Oracle® Banking Platform

Installation Guide - Silent Installation

Release 2.3.1.0.0

E92632-01

December 2017

ORACLE

Oracle Banking Platform Installation Guide - Silent Installation, Release 2.3.1.0.0

E92632-01

Contents

List of Figures

List of Tables

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

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.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info or visit http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs if you are hearing impaired.

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 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 7, "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 8, "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 9, "OBP and OCH Integration"

This chapter explains the steps required for integration of Oracle Banking Platform with OCH.

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.
- 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
boldface	Boldface type indicates graphical user interface elements associated with an action, or terms defined in text or the glossary.
italic	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

Acronym	Meaning
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
ORMB	Oracle Revenue Management and Billing

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.

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 offerings. 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.

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.

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.

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	12	100	OEL 5.7 OEL 6.3+	Oracle Banking Platform Oracle Database
2	4	10	40	OEL 5.7 OEL 6.3+	Oracle Banking Platform ADF UI Presentation Server
3	4	10	40	OEL 5.7 OEL 6.3+	Oracle Banking Platform Services Middleware Host Server
4	2	8	40	As per OID certification matrix.	Oracle OID Server
5	2	8	40	As per OID certification matrix.	Oracle IPM Server
6	2	10	40	As per OID certification matrix.	Oracle BIP Server
7	4	16	60	As per OID certification matrix.	Oracle SOA 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 Mandatory Software

Software	Version
Oracle JDeveloper	11.1.1.7.0
Oracle ADF	11.1.1.7.0
Oracle Imaging and Process Management / Webcenter Content	11.1.1.7.0
Oracle WebLogic Server	10.3.6.0
Oracle SOA Suite	11.1.1.7.0
Oracle WebServices Manager	11.1.1.7.0
Oracle Data Integrator	11.1.1.7.0
Oracle Business Intelligence Publisher	11.1.1.7.0
Oracle Enterprise Manager	12c
Oracle Repository Creation Utility	11.1.1.7.0 or 11.1.1.6.0 (As applicable)
Oracle Universal Installer	11.1.1.5.0
Oracle OPSS Client	11.1.1.7.0
Oracle Entitlement Server	11.1.2.2.0
Oracle Adaptive Access Manager	11.1.2.2.0
Oracle Internet Directory	11.1.1.7.0
Oracle Identity Manager	11.1.2.2.0
Oracle Access Manager	11.1.2.2.0
Oracle Revenue Management & Billing	2.2.5.1
Oracle Jrockit JDK	jrockit-jdk1.6.0_51
Database	11.2.0.3.3

Table 2–3 Notes

Serial Number	Description
1	OBP release has been certified with OEL version 5.7 and 6.3 during the release cycle. We do not see any issues with running the product on OEL version 5.6. However, 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 install. 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	ODI_OUTBOUND_USERNAME and ODI_OUTBOUND_PASSWORD The OBP installer will not abort the installation if this component is not present. It can be installed later. However, it is strongly recommended to use the actual property values instead of default property values during the installation. 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.
4	The OBP installer will not abort the installation if this component is not present. It can be installed later. 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.
5	OIM_OUTBOUND_USERNAME and OIM_OUTBOUND_PASSWORD The OBP installer will not abort the installation if this component is not present. It can be installed later. It is recommended to use the actual property values instead of default property values during the install. 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.
6	Oracle Access Manager can be installed later.
7	The patch needs to be downloaded from support.oracle.com and applied on the WebLogic 10.3.6 installation. Details are as under: Bug id 16485257 NAMESPACE PREFIX ISSUE FOR JAXWS WEBSERVICE HOSTED ON WEBLOGIC 10.3.6.0 A bug concerning the same was logged with Oracle WebLogic team. The bug has been fixed and a patch was released for the same under patch number 16485257.
8	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.

For machine nodes on which Oracle Banking Platform SOA Media pack installation is planned to be carried out a Linux Operating System, there is a parameter that controls maximum number of files which can be opened simultaneously by a process. This parameter needs to be checked for prior installation. For more information, see the documentation on Resolving Message Failure Caused by Too Many Open Files at http://docs.oracle.com/cd/E21764_01/integration.1111/e10226/appx_trouble.htm#BABCCJJE

SOA managed servers may need the default value raised at operating system level to run as it needs to load a large number of Oracle Banking Platform application binaries.

2.1.2.2 Optional

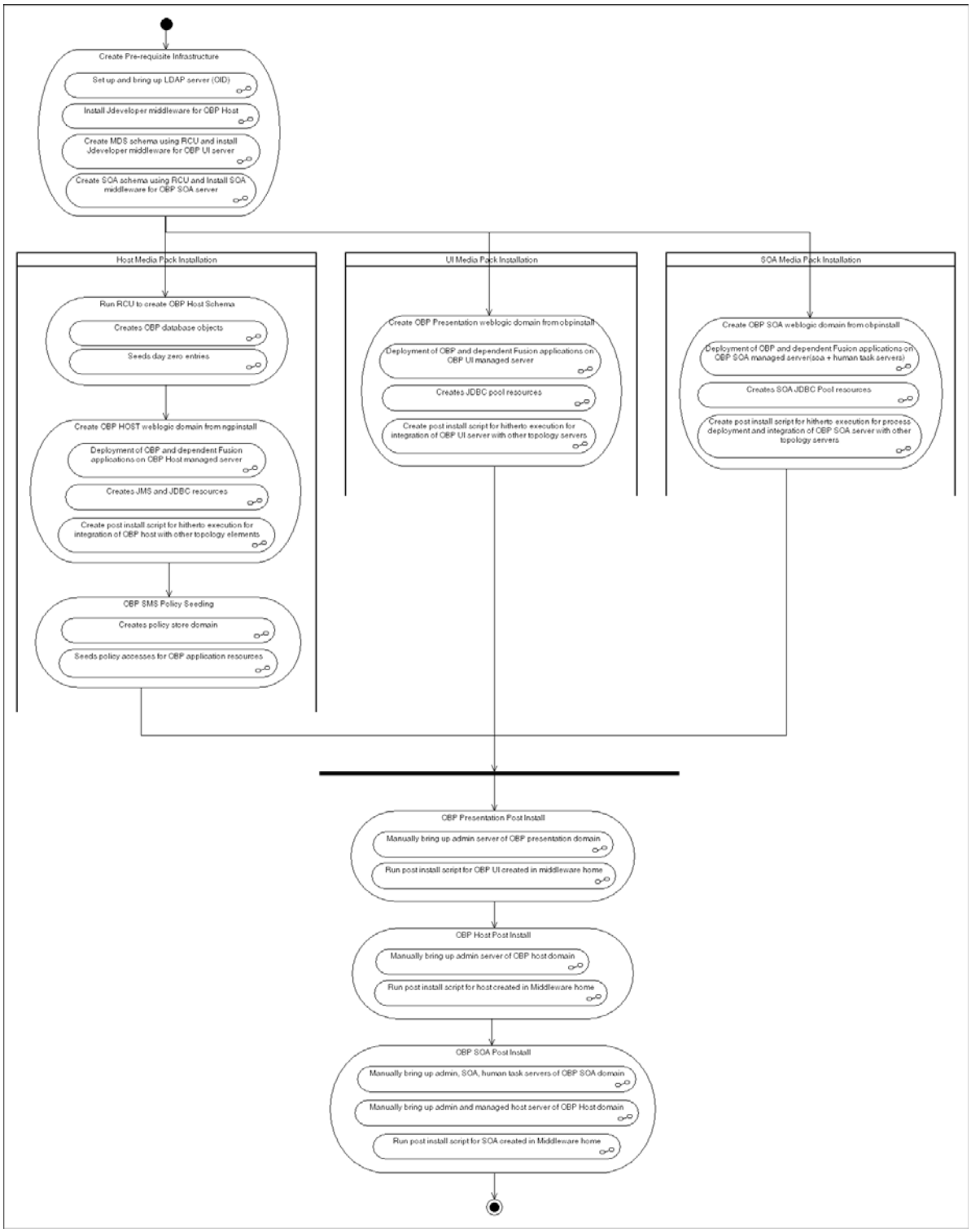
The following software is optional:

- Oracle VM server release 2.2.3

2.2 Installation Process Overview

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

Figure 2–1 Installation Overview



2.3 Installation Checklists

This section details a checklist of information which should be filled and kept handy to make the installation experience quick and easy. 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.	LDAP	
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	

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

Sr. No	Name	Description	Example Value	Value
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 1.6.0 or above. This is used to execute the OBP security policies seeding utility at the end of the installation.	/oracle/app/product/jdk1.6.0_29	
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	
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	

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

Sr. No	Name	Description	Example Value	Value
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	(Jrockit) -Xms512m -Xmx1024m -Xgc:gencon -XXnosystemgc	
40	HOST_ MANAGED_ JVM_ PARAMS	Host domain managed JVM startup parameters	-Xms2048m -Xmx2048m -Xgc:gencon -XXnosystemgc -Xns:1024m	
41	UI_ADMIN_ JVM_ PARAMS	UI domain admin JVM startup parameters	-Xms512m -Xmx1024m -Xgc:gencon -XXnosystemgc	

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

Sr. No	Name	Description	Example Value	Value
42	UI_ MANAGED_ JVM_ PARAMS	UI domain managed JVM startup parameters	-Xms2048m -Xmx2048m -Xgc:gencon -XXnosystemgc -Xns:1024m	
43	SOA_ ADMIN_ JVM_ PARAMS	SOA domain admin JVM startup parameters	-Xms512m -Xmx1024m -Xgc:gencon -XXnosystemgc	
44	SOA_ MANAGED_ JVM_ PARAMS	SOA domain managed SOA server's JVM startup parameters	-Xms2048m -Xmx2048m -Xgc:gencon -XXnosystemgc -Xns:1024m	
45	SOA_ HUMANTAS KSERVER_ JVM_ PARAMS	SOA domain human task server's JVM startup parameters	-Xms2048m -Xmx2048m -Xgc:gencon -XXnosystemgc -Xns:1024m	
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 1.6.0 or above. This is used to execute the OBP security policies seeding utility at the end of the installation.	/opt/jrockit	
49	SOA_JAVA_ HOME	Refers to the home directory of java installation of the SOA machine. The version of java installed should be 1.6.0 or above. This is used to execute the OBP security policies seeding utility at the end of the installation.		
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	

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

Sr. No	Name	Description	Example Value	Value
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/fmw/user_ projects/domains	
62	WEBLOGIC_ USERNAME	Username for WebLogic domain	WebLogic	
63	WEBLOGIC_ PASSWORD	Password for WebLogic domain	WebLogic1	
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	

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

Sr. No	Name	Description	Example Value	Value
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	
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)	

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

Sr. No	Name	Description	Example Value	Value
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_ INFRASTRU CTURE_ 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	HUMANTAS K_SERVER_ LISTEN_ ADDRESS	Listen address of human task server	10.180.25.113 (Always use IP, don't use localhost)	
88	HUMANTAS K_SERVER_ LISTEN_ PORT	Listen port of human task server	9001	
89	HUMANTAS K_SERVER_ SSL_LISTEN_ PORT	SSL listen port of human task server	9002	
90	KEYSTORE_ PASSWORD	Password for generating certificate	Welcome1	

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

Sr. No	Name	Description	Example Value	Value
91	UI_SSL_ PASSWORD	Password for configuring SSL in UI domain	Welcome1	
92	UCM_READ_ FROM_URL	Flag for getting UCM URL from properties file. 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. However, as a best practice, it is recommended that we configure values for UCP_IP and UCM_ PORT correctly from day 1.	true/false	
93	UCM_IP	IP of UCM UCM_IP the IP address of the UCM WebLogic managed server.	Ofss.ucm.com	
94	UCM_PORT	Port of UCM. UCM_PORT refers to the IntradocServerPort property from $DomainHome/ucm/cs/config/config.cfg By default, this value is 4444.	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	/oracle/app/product/oracle_jrockit_jdk1.6.0_31_R28.2.3	
102	OES_DB_IP	IP of the OES DB machine	10.180.25.200	
103	OES_DB_ PORT	Port of OES DB	1521	
104	OES_ SCHEMA_ USER	Username of OES DB schema	DEV3_MDS	

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

Sr. No	Name	Description	Example Value	Value
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_ ADRESS	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	

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

Sr. No	Name	Description	Example Value	Value
122	UI_ MANAGED_ SERVER_ LISTEN_ ADDRESS	Listen address of UI managed server	10.180.25.23	
123	UI_ MANAGED_ SERVER_ LISTEN_ PORT	Listen port of UI managed server	8001	
124	DOCUMAKE R_SERVER_IP	IP address of Documaker server	10.180.25.64	
125	DOCUMAKE R_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	

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

Sr. No	Name	Description	Example Value	Value
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	
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_ TRANSACTI ON_ 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	

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
UI and Host Linux user login details			
1.	UI / Presentation Linux server user id	This is the same as the INSTALL_AS captured in the checklist above.	
2.	UI / Presentation Linux server user password	Password for the user specified against INSTALL_AS.	

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

Sr. No.	Name	Description and Example	Value
3.	Host Linux server user id	This is the same as the INSTALL_AS captured in the checklist above	
4.	Host Linux server user password	Password for the user specified against INSTALL_AS.	
Database Details			
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	
7.	Oracle Banking Platform DB Service Name	OBPDB	
8.	Oracle Banking Platform DB sys password	**********	
Additional UI Install Checklist			
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.	
Additional Host Install Checklist			
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.	

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

Sr. No.	Name	Description and Example	Value
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	
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.	
Additional OBP IPM checklist for Section 9			
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 11.1.1.7 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

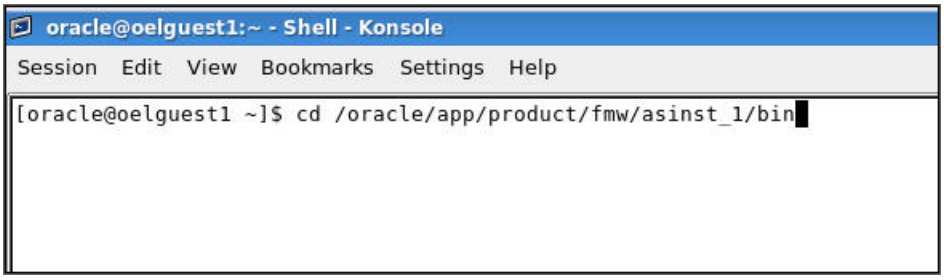
Log in to the Linux console with user id `oracle`, navigate to the 'bin' directory of the OID instance and start the OID processes using the commands as follows:

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

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

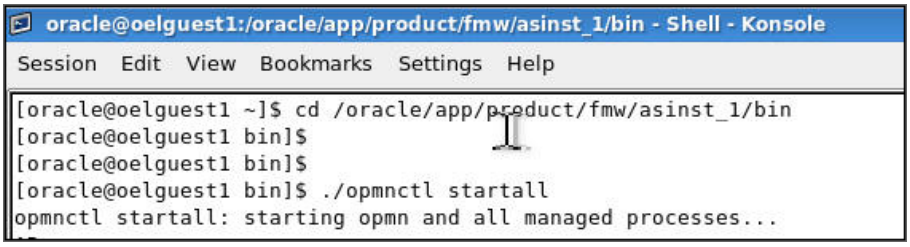
```
./opmnctl startall
```

Figure 2–2 Locate the OID Instance



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

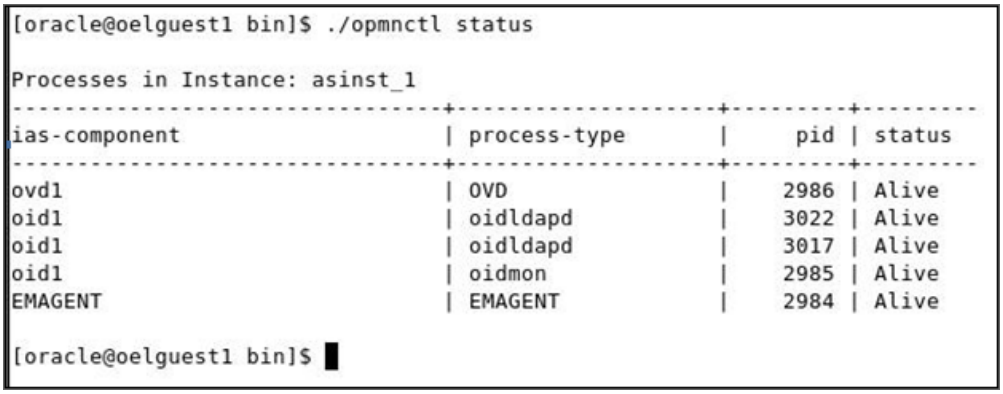
Figure 2–3 Start the OID Instance



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



2.4.2.2 OID Performance Tuning

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

1. Change the following parameter values as given:

Table 2–6 Parameter Values to be Changed

Parameter Name	Value
orclmaxcc (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

2. Advanced OID tuning:
   a. Create a .ldif file with any name. For example, tune.ldif.
   b. 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

   c. 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
      ```

3. See the OID Tuning Guide available at http://docs.oracle.com/cd/E23943_01/core.1111/e10108/oid.htm#ASPER99961
4. Patch for OID:

   Download and apply the patch (13879999) for OID performance from http://support.oracle.com
5. Changes in **jps-config.xml**:

   The property '**authorization_cache_enabled**' needs to be added to ensure that authorization cache is enabled for the ADF enabled applications. These changes are required to be done in **jps-config.xml** which is located at the following path:

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

Example:

```
<propertySet name="props.ldap.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"/>
```

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

Example:

```
<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>
```

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 2–7 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).

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
```

ldapadd WebLogic.ldif

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

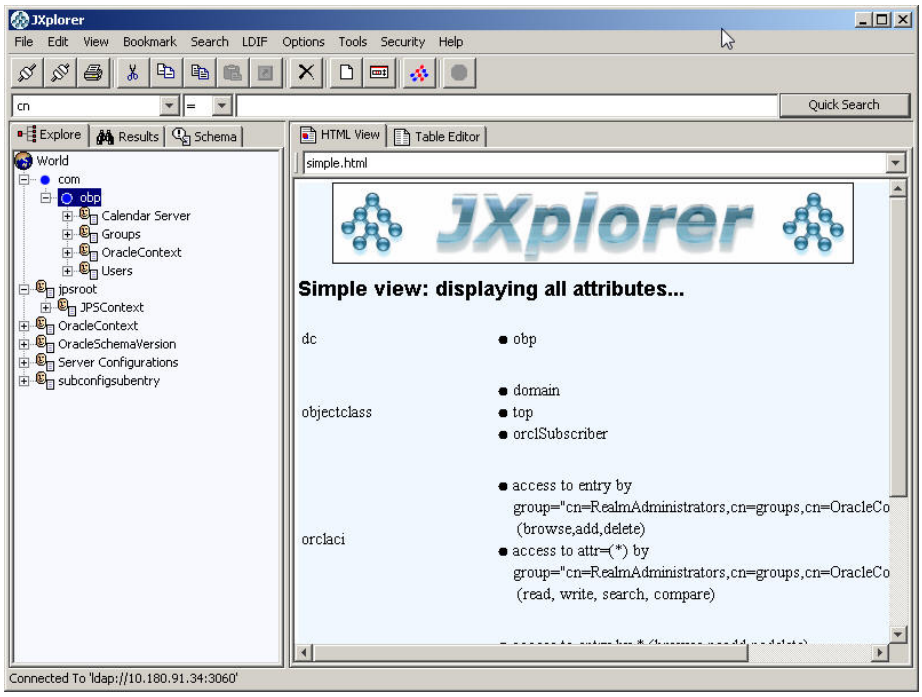
ldapadd Administrators.ldif

```
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



3

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 document 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 a 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.

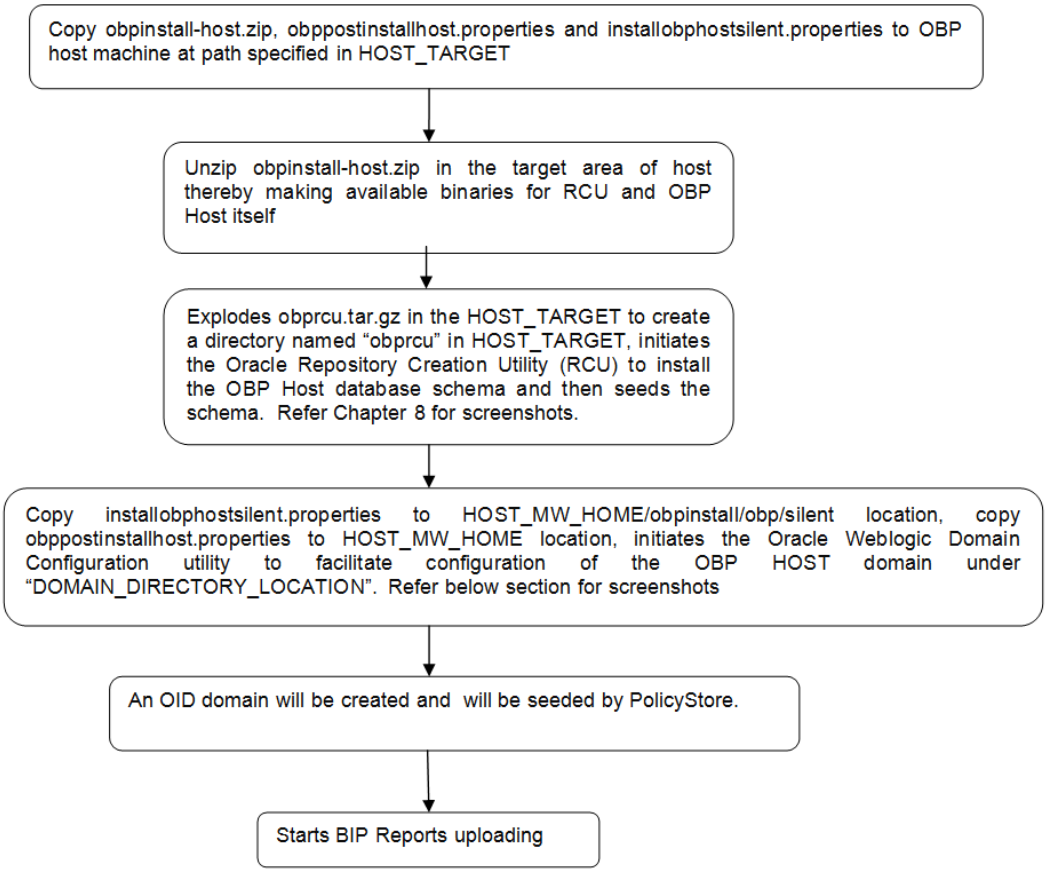
  For example, if HOST_DB_SCHEMA_PREFIX is DEV, then OBP_HOST_DB_USER should be DEV_OBP_HOST.
- OID_DOMAIN_NAME in installobphost.properties should match with the OID_ DOMAIN_NAME given in installobpui.properties. Any other domain with the same name must not exist in OID. The domain in OID will be created 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 11.1.1.7)
  - OBP_HOST_DB_USER (by RCU 11.1.1.6)
  - OES_SCHEMA_USER (by RCU 11.1.1.6)
- 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.

