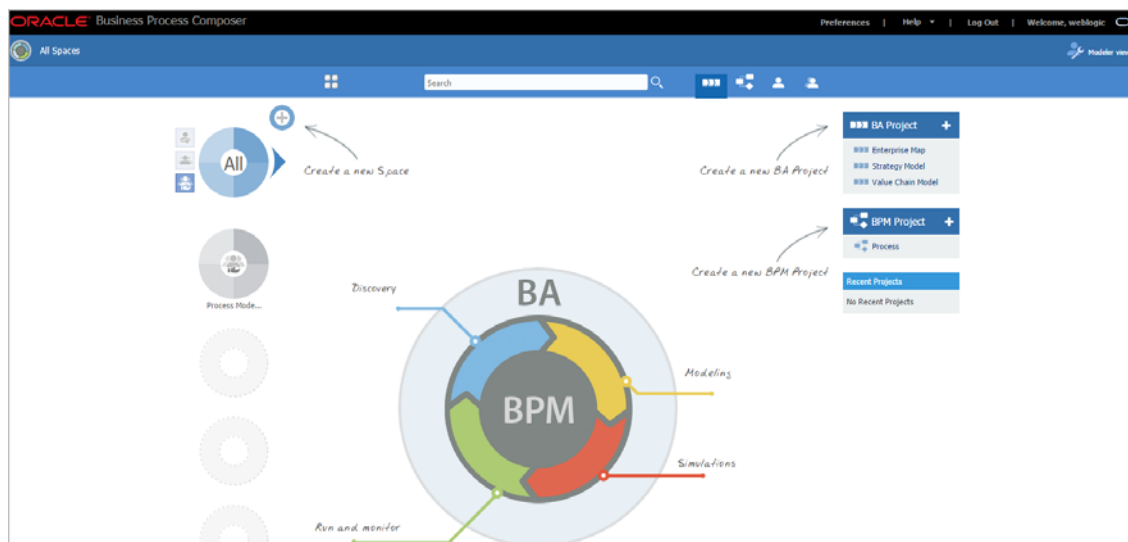
1. Launch the Oracle Business Process Composer from a browser, and connect to the Web Server where BPM 12c has been installed.

**Figure 7-1** Log in to the OBP Composer



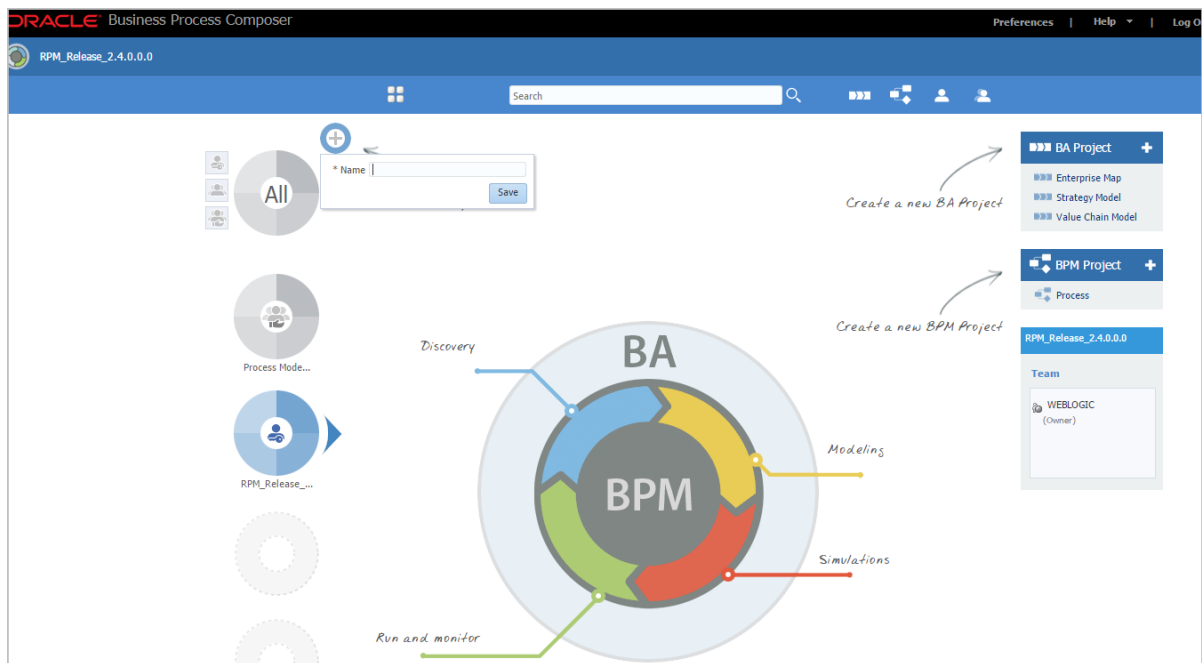
2. Create a new space for the release by clicking the + icon.

**Figure 7-2** Create a New Space



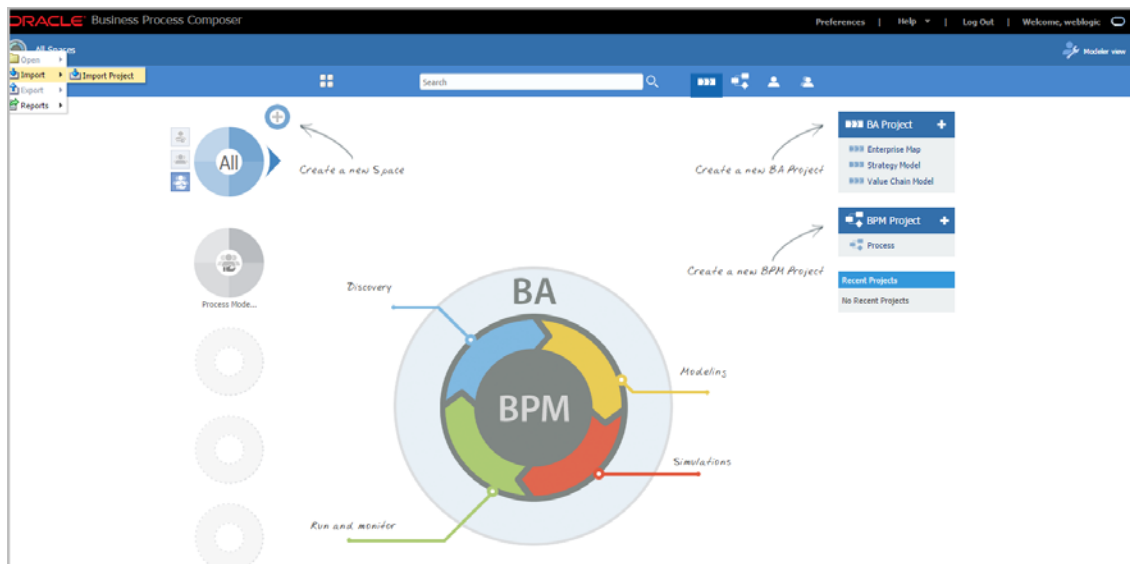
3. Provide an appropriate name for the Space in the box. For example, RPM for OBP Release 2.4.1.0.0.

Figure 7-3 Name the Space



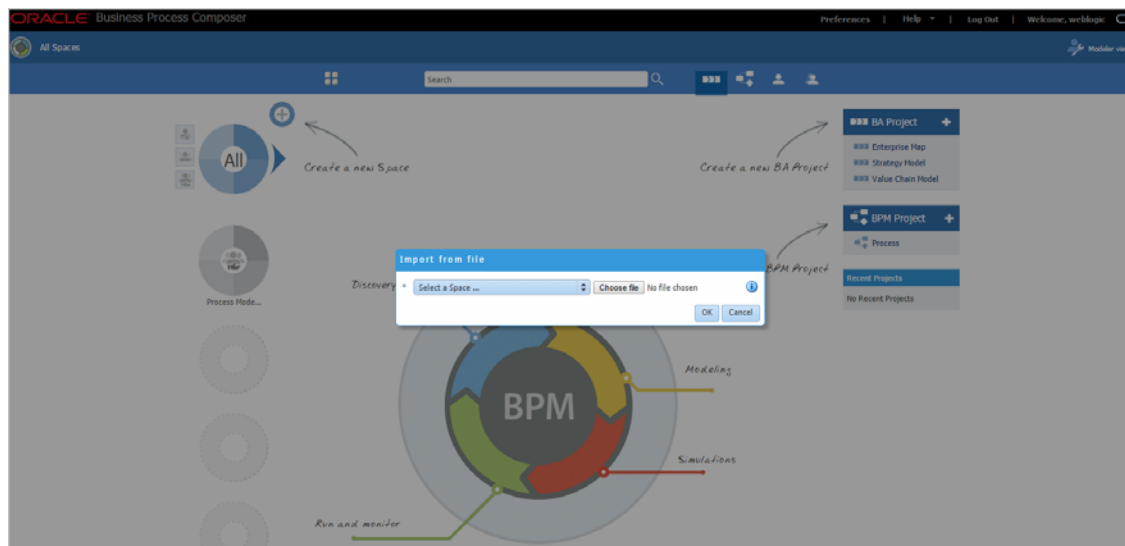
4. Click the **All Spaces** icon in the top left corner. Select **Import** and then select **Import Project**.

Figure 7-4 Import Project



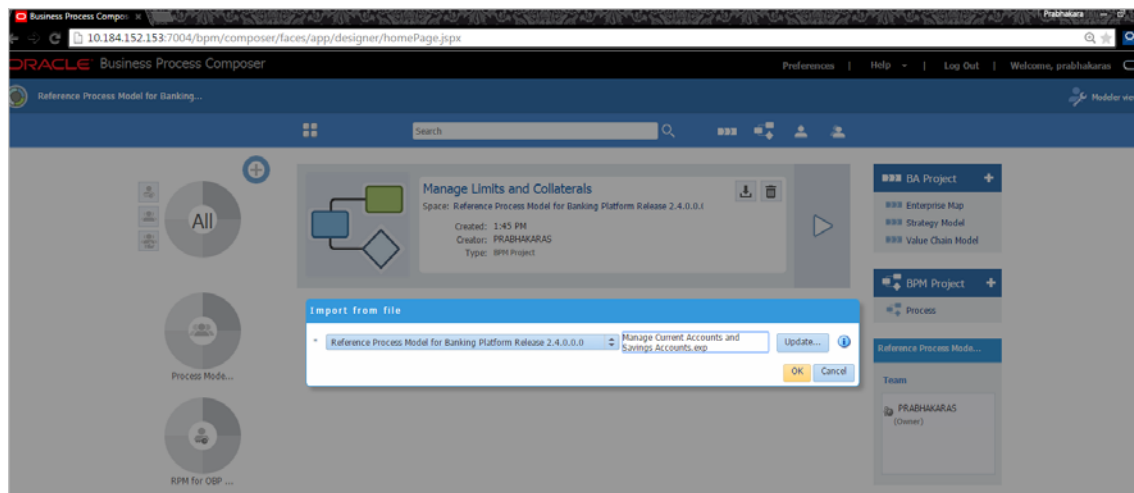
5. Select the newly created space and then select the first file from the files that have been unzipped from the media pack, as a part of the pre-installation step.

Figure 7-5 Select the first file



6. Click OK to import the project.

Figure 7-6 Click OK to Import the Project



7. Proceed to import all the 18 projects one by one onto the space.
8. Once all the projects are imported, you can then provide access rights to your users as per your organization requirements and norms. Users can now access BPM processes within the projects according to their access privileges.

The installation process is complete.

---

---

## Standalone Database Setup – Running Repository Creation Utility (RCU)

This chapter details the steps involved in Oracle Banking Platform Database which are primarily concerned with importing an existing database dump of the QA database.

---

---

**Note:** In case the Oracle Banking Platform database is manually created and seeded, then you need to skip this during `installobp.sh` by clicking **Cancel** which causes the script to skip this step and proceed with the rest of the installation workflow.

---

---

### 8.1 Pre-Installation Steps

The following steps should be completed prior to the process of executing the installation steps for the Oracle Banking Platform DB mentioned in [Section 8.2, "Oracle Banking Platform Database Setup – RCU Installation"](#):

1. Oracle Database Enterprise Edition 11.2.0.3.0 is installed on the database server.
2. Obtain the tar file `obprcu.tar` from Oracle Banking Platform Host media pack and copy it onto the database server.

### 8.2 Oracle Banking Platform Database Setup – RCU Installation

Following steps should be performed to create the Oracle Banking Platform DB schema:

1. To manually create host db schema, copy the tar file `obprcu.tar` and `installrcu.sh` (Extract `obpinstall-host.zip` to get these two files) to a directory on the DB server.
2. In Linux console navigate to that directory and run the `installrcu.sh` using the following:

```
#!/installrcu_silent.sh $HOST_TARGET $OBP_HOST_DB_IP $OBP_HOST_DB_PORT
$OBP_HOST_DB_SERVICE_NAME $HOST_DB_SCHEMA_PREFIX $OBP_HOST_DB_PASSWORD
$MDS_HOST_DB_PASSWORD
```

Here `$HOST_TARGET` is the location which contains the `obprcu.tar.gz` and the `installrcu.sh` file.

Use the actual values in arguments, such as:

```
./installrcu_silent.sh /oracle/app/product/fmw/target 10.180.25.200
1521 OBPDB DEV15 welcome1 welcome1
```

It will create two schema named as DEV15\_OBP\_HOST and DEV15\_MDS in the db.

**Figure 8–1 Host DB Schema Setup Confirmation**

```

root@IFLMUDESIM00385:/opt/oracle/fmw/sudip_MW_11.1.1.6/mediapack_silent/host
AMUSER_OUTBOUND_USERNAME      : atmuserweblogic
AMUSER_OUTBOUND_PASSWORD      : weblogic1
POSUSER_OUTBOUND_USERNAME     : posuserweblogic
POSUSER_OUTBOUND_PASSWORD     : weblogic1
DMSHOST_OUTBOUND_USERNAME    : dmshostweblogic
DMSHOST_OUTBOUND_PASSWORD    : weblogic1
DMSUI_OUTBOUND_USERNAME      : dmsuiweblogic
DMSUI_OUTBOUND_PASSWORD      : weblogic1
KEYSTORE_PASSWORD            : welc0me1
UCM_READ_FROM_URL            : true
UCM_IP                        : ofes.ucm.com
UCM_PORT                      : 4444

Please take your time and go through the information printed above in detail.
If the above mentioned information is correct, please enter Y or y to proceed. Press any other key to exit the installation.
y
Installation will begin in sometime.
Please wait while the installables are copied onto the servers.

#####
This computer including any devices attached to this computer and the
information systems accessed from this point contain information that is
confidential.

Your activities and use of these facilities are monitored.
Your use of (and related activities in connection with) these facilities is
recorded and may be reviewed at any time.

For Support You may Contact,
InfraStructure Team
#####
oracle@10.180.25.15's password:
obpininstall-host.zip                                100% 743MB 11.3MB/s 01:06
obpostinstallhost.properties                       100% 3090  3.0KB/s 00:00
installobpostsilent.properties                     100% 714   0.7KB/s 00:00
#####
This computer including any devices attached to this computer and the
information systems accessed from this point contain information that is
confidential.

Your activities and use of these facilities are monitored.
Your use of (and related activities in connection with) these facilities is
recorded and may be reviewed at any time.

For Support You may Contact,
InfraStructure Team
#####
oracle@10.180.25.15's password:
Archive:  /oracle/app/product/fmw/target/obpininstall-host.zip
  inflating: /oracle/app/product/fmw/target/obpininstall.tar.gz
  inflating: /oracle/app/product/fmw/target/obprcu.tar.gz
  inflating: /oracle/app/product/fmw/target/installrcu.sh
  inflating: /oracle/app/product/fmw/target/installDomain.sh
  extracting: /oracle/app/product/fmw/target/1d1f.zip
Finished copying the installables to the target server.
Press Y or y to proceed for host db seeding, else press any other key to skip it.
y

```

Figure 8–2 Enter Database Credentials

```

root@IFLMUD51M00385:/opt/oracle/fmw/sudip_MW_11.1.1.6/mediapack_silent/host
confidential.

Your activities and use of these facilities are monitored.
Your use of (and related activities in connection with) these facilities is
recorded and may be reviewed at any time.

For Support You may Contact,
InfraStructure Team
#####

oracle@10.180.25.15's password:
obpininstall-host.zip                               100% 743MB 11.3M
obpostinstallhost.properties                       100% 3090  3.0K
installobphostsilent.properties                   100%  714  0.7K

#####
This computer including any devices attached to this computer and the
information systems accessed from this point contain information that is
confidential.

Your activities and use of these facilities are monitored.
Your use of (and related activities in connection with) these facilities is
recorded and may be reviewed at any time.

For Support You may Contact,
InfraStructure Team
#####

oracle@10.180.25.15's password:
Archive:  /oracle/app/product/fmw/target/obpininstall-host.zip
  inflating: /oracle/app/product/fmw/target/obpininstall.tar.gz
  inflating: /oracle/app/product/fmw/target/obprcu.tar.gz
  inflating: /oracle/app/product/fmw/target/installrcu.sh
  inflating: /oracle/app/product/fmw/target/installdomain.sh
  extracting: /oracle/app/product/fmw/target/ldif.zip
Finished copying the installables to the target server.
Press Y or y to proceed for host db seeding,else press any other key to skip it.
Y

#####
This computer including any devices attached to this computer and the
information systems accessed from this point contain information that is
confidential.

Your activities and use of these facilities are monitored.
Your use of (and related activities in connection with) these facilities is
recorded and may be reviewed at any time.

For Support You may Contact,
InfraStructure Team
#####

oracle@10.180.25.15's password:
Extracting obprcu.tar.gz...
obprcu.tar.gz extracted.

Enter the username of SYSDBA user:
sys
Enter the password of SYSDBA user:
welcome!