3.1.3 Installation Steps

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

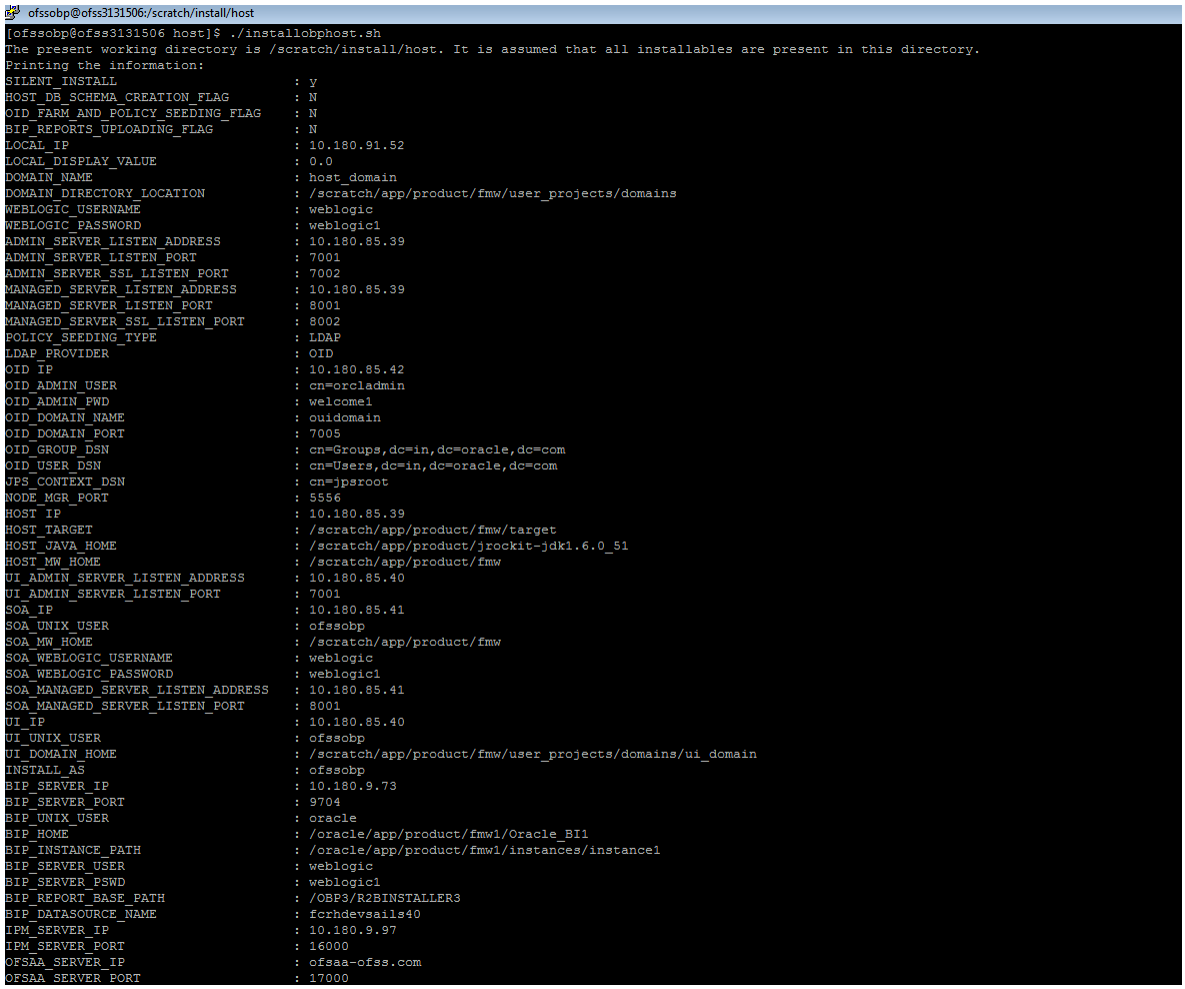
1. Navigate to the directory where the media pack files are placed and execute installobphost.sh. The installation script shall echo the values entered in the installobpui.properties file and ask for confirmation to go ahead with the installation.
2. The installation script automatically triggers the 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



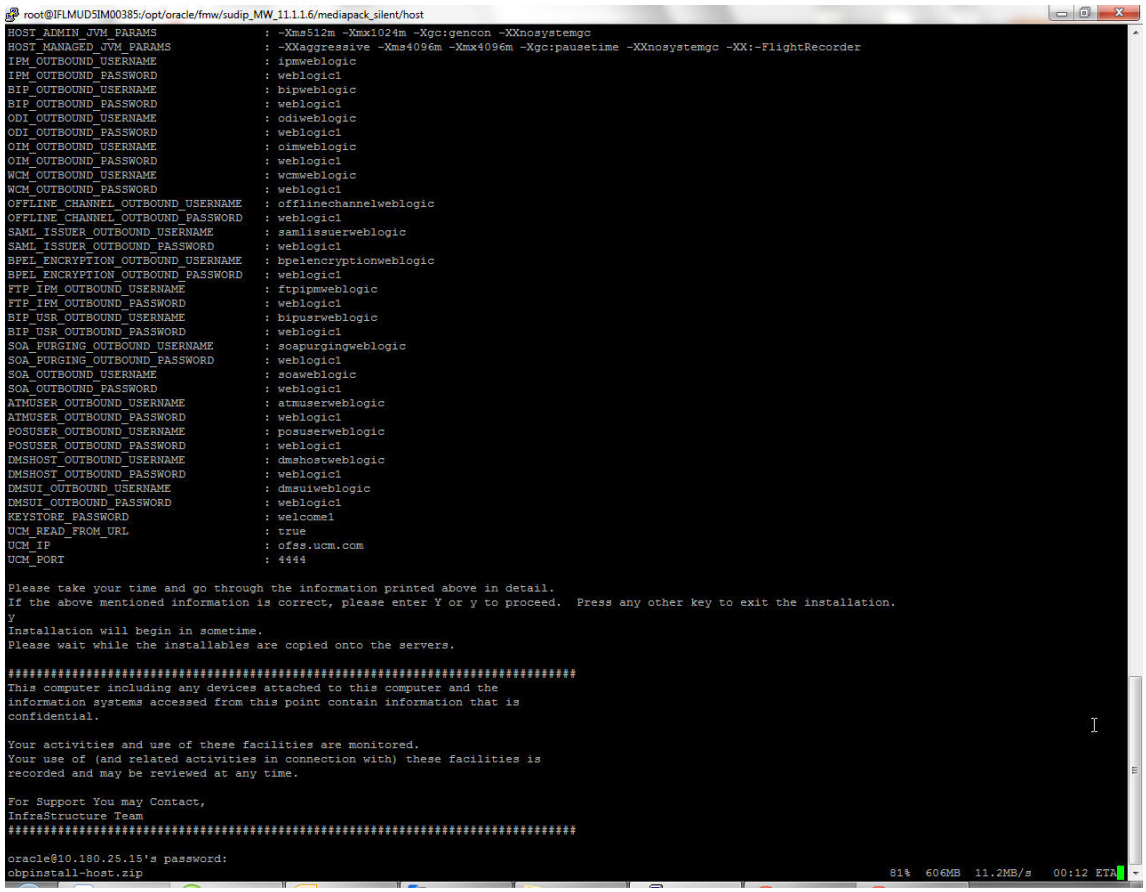
A sample output is given here.

Figure 3–2 Verification of Properties



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.

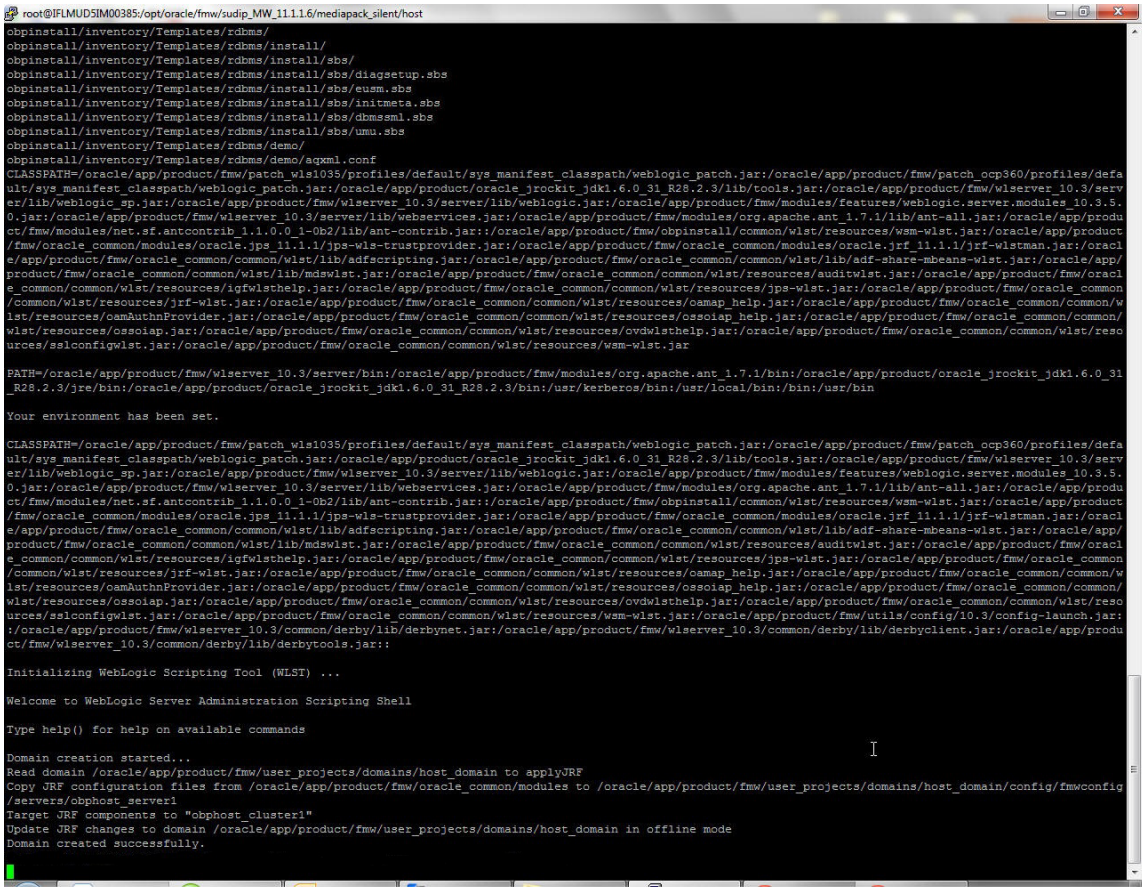
Figure 3–3 Confirmation and Copying of Installables to Target Machine



5. After copying, there is host DB schema creation and seeding.

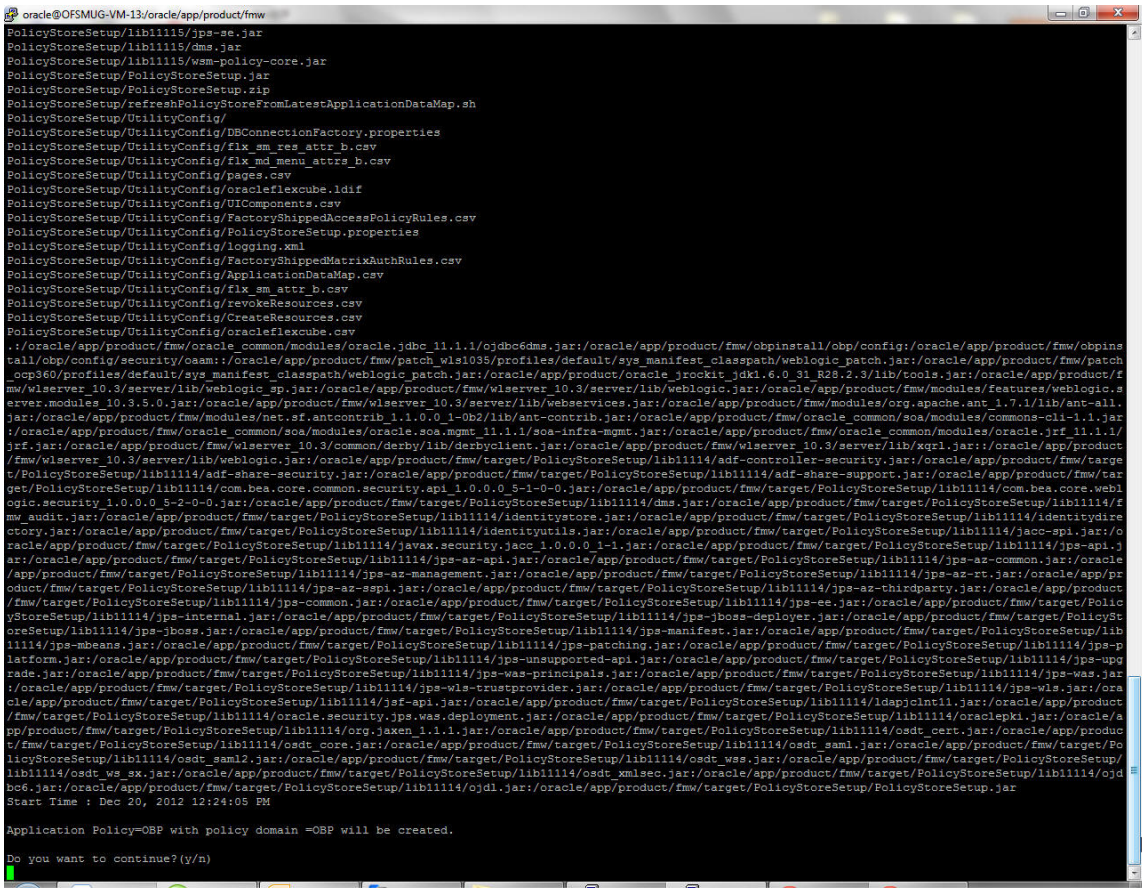
   After extracting the installables, the domain gets installed and a confirmation message is shown.

Figure 3–4 Domain Installation Confirmation



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

Figure 3–5 OID Domain Creation and Seeding



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. To understand the logging mechanism, see the OEM Diagnosibility details at http://docs.oracle.com/cd/E25054_01/doc.1111/e24473/diagnosability_adminuser.htm.

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
```

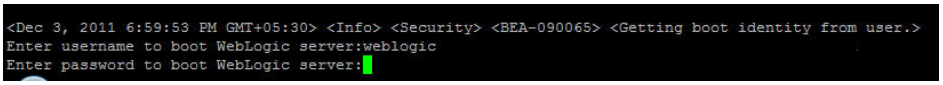
Post Installation Configuration

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 the password to ensure that the WebLogic server starts up.

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
```

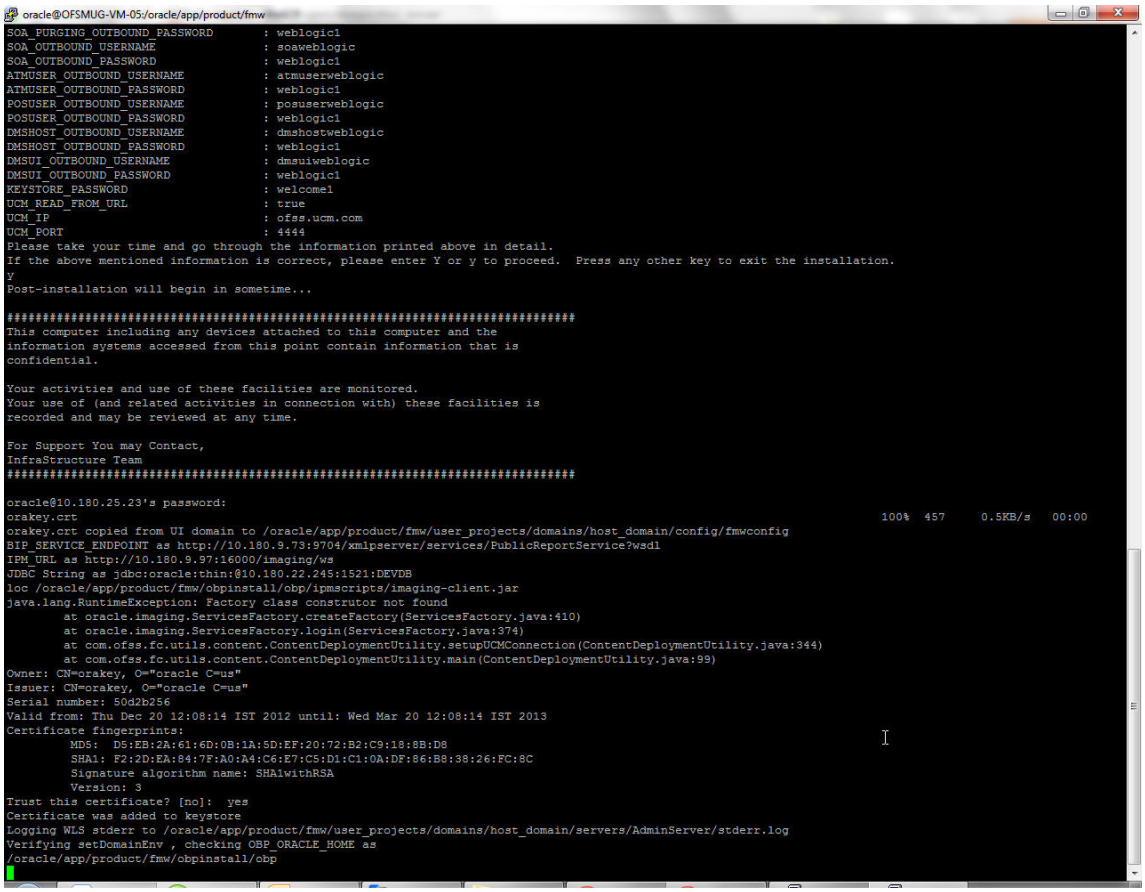
6. For monitoring the script run, check the following log files created under the UI domain directory:
   - obp-host-install-log.txt

- 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

Figure 3–8 Host Domain Post Installation Script Execution Summary



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

4

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 document 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:

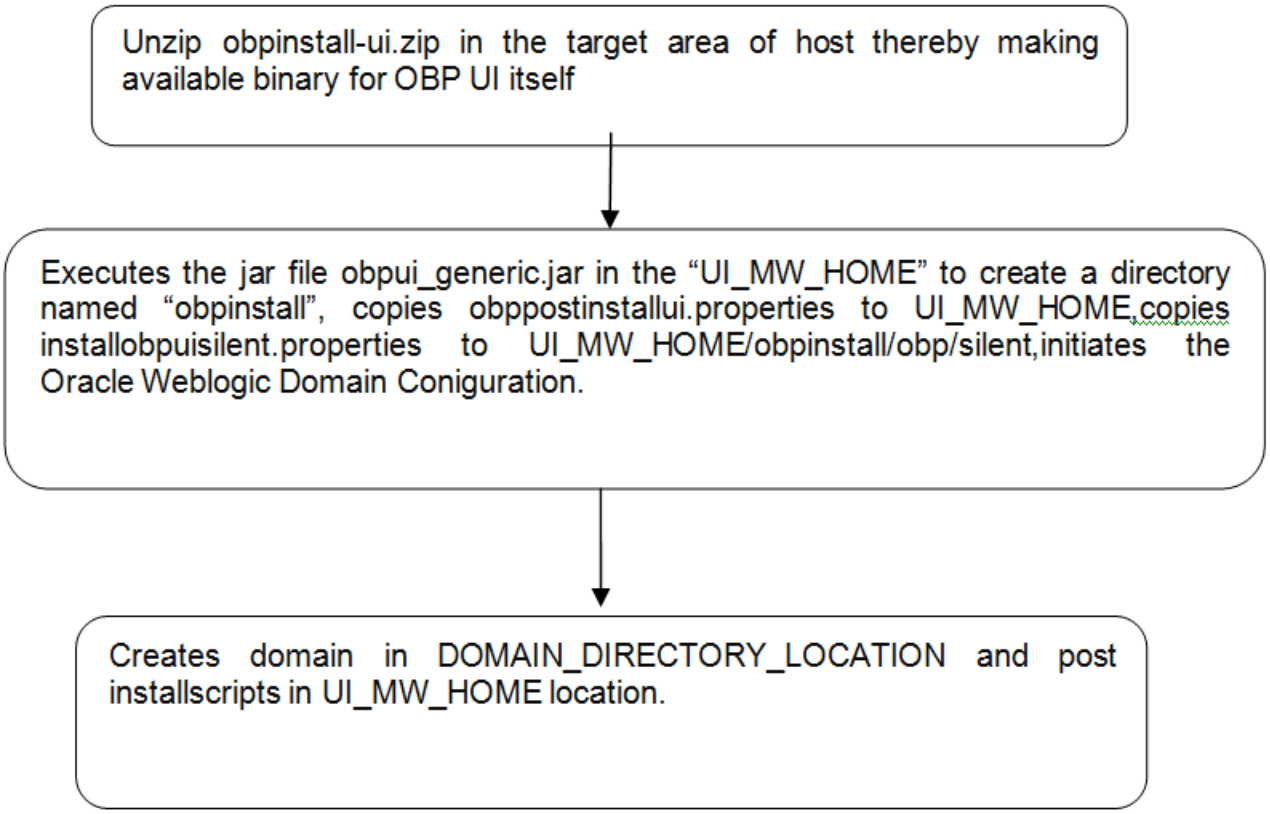
- Node manager must not be running on the target machine.
- Create a dummy folder named as Target and mention its path against HOST_ TARGET property.
- In case of a re-installation ensure that the directory paths against DOMAIN_ DIRECTORY_LOCATION, OES_MW_HOME, HOST_TARGET and HOST_MW_ HOME specified 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.

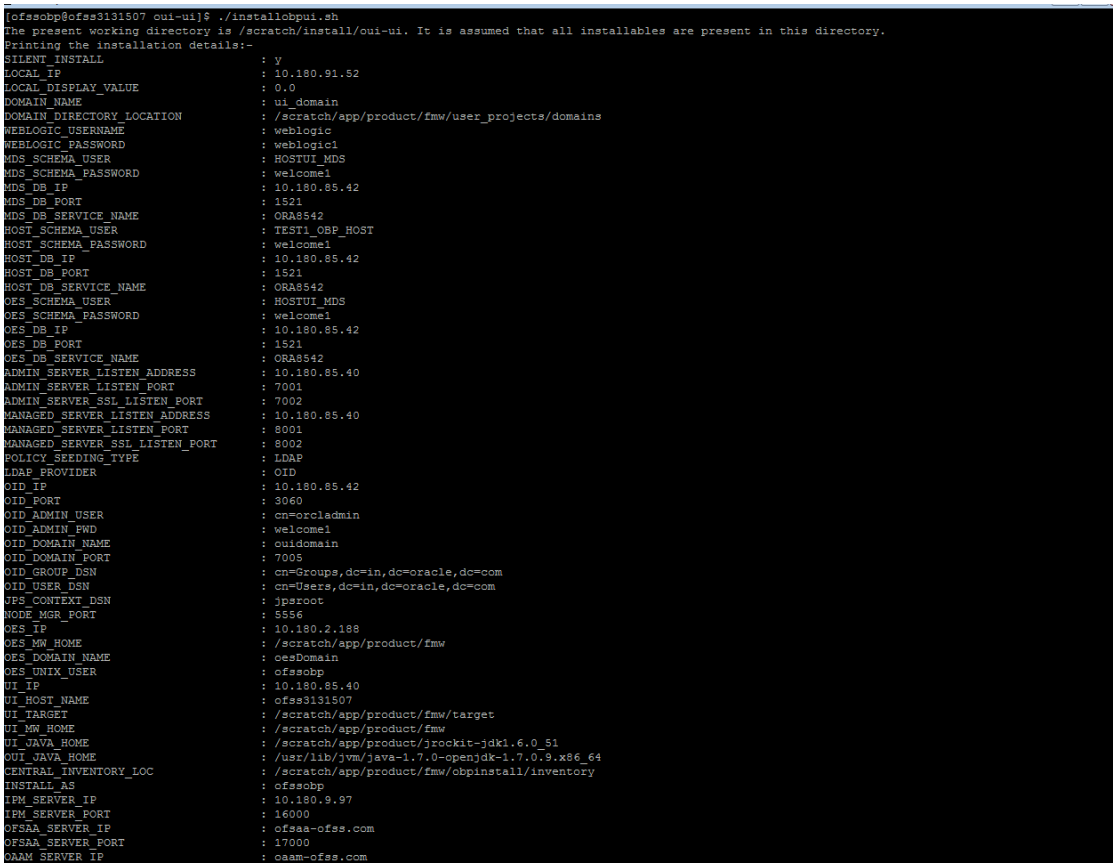
1. Navigate to the directory where the media pack files are placed and execute installobpui.sh. The installation script shall echo the values entered in the installobpui.properties file and ask for a confirmation to go ahead with the installation.
2. The installation script automatically triggers the 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



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 obpinstall-ui.zip

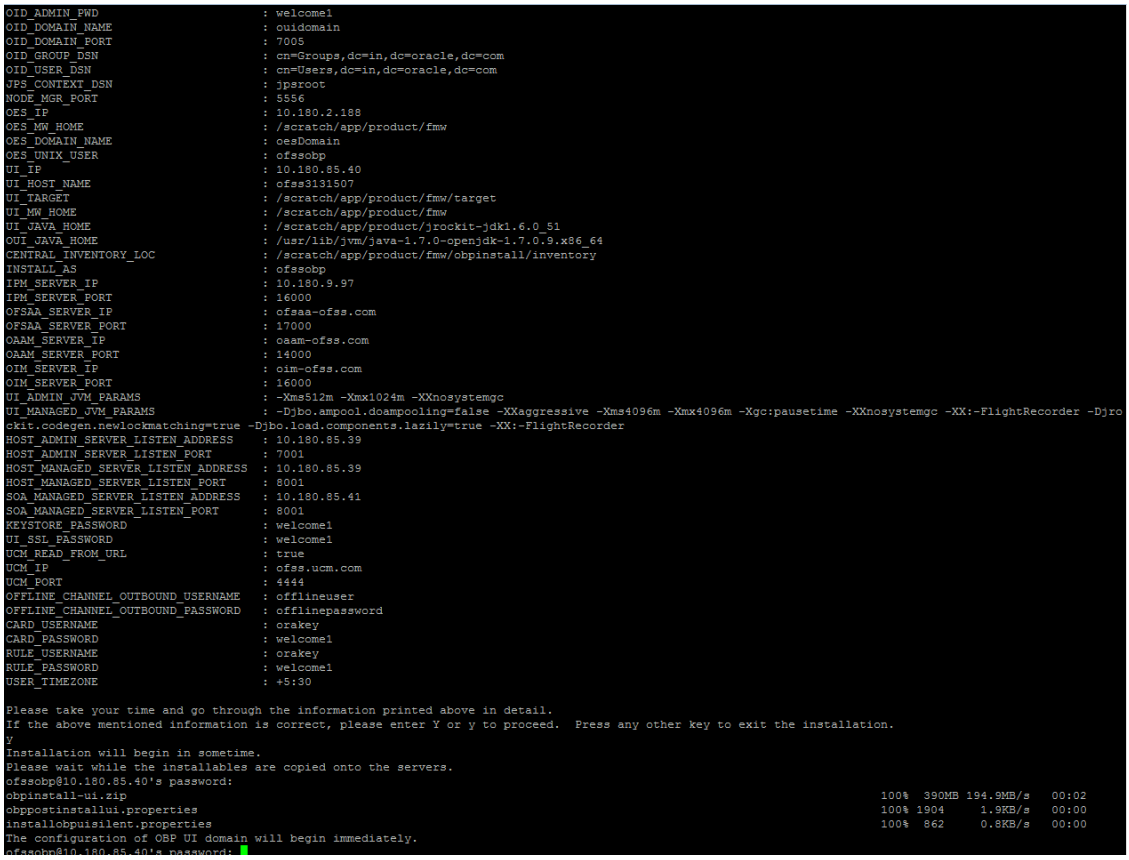
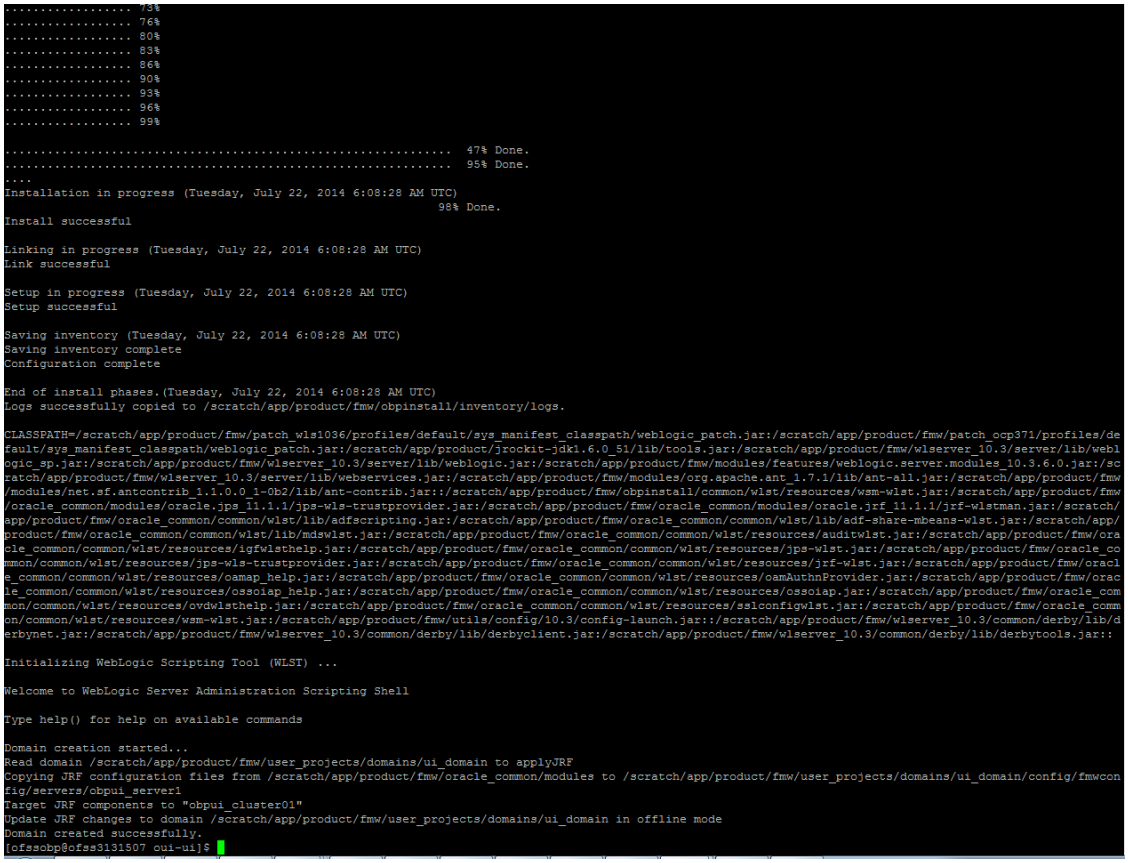


Figure 4–4 Domain Creation Confirmation



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".

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

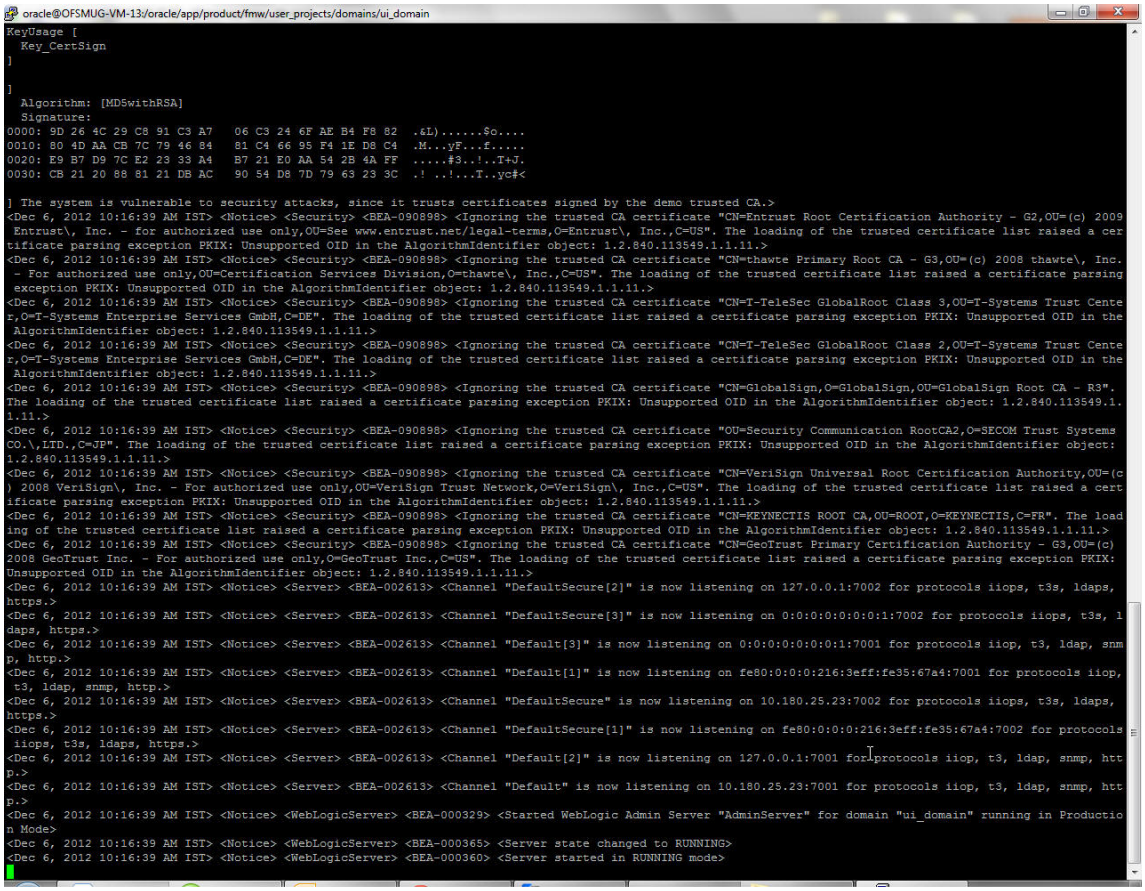
1. Start the domain admin WebLogic server by executing the startWebLogic.sh script in the domain directory.

```
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

Figure 4–6 UI Admin Server Running



3. Once the server status changes to RUNNING proceed to execute the post installation script.
4. 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.
5. Navigate to the UI middleware location and give executable permission to the post install script:

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

6. Execute the script using the following commands:

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

Figure 4–7 UI Post Install Script Confirm

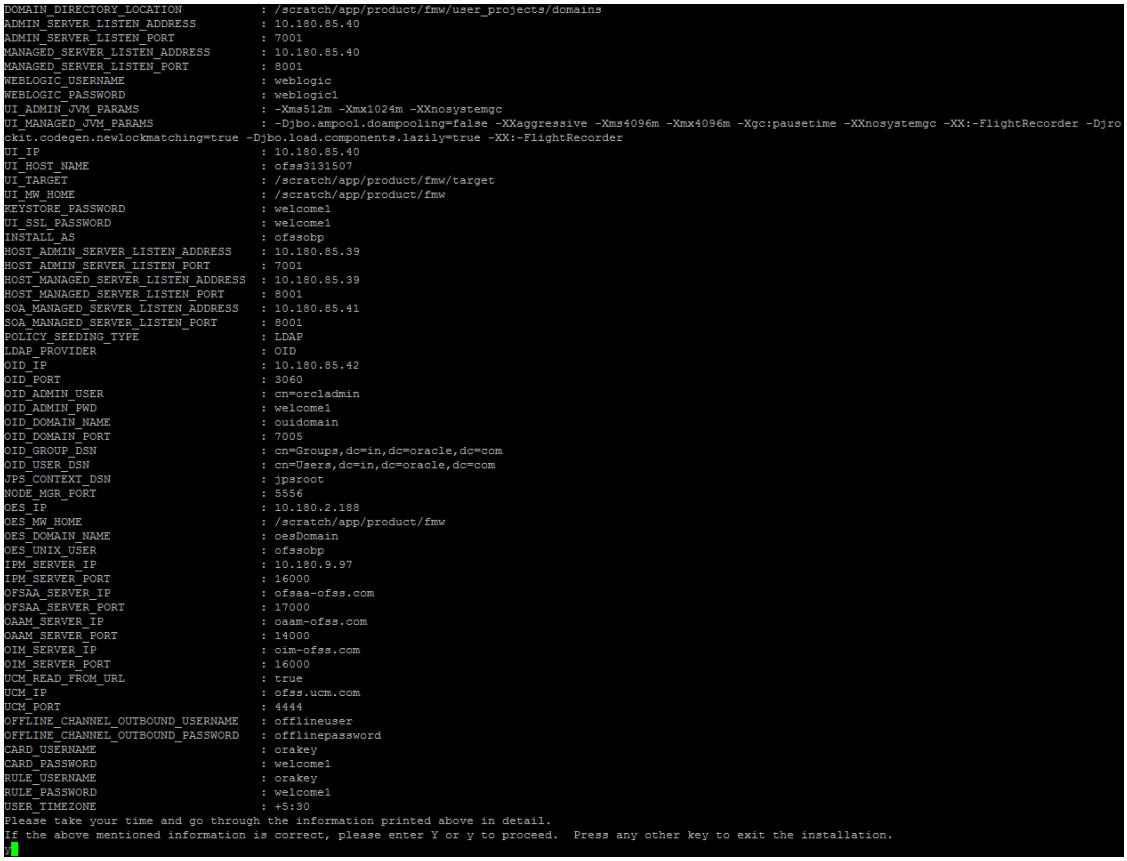
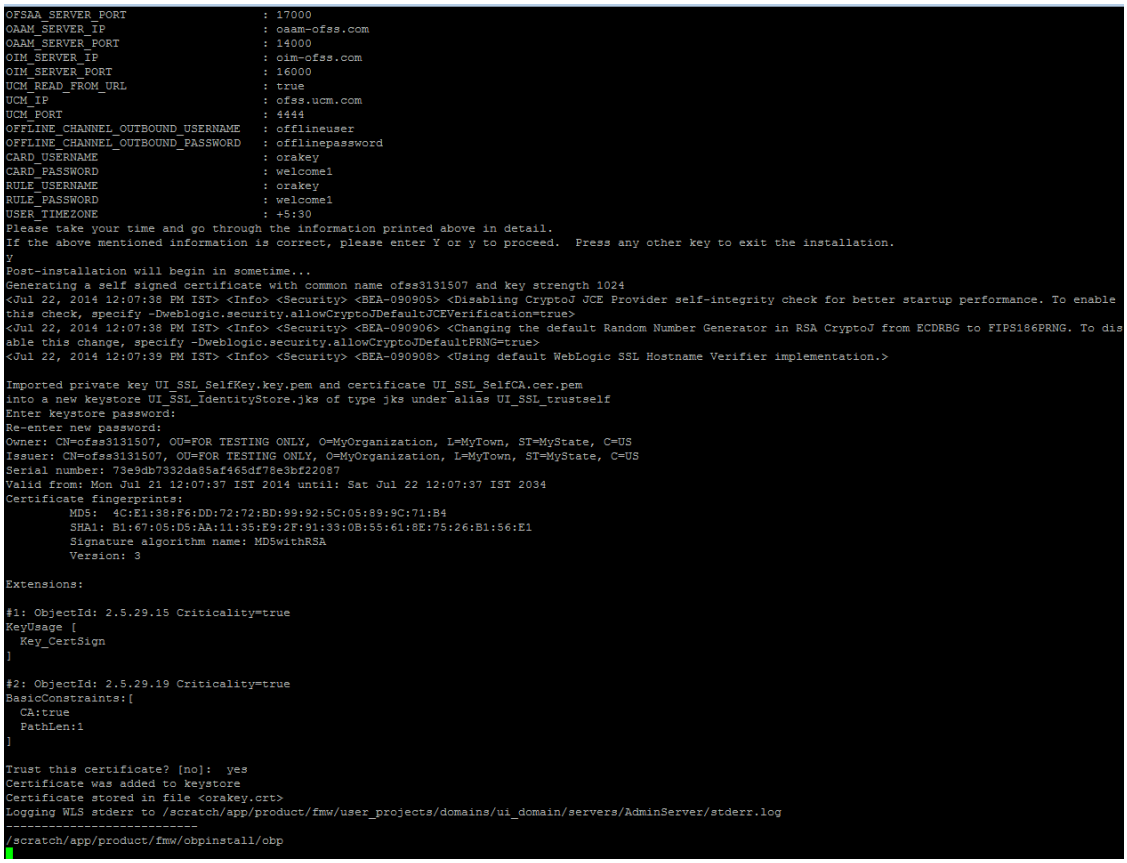


Figure 4–8 UI Post Install Script Running



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

5

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 document 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 as target and mention its path against HOST_ TARGET property.
- All required database schema are to be created manually using RCU 11.1.1.7. The schema are as follows:
  - MDS_SCHEMA_USER
  - BAM_SCHEMA_USER
  - SOA_INFRASTRUCTURE_SCHEMA_USER
  - USER_MESSAGING_SERVICE_SCHEMA_USER

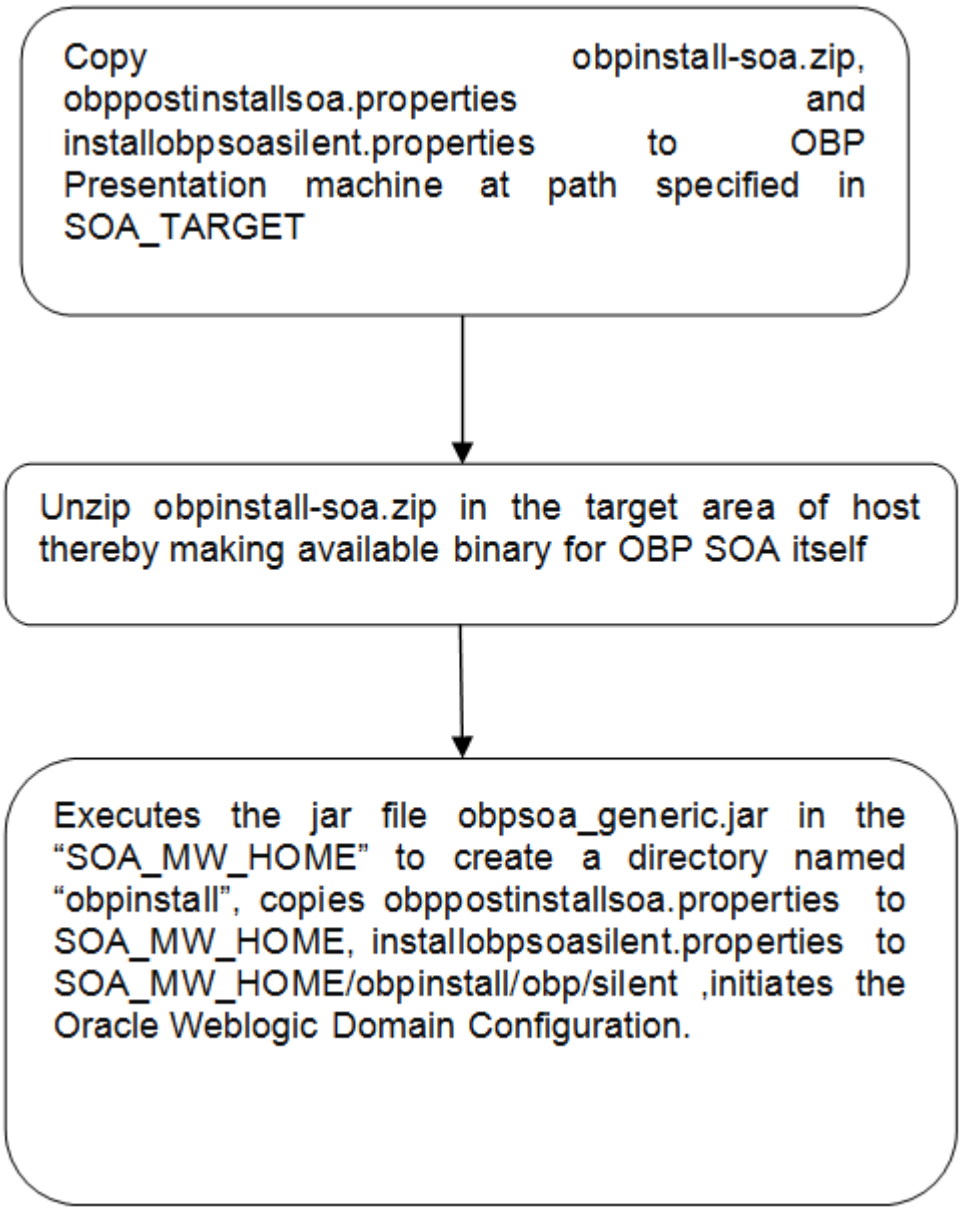
  Prefix for all these four schema should be same.
- Values given in installobpui.properties must be correct. At run time, no option is given to change the values.
- No processes should be running on the ports given in installobpsoa.properties.
- OID_DOMAIN_NAME in installobpsoa.properties must not exist 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.

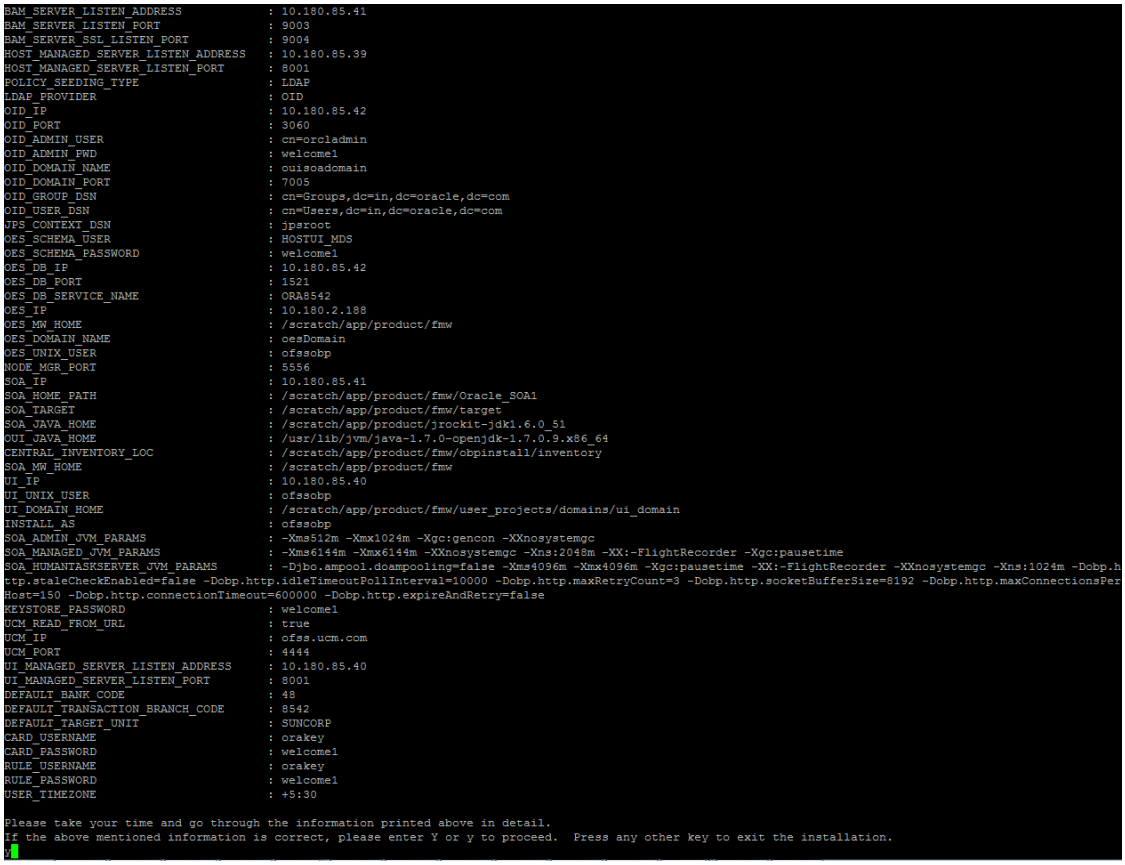
1. Navigate to the directory where the media pack files are placed and execute installobpsoa.sh. The installation script shall echo the values entered in the installobpsoa.properties file and ask for a confirmation to go ahead with the installation.
2. The installation script automatically triggers the 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



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 obpinstall-soa.zip

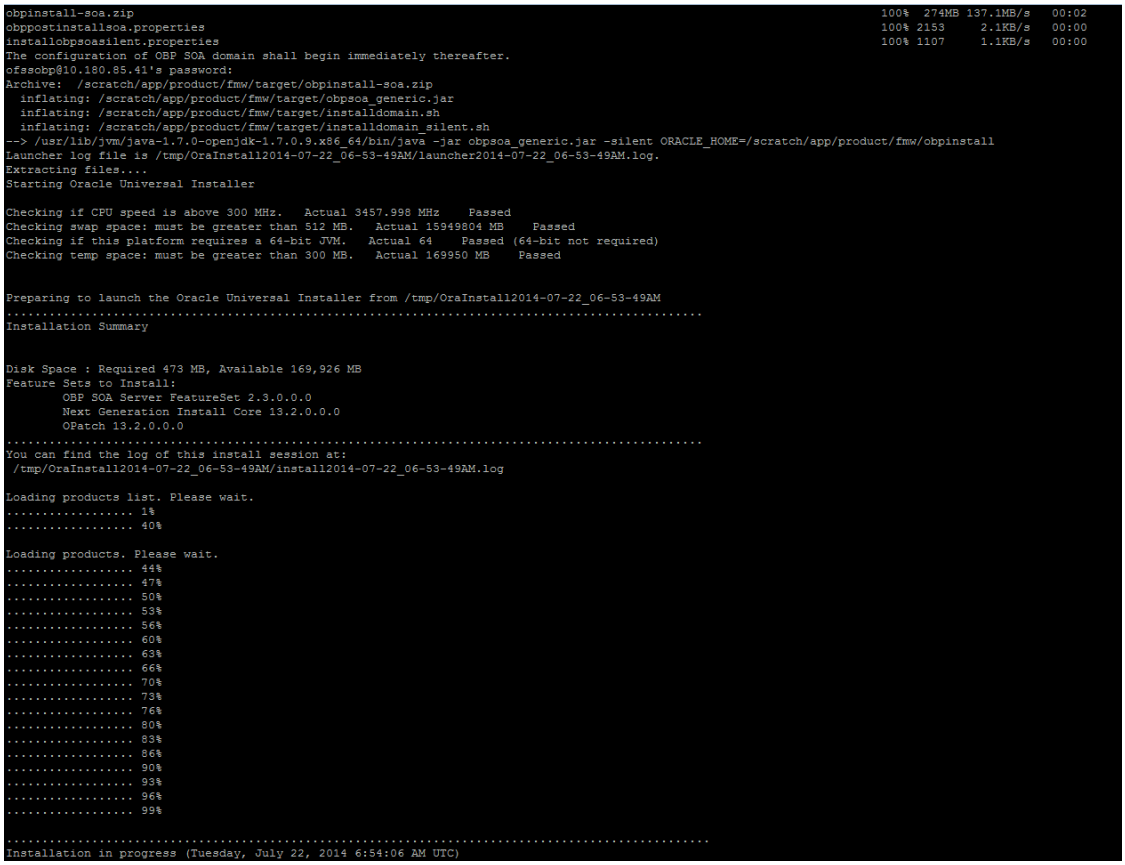
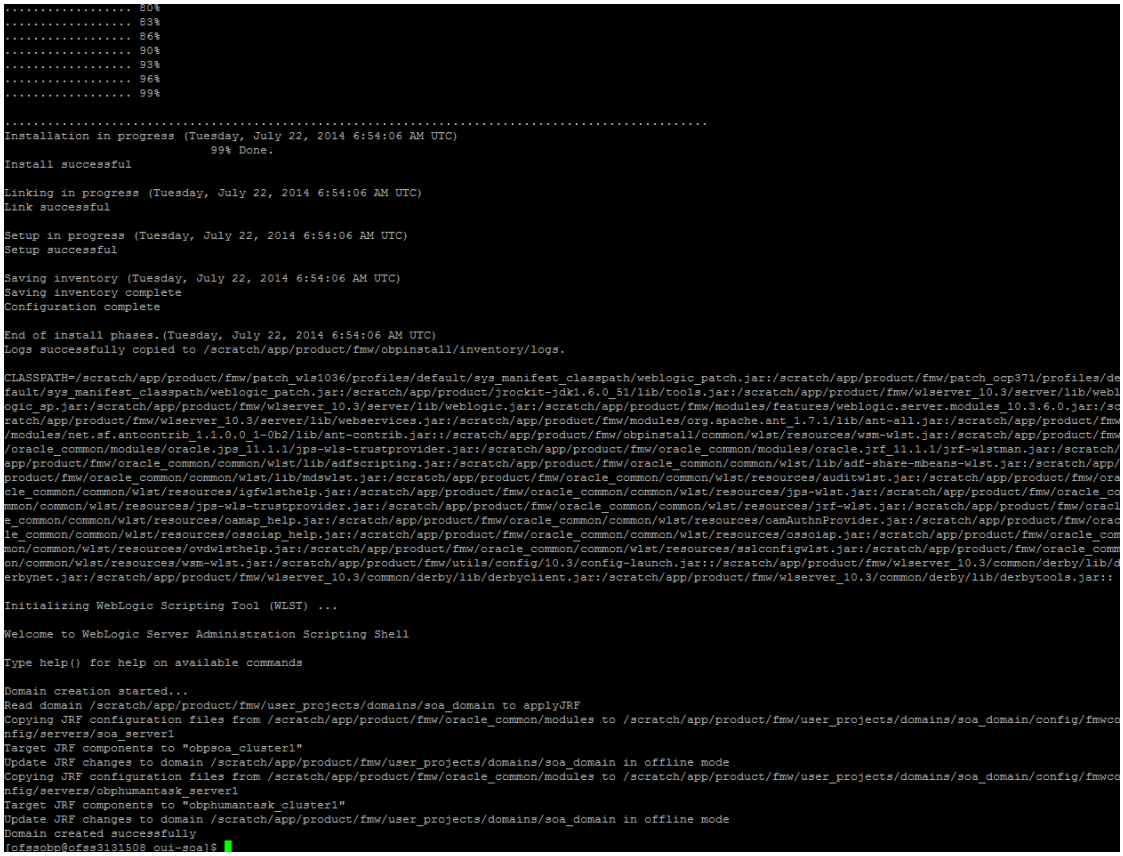


Figure 5–4 Domain Creation Confirmation



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="-Xms4096m -Xmx4096m"
```

```
PORT_MEM_ARGS="-Xms4096m -Xmx4096m"
```

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_miccleware_home/user_projects/domains/domain_name>

$./startWebLogic.sh
```

Host Managed Server

Start the host managed server:

```
$cd <host_miccleware_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.