```

Figure 8–3 Creation of Host DB Schema

```
root@IFLMUD51M00385:/opt/oracle/fmw/sudip_MW_11.1.1.6/mediapack_silent/host
Your use of (and related activities in connection with) these facilities is
recorded and may be reviewed at any time.

For Support You may Contact,
InfraStructure Team
#####

oracle@10.180.25.15's password:
Archive: /oracle/app/product/fmw/target/obpinstall-host.zip
  inflating: /oracle/app/product/fmw/target/obpinstall.tar.gz
  inflating: /oracle/app/product/fmw/target/obprcu.tar.gz
  inflating: /oracle/app/product/fmw/target/installrcu.sh
  inflating: /oracle/app/product/fmw/target/installdomain.sh
  extracting: /oracle/app/product/fmw/target/ldif.zip
Finished copying the installables to the target server.
Press Y or y to proceed for host db seeding, else press any other key to skip it.
Y

#####
This computer including any devices attached to this computer and the
information systems accessed from this point contain information that is
confidential.

Your activities and use of these facilities are monitored.
Your use of (and related activities in connection with) these facilities is
recorded and may be reviewed at any time.

For Support You may Contact,
InfraStructure Team
#####

oracle@10.180.25.15's password:
Extracting obprcu.tar.gz...
obprcu.tar.gz extracted.

Enter the username of SYSDBA user:
sys
Enter the password of SYSDBA user:
welcome1

The OBP DB installation started...

Processing command line ....
Repository Creation Utility - Checking Prerequisites
Checking Global Prerequisites

Repository Creation Utility - Checking Prerequisites
Checking Component Prerequisites
Repository Creation Utility - Creating Tablespaces
Validating and Creating Tablespaces
Repository Creation Utility - Create
Repository Create in progress.
Percent Complete: 0
Percent Complete: 6
Percent Complete: 12
Percent Complete: 12
Percent Complete: 37
Percent Complete: 37
```



**Figure 8–4 Completion of Host DB Schema Creation**

```

root@FLMUD51M00385:/opt/oracle/fmw/sudip_MW_11.1.1.6/mediapack_silent/host
Enter the username of SYSDBA user:
sys
Enter the password of SYSDBA user:
welcome1

The OBP DB installation started...

Processing command line ....
Repository Creation Utility - Checking Prerequisites
Checking Global Prerequisites

Repository Creation Utility - Checking Prerequisites
Checking Component Prerequisites
Repository Creation Utility - Creating Tablespaces
Validating and Creating Tablespaces
Repository Creation Utility - Create
Repository Create in progress.
Percent Complete: 0
Percent Complete: 6
Percent Complete: 12
Percent Complete: 12
Percent Complete: 37
Percent Complete: 37
Percent Complete: 53
Percent Complete: 53
Percent Complete: 75
Percent Complete: 100
Repository Creation Utility: Create - Completion Summary
Database details:
Host Name      : 10.180.25.200
Port          : 1521
Service Name   : OBPDB
Connected As   : sys
Prefix for (prefixable) Schema Owners : DEV29
RCU Logfile    : /oracle/app/product/fmw/target/obprcu/rcuHome/rcu/log/logdir.2012-12-24_16-24/rcu.log
Component schemas created:
Component      Status Logfile
Metadata Services Success /oracle/app/product/fmw/target/obprcu/rcuHome/rcu/log/logdir.2012-12-24_16-24/mds.log
Oracle OBP HOST Success /oracle/app/product/fmw/target/obprcu/rcuHome/rcu/log/logdir.2012-12-24_16-24/obp_host.log

Repository Creation Utility - Create : Operation Completed
Finished installing the OBP DB schema.
The configuration of OBP Host domain shall begin immediately thereafter. Press any key to begin.

#####
This computer including any devices attached to this computer and the
information systems accessed from this point contain information that is
confidential.

Your activities and use of these facilities are monitored.
Your use of (and related activities in connection with) these facilities is
recorded and may be reviewed at any time.

For Support You may Contact,
InfraStructure Team
#####
oracle@10.180.25.15's password:

```

## 8.3 Completion of Host DB Schema Creation Verification

This section describes verification steps that can be taken to check if the Database setup is complete. The procedure to check if the DB setup is complete is as follows:

1. Verify that the new tablespace is created.
2. Logon to the database with user id of the user specified in the import script.
3. Execute the query “select \* from tab;” on the sql prompt to verify that the OBP tables are present.

## 8.4 HOST DB Schema Seeding

This section provides information on the Host Database Schema Seeding. The procedure is as follows:

1. After the host db schema has been created successfully, copy the ‘seed’ folder from ‘\$HOST\_TARGET /obprcu/rcuHome/rcu/integration/obphost/sql/ORACLE’ location to any machine where ‘sqlplus’ is available (TNS entry of the host db may be required in that machine to enable connectivity from the machine to the host db server).
2. Now open command prompt and navigate inside the ‘seed’ folder in the local machine where it has been copied. Run the following commands using the actual details of host db schema which was created.

```
PROMPT> sqlplus schemauser/password@TNSEntryOfDB @seed.sql
```

For example, assume that the seed is being executed from 'D:\seed' folder of a Windows machine having sqlplus console available for execution of sql commands and scripts.

```
C:> D:
```

```
C:> cd D:\seed
```

```
D:\seed > sqlplus DEV15_OBP_HOST@welcome1@OBPDB @seed.sql
```

It will take some time to completely execute all the seed scripts. It will ask for some inputs at the time of seeding, just press Enter to continue. When OBP DB seeding is completed, the control will return to the sql prompt.

## 8.5 System Configuration DB Update Script Execution

After the host db schema has been created successfully, copy the 'updateSystemDetails.sql' file from 'HOST\_MW\_HOME' location to any machine where 'sqlplus' is available. (TNS entry of the host db may be required in that machine to enable connectivity from the machine to the host db server).

Now, open command prompt and navigate 'updateSystemDetails.sql' file in the local machine where it has been copied. Then run the following using the actual details of host db schema which was created.

```
PROMPT> sqlplus schemauser/password@TNSEntryOfDB @  
updateSystemDetails.sql
```

For example, assume that the seed is being executed from 'D:\script' folder of a Windows machine having sqlplus console available for execution of sql commands and scripts.

```
C:> D:
```

```
C:> cd D:\script
```

```
D:\seed > sqlplus DEV15_OBP_HOST@welcome1@OBPDB @ updateSystemDetails.sql
```

---

# Oracle Banking Platform and IPM Integration

This chapter details the steps involved in the integration of Oracle Banking Platform and Oracle Imaging and Process Management (IPM).

OBP integrates natively with Oracle IPM as the content management solution. Configuration information relevant from an OBP point of view is provided in the following sections:

- [Section 9.1, "IPM Application Creation"](#)
- [Section 9.2, "Manage Inputs"](#)

The steps listed therein should be followed to configure IPM to facilitate it to integrate with OBP. However, you can see the administration guide for Oracle IPM for details on how to manage connections, inputs and applications in IPM.

## 9.1 IPM Application Creation

This section provides information on creation of the IPM application. This is a mandatory configuration required on the IPM side to enable integration of OBP with IPM for content management.

### 9.1.1 Manage Connections

This section provides information on managing connections in IPM. The following connection profiles will be used during creation of the applications in the next section [Manage Applications](#).

#### 9.1.1.1 UCM Connection

UCM connection is used to point to the underlying UCM Server where the documents are stored.

- OBP\_IPM\_UCM\_CONN\_NAME
- OBP\_IPM\_UCM\_CONN\_PORT

#### 9.1.1.2 Workflow Connection

Workflow connection is used to point to the 'IPMBulkUpload' BPEL process deployed on the SOA server as part of the SOA media pack installation process.

- OBP\_IPM\_SOA\_CONN\_NAME
- SOA\_MANAGED\_SERVER\_LISTEN\_ADDRESS
- SOA\_MANAGED\_SERVER\_LISTEN\_PORT

## 9.1.2 Manage Applications

This section provides information on managing applications in IPM.

See the Oracle Banking Platform Administrator's Guide for Oracle IPM for details on how to create an application in IPM. Following are the steps to manage applications in IPM:

1. Create a main application and a temporary application in IPM using the names listed for properties OBP\_IPM\_MAIN\_APP\_NAME and OBP\_IPM\_TEMP\_APP\_NAME in the installation checklist [Updating installobp\\*\\*\\*.properties](#) respectively.

The field definitions to be used during creation of an application have been depicted in [Figure 9–1, "IPM Application Field Definitions"](#) and workflow configuration details have been depicted in [Figure 9–2, "IPM Application Workflow Configuration"](#).

The applications should be created with the details as depicted below. The application ID generated for both the applications should be noted for use in the next step.

**Figure 9–1 IPM Application Field Definitions**

Type	Name	Length	Scale	Required	Indexed	Default Value	Picklist
Abc	Document Type	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	Customer Id	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	FCDocId	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>
Abc	UploadType	80		<input type="checkbox"/>	<input checked="" type="checkbox"/>		<input type="checkbox"/>

**Figure 9–2 IPM Application Workflow Configuration**

**Server Properties**  
Connection: 22:STR250A

**Component Properties**  
Composite: default/com.ofss.fc.workflow.process.UpdateDocument!1.0  
Service: updatedocumentprocess\_client\_ep  
Operation: process

**Payload Properties**

Payload Id	Mapped Value
process.CustomerId	FieldValue CustomerId
process.DocumentType	FieldValue DocumentType
process.FCDocId	FieldValue FCDocId
process.UploadType	FieldValue UploadType
process.docId	DocId
process.docURL	DocURL

2. The application id generated for the main and temporary applications created in the previous step should be updated in the OBP DB schema table flx\_cm\_doc\_typ\_meta\_data using the following SQL statements:

---



---

**Note:** In the SQL statements, replace the <main application id> with the application id generated for the IPM application OBP\_IPM\_MAIN\_APP\_NAME listed in the checklist and <temporary application id> with the application id generated for the IPM application OBP\_IPM\_TEMP\_APP\_NAME listed in the checklist, with the actual generated.

---



---

**SQL for main application:**

```
update flx_cm_doc_typ_meta_data
set app_id = '<main application id>'
where doc_typ_id = 'MAIN';
```

**SQL for temp application:**

```
update flx_cm_doc_typ_meta_data tp
set app_id = '<temporary application id>'
where doc_typ_id = 'TEMP';
```

3. Create a temporary folder on the middleware Host server and specify the folder name against PROPERTY\_FILE\_PATH\_FOR\_MANIFEST in the property file oracleipm.properties.

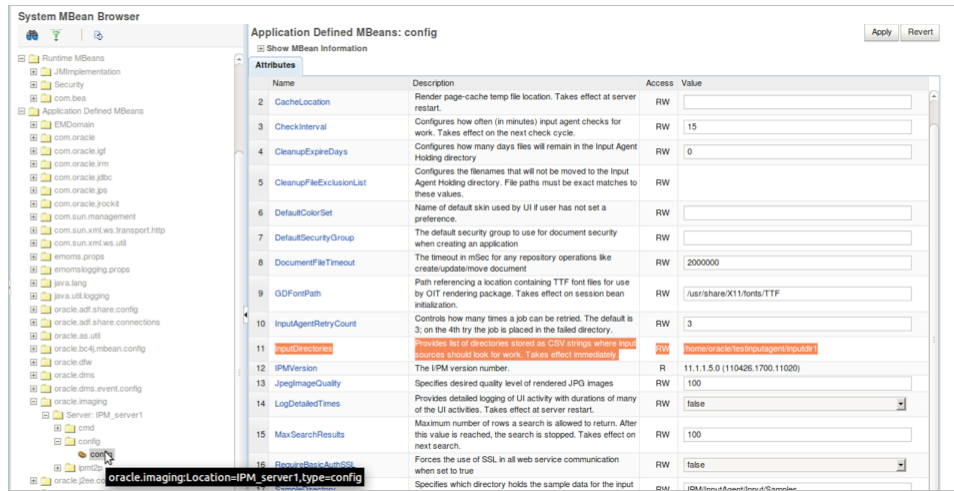
## 9.2 Manage Inputs

Manage Inputs is an optional configuration step. It is required only for banks that need to upload documents in bulk. Creation of an input configuration results in defining an input file format and mapping the file input data with the application field definitions. This file format is then deciphered by the IPM Bulk data upload feature (known as a document upload input agent in IPM), which uploads scanned documents from a shared folder into IPM.

This upload takes place in the following steps:

1. A file containing details of the scanned documents to be uploaded is taken as input from a location on the server. This location has to be configured in the System MBean Browser as shown below:

**Figure 9–3 IPM Bulk Upload Input Location**



2. Uploads the scanned documents as specified in the input file.
3. Invokes the 'IPMBulkUpload' BPEL process deployed on the SOA server as part of the SOA media pack installation process.
4. The BPEL process updates the IPM document reference id in OBP for the document record.

---

---

## BIP Datasource Creation

This chapter explains the steps required for Oracle Banking Platform BIP (BI Publisher) datasource creation.