4. 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.

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

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

   Then execute following script:

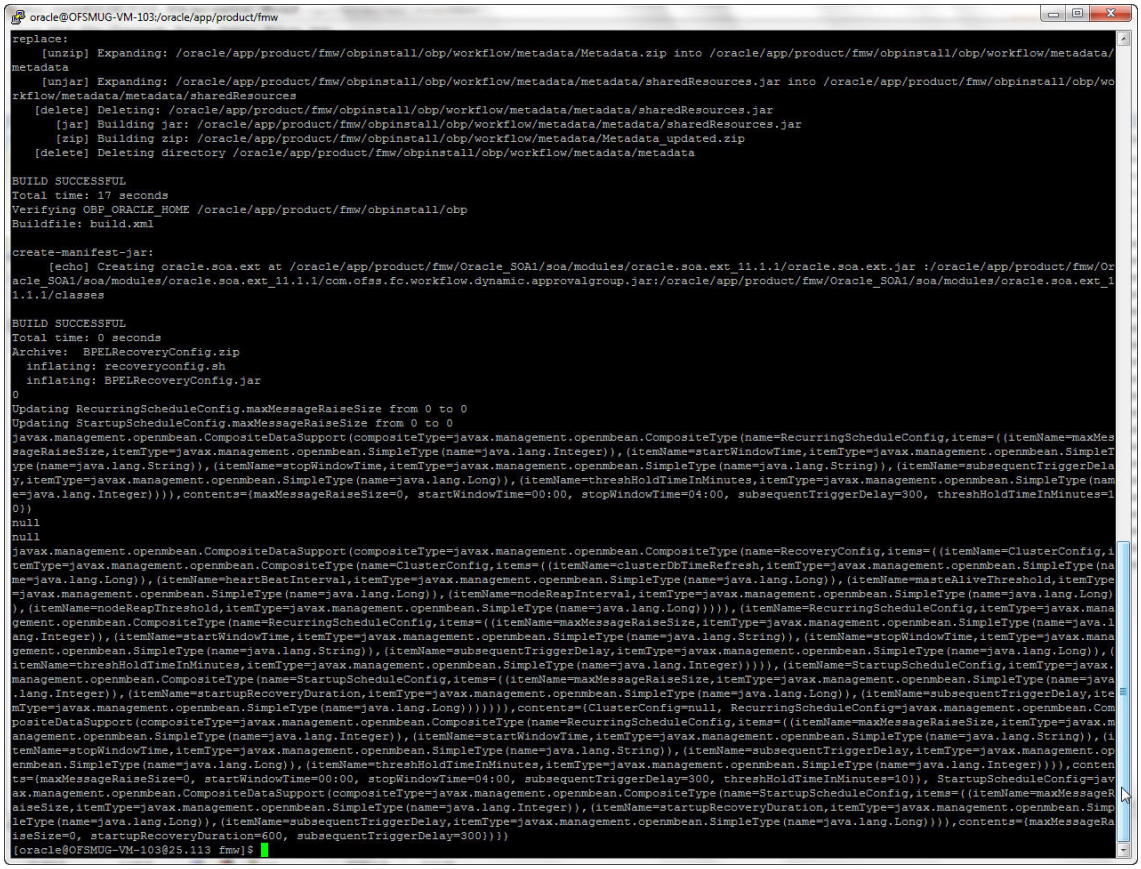
   ```
   $./obp-soa-post-install.sh
   ```

   A sample output is given here:

Figure 5–5 SOA Post Installation Confirmation

```
[ofssobp@ofss3131508 oui-soa]$ cd /scratch/app/product/fmw/
[ofssobp@ofss3131508 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               : 9003
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_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.
y
```

Figure 5–6 SOA Post Installation Completion



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

6

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) in this release have been defined using Oracle BPA – Oracle Business Process Analysis suite.

6.1 Pre-Installation Steps

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

The media pack consists of two distinct formats of the process maps in two separate folders:

- **BPA Database**

  In order to be able to view the process maps from the BPA database, it is mandatory that Oracle BPA Version 11.x has been installed in a server and appropriately configured based on specific installation needs.

  For more information, see the Oracle BPA Installation guide.

- **HTML Output**

  The HTML version of the process maps can be viewed using a browser and does not require that BPA be installed.

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

The zip file consists of two folders:

- rpm_bpa containing BPA database
- rpm_html containing the HTML files

6.2 Installing RPM Process Maps

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

6.2.1 Restoration of the database (.adb file) on Oracle BPA

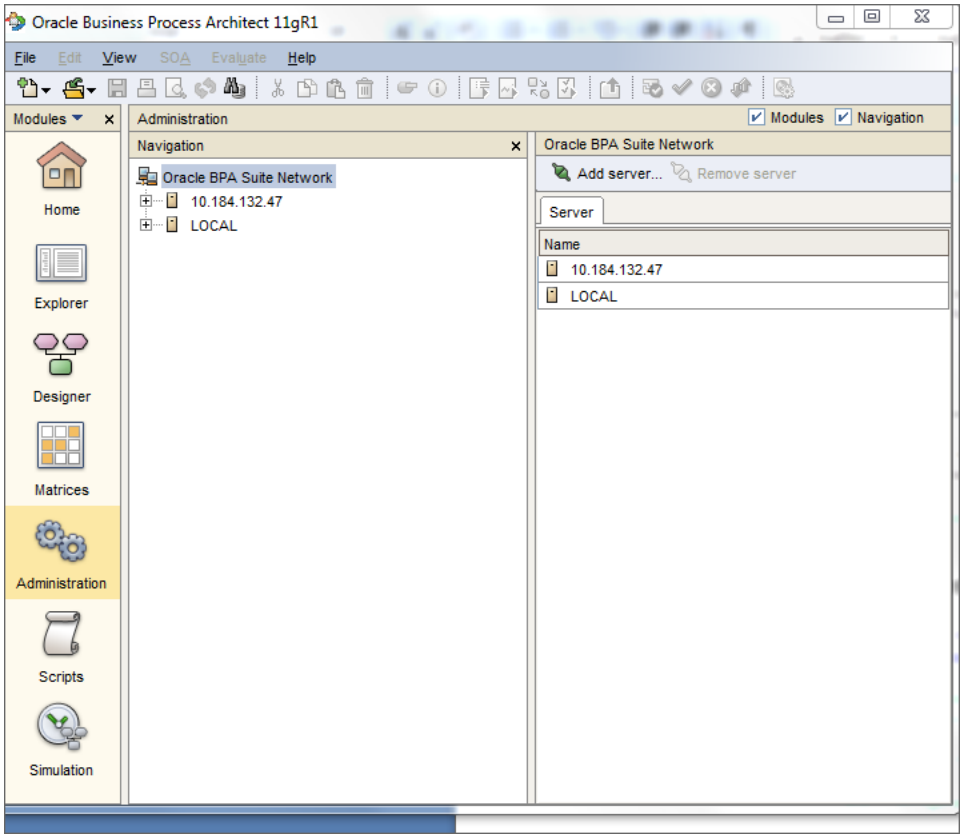
This section lists the steps for restoration of database on Oracle BPA.

Step 1 Restoring the RPM Process Database

To restore the RPM Process Database:

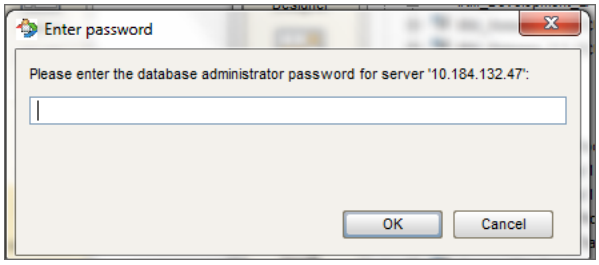
1. Launch Oracle Business Process Architect from a client machine.
2. Select the Administration module from the **Modules** panel.
3. Select the appropriate server in the **Navigation** panel on which RPM is to be installed.

Figure 6–1 Select Server for RPM Process Database



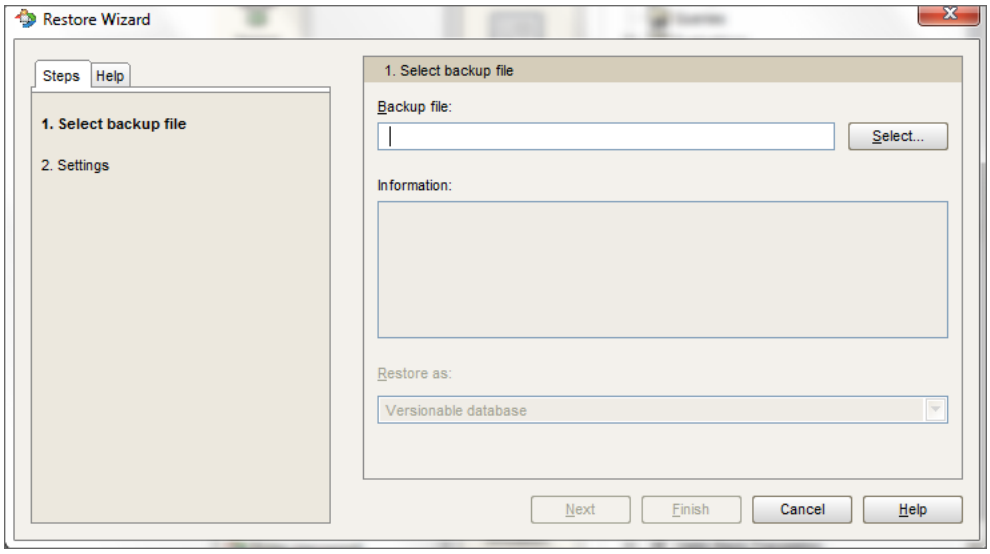
4. Right-click and select **Restore** to restore the RPM Process Database.
5. Enter the Database administrator password and click **OK**.

Figure 6–2 Enter Database Administrator Password



6. In the pop-up window enter the location where the zip files from the media pack have been copied and unzipped. Select the location of the file 'Reference Process Model for Banking Platform Release 2.3.0.0.0.adb' under the folder 'rpm_bpa'.

Figure 6–3 Select Database File to Restore



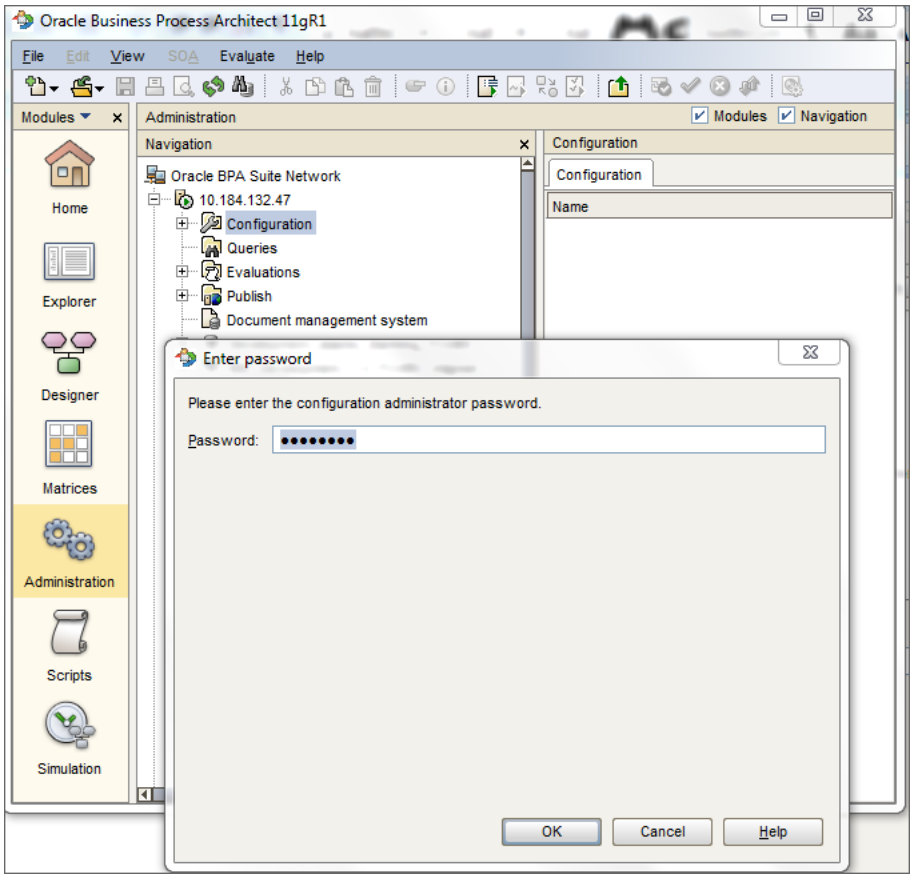
7. Click **Finish**. The RPM database gets restored within Oracle BPA.

Step 2 Importing the RPM_OBP Filter

To import the RPM Filter:

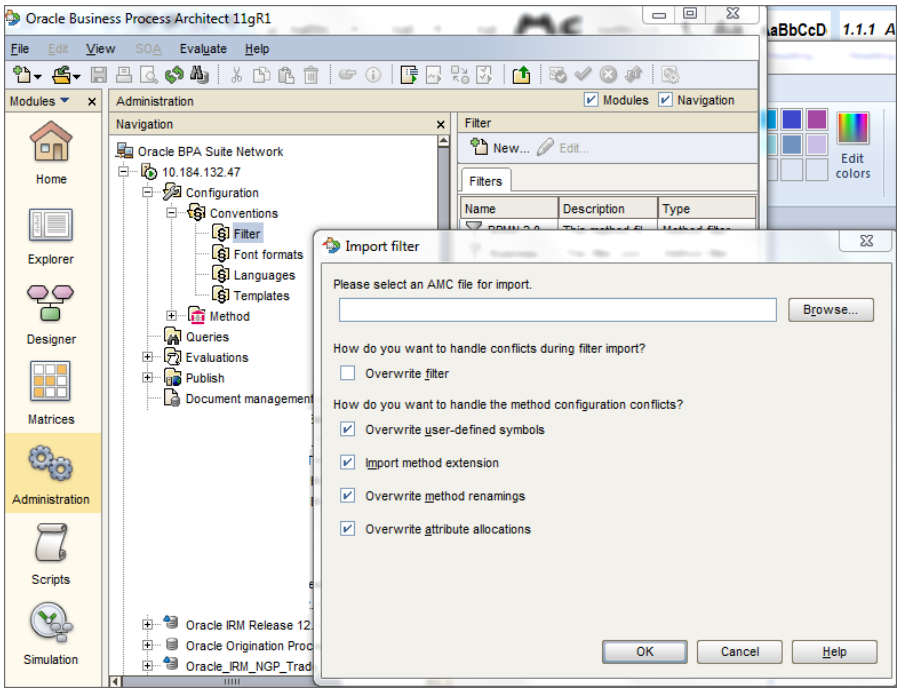
1. Launch Oracle Business Process Architect from a client machine.
2. Select Administration module from the **Modules** panel.
3. Select the appropriate server in the **Navigation** panel for importing the RPM filter.
4. Select **Configuration** option from the Navigation panel and provide the configuration administrator password. Click **OK**.

Figure 6–4 Configuration Administrator Password



5. Select **Conventions** under Configuration.
6. Next select **Filter** under Conventions.
7. Right-click and select **Import** to import the downloaded filter RPM_OBP Filter.amc.
8. Browse to select the location of the file RPM_OBP Filter.amc.

Figure 6–5 Select AMC File to Import



9. Click **OK**. The RPM_OBP Filter.amc gets imported to the database.

> **Note:** The imported RPM_OBP Filter.amc should be used while viewing the business maps within the RPM Database.

Step 3 Post Installation Configuration

This section specifies the post installation configuration required for the RPM Business Processes installation.

1. Open the RPM database and log in with the following credentials:

User id: system

Password: manager11

2. Select Administration from the Navigation panel.
3. From the drop-down options select **users** to change the system user password, to add groups or users and to provide appropriate access rights as per your organizational norms and requirements.

6.2.2 Restoration of HTML Files

This section lists the steps for restoration of database on Oracle BPA.

Step 1 Copy the HTML Files

Copy all the files from the folder rpm_html to the selected server which will be hosting the HTML. Ensure that required permissions are available to the users to access the folder.

Step 2 Provide the URL

The URL where the html is hosted should be provided to the users in order to access this:

http://<hostname>:<hostport>/<RPM Process Models Path>/index.htm

7

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.

7.1 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 7.2, "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.

7.2 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 7–1 Host DB Schema Setup Confirmation

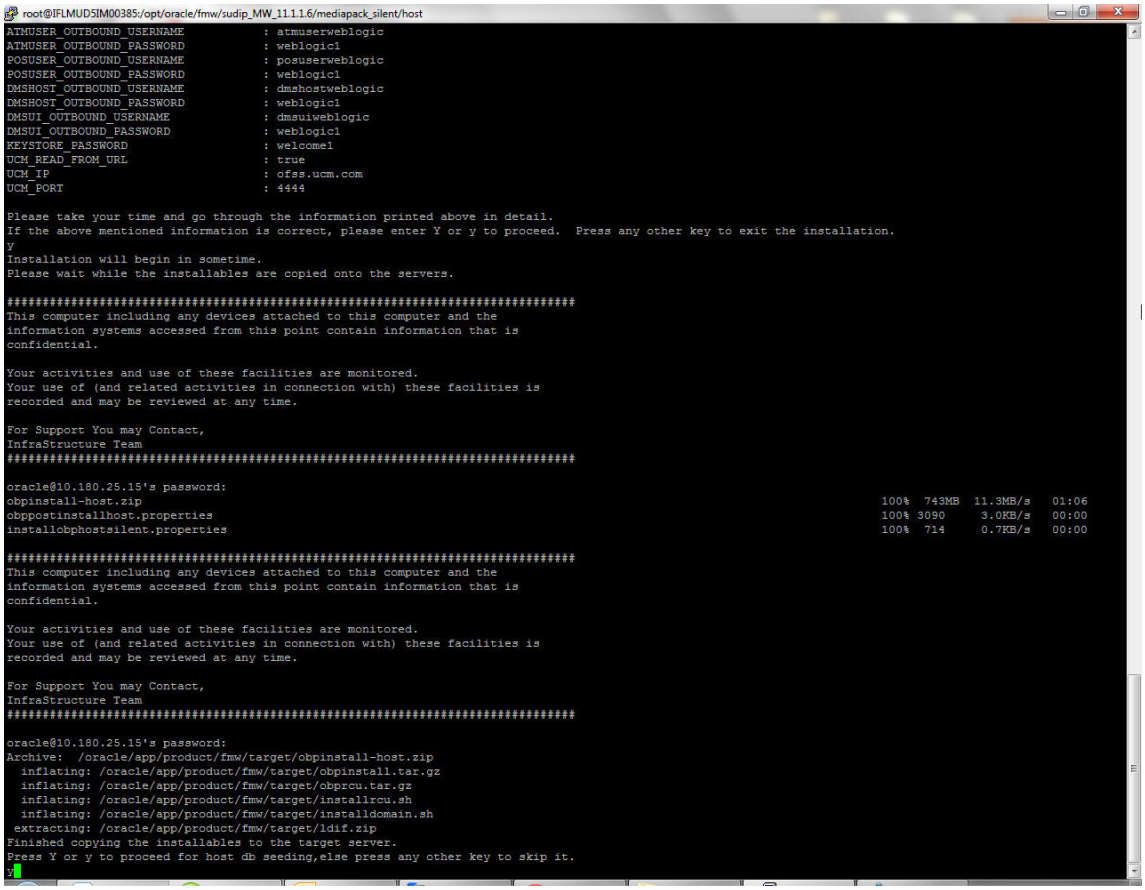


Figure 7–2 Enter Database Credentials

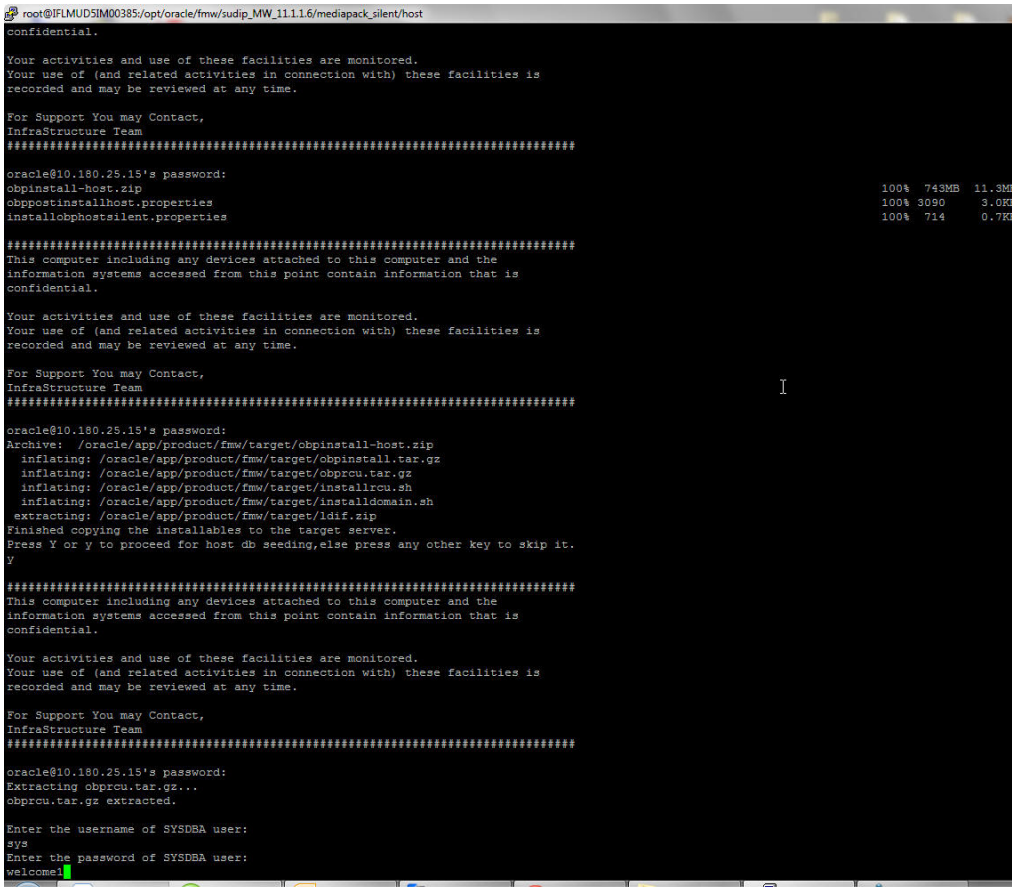


Figure 7–3 Creation of Host DB Schema

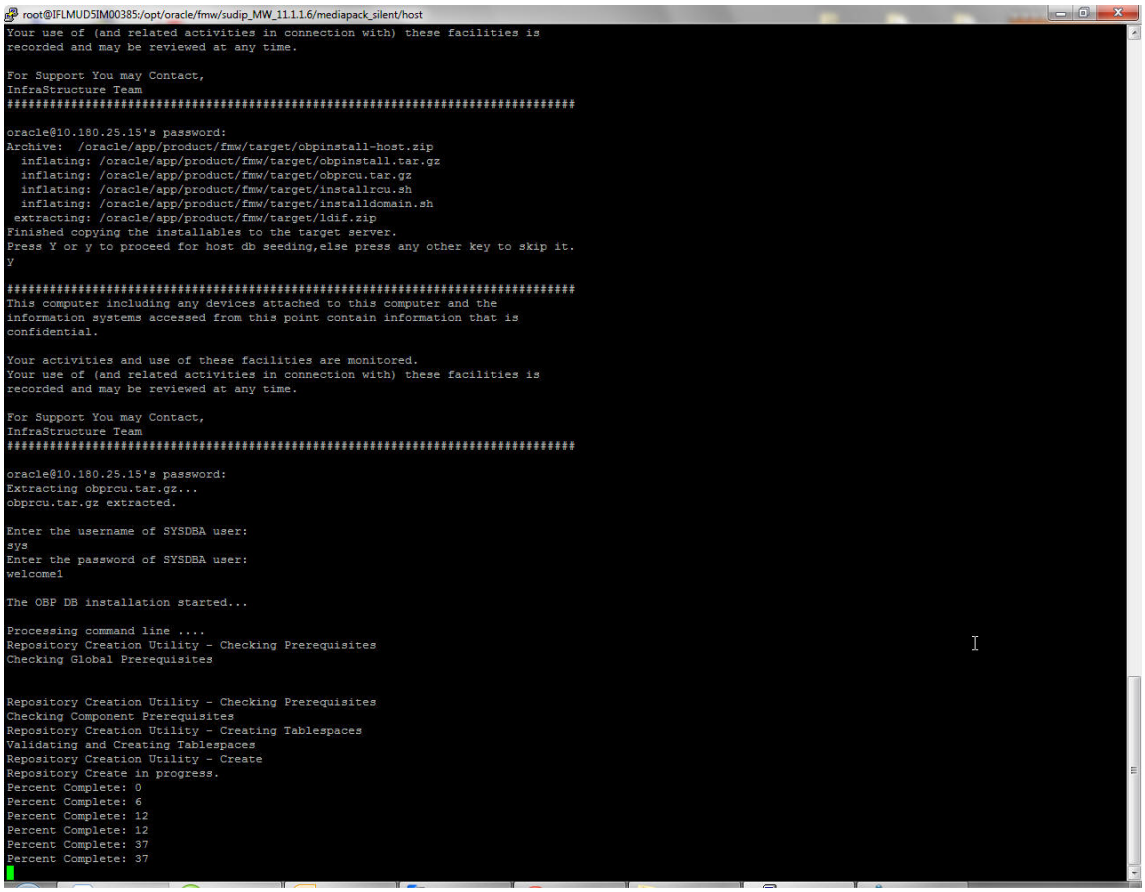
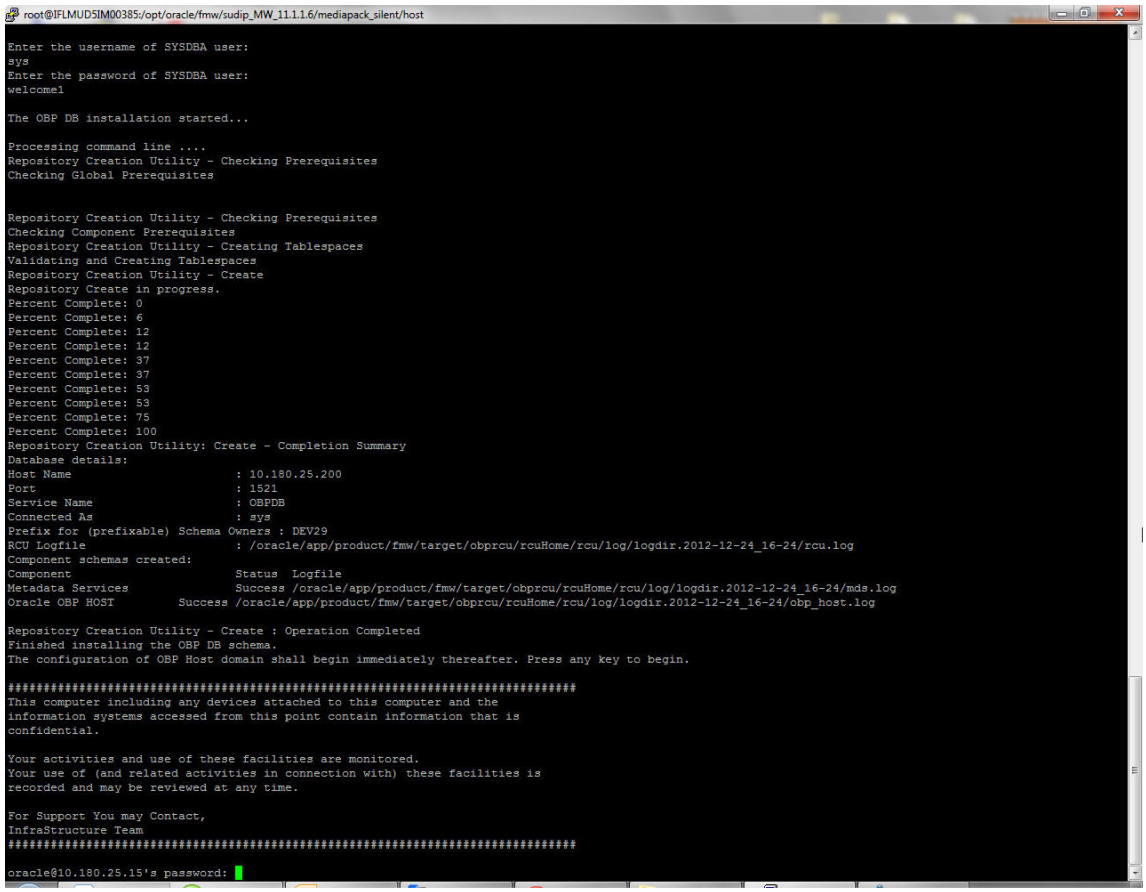


Figure 7–4 Completion of Host DB Schema Creation



7.3 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.