### 10.1 BIP Datasource Creation

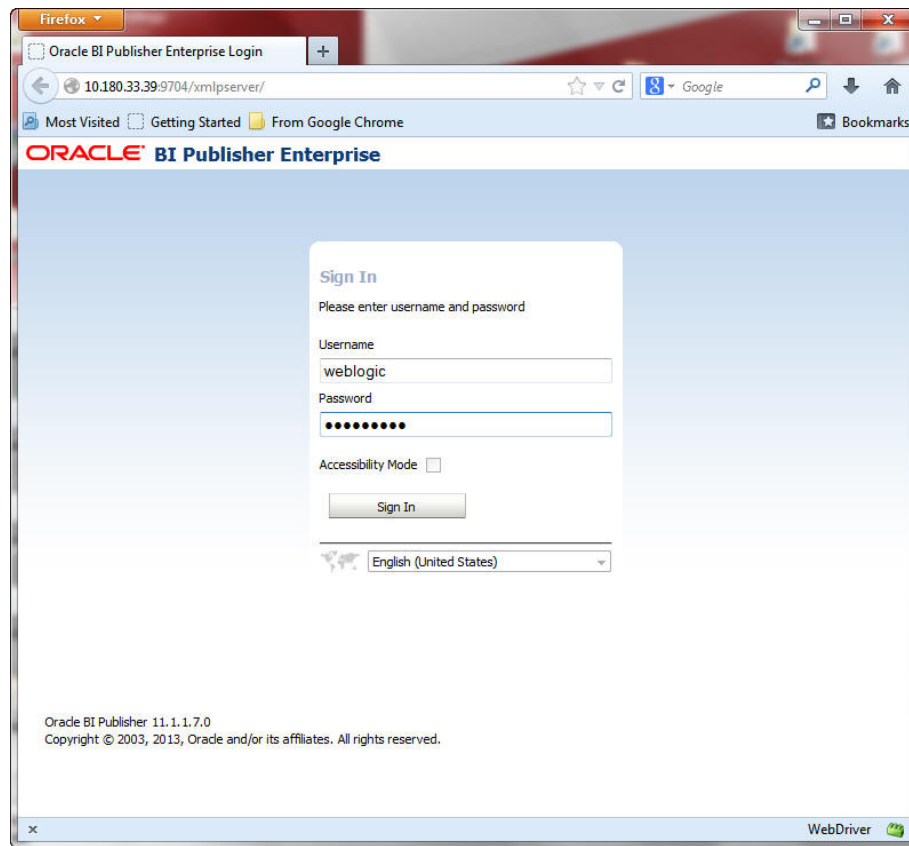
To use BIP, it is required to create datasource in BIP server. This can be done after Host pre-install. The data source must point to the same db schema as given in BIP\_DATASOURCE\_NAME in installobphost.properties.

Follow the below mentioned steps to create the datasource:

1. Open a browser and navigate to:  
<BIP\_SERVER\_IP>:<BIP\_SERVER\_PORT>/xmlpserver
2. Log on using the following credentials:

<b>Username</b>	<BIP_SERVER_ USER>
<b>Password</b>	<BIP_SERVER_ PSWD>

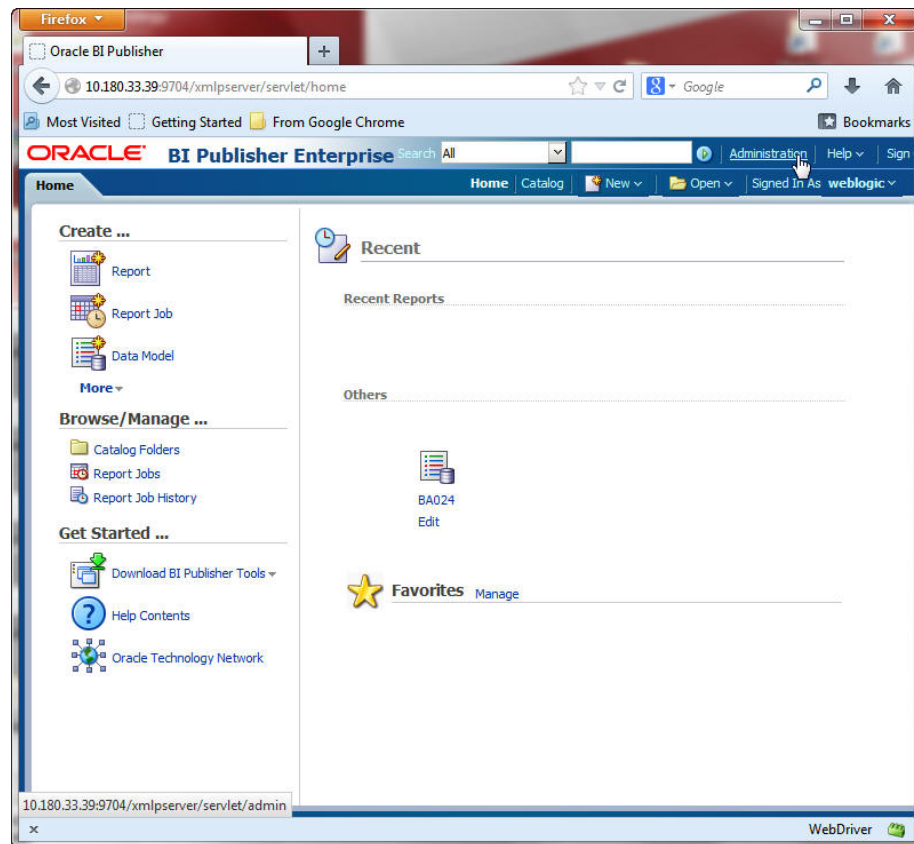
**Figure 10–1 BIP Server Console Login**



3. After logging in, click **Administration**.

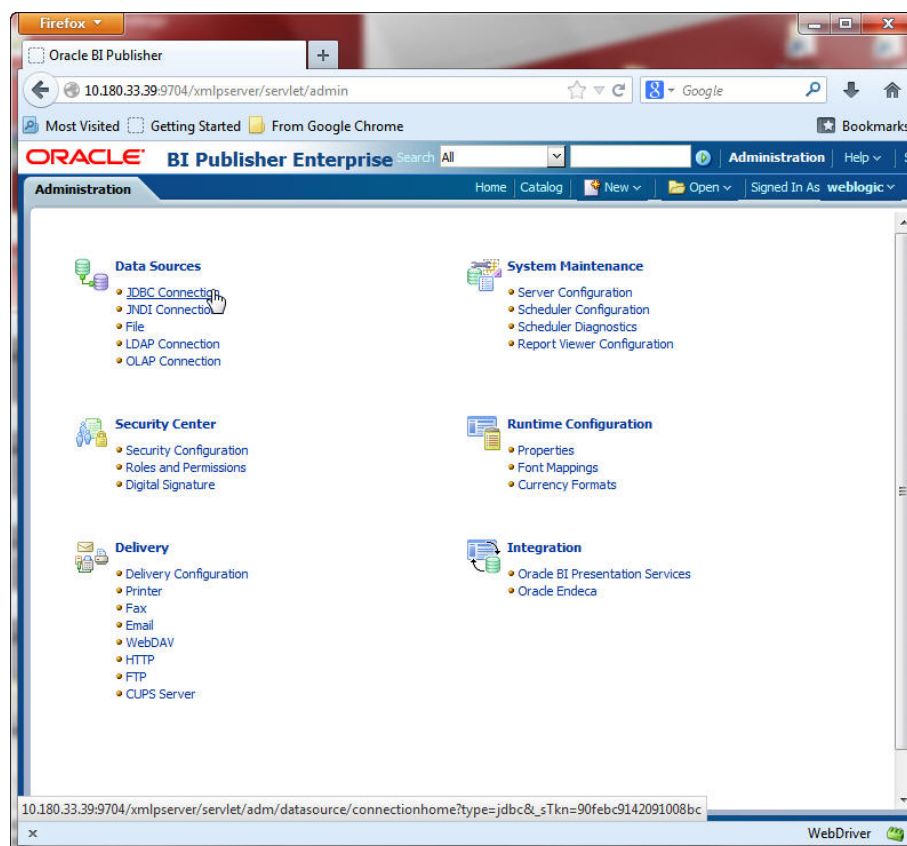


Figure 10–2 BIP Administration



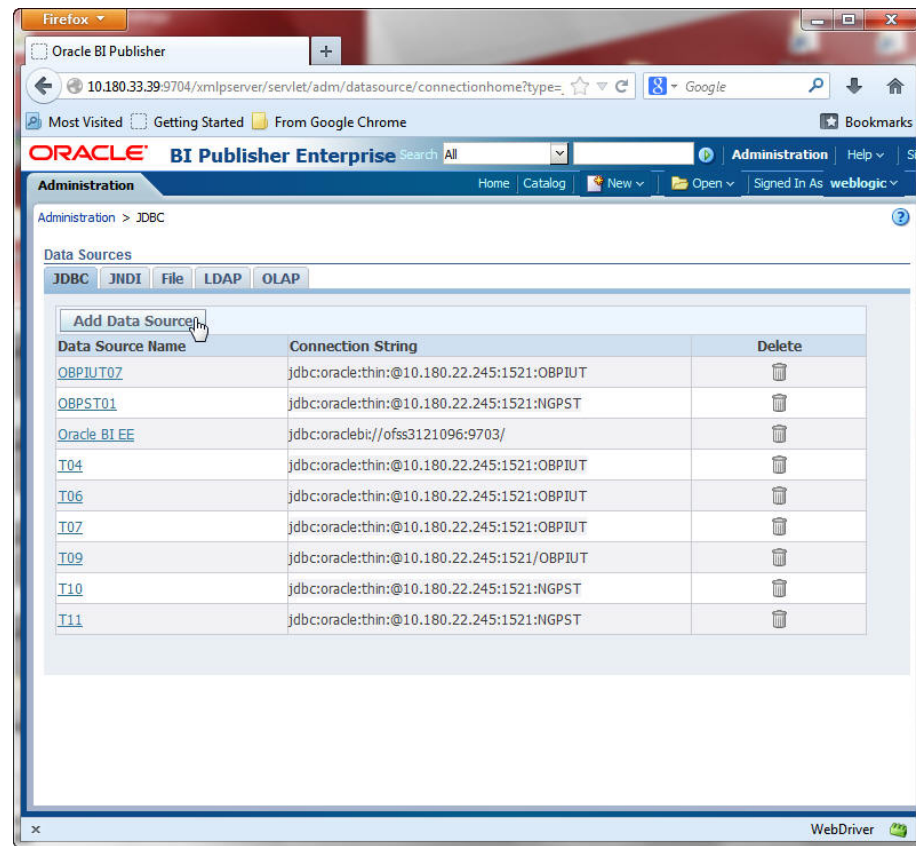
4. Click JDBC Connection under Data Sources.

Figure 10–3 BIP JDBC Connection



5. Click the **Add Data Source** button.

Figure 10–4 BIP - Add Data Source



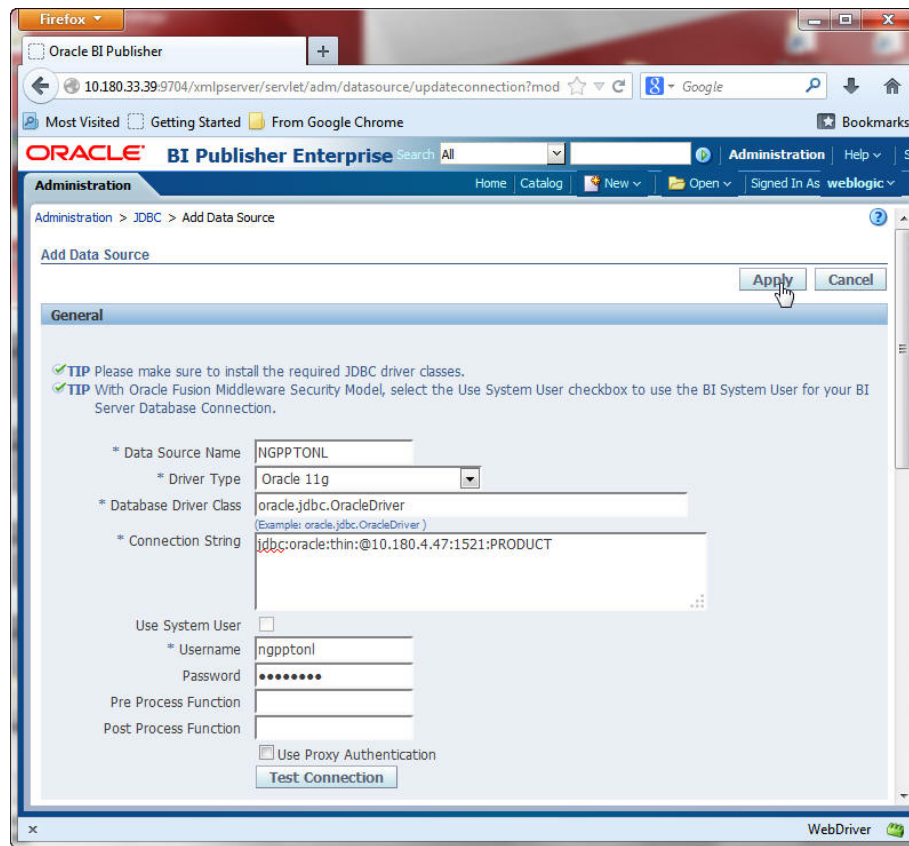
6. Fill up the following fields:

**Table 10–1 Data Source Details**

Field Name	Description
Data Source Name	Any name can be given here
Driver Type	Oracle 11g
Database Driver Class	oracle.jdbc.OracleDriver
Connection String	jdbc:oracle:thin:@<OBP_HOST_DB_IP>:<OBP_HOST_DB_PORT>:<OBP_HOST_DB_SERVICE_NAME>
Username	<BIP_DATASOURCE_NAME>
Password	<OBP_HOST_DB_PASSWORD>

7. Click **Ok**.

Figure 10-5 BIP Data Source Created



---

# Monitoring Servers Using Oracle Enterprise Manager

This chapter lists the steps required to monitor servers using Oracle Enterprise Manager (EM).

The OBP servers can be monitored using Oracle Enterprise Manager (EM). 'em\_monitor.zip' is available inside 'host.zip' for this purpose. The procedure is as follows:

1. Extract the 'host.zip' to get 'em\_monitor.zip'.
2. Extract 'em\_monitor.zip'.  
It contains 'obp\_em\_view\_script' folder and 'EM\_VIEW\_READ\_ME.doc'.
3. Follow the procedures given in this chapter for monitoring the OBP Servers.

## 11.1 Add EM Agents

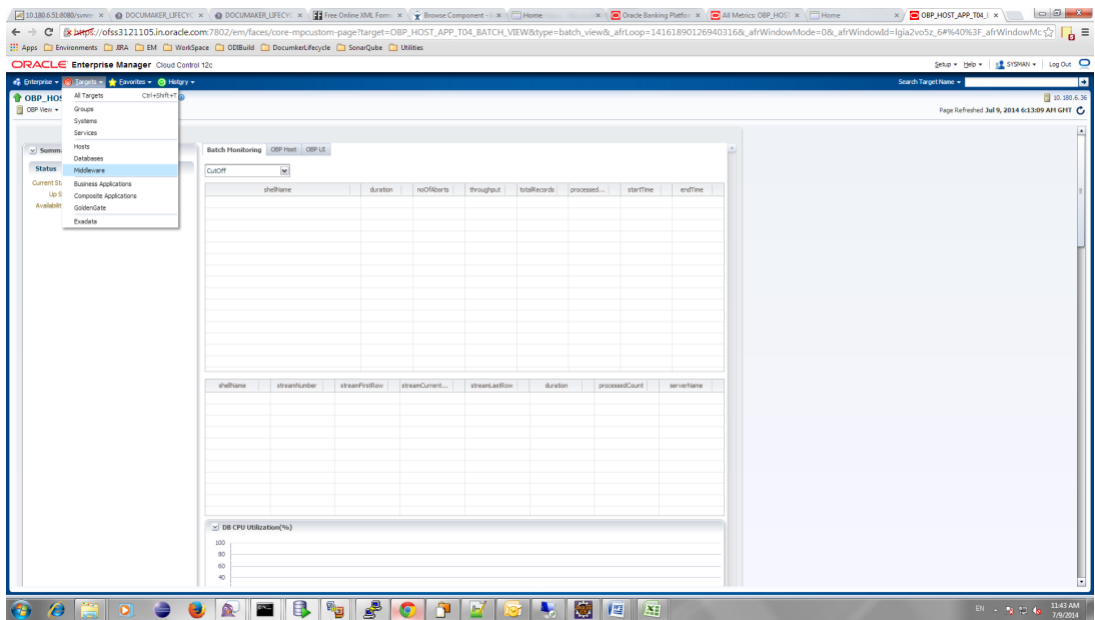
Following are the steps involved to add EM agents, middleware, and database instances on the EM:

1. Add the EM agents to the HOST, UI, SOA, OID, and HOST Database servers of the environment.
2. After adding the agents, create the middlewares for the servers.