7.4 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.

7.5 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
```

8

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 8.1, "IPM Application Creation"
- Section 8.2, "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.

8.1 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.

8.1.1 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.

8.1.1.1 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

8.1.1.2 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

8.1.2 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 8–1, "IPM Application Field Definitions" and workflow configuration details have been depicted in Figure 8–2, "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 8–1 IPM Application Field Definitions

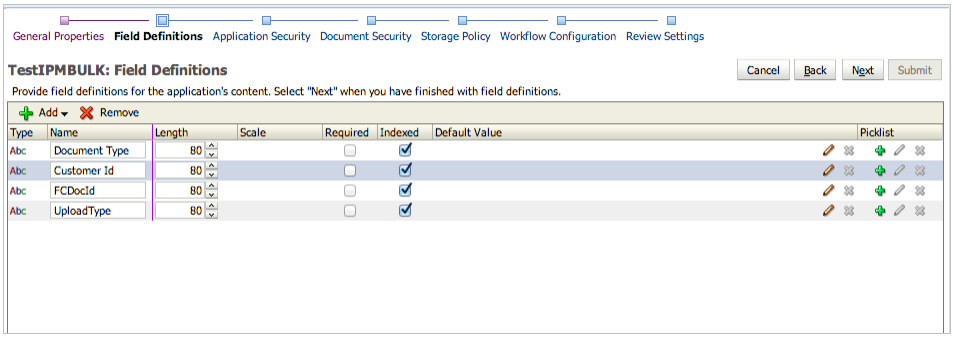
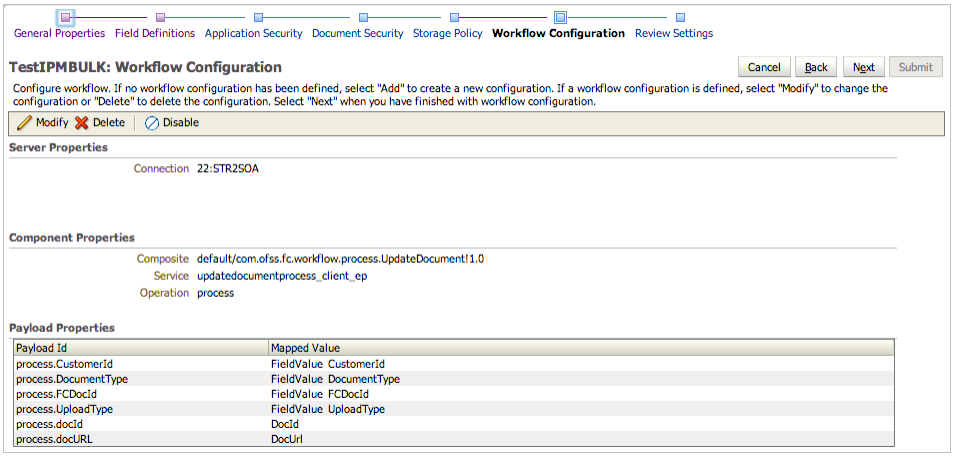


Figure 8–2 IPM Application Workflow Configuration



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.

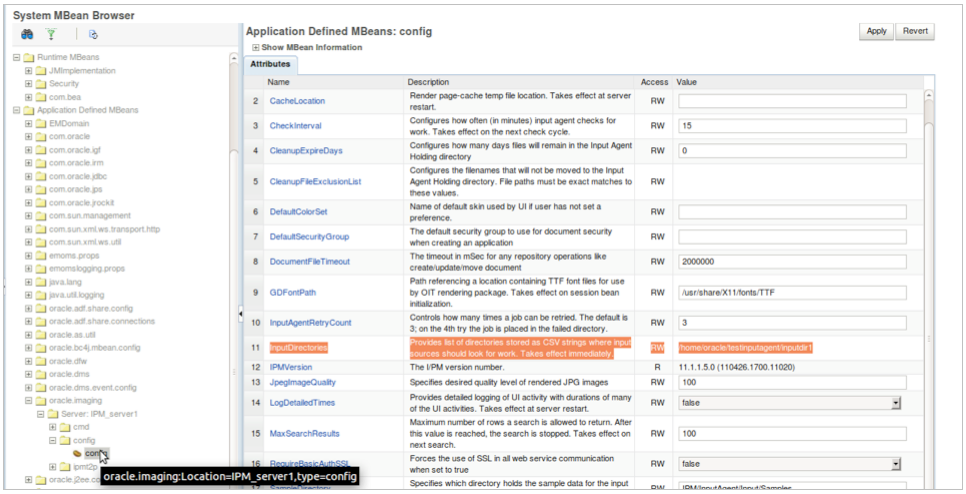
8.2 Manage Inputs

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 an 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 8–3 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.

9

OBP and OCH Integration

This chapter explains the steps required for integration of Oracle Banking Platform with OCH.

9.1 OCH Server Configuration in OBP

OBP integrates with Oracle Customer Hub as the customer master data management solution. Configuration information relevant from an OBP point of view is provided below.

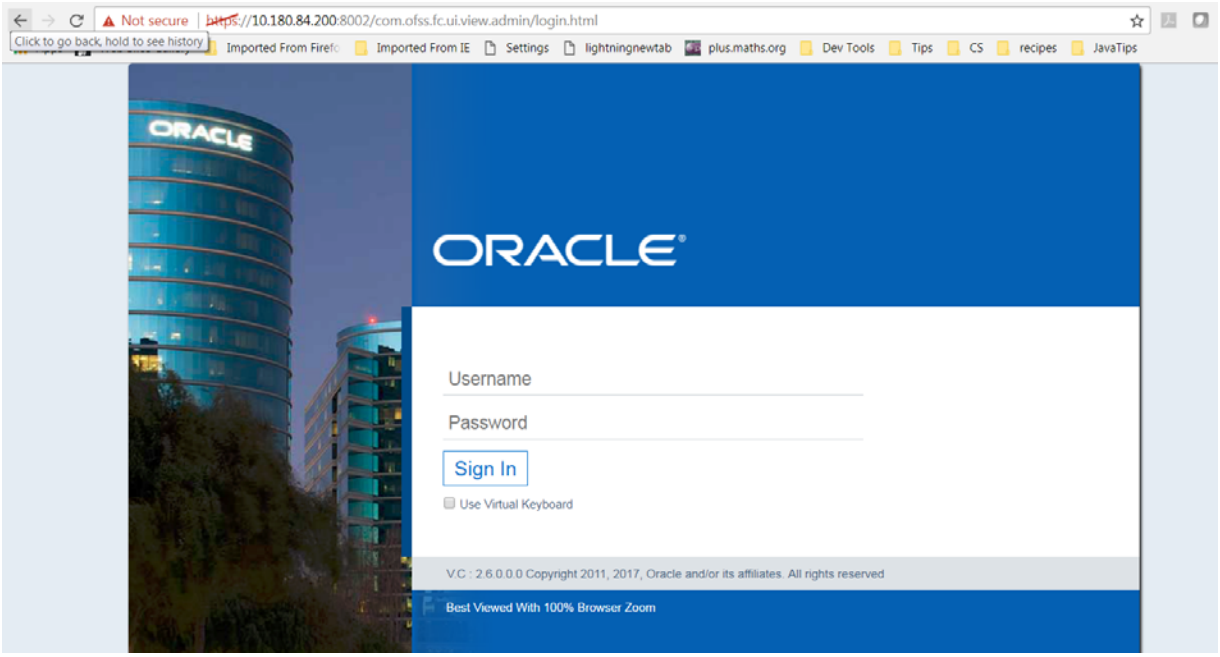
OBP integrates with OCH using the synchronous integration pattern using the OCH services. These service WSDLs are present as part of seed data. For the integration to work, IP address and port of OCH server need to be configured in OBP.

Following are the steps to configure OCH so that it can integrate with OBP:

1. Log on to the admin URL of OBP using the username and password set in OID.

   https://<hostserver>:<port>/com.ofss.fc.ui.view.admin/login.html

Figure 9–1 OBP Admin Login



2. After logging in, navigate to Configurations -> Configuration Variables Information (Fast Path: CFG01).

Figure 9–2 Navigate to Configurations

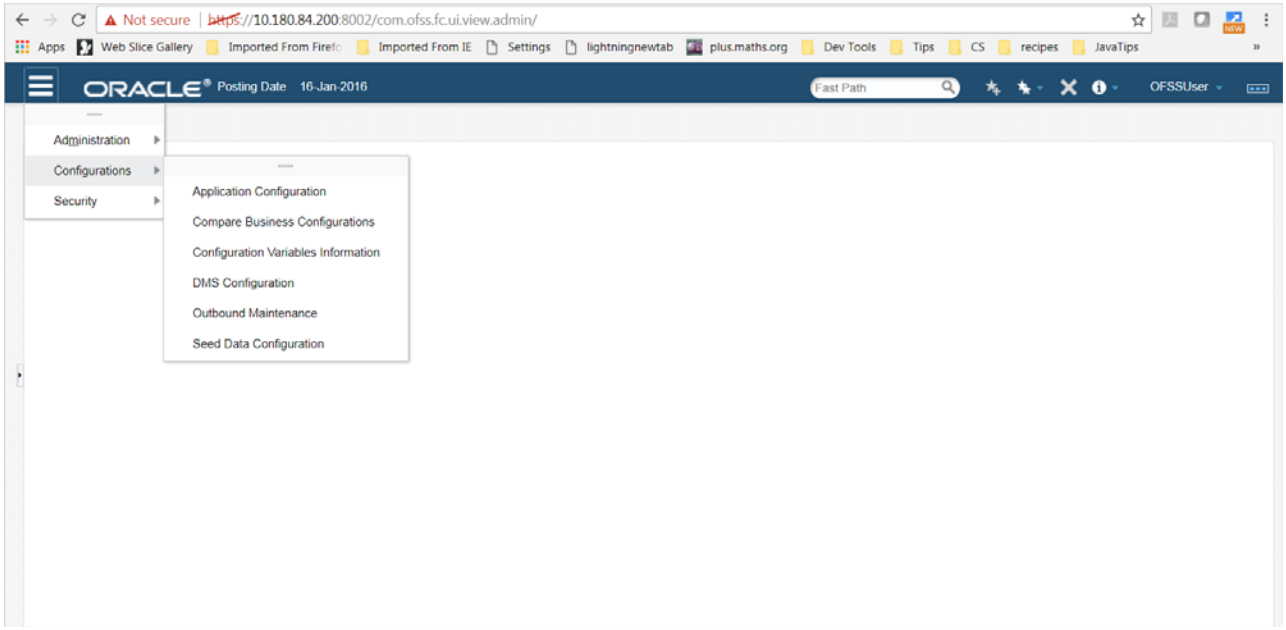
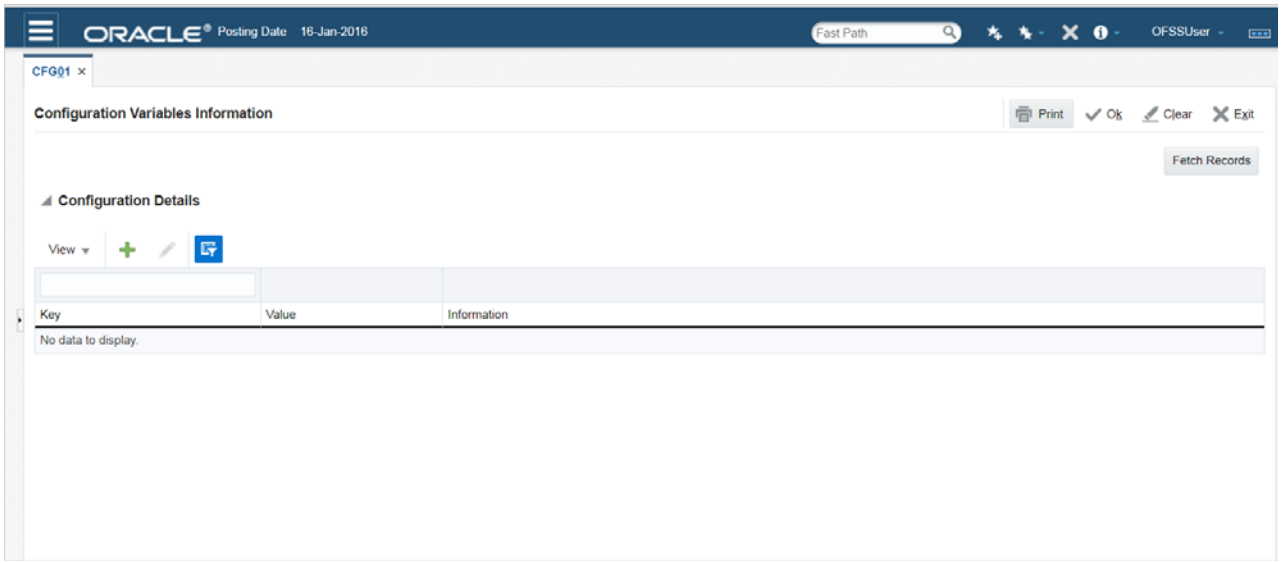


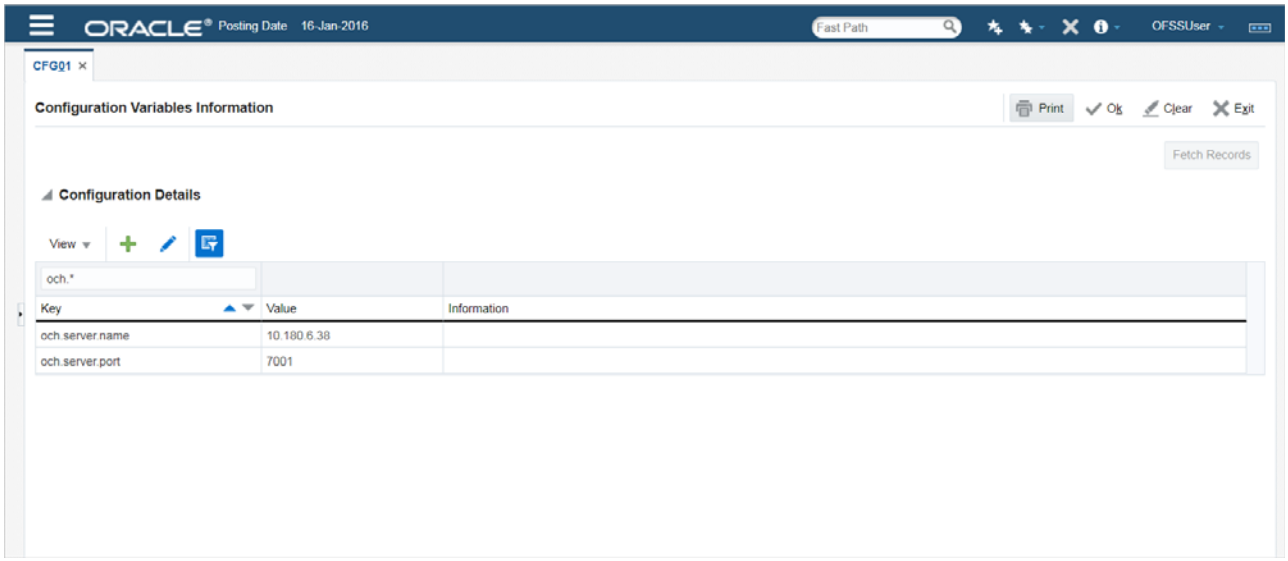
Figure 9–3 Configuration Variables Information (Fast Path: CFG01)



3. Click **Fetch Records.**
4. Search the following text:

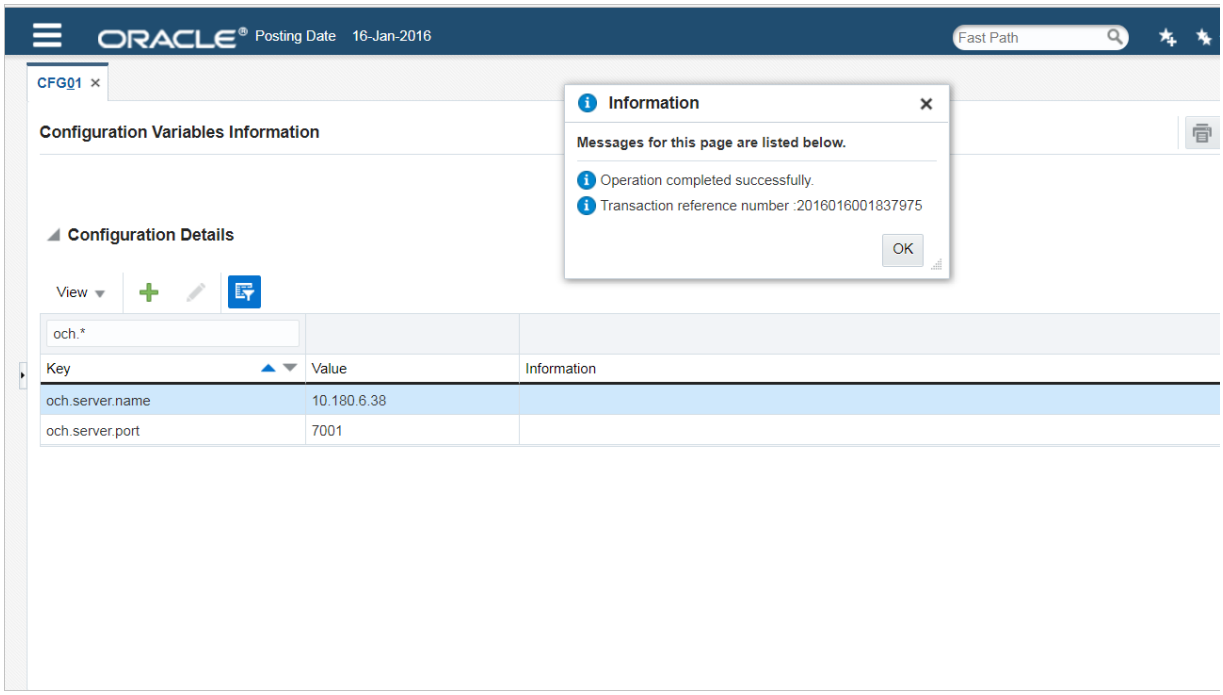
   och.*

Figure 9–4 Search och.*



5. Update the server IP and port values. Click **Ok.**

Figure 9–5 Update Server IP and Port Values



9.2 OCH Customizations for OBP Integration

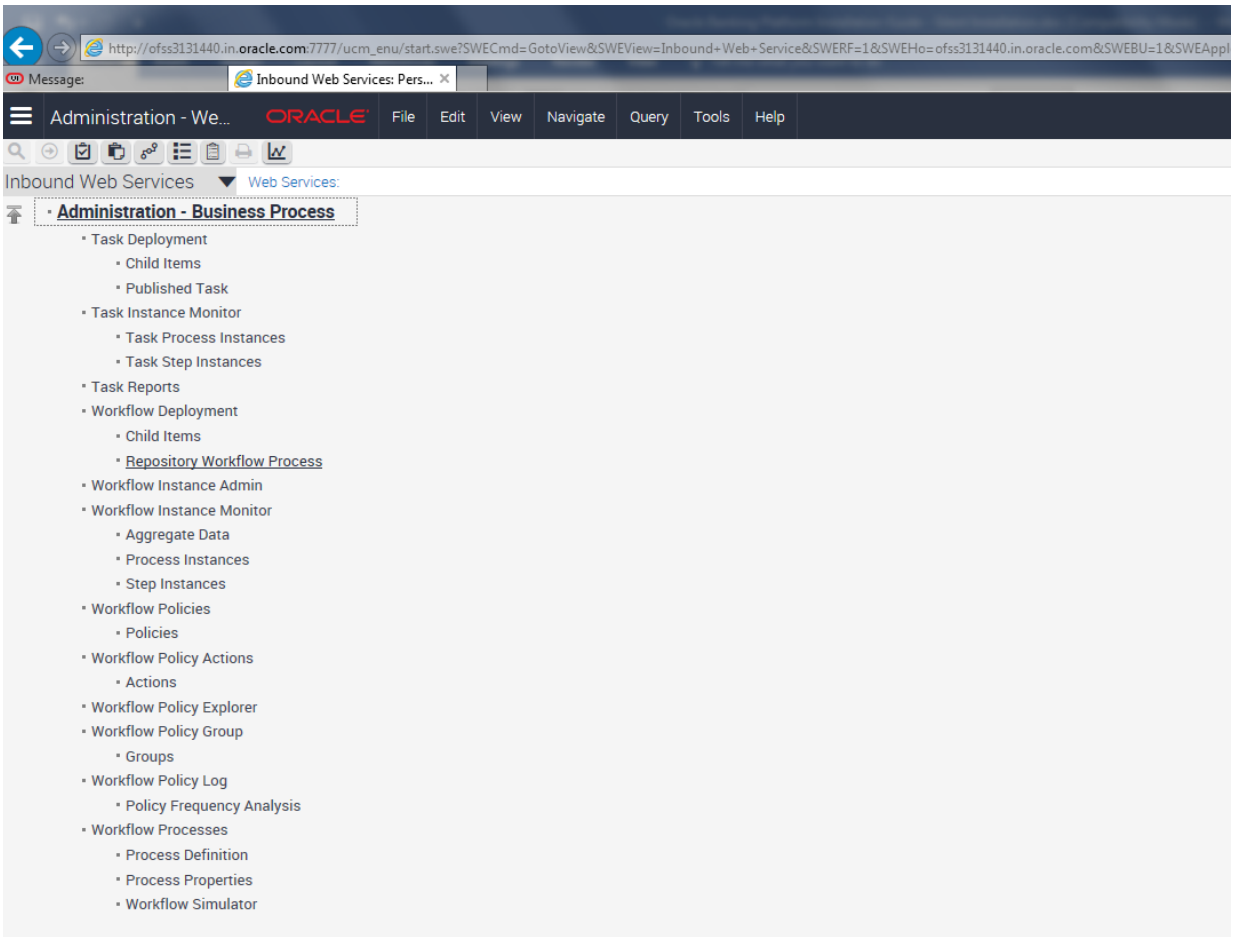
Certain customizations are required in Oracle Customer Hub for integration with OBP. The Post Installation steps for configuring them are explained the sections below.

9.2.1 Webservices

The following steps activate the workflows, following which authentication is set for all the Inbound Web Services:

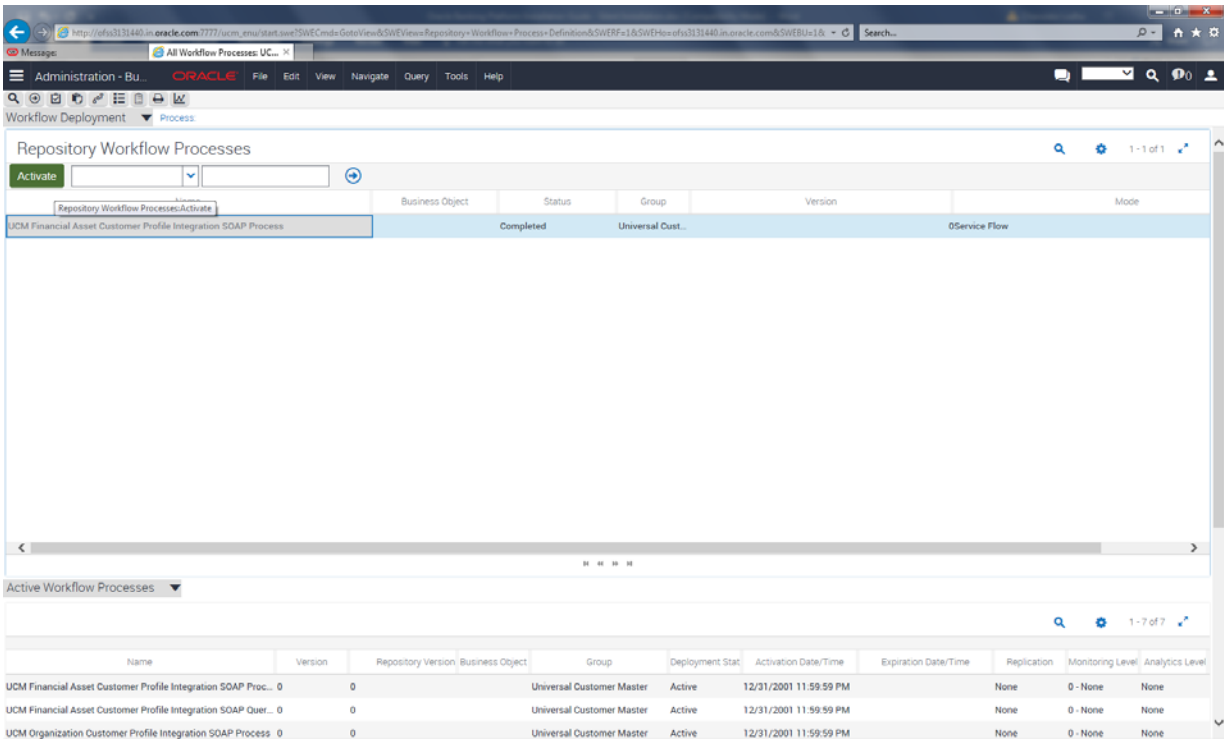
1. Navigate to Application --> Site Map.
2. Navigate to Administration - Business Process page.

Figure 9–6 Administration - Business Process



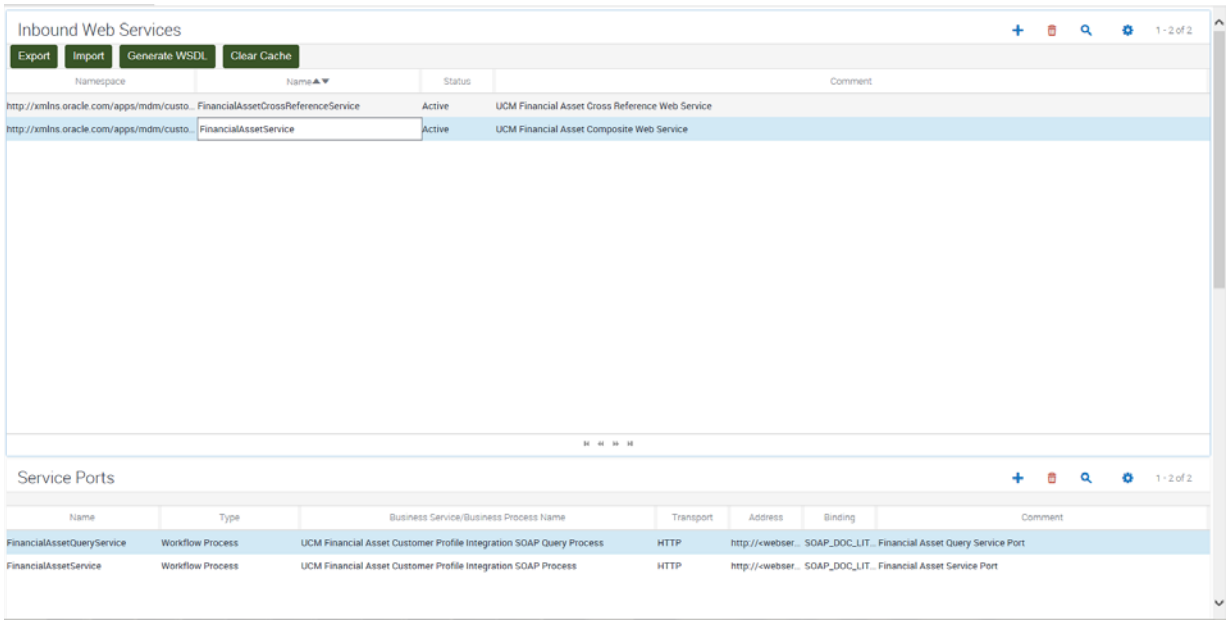
3. Navigate to Workflow Deployment View --> Repository Workflow Process.
4. Query (Alt+Q) for the following workflows:
   - UCM Financial Asset Customer Profile Integration SOAP Process
   - UCM Financial Asset Customer Profile Integration SOAP Query Process
   - UCM Organization Customer Profile Integration SOAP Process
   - UCM Organization Customer Profile Integration SOAP Query Process
   - UCM Person Customer Profile Integration SOAP Process
   - UCM Person Customer Profile Integration SOAP Query Process
   - UCM Privacy Process
5. Click **Activate** to activate all the workflows (queried in the earlier step) by selecting the record.

Figure 9–7 Repository Workflow Process



6. Navigate to Administration Web Services --> Inbound Web Services.

Figure 9–8 Inbound Web Services

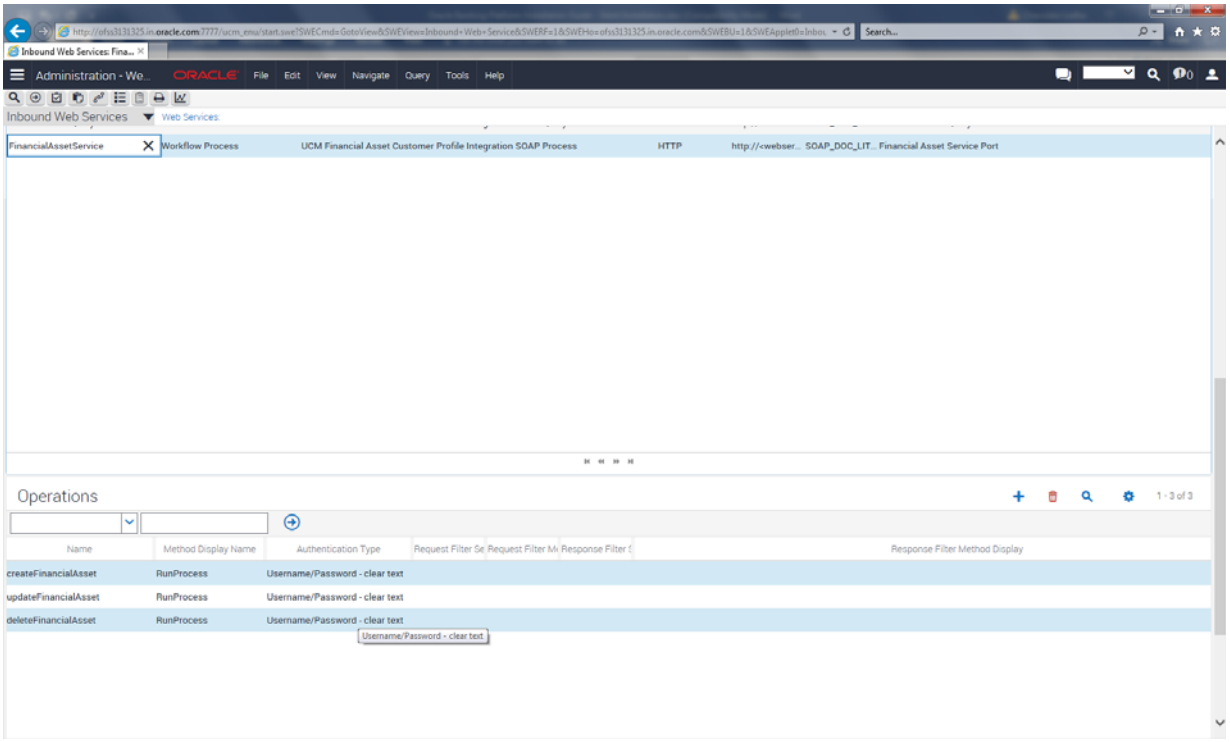


7. Set the Authentication for all the Services listed in step 9.
8. Query for the following:

- PersonService
- PersonCrossReferenceService
- PersonMatchService
- OrganizationService
- OrganizationMatchService
- OrganizationCrossReferenceService
- FinancialAssetService
- FinancialAssetCrossReferenceService

9. For each Inbound Web Service queried inthe earlier step, in the Operations section and set the authentication to **Username/Password - clear text.**

Figure 9–9 Operations - Set Authentication



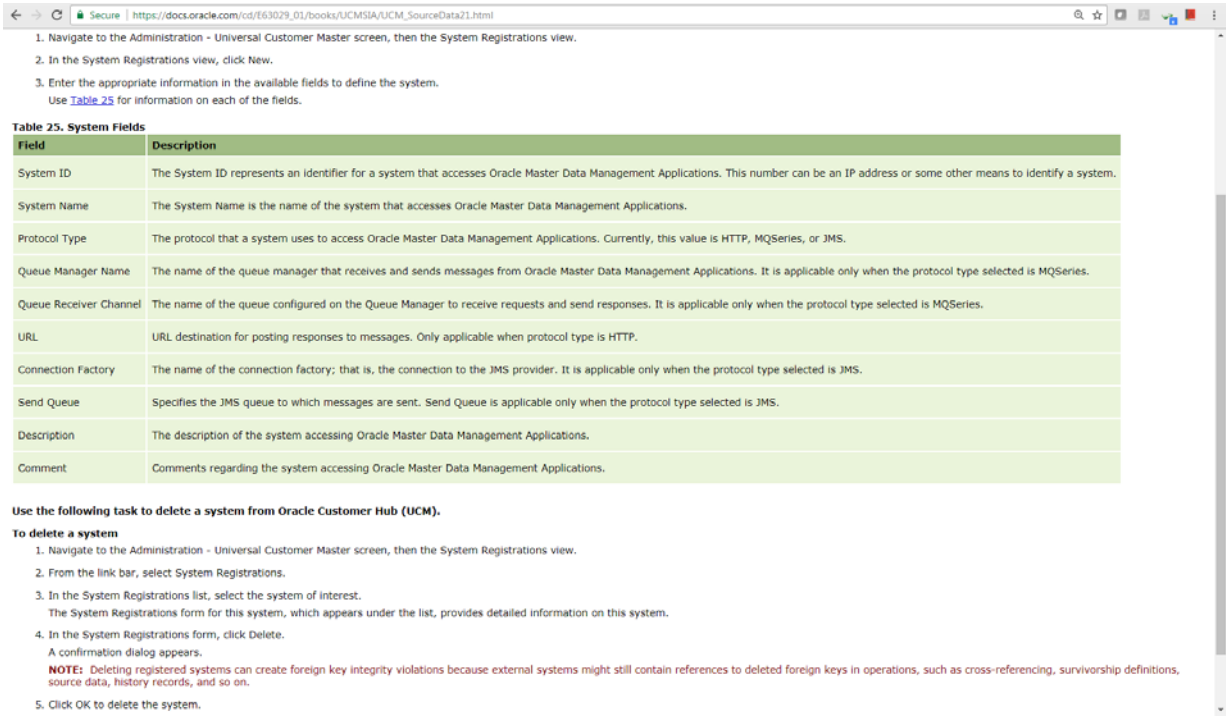
10. Click **Clear Cache.**

9.2.2 System Registration

To register a new system:

1. Navigate to the Administration - Universal Customer Master --> System Registrations view.
2. In the System Registrations view, click **New.**
3. Enter the appropriate information in the available fields to define the system.

Figure 9–10 System Registration



Secure | https://docs.oracle.com/cd/E63029_01/books/UCMSIA/UCM_SourceData21.html

1. Navigate to the Administration - Universal Customer Master screen, then the System Registrations view.
2. In the System Registrations view, click New.
3. Enter the appropriate information in the available fields to define the system.
   Use Table 25 for information on each of the fields.

Table 25. System Fields

Field	Description
System ID	The System ID represents an identifier for a system that accesses Oracle Master Data Management Applications. This number can be an IP address or some other means to identify a system.
System Name	The System Name is the name of the system that accesses Oracle Master Data Management Applications.
Protocol Type	The protocol that a system uses to access Oracle Master Data Management Applications. Currently, this value is HTTP, MQSeries, or JMS.
Queue Manager Name	The name of the queue manager that receives and sends messages from Oracle Master Data Management Applications. It is applicable only when the protocol type selected is MQSeries.
Queue Receiver Channel	The name of the queue configured on the Queue Manager to receive requests and send responses. It is applicable only when the protocol type selected is MQSeries.
URL	URL destination for posting responses to messages. Only applicable when protocol type is HTTP.
Connection Factory	The name of the connection factory; that is, the connection to the JMS provider. It is applicable only when the protocol type selected is JMS.
Send Queue	Specifies the JMS queue to which messages are sent. Send Queue is applicable only when the protocol type selected is JMS.
Description	The description of the system accessing Oracle Master Data Management Applications.
Comment	Comments regarding the system accessing Oracle Master Data Management Applications.

Use the following task to delete a system from Oracle Customer Hub (UCM).

To delete a system

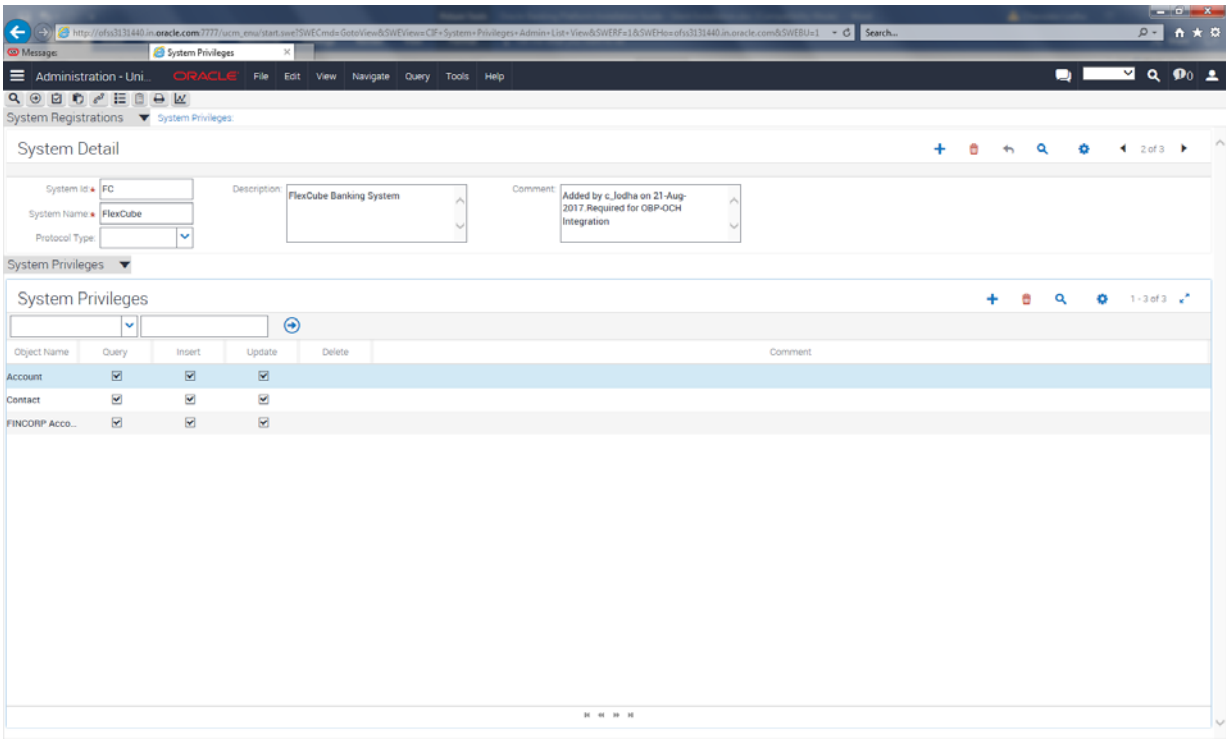
1. Navigate to the Administration - Universal Customer Master screen, then the System Registrations view.
2. From the link bar, select System Registrations.
3. In the System Registrations list, select the system of interest.
   The System Registrations form for this system, which appears under the list, provides detailed information on this system.
4. In the System Registrations form, click Delete.
   A confirmation dialog appears.
   NOTE: Deleting registered systems can create foreign key integrity violations because external systems might still contain references to deleted foreign keys in operations, such as cross-referencing, survivorship definitions, source data, history records, and so on.
5. Click OK to delete the system.

9.2.3 Set System Privileges

To set a system's privileges:

1. Navigate to the Administration - Universal Customer Master --> System Registrations view.
2. From the Systems Registrations list, select the system of interest, and click the link in the **System ID** field.
3. From the System Detail view, click the System Privileges tab.
4. In the System Privileges view, click **New.**

Figure 9–11 System Detail



9.2.4 Seed LOV Addition

This section explains the procedure to add seed data to LOV.

The steps are as follows:

1. Navigate to Administrative - Data --> List of Values.
2. Query for the LOV Type.
3. Create a new record.

   OBP's Code maps to -> Language-Independent Code (LIC) of OCH

   OBP's Display Value maps to -> Display Value of OCH.
4. Add the following:

   Type (eg. CONTACT_TYPE)

   Display Value (eg: Individual)

   Language Independent Code (eg: IND)

   Language Name :¿ English-American¿

   Order (put a numeric value*)

   Active (It¿s a checkbox. So, mark it as active)

   *Order is an Optional field. But some picklist may have search spec on Order.

   Eg : [Order By]<3

   It is recommended to put the value of order as the next number in the sequence or refer the picklist definition for the valid range of order for that LOV Type in Picklist Definition in Siebel Tools.

5. After all the values get added, click **Clear Cache.**

9.3 OBP related Customizations Required in OCH

This section provides details about OBP related customizations required in OCH.

9.3.1 Account Type field addition in LS Product Form Applet More Info Applet

Following are the steps to set the field Account Type of FINCORP Account through UI:

1. Launch the Siebel Tool.
2. In the Object Explorer, select the object Applet.
3. Query for the applet LS Product Form Applet More Info. Note that this is same applet where the customer is suggested to set the field Category for their usage.
4. Select the applet record, right-click and select **Lock Object.**
5. Expand the Applet tree in the object explorer and select **Applet Web Template.**
6. Select the record with name Edit in the list of displayed records at second level.
7. Right-click and select **Edit Web Layout.**

   The applet's form layout is displayed.
8. From the Controls/Columns pane, identify the controls with the name FINS Product Type.

   There should be two records with names as FINS Product Type, and FINS Product Type Label. One refers to control and the other refers to Caption.
9. Drag the two controls on to the applet at any desired space of customer's choice. Note that the controls should not overlap each other.
10. Close the web layout by clicking the X mark on the window. The system prompts to save the changes.
11. Select **Yes.**

    The web layout closes and displays the applet details again.
12. Re-query the applet and compile the changes on to the SRF.
13. Bring down the services in the server, and replace the SRF.
14. Restart the services and test.

9.4 Changing the LOV from COUNTRY to COUNTRY_CODE for UCM Country of Incorporation

This section provides information on changing the picklist for UCM Country of Incorporation field in Account BC.

- Account BC
- Pick List Country NXG

To change the picklist:

1. Launch Siebel Tools.
2. In the Object Explorer, select the object Project.

3. Right-click the record pane and select **New Record** to create new project if NXG is not present already.
4. Provide the name as NXG and set the property Locked to True.
5. Save the record by stepping off the record or Ctrl + S.
6. In Object Explorer, click the object pick list. It should display some list of available record.
7. Right-click the record pane and select **New Record.** An empty record is created in the record pane.
8. Enter the new record details as follows:

Table 9–1 New Record Details

Entity	Value	Comments
Name	PickList Country NXG	Any name of customer's choice
Project	NXG	Any project of customer's choice. Preferably, the same project name, which is used for custom repository can be provided.
Bounded	TRUE	Should be checked
Static	TRUE	Should be checked
Business Component	List Of Values	Should be mentioned as is
No Delete, No Insert, No Merge, No Update	TRUE	Should be checked
Type Field	Type	Should be mentioned as is
Type Value	COUNTRY_CODE	Should be mentioned as is

   a. Save the record by stepping off the record or Ctrl + S.

9. Query the business component in which the customer wants this picklist to be used.

   The BC name is **Account.**

10. Expand this BC in the object explorer and click its field entity.
11. Query for the field UCM Country of Incorporation.
12. Select UCM Country of Incorporation field and perform the following changes in it.

Table 9–2 Picklist Country NXG

Property Name	Value	Comments
Picklist	PickList Country NXG	The new picklist which is created.

9.5 Setting Hierarchical Picklist for Country and State

The Hierarchical Picklist changes are as follows:

- Personal Address BC
- CUT Address BC

- Pick List Country Code NXG
- Picklist State NXG