Following are the steps to create middlewares for the servers.

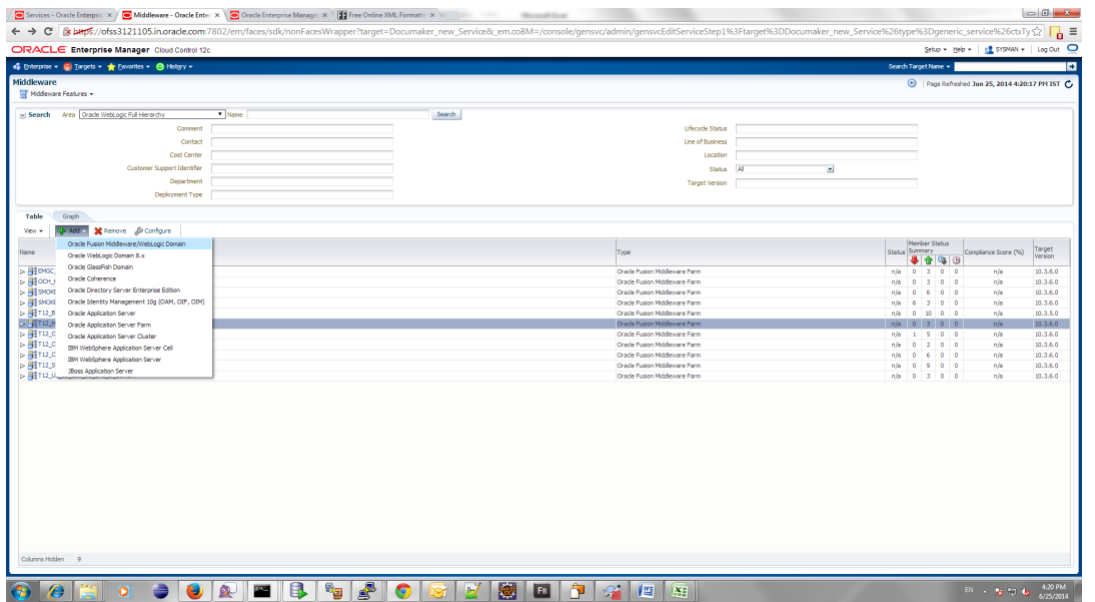
- a. Log on to the EM UI.
- b. Add a middleware from the **Target** tab.

Figure 11–1 Add Middlewares



c. Add a new Oracle Fusion Middleware or WebLogic Domain.

Figure 11–2 Add Oracle Fusion Middleware or WebLogic Domain

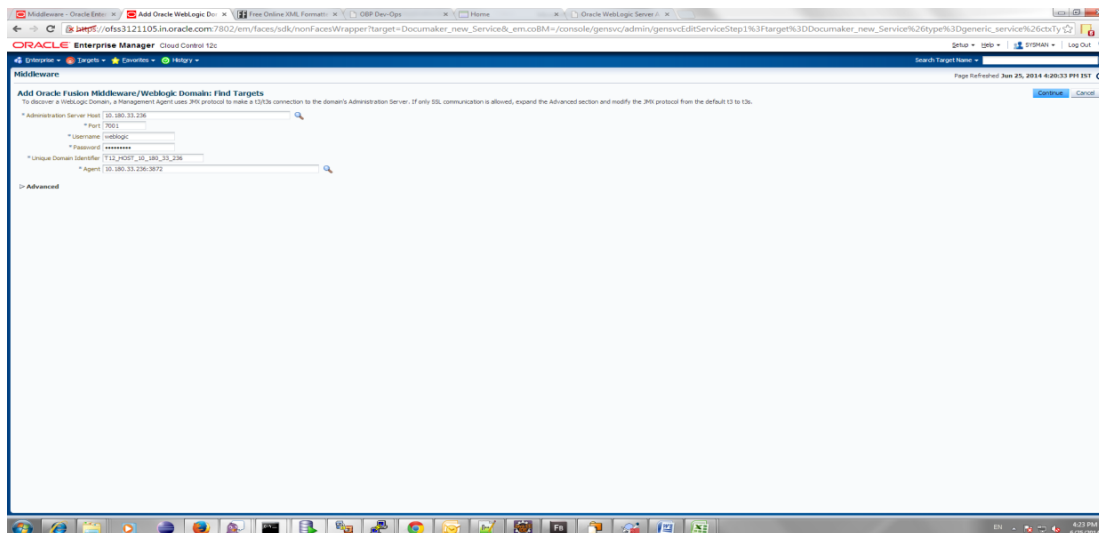


d. Enter the details of the server for which the middleware is to be created.  
 For example, for T12 HOST:  
**Administration Server Host** : 10.180.33.236  
**Port**: Automatically detected  
**Username**: weblogic  
**Password**: welcome1

**Unique Domain Identifier:** T12\_HOST\_10\_180\_33\_336 (exactly the same format has to be entered; so for T12 UI middleware creation Unique Domain Identifier should be: T12\_UI\_10\_180\_33\_241)

**Agent:** It is automatically detected after you enter the Administration Server Host name.

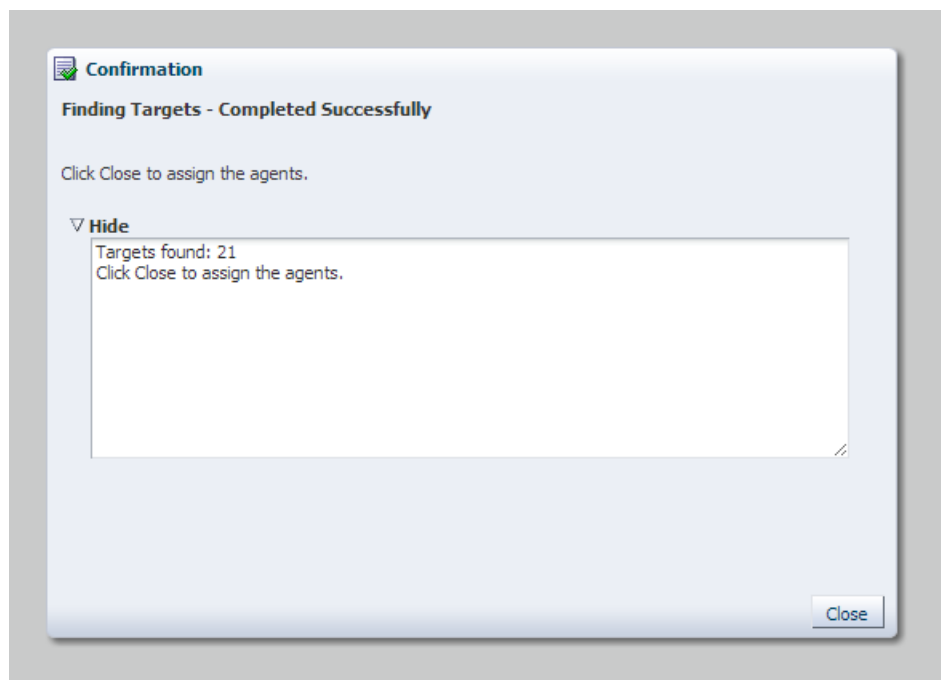
**Figure 11–3 Enter Server Details**



e. Click **Continue**.

The targets for the server are identified.

**Figure 11–4 Identify Targets**

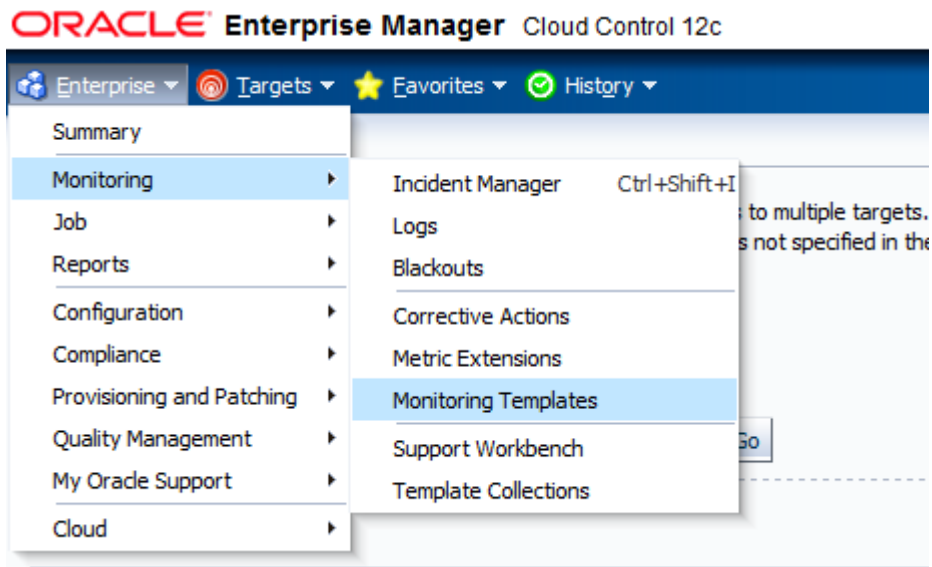


f. Click **Close**.

- g. Click Add Targets.**  
The targets are added after the search.
- h. Click Finish** to complete the middleware creation for that server.  
Similarly, you can create middlewares for UI, SOA, and OID servers.
- 3. Create the DB instance** for the Host DB, where the EM agent had been added.
- 4. Create Monitoring Templates** for Host and UI servers of an environment by following the steps mentioned below.

  - a. Navigate** to Enterprise -> Monitoring -> Monitoring Templates.

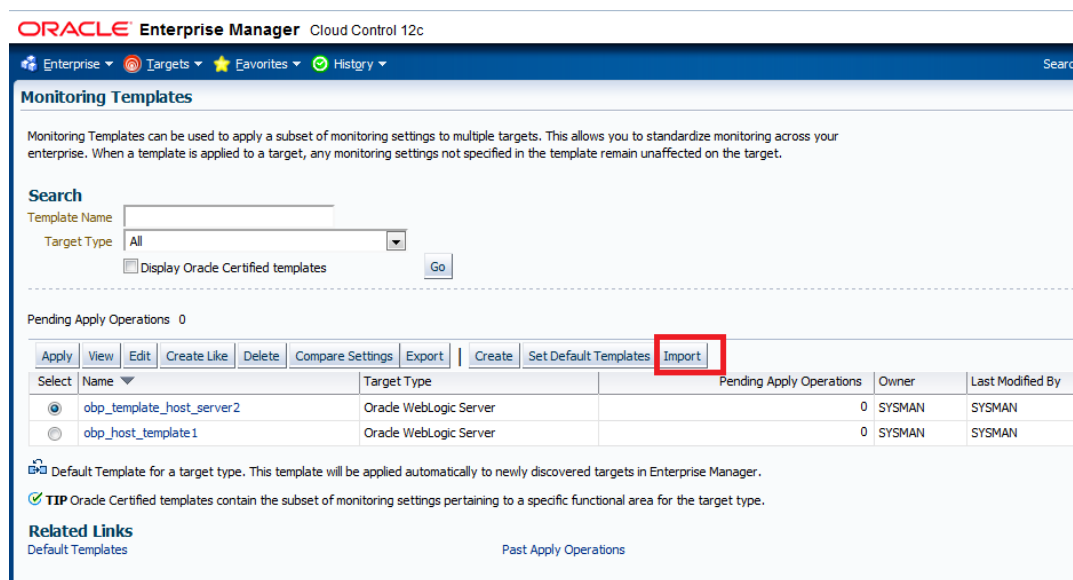
**Figure 11–5 Monitoring Templates**



- b. Select Import.**



Figure 11–6 Select Import



The **Monitoring Templates** page appears.

- c. Select the zip file and click **Import**, to import the template.

Location:

**Host template:** PATH/obp\_em\_view\_script/template\_files/host/

**UI template:** PATH/obp\_em\_view\_script/template\_files/ui

Figure 11–7 Import Template




---

**Note:** Create Monitoring Templates for Host and UI servers of an environment needs to be done only once for an EM machine.

---

## 11.2 Deploy OBP EM Plugin

Following are the steps to deploy OBP EM plugin in an environment:

### Step 1 Set the Environment Variables

1. Log on to the EM console.
2. Export the PATH to include OMS bin folder:

```
export PATH=$PATH: <Path to OEM12c>/Oms12C/oms/bin
```

For example:

```
export PATH=$PATH:/scratch/app/Oem12C/Oms12C/oms/bin
```

**3. Export the EMCLI command path:**

```
export EMCLI= $EMCLI: <Path to OEM12c>/Oms12C/oms/bin/emcli
```

For example:

```
export PATH=$PATH:/scratch/app/Oem12C/Oms12C/oms/bin/emcli
```

**4. Export the HS\_HOME:**

```
export HS_HOME= $HS_HOME: <Path to Enterprise Development Kit
Directory>/12.1.0.3.0_edk_partner/samples/plugins/HostSample/demo_
hostsystem/demo_hostsystem
```

For example:

```
export HS_HOME= $HS_HOME:/scratch/app/product/plugin_
dev/EnterpriseDevelopmentKit/12.1.0.3.0_edk_
partner/samples/plugins/HostSample/demo_hostsystem/demo_hostsystem
```

## Step 2 Deploy the Plugin in the EM

(scripts assume standard ports for the following: EM\_PORT=7802 AGENT\_PORT=3872)

**1. Navigate to the plugin script folder.**

For example:

```
/scratch/app/product/plugin_dev/EnterpriseDevelopmentKit/12.1.0.3.0_
edk_partner/samples/plugins/HostSample/demo_hostsystem/demo_
hostsystem/scripts
```

**2. If the plugin is already deployed in the EM, undeploy them from the agents and the EM.**

---

---

**Note:** This step can be performed only if the plugin is already deployed and a new or modified plugin needs to be deployed in the environment.