The detailed steps of configuring Hierarchical Picklists are as follows:

1. Launch Siebel Tools.
2. In the Object Explorer, select the object Project.
3. Right-click the record pane and select **New Record** to create new project if NXG is not present already.
4. Provide the name as NXG and set the property Locked to True.
5. Save the record by stepping off the record or Ctrl + S.
6. In Object Explorer, click the object pick list. It should display a list of available records.
7. Right-click the record pane and select **New Record.** An empty record is created in the record pane.
8. Provide the new record details as follows:

Table 9–3 New Record Details

Entity	Value	Comments
Name	PickList Country NXG	Any name of customer choice
Project	NXG	Any project of customer's choice. Preferably, the same project name, which is used for custom repository can be provided.
Bounded	TRUE	Should be checked
Business Component	PickList Hierarchical	Should be mentioned as is
No Delete, No Insert, No Merge, No Update	TRUE	Should be checked
Type Field	Type	Should be mentioned as is
Type Value	COUNTRY_CODE	Should be mentioned as is

9. Save the record by stepping off the record or Ctrl + S.
10. Right-click the record pane and select **New Record** again. An empty record is created in the record pane.
11. Provide the new record details as follows:

Table 9–4 New Record Details

Entity	Value	Comments
Name	PickList Country NXG	Any name of customer choice
Project	NXG	Any project of customer's choice. Preferably, the same project name, which is used for custom repository can be provided.
Bounded	TRUE	Should be checked
Business Component	PickList Hierarchical	Should be mentioned as is

Table 9–4 (Cont.) New Record Details

Entity	Value	Comments
No Delete, No Insert, No Merge, No Update	TRUE	Should be checked
Type Field	Type	Should be mentioned as is
Type Value	STATE_ABBREV	Should be mentioned as is

12. Save the record by stepping off the record or Ctrl + S.
13. In Object Explorer Click on the object Business Component. It should display some list of available record.s
14. Query the business component in which the customer want this Picklist to be used.

    The BC names are Personal Address and CUT Address.

    Do the steps from 15 to 19 for both the BCs: Personal Address and CUT Address.
15. Expand this BC in the object explorer and click its field entity.
16. Query for the field Country.
17. Select Country field and do the following changes in it.

Table 9–5 Picklist County NXG

Property Name	Value	Comments
Picklist	PickList Country NXG	The new picklist which is created in point 8 above.
Immediate Post Changes	TRUE	Set this property to true

    a. Expand this entity Field and select Pick Map. Create new records as mentioned below.

Table 9–6 Picklist County NXG

Name	Constrain	Picklist Field
Country	NULL	Value
State	NULL	NULL

18. Query for the field State.
19. Select State field and do the following changes in it.

Table 9–7 Picklist Country NXG

Property Name	Value	Comments
Picklist	PickList Country NXG	The new picklist which is created in Point 11 above.
Immediate Post Changes	TRUE	Set this property to true

    a. Expand this entity field and select Pick Map. Create new records as mentioned below.

Table 9–8 New Record Details

Name	Constrain	Picklist Field
Country	TRUE	Parent
State	NULL	Value

20. Create the LOV Types if the LOV Types are not present in their OCH:

    Seed Data:

    With the above mentioned repository changes it is assumed that the customer has two LOV types with names COUNTRY_CODE, and STATE_ABBREV in their custom repository.

    If these LOV types are non-existent and if you want to create these new LOV types then follow the below steps:

    Creating New LOV Types:

    The steps to create new List of Values are as follows:

    1. Launch Siebel UCM Application with Proper Credentials.
    2. Navigate to Site Map ->Administration Data->List of Values.
    3. In the displayed list applet create two new records with the details below.

Table 9–9 New record details

Type	Replication Level
COUNTRY_CODE	All
STATE_ABBREV	All

    In case, if the customer wants to use Siebel Provided LOV types then you can ignore the above section. However, they have to mention the correct LOV type, which they want to use in the Type Value field in the Siebel Repository section in Points 8 and 11.

21. Adding states for Australia to LOV:

    Creating New LOV Types:

    The steps to create new List of Values are as follows:

    a. Launch Siebel UCM Application with Proper Credentials.
    b. Navigate to Site Map ->Administration Data->List of Values.
    c. If Australia is not present in COUNTRY_CODE, then in the displayed list applet create new records (new LOV values) for COUNTRY as below:

Table 9–10 New LOV Values

Type	Display Value	Language -Independent Code	Language Name	Parent LIC	Order
COUNTRY_CODE	AU	Australia	English-American	NULL	13

    d. Similarly, create new records (new LOV values) for STATES as below:

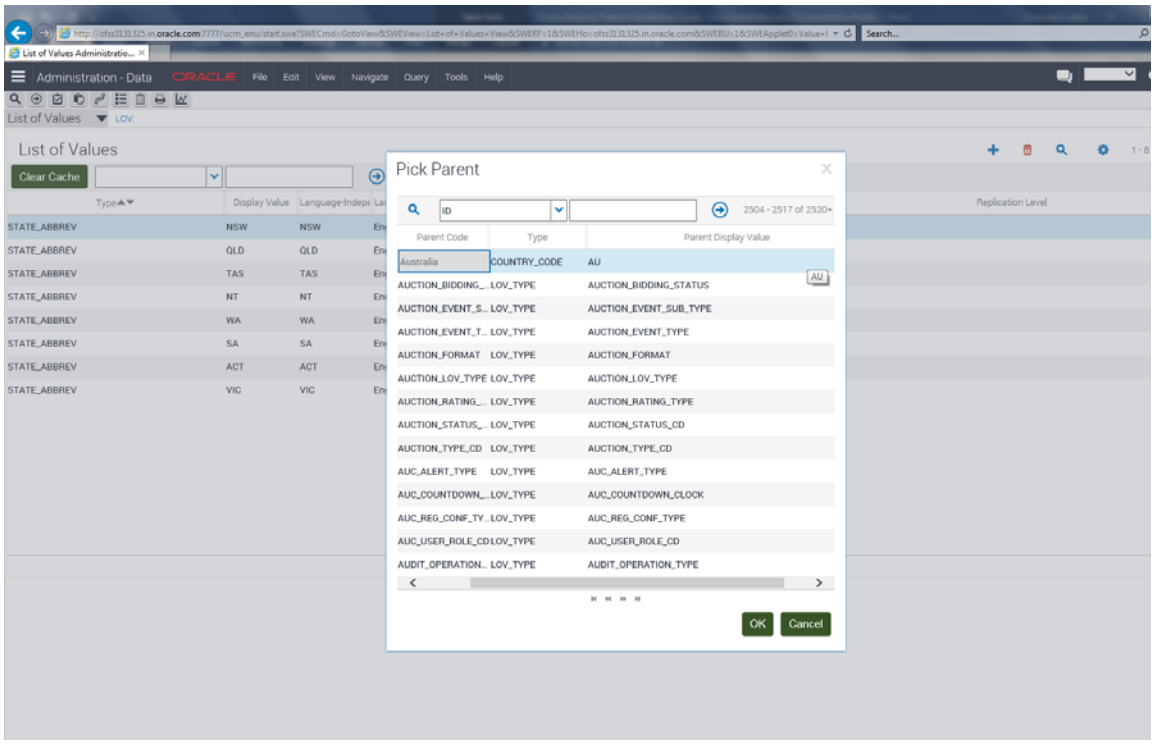
Table 9–11 New record details

Type	Display Value	Language -Independent Code	Language Name	Parent LIC	Order
STATE_ ABBREV	NSW	NSW	English-American	Australia	1
STATE_ ABBREV	NSW	NSW	English-American	Australia	2
STATE_ ABBREV	TAS	TAS	English-American	Australia	3
STATE_ ABBREV	NT	NT	English-American	Australia	4
STATE_ ABBREV	WA	WA	English-American	Australia	5
STATE_ ABBREV	SA	SA	English-American	Australia	6
STATE_ ABBREV	ACT	ACT	English-American	Australia	7
STATE_ ABBREV	VIC	VIC	English-American	Australia	8

Note that the above list is not final. The customer has to add the records as per their requirement. Only key point here is that the Parent LIC value should be mentioned correctly.

Select the Parent LIC whose Type property is COUNTRY_CODE and Parent Display Value is AU (first record as shown in the screenshot below).

Figure 9–12 Pick Parent



9.6 Change of Picklist for Relationship

The New Picklist details are :

- Asset Account Relation PickList NXG
- Asset Contact Relation PickList NXG

The steps are as follows:

1. Launch Siebel Tools.
2. In the Object Explorer, select the object Project.
3. Right-click the record pane and select **New Record** to create new project if NXG is not present already.
4. Provide the name as NXG. Set the property Locked to True.
5. Save the record by stepping off the record or Ctrl + S.