---

---

To undeploy the plugin from the agents, run the `undeploy_agent.sh`

```
./undeploy_agent.sh plugin_version host_name user_name(EM) password(EM)
env_name em_repos_sys_password
```

For example:

```
./undeploy_agent.sh 12.1.0.4.0 10.180.6.36 sysman welcome12c T04
welcome1
```

If the undeployment is unsuccessful, you can undeploy it manually as follows:

**a. Navigate to Setup -> Extensibility -> Plug-ins.**

Figure 11–8 Undeploy Plugin

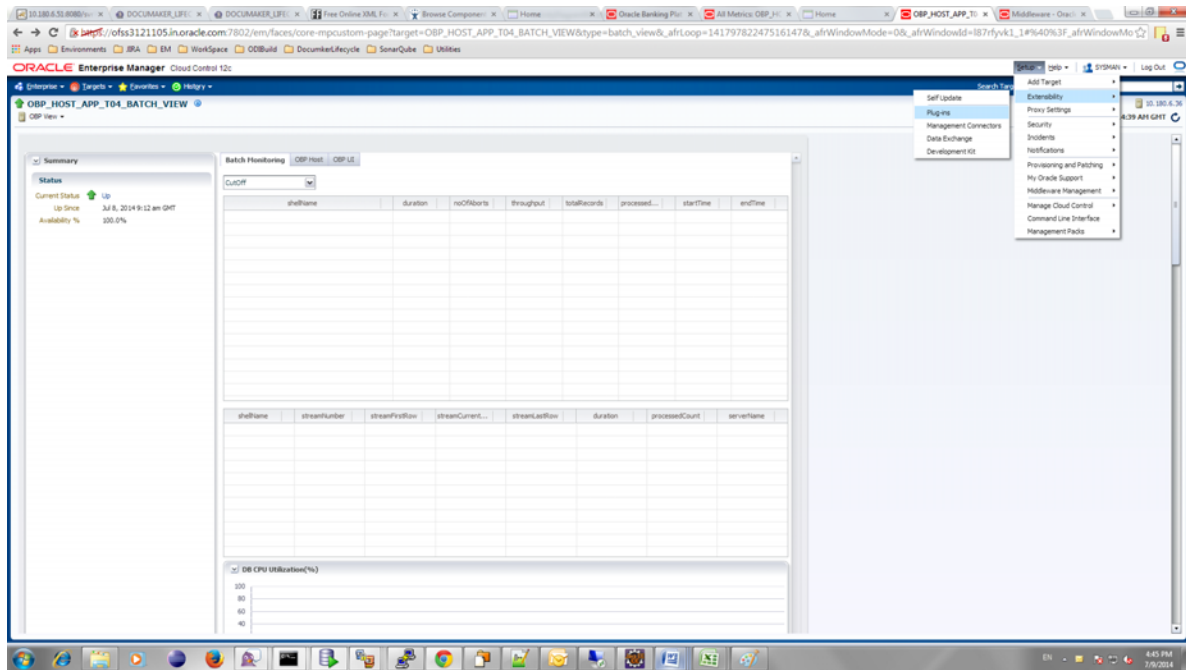


Figure 11–9 Undeploy Plugin - Select Management Agents

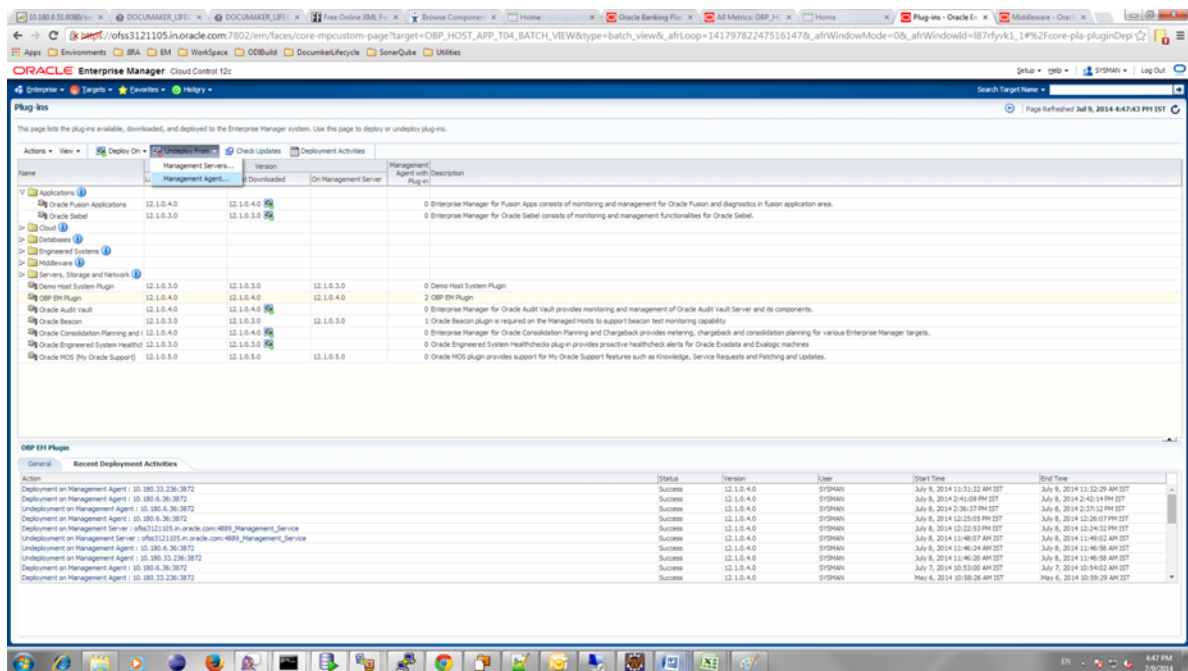
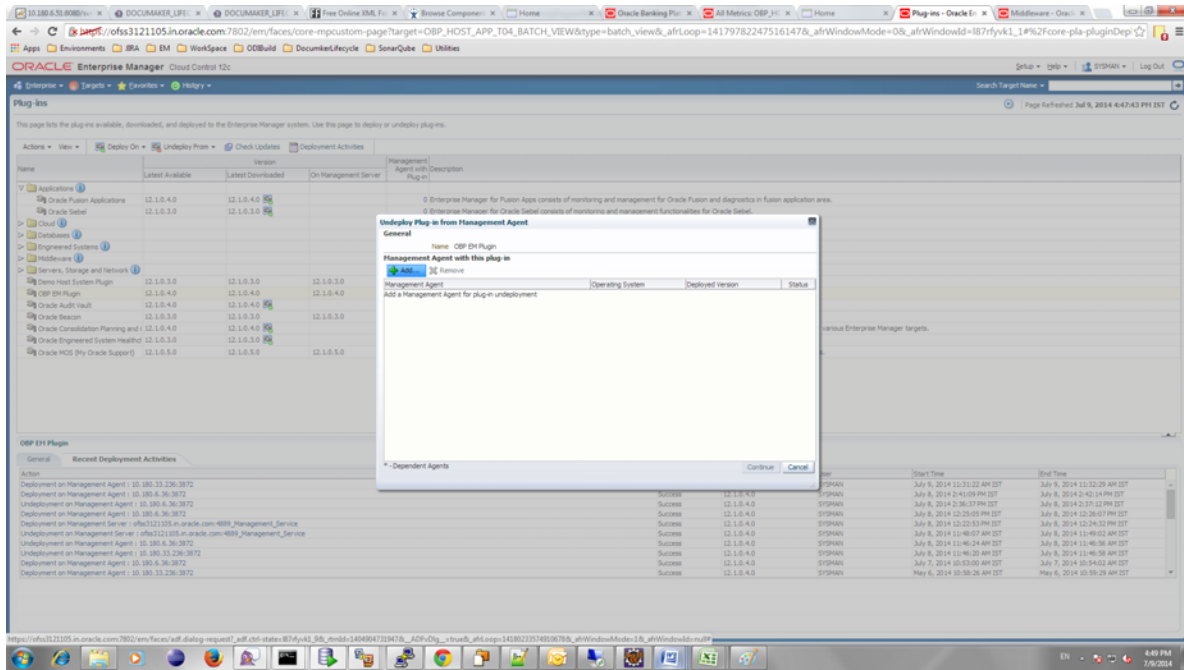
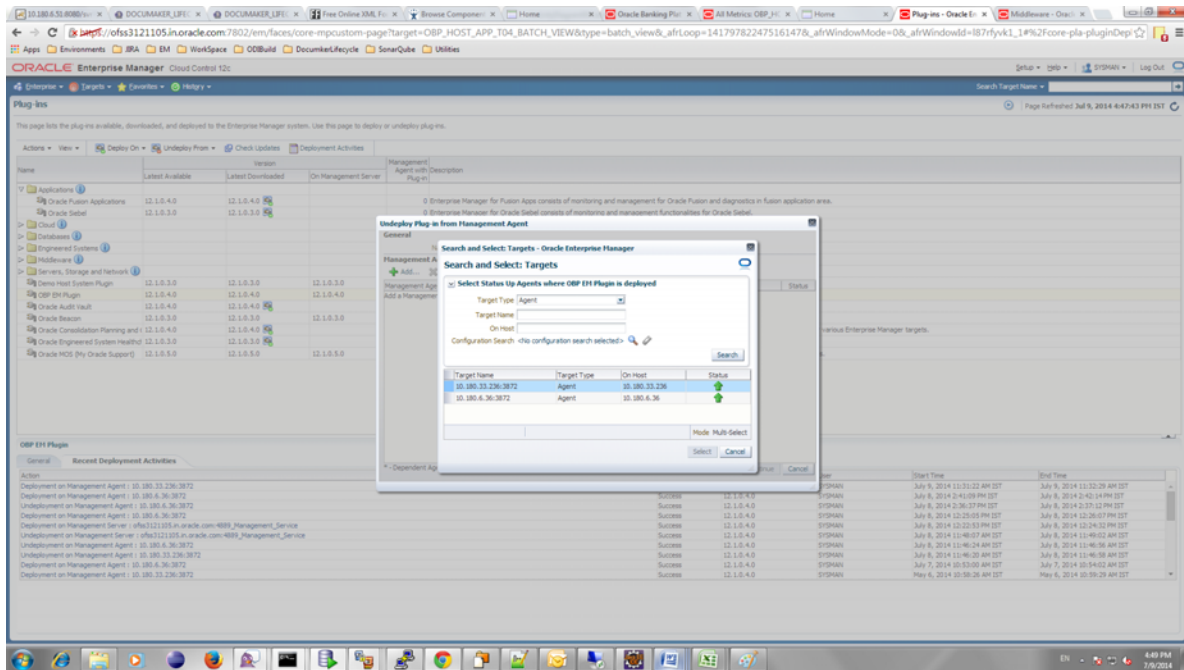


Figure 11–10 Undeploy Plugin - Click Add



b. Select the agents and finish the undeployment.

Figure 11–11 Undeploy Plugin - Select Agent



c. Run the `undeploy_oms.sh` script to undeploy the plugin from the EM.  
`./undeploy_oms.sh plugin_version user_name(EM) password(EM) em_repos_sys_password`

For example:

```
./undeploy_oms.sh 12.1.0.4.0 sysman welcome12c welcome1]
```

3. To deploy the plugin to the EM and agents, follow the below steps:

1. Run the `deploy_oms.sh` script.

```
./deploy_oms.sh plugin_version username(EM) password(EM) em_repos_
sys_password
```

For example:

```
./deploy_oms.sh 12.1.0.4.0 sysman welcome12 welcome1]
```

2. Run the `deploy_agent.sh` script.

```
./deploy_agent.sh plugin_version agent_host_name username(EM)
password(EM) CPU_NUMBER(host) host_db_machine_name host_db_port
host_db_sid host_db_username host_db_password env_name em_repos_
sys_password UI_IP SOA_IP OID_IP ext3
```

For example:

```
./deploy_agent.sh 12.1.0.4.0 10.180.6.36 sysman welcome12c
10.180.6.36 10.180.84.34 1521 OBPTEST obpiut04rd obpiut04rd T04
welcome1 10.180.33.49 10.180.84.92 10.180.6.100 ext3
```

## 11.3 Create Services and Aggregate Service

The script is for creation of monitoring view in Enterprise Manager.

Monitoring services of all the servers of an environment (Host, Presentation, SOA, OID, and so on) are created, after the successful execution of the script.

The monitoring services show the performance metric for the respective servers. For example, CPU Utilization, JVM Memory-Heap Memory Usage, and so on.

Host and Presentation services contain OBP specific metric, which gives the Average Processing Time of various OBP services.

List of these OBP services are present in `/obp_em_view_script/metric_extensions/metric_extensions_list_host.txt` for Host server and `/obp_em_view_script/metric_extensions/metric_extensions_list_ui.txt` for Presentation server.

If any service from the list is not to be monitored, it can be ignored by placing '#' in the beginning.

Logs are generated in `obp_em_view_script/logs/em_view_log.txt`.

### Using Script

The folder `obp_em_view_script` has to be copied to the OMS (EM Server).

### 11.3.1 Verify SOA keys for Service Creation of SOA Process

Check the SOA composites for inclusion as keys. Following are the steps to be performed:

1. Navigate to the Middleware screen in EM.
2. Select the SOA middleware added.



---

**Note:** You can add a few composites. After the service is created by the script, the rest of the composites can be added to the service by just selecting them from the screen.

---

7. Open the `obp_em_view_script/scripts/generate_key_components_soa.sh` file and go to line 63.

```
"key_comp="/$domain_name/base_domain/${server_category}_
server1/default/com.ofss.fc.workflow.process.CreateDepositAccount
[1.0]:oracle_soa_composite"
```

8. Check the entry of the composite key namely, `com.ofss.fc.workflow.process.CreateDepositAccount [1.0]` in the composite list screen of EM. If the entry is not present, replace the entry in the file with any one which is present in the list on the EM screen.

---

**Note:** The above entry should not be present in the `obp_em_view_script/temp_files/wlsoutput_soa.properties` file.

---

**Figure 11–14 Add Composite Names**

```

43 then
44     echo "INFO: Built domain_ip: " $domain_ip >> ../logs/em_view_log.txt
45 fi
46
47 #building domain name
48 domain_name=${1}/${server_category_upper}/${domain_ip}_base_domain
49 echo $domain_name
50
51 if [[ $log_level == debug ]];
52 then
53     echo "INFO: Built domain_name: " $domain_name >> ../logs/em_view_log.txt
54 fi
55
56 #differentiating cluster name
57 cluster_name="cluster1"
58
59 #//IP002_SQA_10_180_4_64_base_domain/base_domain/soa_server1/default/
60 #key components file name different for each server
61
62 key_components_file_name=../temp_files/wlsoutput_${server_category}.properties
63 key_comp=${domain_name}/base_domain/${server_category}_server1/default/com.ofss.fc.workflow.process.CreateDepositAccount [1.0]:oracle_soa_composite"
64 out $key_components_file_name| while read LINE
65 do
66     key_comp=${key_comp}/${domain_name}/base_domain/${server_category}_server1/default/$LINE:oracle_soa_composite"
67     echo $key_comp > ../temp_files/keys_${server_category}.txt
68 done
69
70 #key_components_file_name=../temp_files/wlsoutput_${server_category}.properties
71 #echo $key_components_file_name
72 #key_comp=${domain_name}/base_domain/${server_category}_server1/default/com.ofss.fc.appoval.instructionsetupapi_setupinstructions [1.0]:oracle_soa_composite"
73 #echo $key_comp
74 #cat $key_components_file_name| while read LINE
75 #do
76 #echo $LINE
77 #echo "ITS WORKING"
78 #key_comp=${key_comp}/${domain_name}/base_domain/${server_category}_server1/default/$LINE:oracle_soa_composite"
79 #echo $key_comp > ../temp_files/keys_${server_category}.txt
80 #done
81
82 if [[ $log_level == debug ]];
83 then
84     echo "SCRIPT INFO: End of generate_key_components_soa.sh">> ../logs/em_view_log.txt
85     echo "INFO: Generation of key components of service complete for: " $3 >> ../logs/em_view_log.txt
86 fi
87

```

## 11.3.2 Execute Scripts

Following is the procedure to execute scripts:

1. Log in to the EM console.
2. Export the PATH to include OMS bin folder.

```
export PATH=$PATH:"Path to OEM12c"/Oms12c/oms/bin
```

For example:

```
export PATH=$PATH:/scratch/app/Oem12c/Oms12c/oms/bin
```

3. Export the EMCLI command path.

```
export EMCLI= $EMCLI:"Path to OEM12c"/Oms12C/oms/bin/emcli
```

For example:

```
export PATH=$PATH:/scratch/app/Oem12C/Oms12C/oms/bin/emcli
```

4. Run the em\_view.sh script with the parameters as follows:

Location of the script(s) obp\_em\_view\_script/scripts/

Execute the following:

```
./em_view.sh -opt <env_name> <host_ip> <ui_ip> <soa_ip> <oid_address> <em_ui_username> <em_ui_password> <BIP_server_ip> <ATM_port> <documaker_server_name> <IPM_server_ip>
```

Since, BIP, ATM, Documaker, and IPM servers need not be present for all the environments, mention 'no' for the servers not present in that environment.

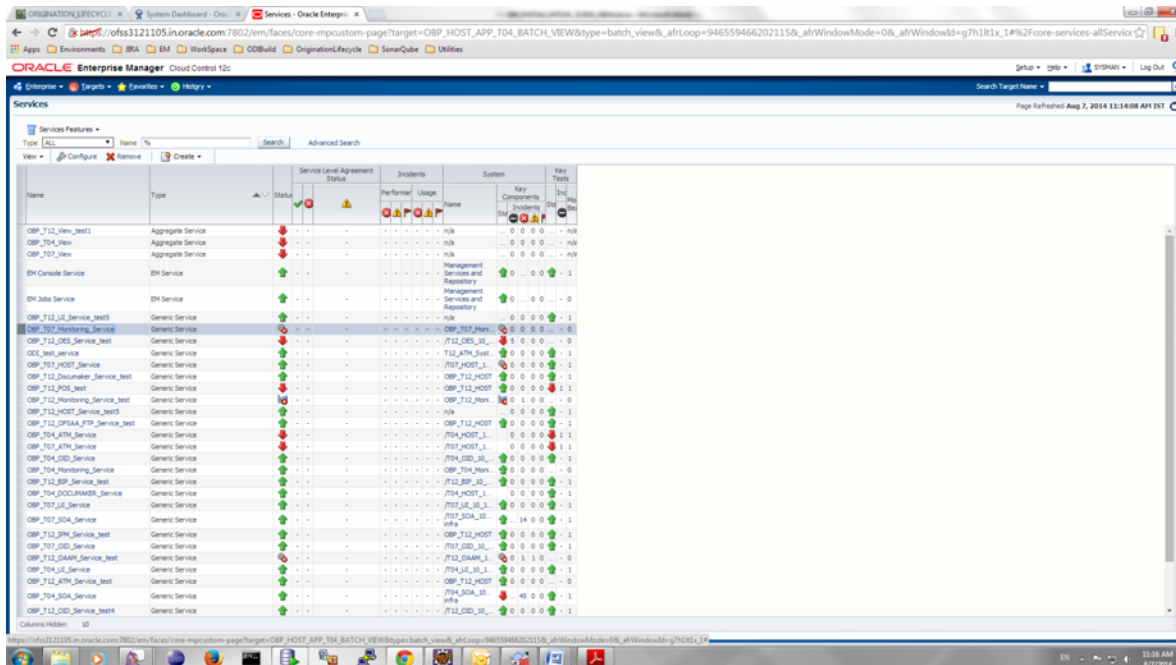
```
./em_view.sh -v "T04" "10.180.6.36" "10.180.33.49" "10.180.84.92" "10.180.6.100" "sysman" "welcome12c" "10.180.33.39" "9998" "slc01osa.us.oracle.com" "ofss3131443.in.oracle.com"
```

If Documaker and IPM server do not exist for an environment named T04:

```
./em_view.sh -v "T04" "10.180.6.36" "10.180.33.49" "10.180.84.92" "10.180.6.100" "sysman" "welcome12c" "10.180.33.39" "9998" "no" "no"
```

The services after creation looks as shown in [Figure 11-15](#).

Figure 11-15 Created Services



### 11.3.3 Configure Systems Manually

You can manually configure the systems to include or exclude in a particular service.

Example for a service:

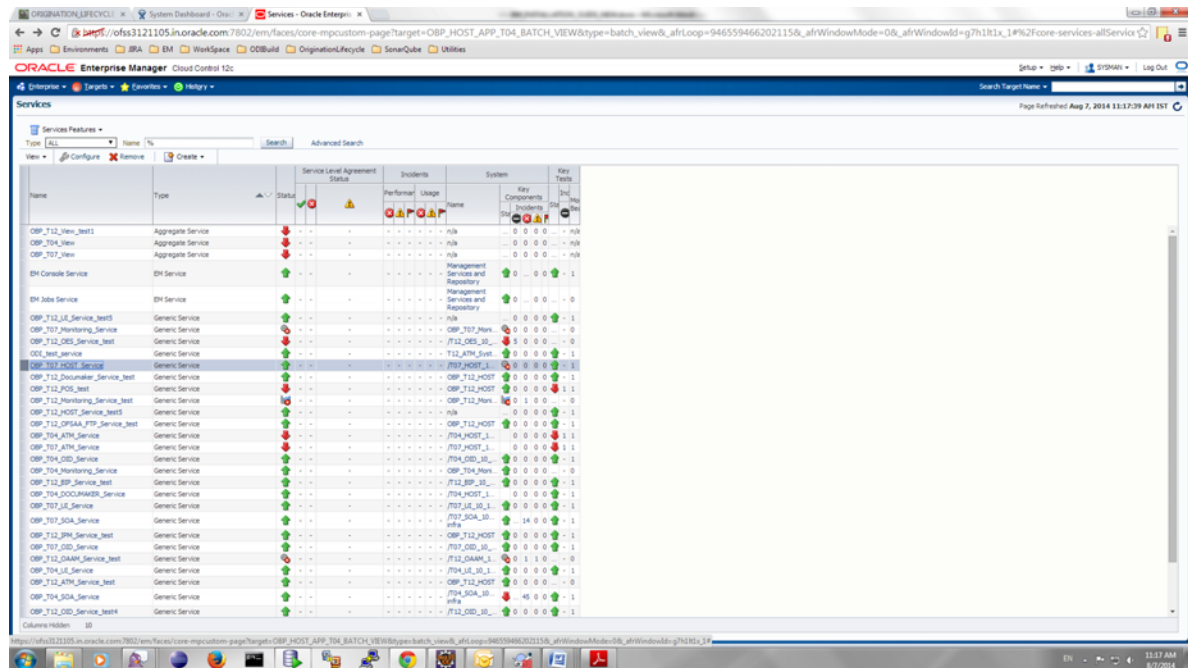


OBP\_T07\_HOST\_Service

To configure the systems manually, perform the following steps:

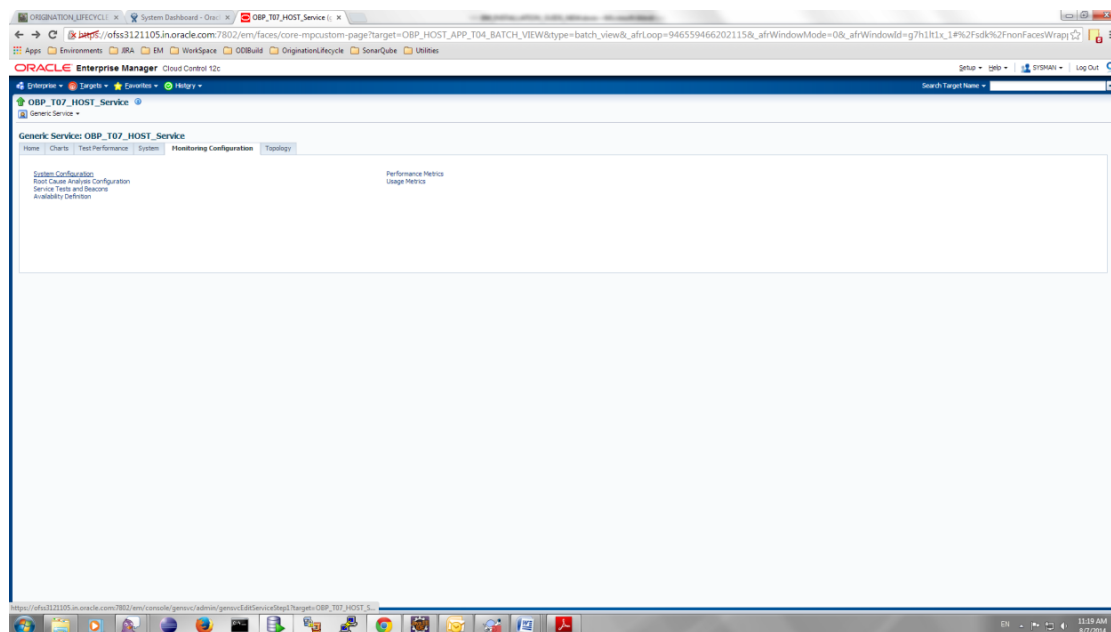
1. Select the service to configure.

**Figure 11-16 Manual Configuration - Select Service**



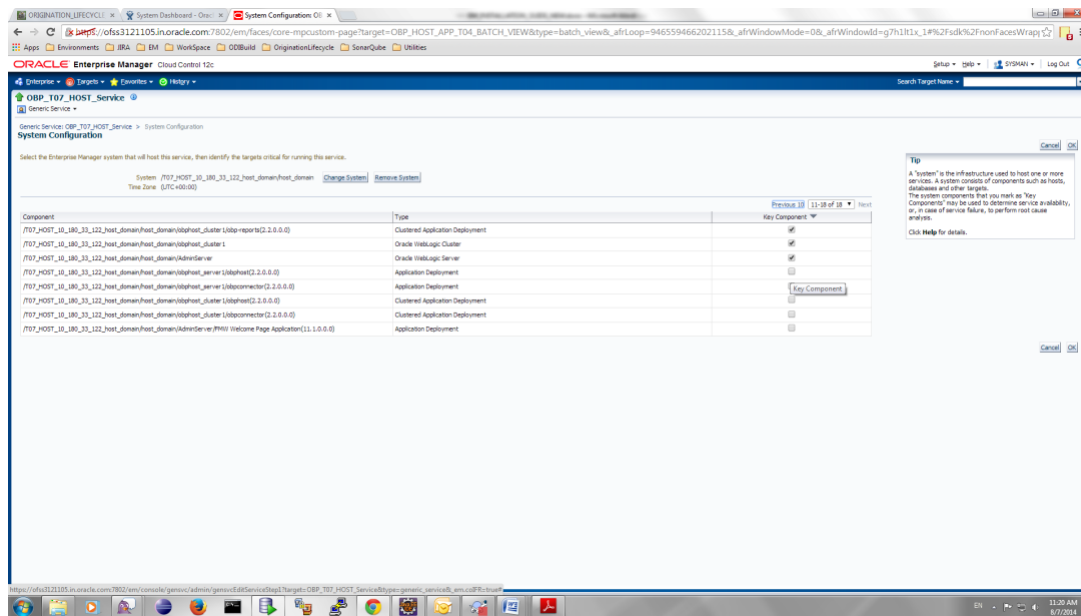
2. Navigate to Monitoring Configuration -> System Configuration.

**Figure 11-17 Manual Configuration - Navigate to System Configuration**



3. Check or uncheck the systems for inclusion or exclusion in the service.

Figure 11–18 Manual Configuration - Inclusion or Exclusion



4. Click OK.
5. Click Yes on confirmation.

---

**Note:** You can perform similar steps to configure the systems for SOA, UI, and OID servers.

---

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---

## Post Installation Verification

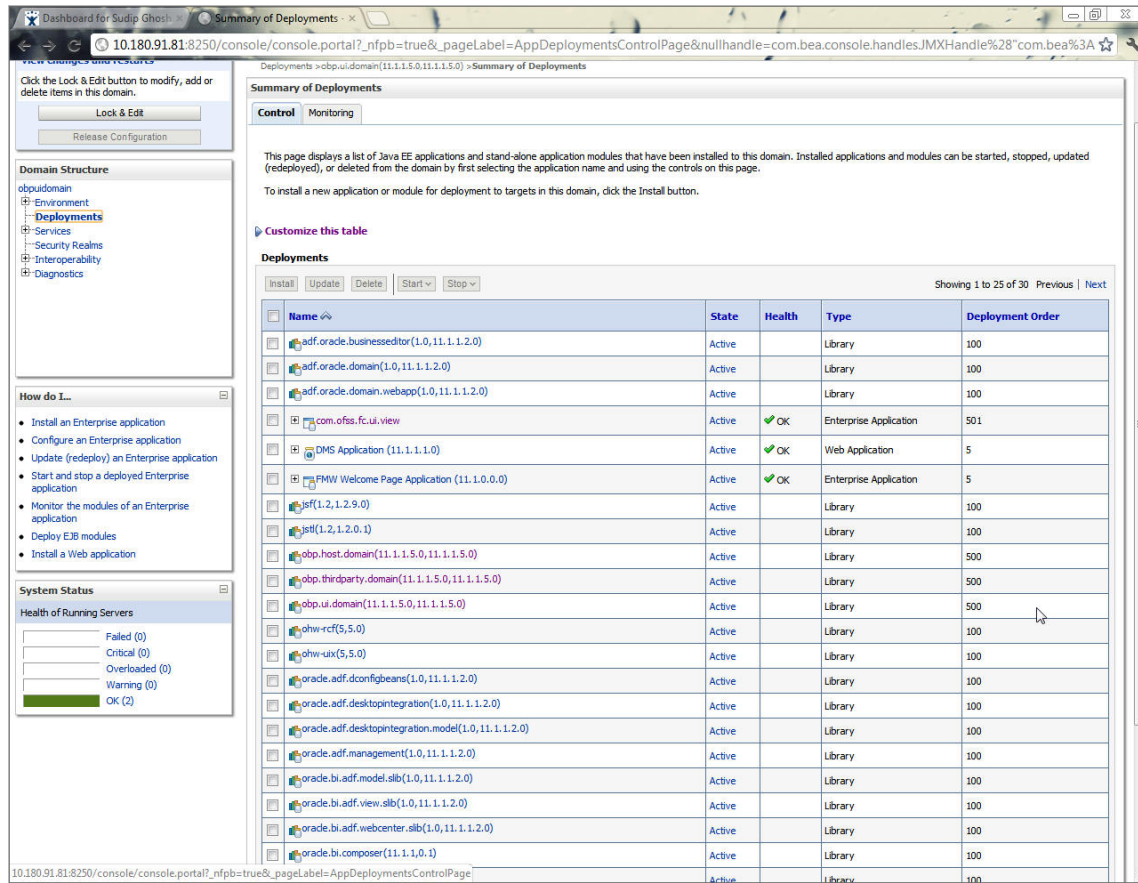
This chapter lists the steps required to verify the Oracle Banking Platform solution installation.

### 12.1 UI Domain Verification

To verify the UI domain installation:

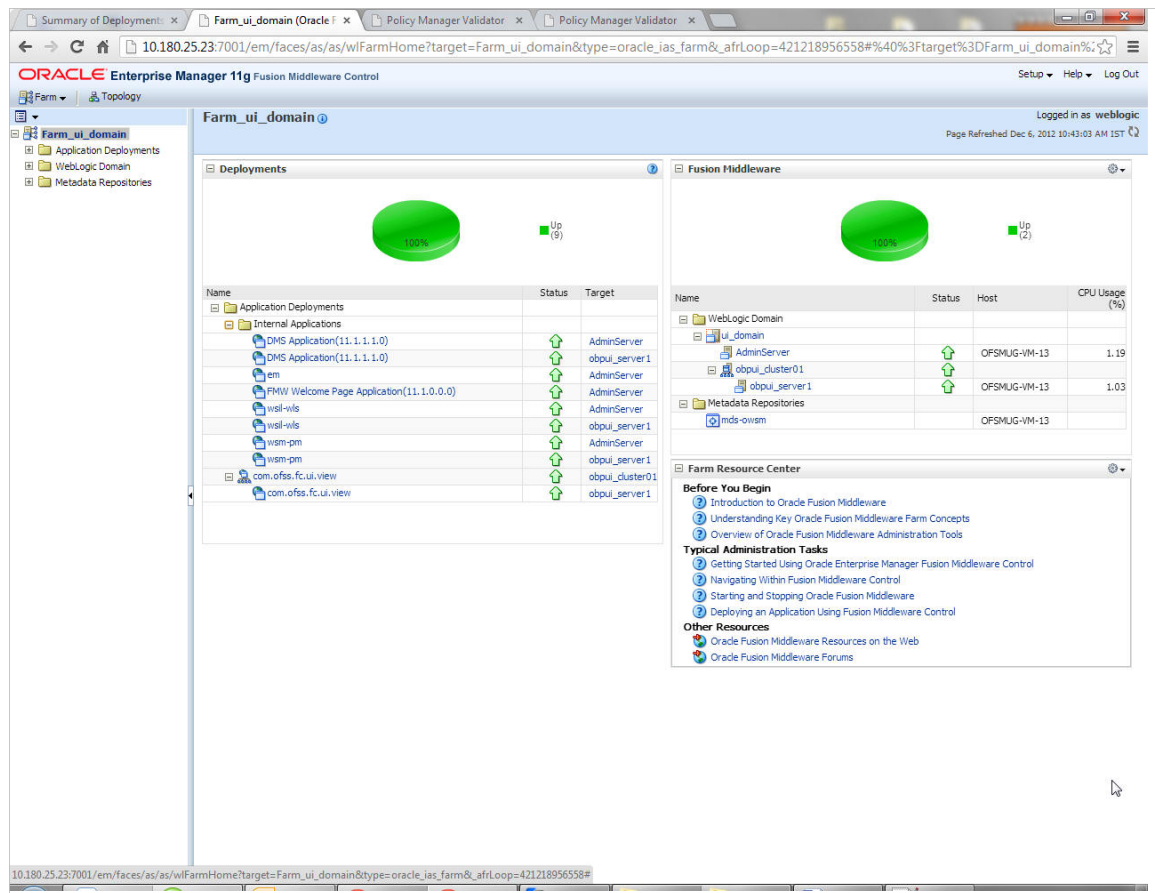
1. Start the UI domain Admin and Managed servers.
2. In the WebLogic console (<UI\_IP>:<UI\_ADMIN\_PORT>/console), navigate to the **Summary of Deployments** page.
3. Verify that the **Status** of the following Oracle Banking Platform libraries and applications is *Active*.
  - obp.ui.domain
  - obp.host.domain
  - obp.thirdparty.domain
  - obp.fusion.internal
  - com.ofss.ui.view
  - obpuiconnector
  - obpuidms

Figure 12–1 UI WebLogic Console



4. In EM console (<UI\_IP>:<UI\_ADMIN\_PORT>/em), check the status of:
  - Cluster
  - Managed Servers
  - Applications

Figure 12–2 UI EM Console Status Check



- In (<UI\_IP>:<UI\_ADMIN\_PORT>/wsm-pm/validator) and (<UI\_IP>:<UI\_MANAGED\_PORT>/wsm-pm/validator) screens, all policies must appear.

**Figure 12-3 UI Admin wsm-pm Validator**

Policy Manager Status: Operational

**Policies (88)**

Name	Latest Version	Description
oracle/binding_authorization_denyall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy denies all users with any roles. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SOAP-based endpoint.
oracle/binding_authorization_permitall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy permits all users with any roles. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SOAP-based endpoint.
oracle/binding_permission_authorization_policy	1	This policy is a special case of simple Permission based authorization policy based upon the authenticated Subject. This policy checks if the subject has permission to invoke any operation on a webservice. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SOAP-based endpoint.
oracle/component_authorization_denyall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy denies all users with any roles. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SCA component.
oracle/component_authorization_permitall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy checks if the subject has permission to invoke a given action on a resource. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SCA component.
oracle/component_permission_authorization_policy	1	This policy is a special case of simple permission based authorization policy based upon the authenticated Subject. This policy checks if the subject has permission to invoke operation on a webservice. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SCA component.
oracle/log_policy	1	This policy causes the request, response, and fault messages to be sent to a message log.
oracle/no_addressing_policy	1	This policy facilitates the disabling of a globally attached WS Addressing policy.
oracle/no_authentication_client_policy	1	This policy facilitates the disabling of a globally attached authentication policy. This will include disabling that whole global policy containing any other assertions in addition to the authentication assertion.
oracle/no_authentication_service_policy	1	This policy facilitates the disabling of a globally attached authentication policy. This will include disabling that whole global policy containing any other assertions in addition to the authentication assertion.
oracle/no_authorization_component_policy	1	This policy facilitates the disabling of a globally attached authorization policy. This will include disabling that whole global policy containing any other assertions in addition to the authorization assertion.
oracle/no_authorization_service_policy	1	This policy facilitates the disabling of a globally attached authorization policy. This will include disabling that whole global policy containing any other assertions in addition to the authorization assertion.
oracle/no_messageprotection_client_policy	1	This policy facilitates the disabling of a globally attached message protection policy. This will include disabling that whole global policy containing any other assertions in addition to the messageprotection assertion.

Figure 12–4 UI Managed wsm-pm Validator

Policy Manager Status: Operational

**Policies (88)**

Name	Latest Version	Description
oracle/binding_authorization_denyall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy denies all users with any roles. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SOAP-based endpoint.
oracle/binding_authorization_permitall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy permits all users with any roles. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SOAP-based endpoint.
oracle/binding_permission_authorization_policy	1	This policy is a special case of simple Permission based authorization policy based upon the authenticated Subject. This policy checks if the subject has permission to invoke any operation on a webservice. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SOAP-based endpoint.
oracle/component_authorization_denyall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy denies all users with any roles. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SCA component.
oracle/component_authorization_permitall_policy	1	This policy is a special case of simple role based authorization policy based upon the authenticated Subject. This policy checks if the subject has permission to invoke a given action on a resource. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SCA component.
oracle/component_permission_authorization_policy	1	This policy is a special case of simple permission based authorization policy based upon the authenticated Subject. This policy checks if the subject has permission to invoke operation on a webservice. This policy should follow an authentication policy where the Subject is established. This policy can be attached to any SCA component.
oracle/log_policy	1	This policy causes the request, response, and fault messages to be sent to a message log.
oracle/no_addressing_policy	1	This policy facilitates the disabling of a globally attached WS Addressing policy.
oracle/no_authentication_client_policy	1	This policy facilitates the disabling of a globally attached authentication policy. This will include disabling that whole global policy containing any other assertions in addition to the authentication assertion.
oracle/no_authentication_service_policy	1	This policy facilitates the disabling of a globally attached authentication policy. This will include disabling that whole global policy containing any other assertions in addition to the authentication assertion.
oracle/no_authorization_component_policy	1	This policy facilitates the disabling of a globally attached authorization policy. This will include disabling that whole global policy containing any other assertions in addition to the authorization assertion.
oracle/no_authorization_service_policy	1	This policy facilitates the disabling of a globally attached authorization policy. This will include disabling that whole global policy containing any other assertions in addition to the authorization assertion.
oracle/no_messageprotection_client_policy	1	This policy facilitates the disabling of a globally attached message protection policy. This will include disabling that whole global policy containing any other assertions in addition to the messageprotection assertion.

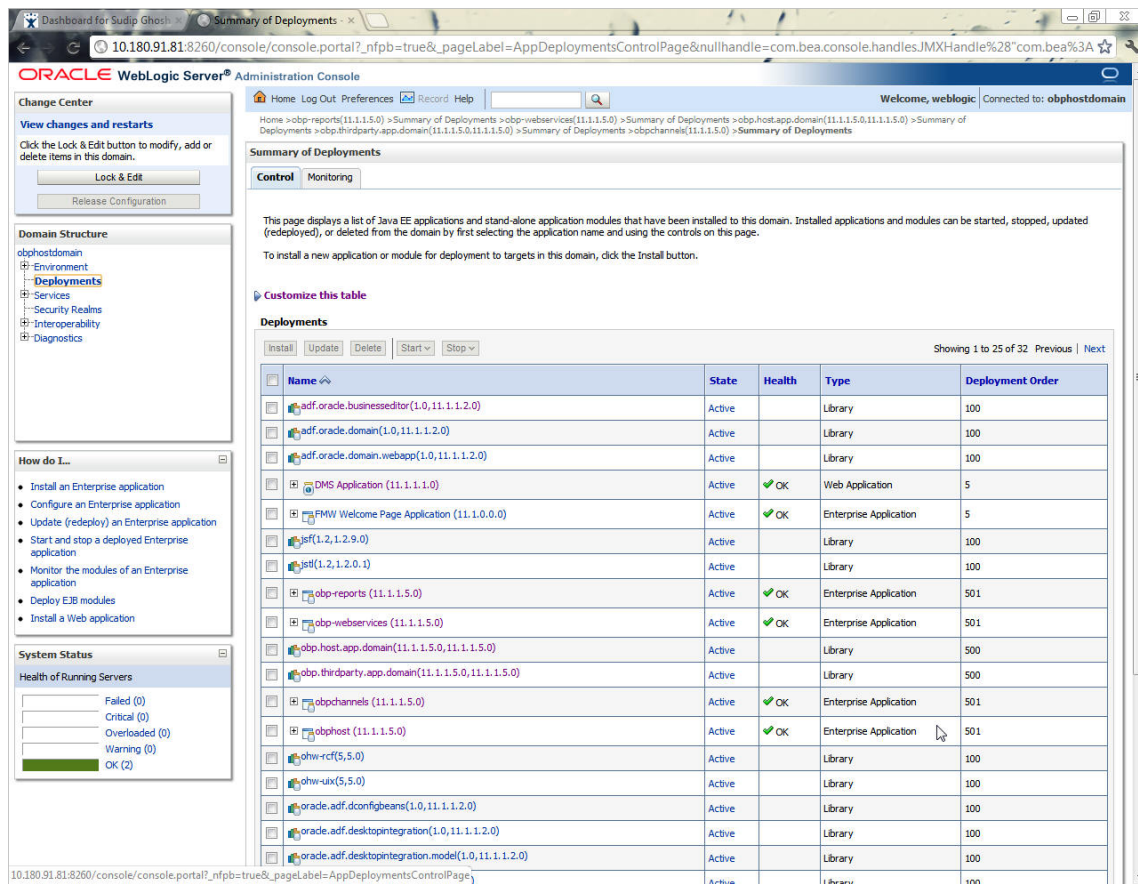
## 12.2 Host Domain Verification

To verify the Host domain installation:

1. Start the Host domain Admin and Managed servers.
2. Navigate to the **Summary of Deployments** page.
3. Verify that the **Status** of the following Oracle Banking Platform libraries and applications is *Active*.
  - obp.host.app.domain
  - obp.thirdparty.app.domain
  - obp-reports
  - obp-webservices
  - obpchannels
  - obphost
  - obphostconnector
  - obphostdms
  - obpmessaging



Figure 12–5 Host WebLogic Console



Additionally, the installer can verify the following:

- **JMS Resources and Security Credentials**  
Verify the creation of JMS resources Using admin console.  
Verify security credential mappings for resource adapter under obphost.
- **OID Integration**  
Verify that the users and groups are created under **Security --> Myrealms --> Users And Groups**. This is one of the indicators of successful OID integration.
- **SMS Policy Seeding**  
Verify from logs under \${HOST\_TARGET}/PolicyStoreSetup/logs to ensure policy seeding was complete.
- EM and OWSM should also be verified in host as in UI.

## 12.3 SOA Domain Verification

To verify the SOA domain installation:

1. Start the SOA domain Admin and Managed servers (SOA and human task).
2. Navigate to the **Summary of Deployments** page.



3. Verify that the **Status** of the following Oracle Banking Platform libraries and human task files with .ear extension is *Active*.
  - obp.ui.domain
  - obp.host.domain
  - obp.thirdparty.domain
4. Also verify that the standard SOA application soa-infra is in *Active* state.

**Figure 12–6 SOA WebLogic Console**

The screenshot shows the SOA WebLogic Console interface. On the left, there are panels for 'How do I...' and 'System Status'. The main area displays a table of deployed applications. The table columns include Application Name, Status, Health, Type, and Size. The status of the applications is as follows:

Application Name	Status	Health	Type	Size
adf.oracle.domain.webapp(1.0,11.1.1.2.0)	Active		Library	100
AqAdapter	New		Resource Adapter	324
b2bui	New		Enterprise Application	313
BPMComposer	New		Enterprise Application	384
com.ofss.fc.workflow.ui.brop	Active	OK	Enterprise Application	100
com.ofss.fc.workflow.ui.common.approval	Active	OK	Enterprise Application	100
com.ofss.fc.workflow.ui.dds	Active	OK	Enterprise Application	100
com.ofss.fc.workflow.ui.loans	Active	OK	Enterprise Application	100
com.ofss.fc.workflow.ui.Origination	Active	OK	Enterprise Application	100
com.ofss.fc.workflow.ui.pmu	Active	OK	Enterprise Application	100
composer	New		Enterprise Application	315
DBAdapter	New		Resource Adapter	322
DefaultToDoTaskFlow	New		Enterprise Application	314
DMS Application (11.1.1.1.0)	Active	OK	Web Application	5
em	Active	OK	Enterprise Application	400
email	Active		Library	100
emas	Active		Library	100
encore	Active		Library	100
FileAdapter	New		Resource Adapter	321
FMW Welcome Page Application (11.1.0.0.0)	Active	OK	Enterprise Application	5
FtpAdapter	New		Resource Adapter	325
JmsAdapter	New		Resource Adapter	323
jsf(1.2,1.2.9.0)	Active		Library	100
jsf(1.2,1.2.0.1)	Active		Library	100
MQSeriesAdapter	New		Resource Adapter	327
obp.host.domain(11.1.1.5.0,11.1.1.5.0)	Active		Library	100
obp.thirdparty.domain(11.1.1.5.0,11.1.1.5.0)	Active		Library	100
obp.ui.domain(11.1.1.5.0,11.1.1.5.0)	Active		Library	100
ohw-rcf(5.0.0)	Active		Library	100

## 12.4 BAM Installation Verification

To verify the BAM installation:

1. Bring up the Admin and Managed servers (bam\_server1).
2. Go to the BAM Login Page Link: [http://<BAM\\_IP>:9003/OracleBAM](http://<BAM_IP>:9003/OracleBAM)
3. After logging in, on to the BAM Start Page, click the Architect option and check the Data Objects.

**Figure 12-7** Click Architect option

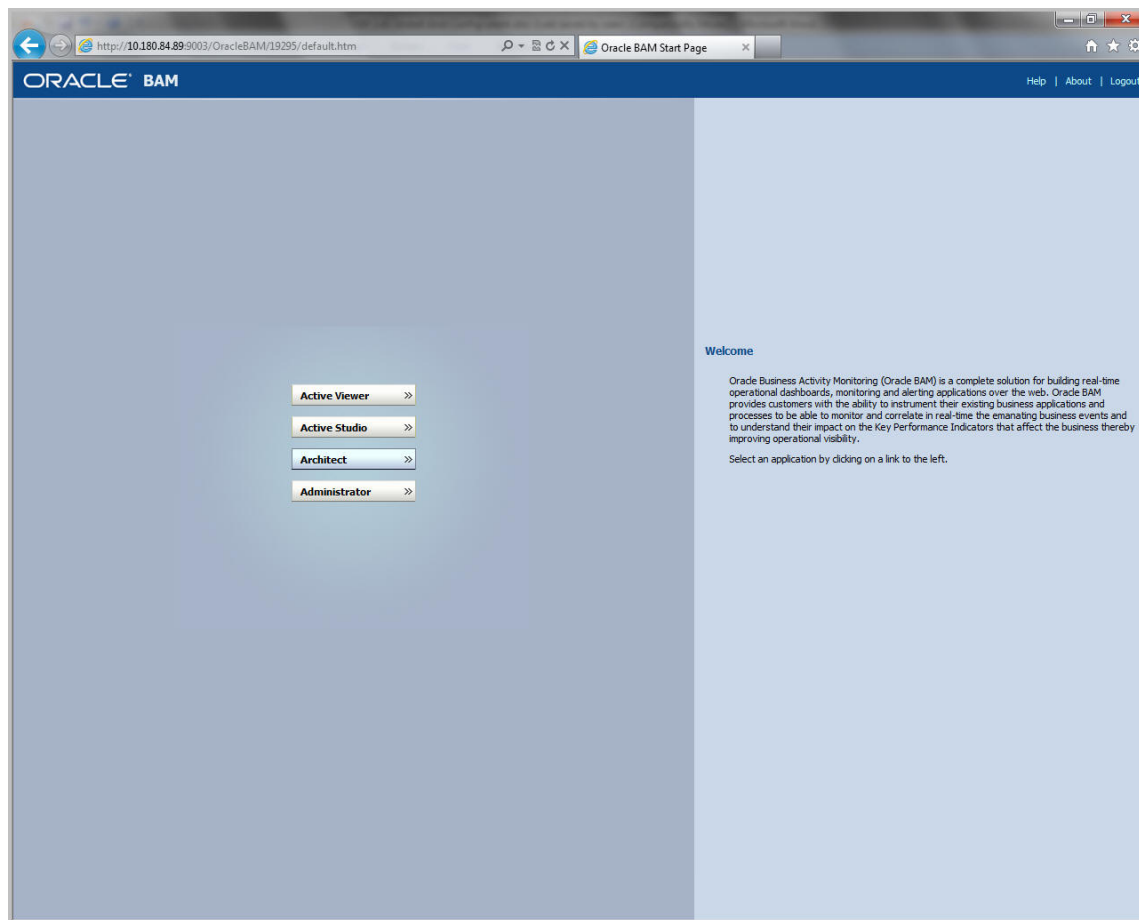
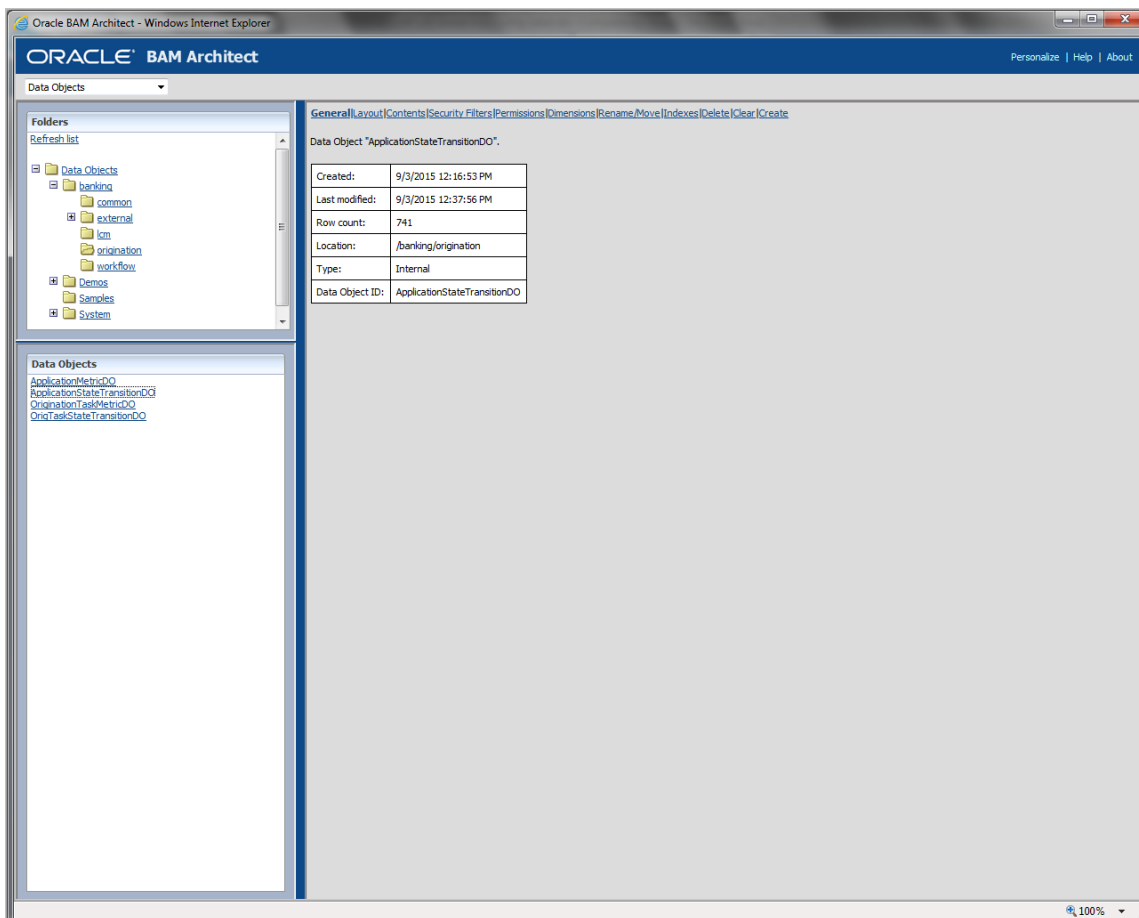


Figure 12–8 Check Data Objects





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## Errors and Remedies

This chapter provides information on troubleshooting to help diagnose and remedy some of the problems encountered during installation of the Oracle Banking Platform.

### 13.1 Oracle Banking Platform Domain Installation

In general, any environmental condition such as a network error that may lead to a halt in the installation is evident to you on the console itself. You can additionally inspect WLST logs created in logs directory under middleware for any anomalies.

### 13.2 Oracle Banking Platform Security Policy Seeding

For monitoring Oracle Banking Platform application security policy seeding, you can check the logs generated in `$UI_TARGET/PolicyStoreSetup/logs`.

### 13.3 Oracle Banking Platform Domain Post Installation

This section lists various log files that assist in troubleshooting domain post installation as follows:

#### **obp-\* logs**

During post installation in order to monitor errors, if any, you can check the obp-\* logs created in the Oracle Banking Platform WebLogic domain. These logs contain adequate tracing information required to understand the current execution point of the script. This facilitates to determine the various configurations that were executed and those that need due action.

#### **WLST Logs**

You can inspect WLST logs created in logs directory under middleware, such as the logs at the path `'/oracle/app/product/fmw/logs'`, for errors, if any, in either domain creation or post installation.

#### **WebLogic Admin Server Logs and stderr file**

The script does domain level configurations that require several automated reboots of admin server, which can be monitored by checking the WebLogic admin server logs and stderr file created under `obp-domain-dir/servers/AdminServer/stderr.log`.

For instance, consider a scenario of Oracle Banking Platform Host installation in which once the post install script for Oracle Banking Platform host has secured itself against a LDAP (OID/OVD) it proceeds to restart the Oracle Banking Platform Host domain admin server to produce these changes. During this if due to a momentary network

failure the host machine is unable to make a connection to LDAP then the admin server would fail to start. This will result in the post install script to abruptly abort throwing a subsequent script error (again which might not be conclusive enough to point out the root cause). The 'obp-\*' logs created in the Oracle Banking Platform Host domain would indicate an incomplete attempt by the post install script to start the admin server.

You can check the admin server logs (to find why the admin server could not start) which will ultimately yield out the actual reasons (in this case the reason being the host machine was unable to connect to LDAP).

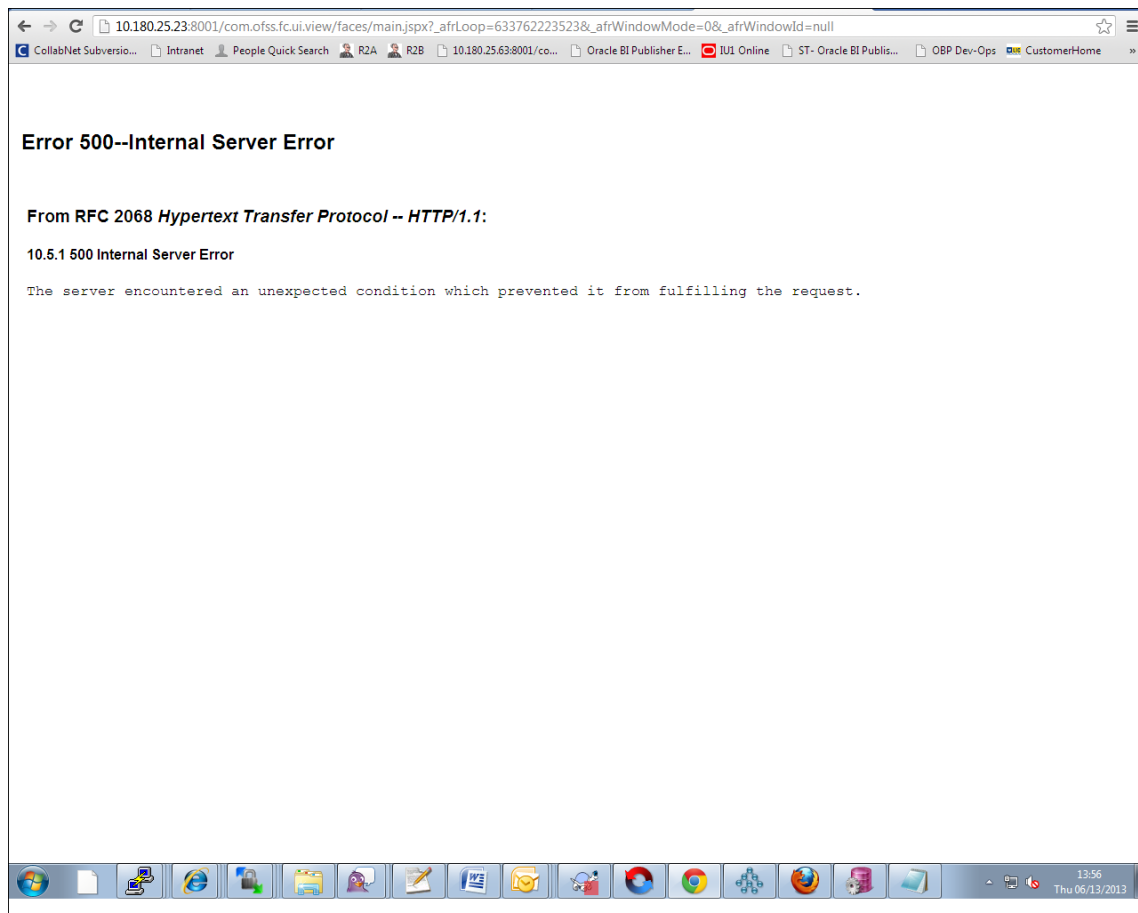
### **stderr log, WebLogic Domain Managed Server logs, OFSS logs**

Once the post install script is completed successfully, you can start the domain servers and enter a dummy transaction to check the system correctness. If you face an error you can inspect the stderr log, the WebLogic domain managed server logs as well as the ofss logs under the middleware directory/obpinstall/logs.

## 13.4 Error on First Log in

In the first log in after installation, the following page may appear:

**Figure 13–1 Error on First Log In**



In this case, remove the part of the url after '/main.jspx', and then hit the rest of the url (Example: <https://10.180.25.23:8001/com.ofss.fc.ui.view/faces/main.jspx>) again.

## 13.5 Log in Issues

If there is a problem during logging in the main page, you can check whether the home branch and business unit of the user in OID are the same with the Host DB table. Use the following query to verify it in database:

```
select * from flx_cs_branches_b;  
select * from flx_me_business_unit_b;
```

If there is mismatch between the database and OID, make change in OID to match with the database.

## 13.6 SOA Setup in Cluster

This section explains the error that can be encountered in SOA setup in Cluster, and its resolution.

### 13.6.1 "COMPONENTTYPE": invalid identifier error

Due to one of the one-off patches for SOA applied during the OBP installation, in SOA cluster environment, the following error might be seen in SOA server logs.


```
Internal Exception: java.sql.SQLException: ORA-00904:  
"COMPONENTTYPE": invalid identifier
```

Though this is not a fatal kind of exception, it can be resolved by adding one more column **componenttype** of size **10** with **char** type in **soainfra** schema for table **cluster\_master**.

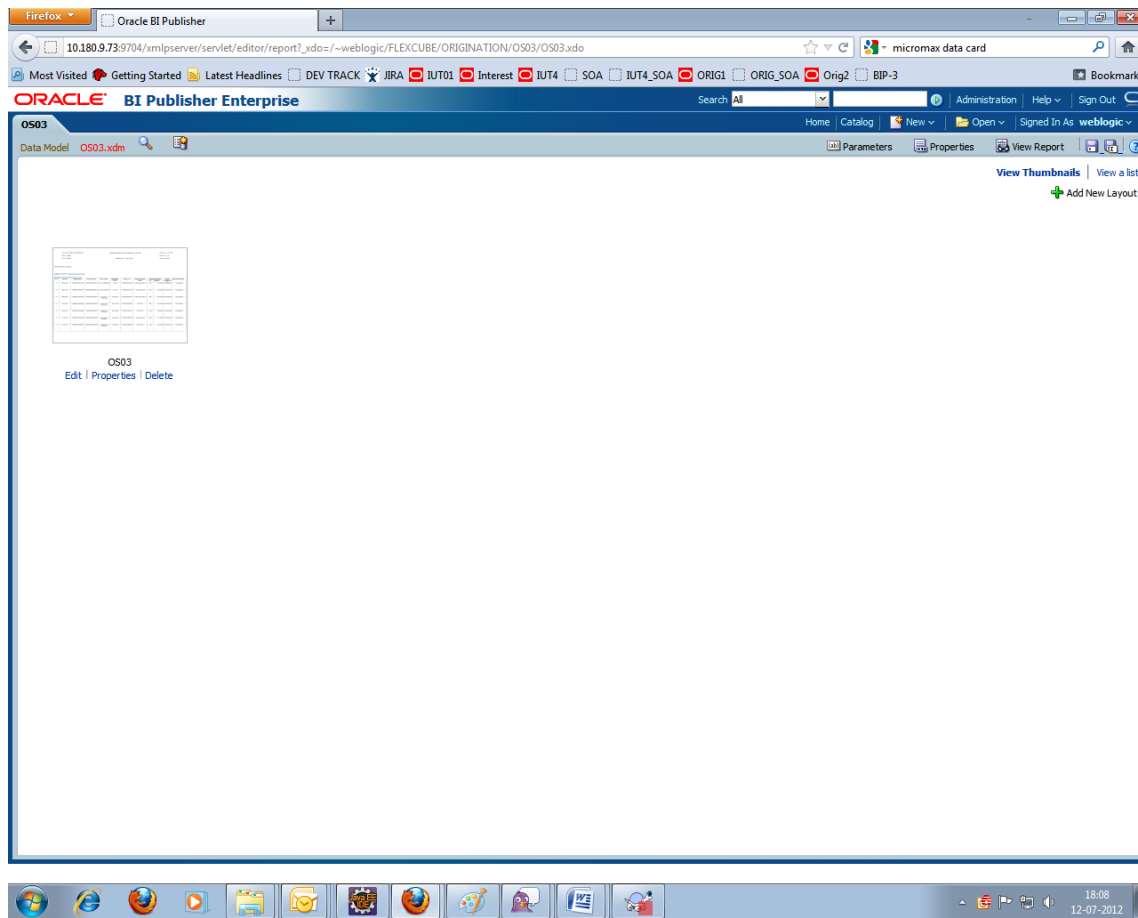
For example on Oracle database user needs to run the following command on soainfra schema:

```
alter table cluster_master add (componenttype varchar2(10));
```

## 13.7 BIP Report Data Model Linkage Problem after Host Post Installation Step

After editing a report, click the magnifying glass icon  to select the data model associated with this report. (Here **OS03.xdm** in red indicates that the data model is not properly connected with the report or that the report is not able to find the model at the location that it is referring)

**Figure 13–2** *Selecting the Data model*




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**Note:** The above step is to be carried out in case the data model of a report has not correctly linked with a report, after reports are deployed in BIP server in Host Post Installation step.

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## 13.8 Oracle BAM Command Utility Issue

This is not an issue. This occurs if Oracle BAM is installed for the second time on the same machine.

The following message appears:

Oracle BAM Command Utility [Build 19427, BAM Repository Version 2025] Copyright © 2002, 2015.

Oracle and/or its affiliates. All rights reserved.

java.lang.SecurityException: User: weblogic, failed to be authenticated.

[ErrorSource="javax.security.auth.login.LoginException: java.lang.SecurityException: User: weblogic, failed to be authenticated."]

The solution or pre-requisite before a second installation is to alter the following file:

<MIDDLEWARE\_HOME>/Oracle\_SOA1/bam/config/BAMCommandConfig.xml



In this file, remove the following tags:

```
<ICommand_Default_User_Name>weblogic</ICommand_Default_User_Name>
```

```
<ICommand_Default_
```

```
Password>HkFBFDf0t65Kuw9/I70cnwXPYIXKz/OElh10ID+qjdw=</ICommand_Default_
```

```
Password>
```



---

---

## Uninstalling the Application

This chapter explains the process of uninstalling the Oracle Banking Platform.

### 14.1 Manual Uninstall

Currently an installed Oracle Banking Platform WebLogic domain can be uninstalled manually by removing following directories:

- Manually delete WebLogic domain (Middleware\_Home/user\_projects/domains) created from obpinstall template.
- Clean up middleware directory for any files or folders containing obp in their names (simply run `rm -rf *obp*` under middleware directory).
- For uninstalling any of the Oracle Banking Platform related database schemas run the RCU utility and choose the **Drop** option.