6. In Object Explorer, click the object Pick List. It should display a list of available records.
7. Right-click the record pane and select **New Record.** An empty record is created in the record pane.
8. Give the new record details as below:

Table 9–12 New Record Details

Entity	Value	Comments
Name	Asset Account Relation PickList NXG	Any name of customer's choice.

Table 9–12 (Cont.) New Record Details

Entity	Value	Comments
Project	NXG	Any project of customer's choice. Preferably, the same project name, which is used for custom repository can be provided.
Bounded	TRUE	Should be checked
Static	TRUE	Should be checked
Business Component	PickList Generic	Should be mentioned as is
No Delete, No Insert, No Merge, No Update	TRUE	Should be checked
Type Field	Type	Should be mentioned as is
Type Value	AUTO_ASSET_ ACCNT_REL	Should be mentioned as is

9. Save the record by stepping off the record or Ctrl + S.
10. Query the business component in which the customer want this Picklist to be used.

    The BC name is FINCORP Account.
11. Expand this BC in the object explorer and click its field entity.
12. Query for the field **Relationship.**
13. Select the **Relationship** field and do the following changes in it.

Table 9–13 Asset Account Relation PickList NXG

Property Name	Value	Comments
Picklist	Asset Account Relation PickList NXG	The new picklist which is created in Point 8 above

    a. Expand this entity field and select Pick Map. Create new records as mentioned below.

Table 9–14 Asset Account Relation PickList NXG

Name	Constrain	Picklist Field
Relationship		Value

14. Right-click the record pane and select **New Record.** An empty record will be created in the record pane.
15. Provide the new record details as below:

Table 9–15 New Record Details

Entity	Value	Comments
Name	Asset Account Relation PickList NXG	Any name of customer choice

Table 9–15 (Cont.) New Record Details

Entity	Value	Comments
Project	NXG	Any project of customer's choice. Preferably, the same project name, which is used for custom repository can be provided.
Bounded	TRUE	Should be checked
Static	TRUE	Should be checked
Business Component	PickList Generic	Should be mentioned as is
No Delete, No Insert, No Merge, No Update	TRUE	Should be checked
Type Field	Type	Should be mentioned as is
Type Value	AUTO_ASSET_CON_REL	Should be mentioned as is

16. Query the business component in which the customer want this Picklist to be used.

    The BC name is **FINCORP Account Contact.**

17. Expand this BC in the object explorer and click its field entity.
18. Query for the field Type.
19. Select Type field and do the following changes in it.

Table 9–16 Asset Contact Relation Picklist NXG

Property Name	Value	Comments
Picklist	Asset Contact Relation PickList NXG	The new picklist which is created in Point 15 above.

a. Expand this entity Field and select Pick Map. Create new records as mentioned below.

Table 9–17 Picklist County NXG

Name	Constrain	Picklist field
Type		Value

10

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:

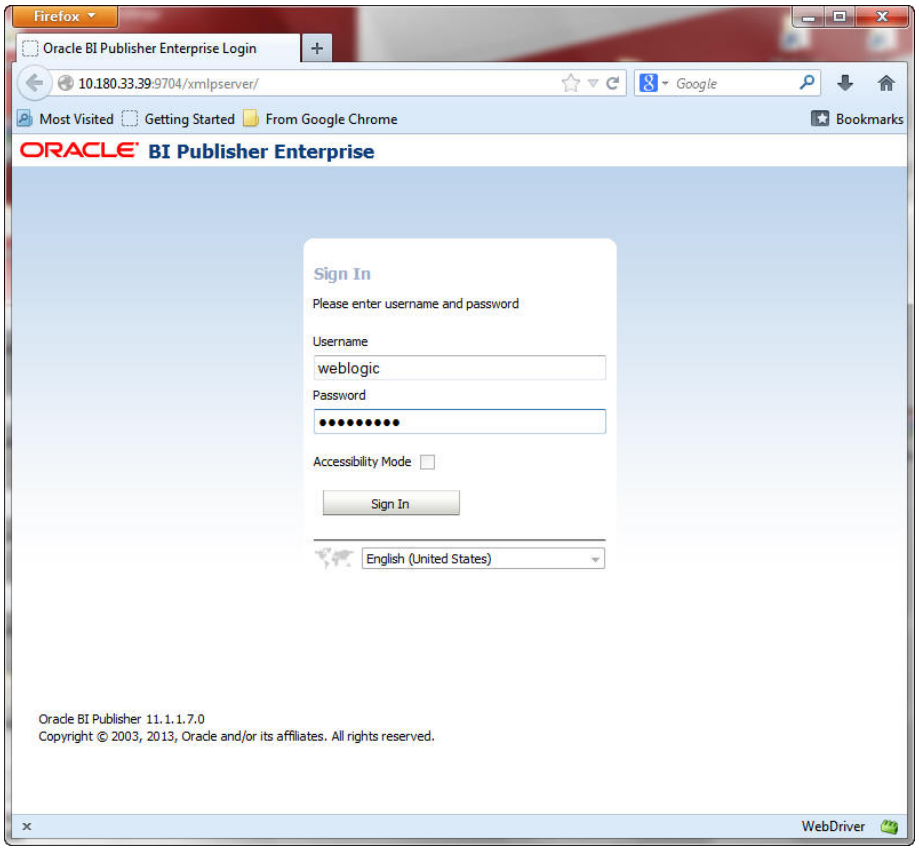
1. Open a browser and navigate to:

   <BIP_SERVER_IP>:<BIP_SERVER_PORT>/xmlpserver

2. Log on using the following credentials:

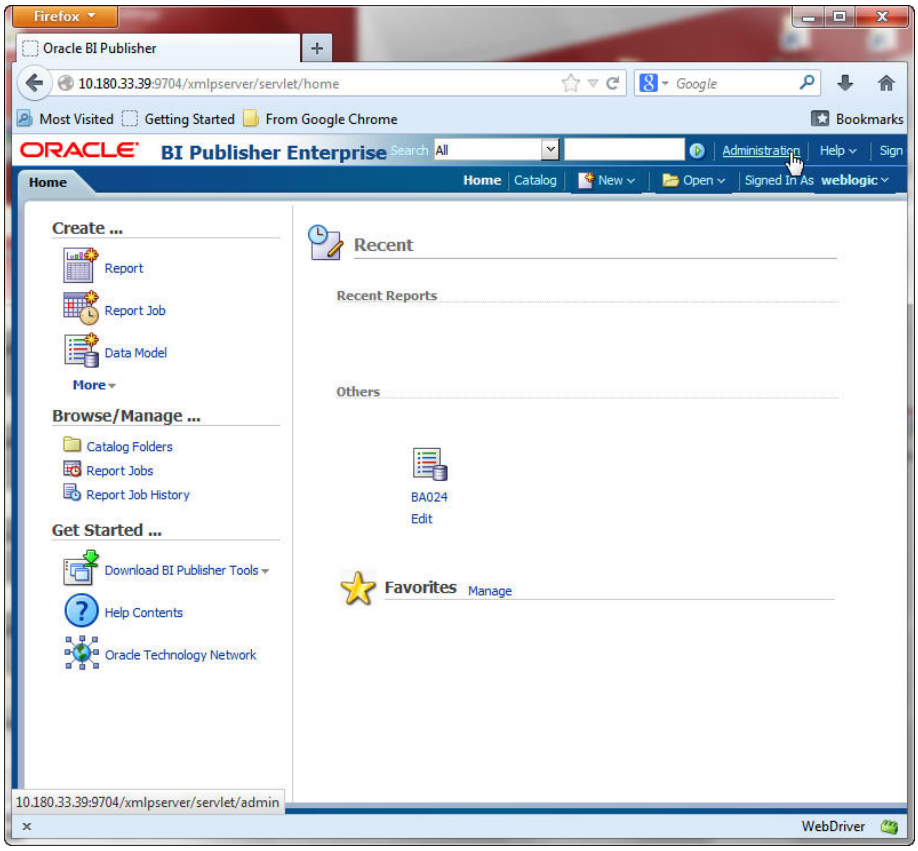
Username	<BIP_SERVER_USER>
Password	<BIP_SERVER_PSWD>

Figure 10–1 BIP Server Console Login



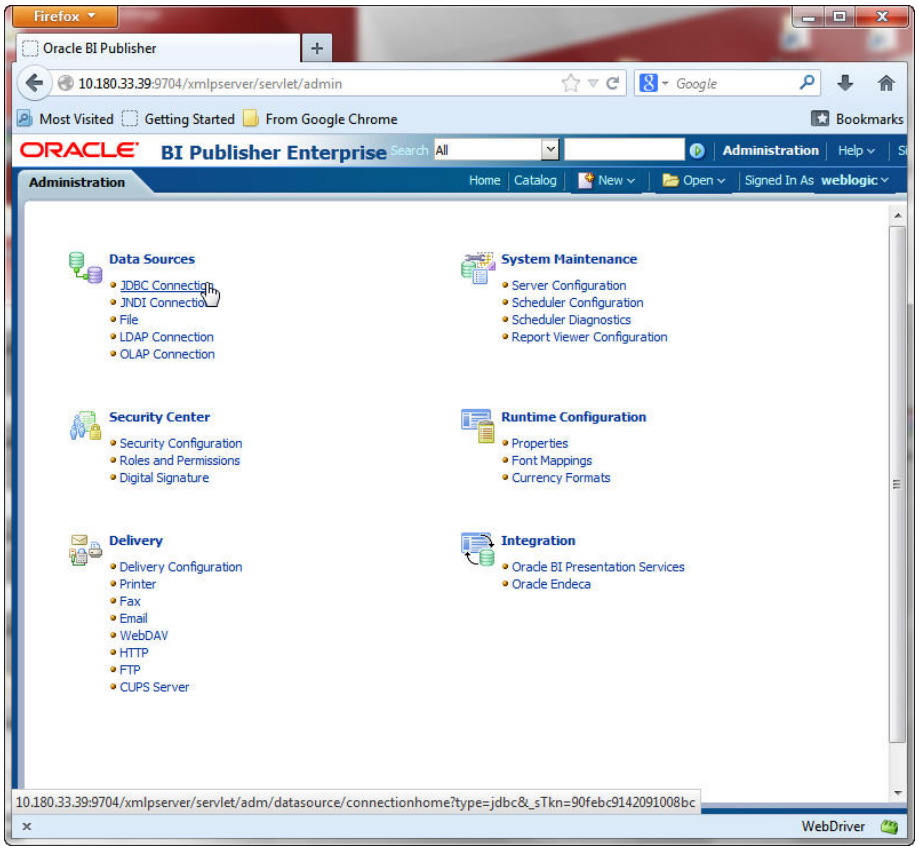
3. After logging in, click **Administration**.

Figure 10–2 BIP Administration



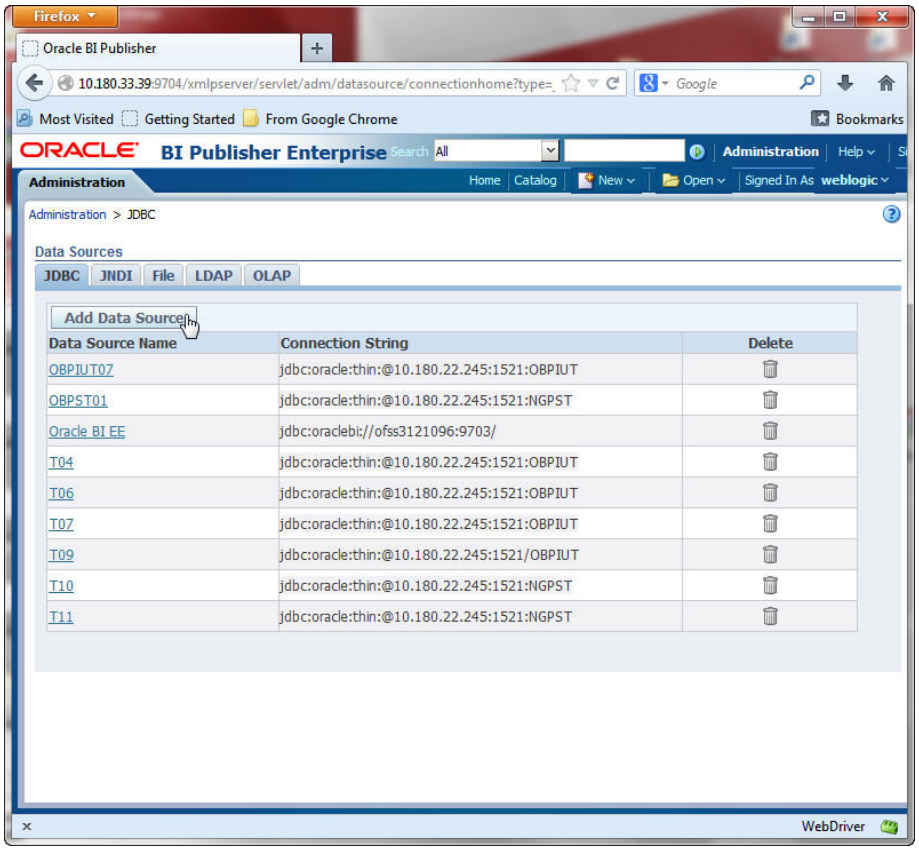
4. Click **JDBC Connection** under **Data Sources**.

Figure 10–3 BIP JDBC Connection



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

Figure 10–4 BIP - Add Data Source



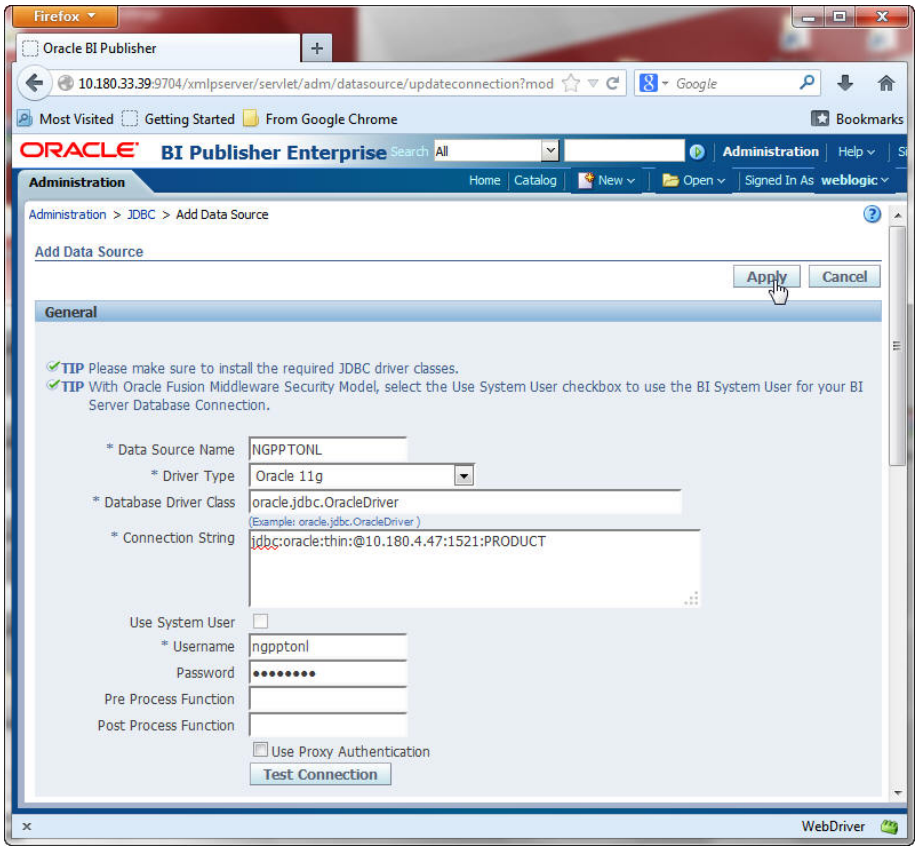
6. Fill up the following fields:

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



11

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:

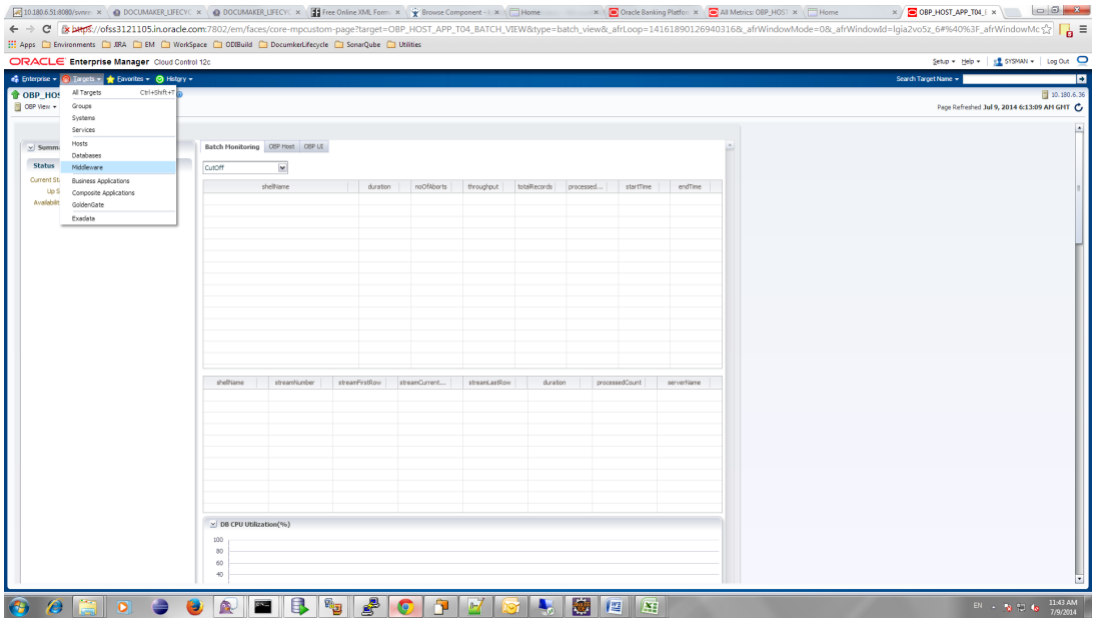
1. Add the EM agents to the HOST, UI, SOA, OID, and HOST Database servers of the environment.
2. After adding the agents, create the middlewares for the servers.

   Following are the steps to create middlewares for the servers.

   a. Log on to the EM UI.

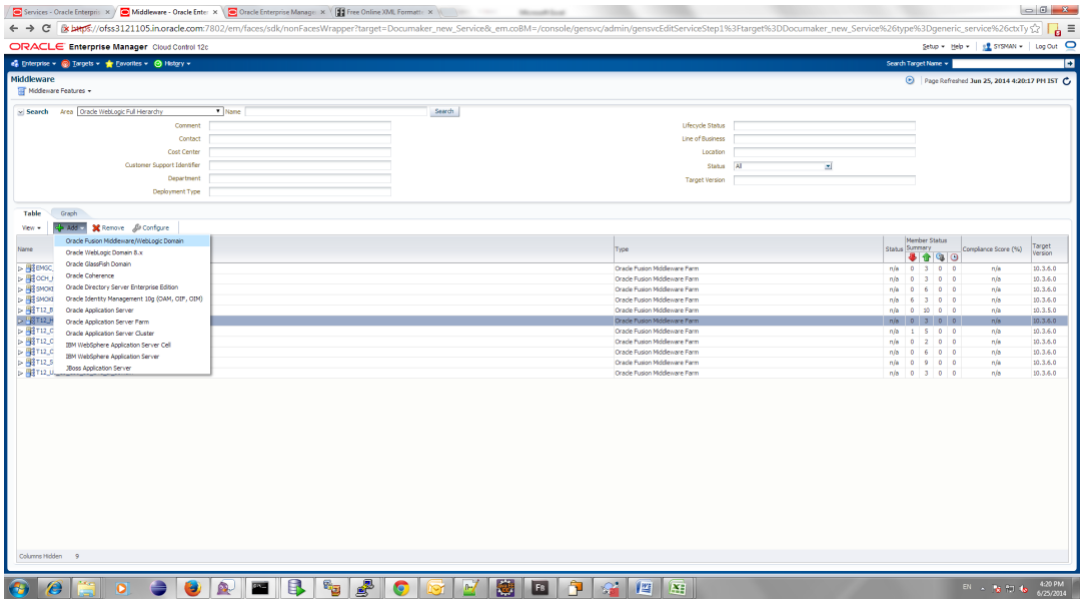
   b. Add a middleware from the **Target** tab.

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

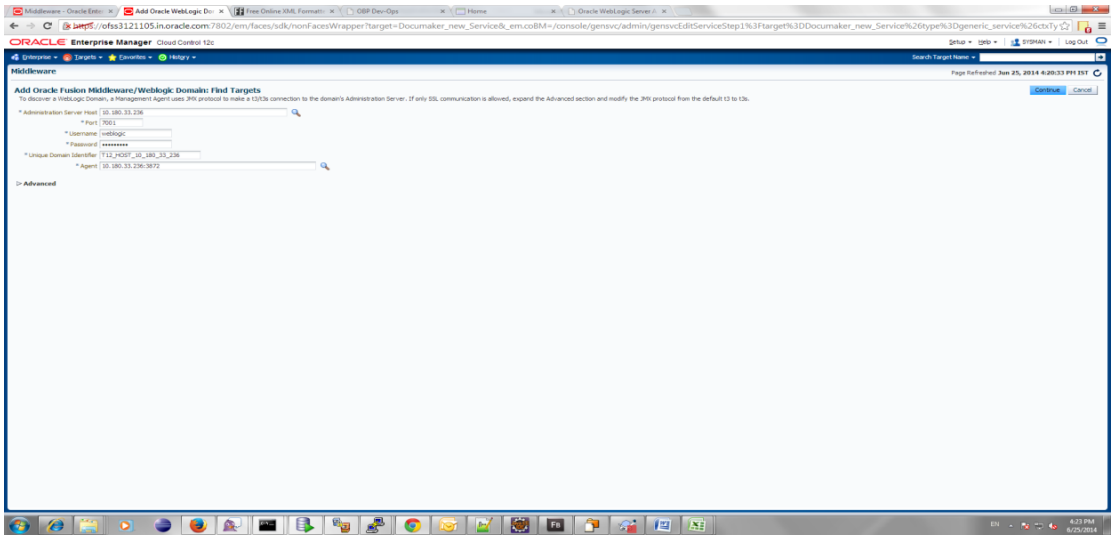
Username: weblogic

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.

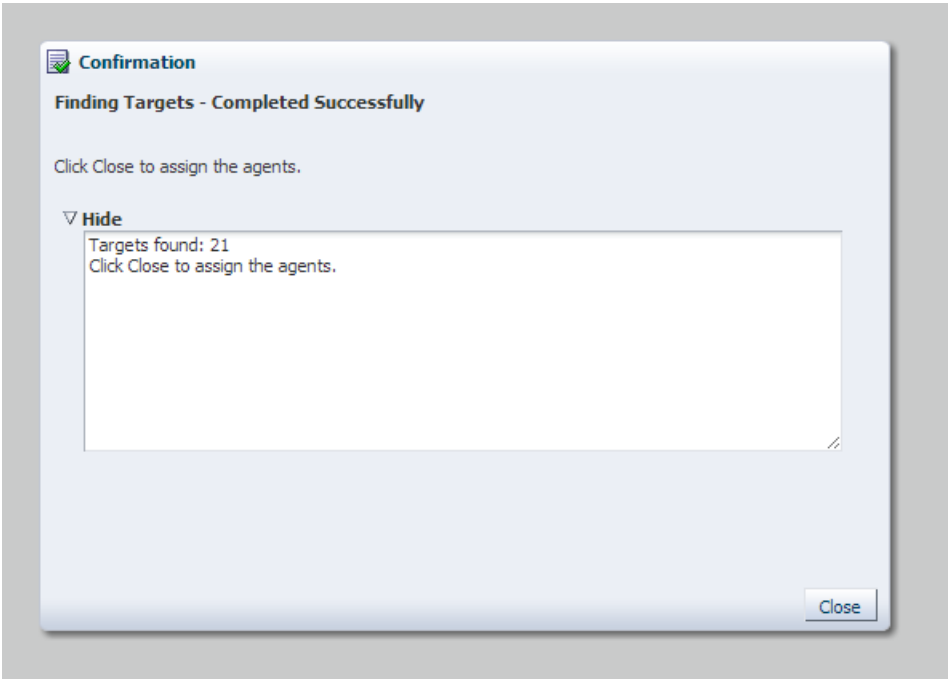
Figure 11–3 Enter Server Details



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.

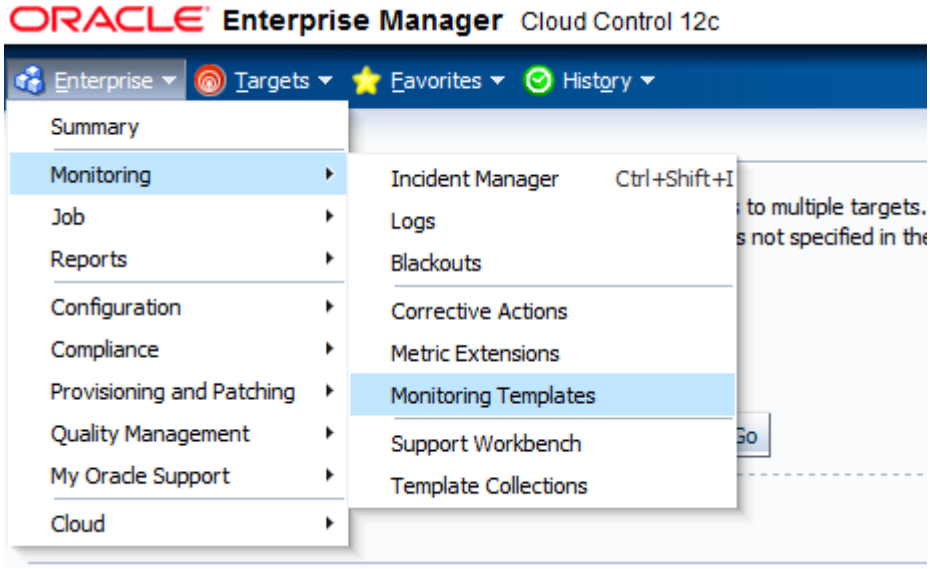
h. Click **Finish** to complete the middleware creation for that server.

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.

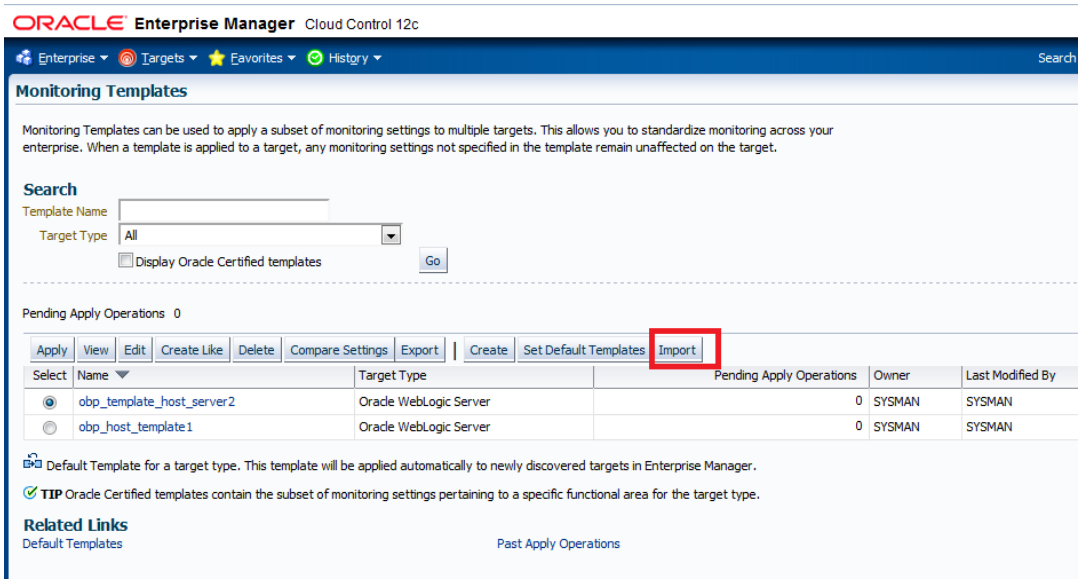
a. Navigate to Enterprise -> Monitoring -> Monitoring Templates.

Figure 11–5 Monitoring Templates



b. Select **Import**.

Figure 11–6 Select Import



The **Monitoring Templates** page appears.

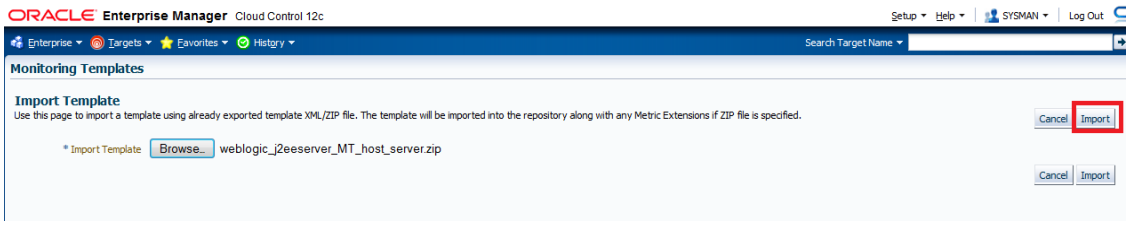
c. Select the zip file and click **Import**, to import the template.

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

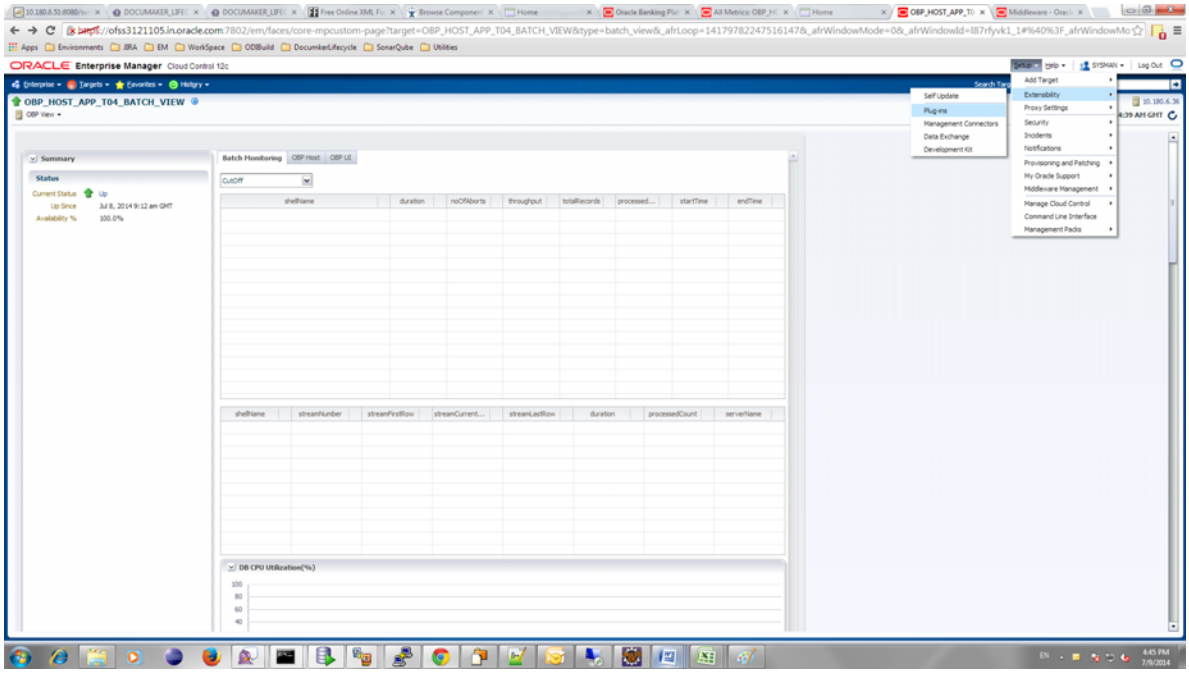


Figure 11–9 Undeploy Plugin - Select Management Agents

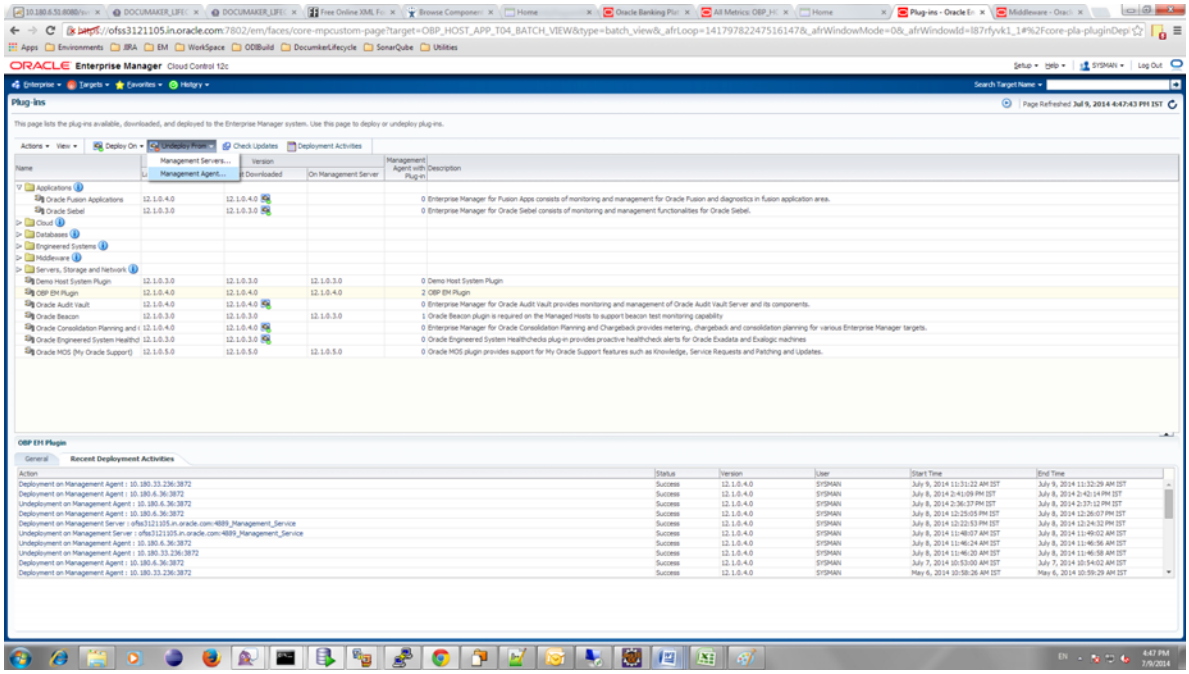
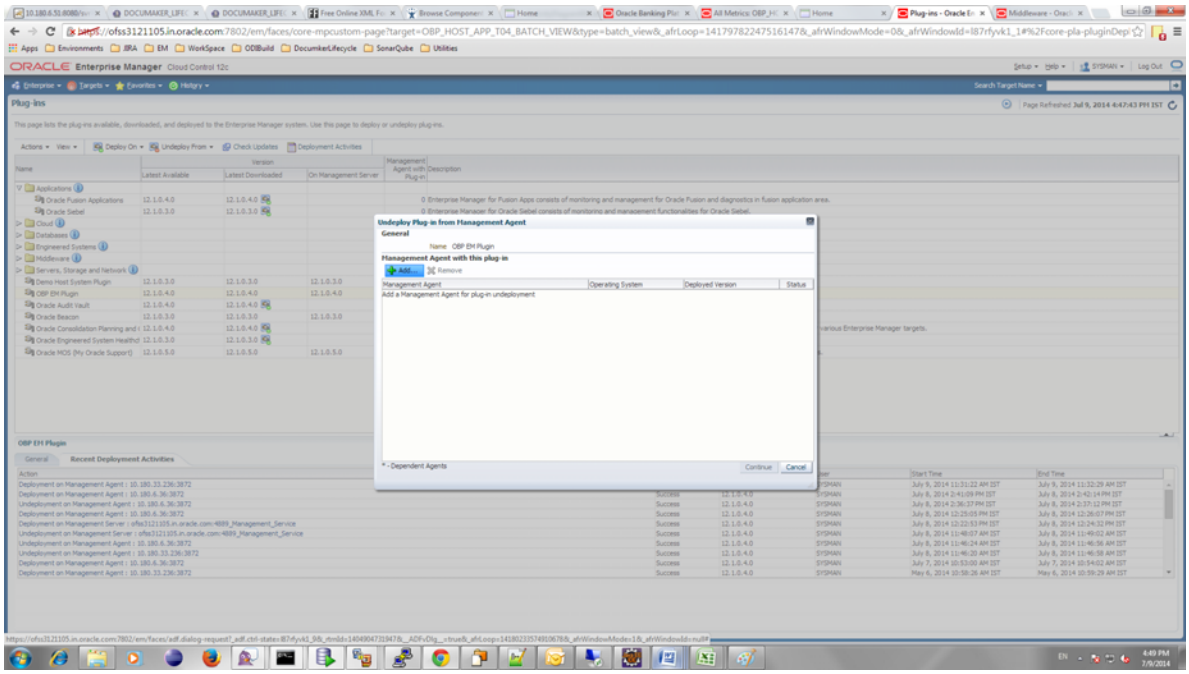
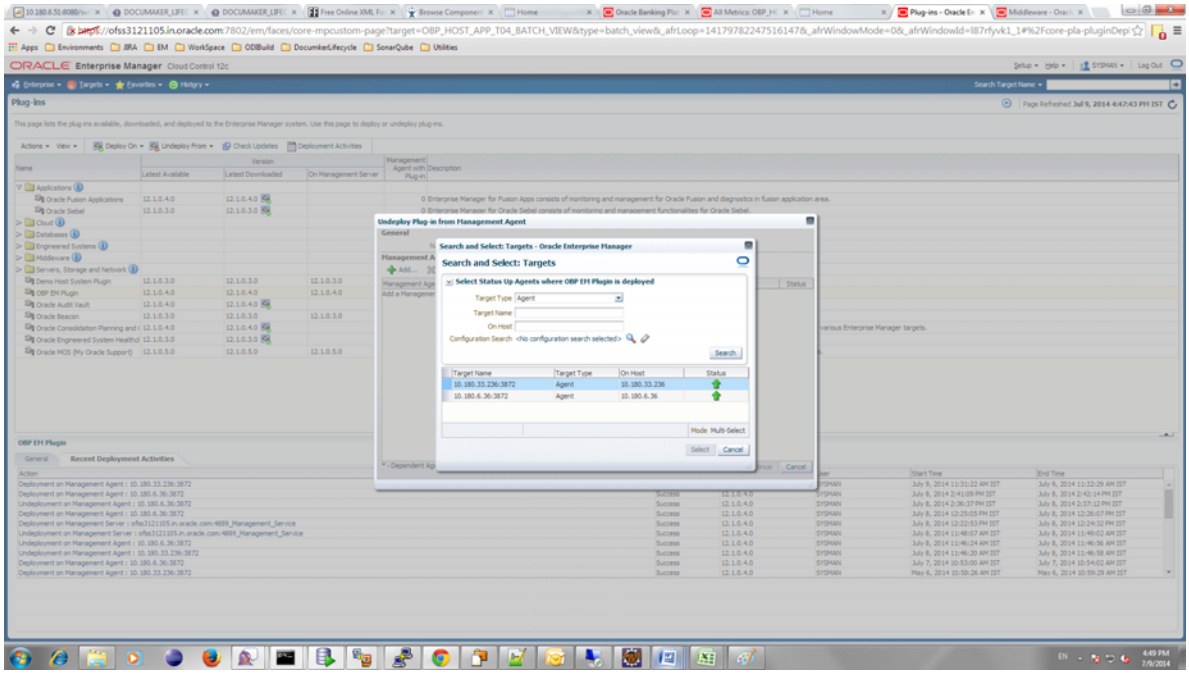


Figure 11–10 Undeploy Plugin - Click Add



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

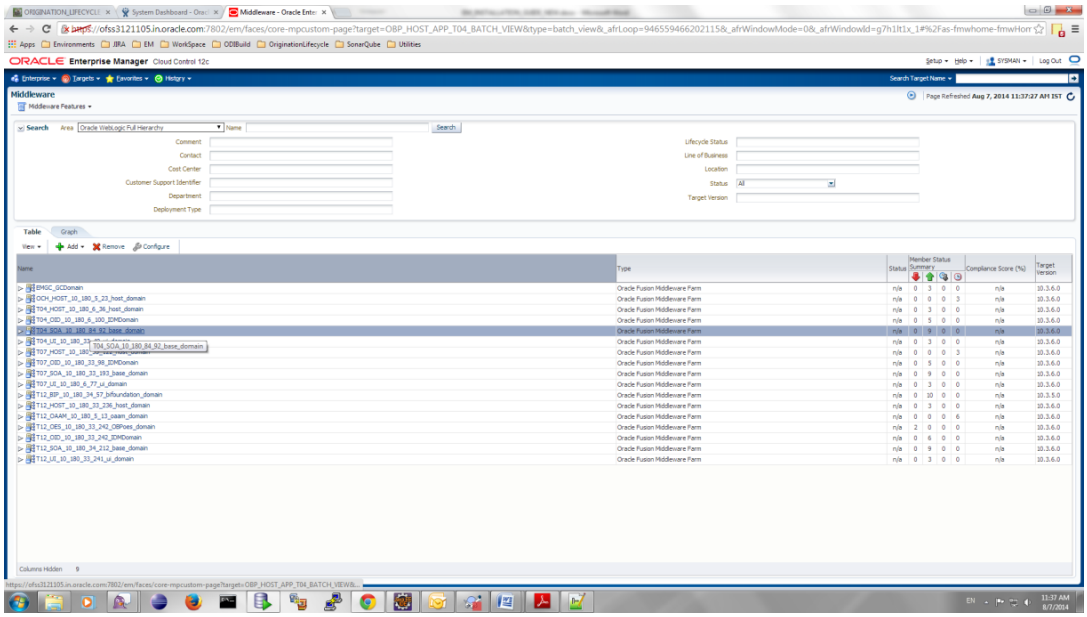
The folder `obp_em_view_script` has to be copied to the OMS (EM Server).

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:

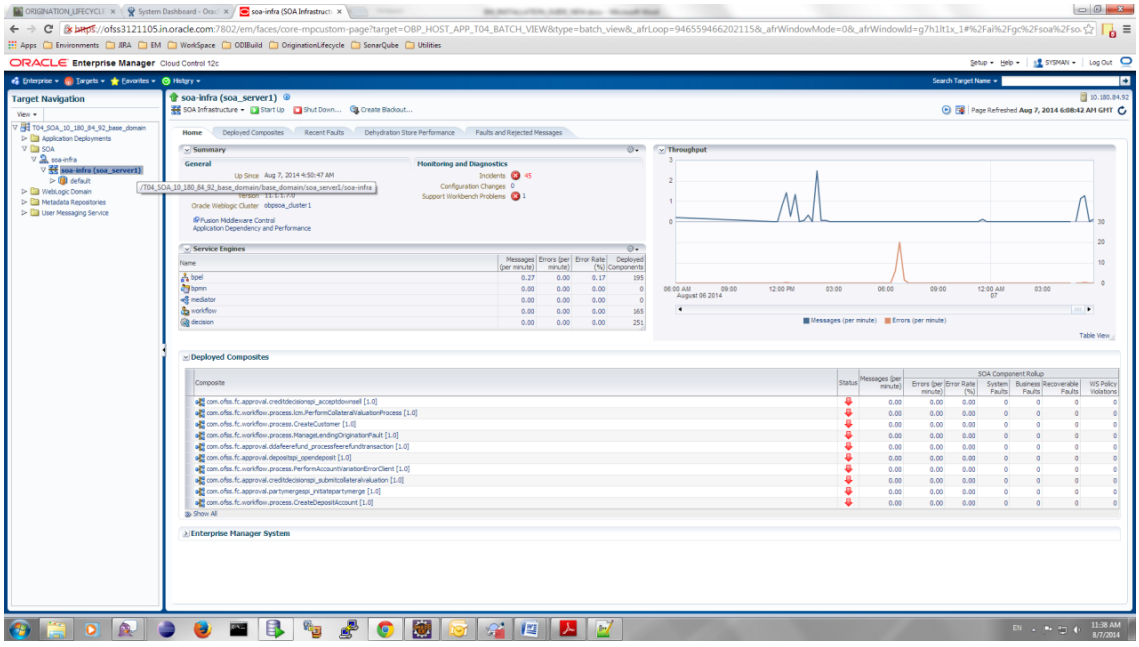
1. Navigate to the Middleware screen in EM.
2. Select the SOA middleware added.

Figure 11–12 Select the SOA Middleware



3. Navigate to the composites for the SOA middleware.

Figure 11–13 Composites for the SOA Middleware



4. Navigate to the `wlsoutput_soa.properties` file in the keys folder -> `obp_em_view_script/temp_files/`.
5. Add the composite names from the screen to `wlsoutput_soa.properties` file.
6. Check whether the entries in the file are present in the composite list of the middleware in the EM screen. If the entries are not present, remove them.

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.

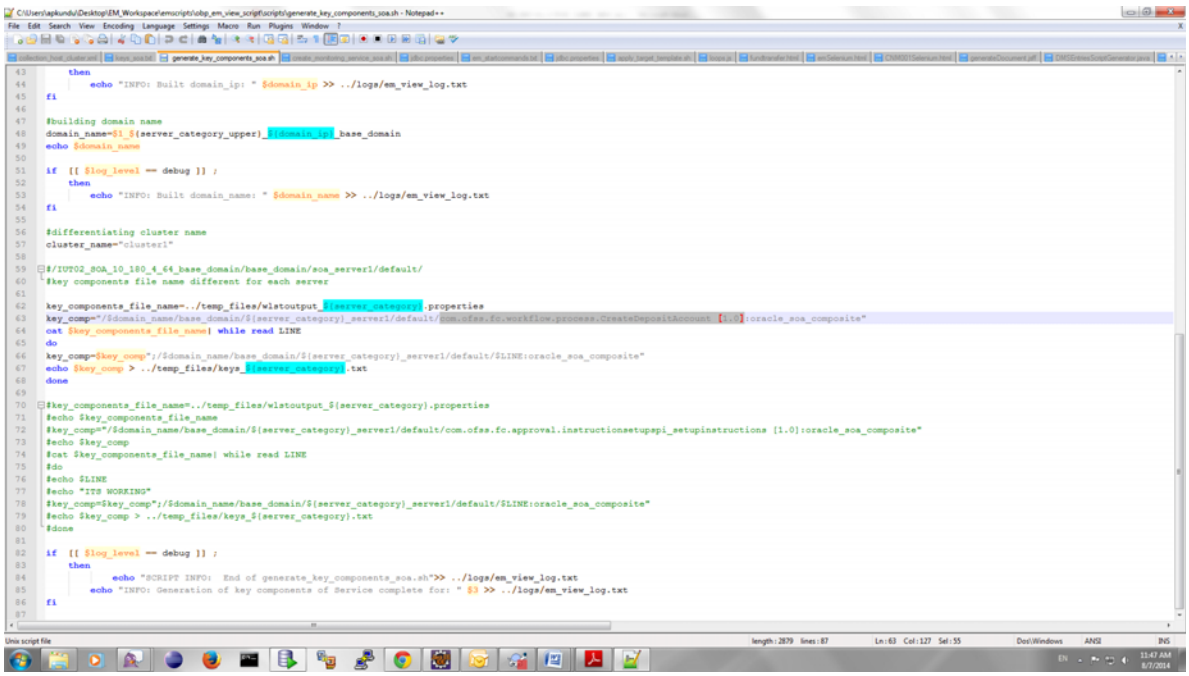
7. Open the `obp_em_view_script/scripts/generate_key_components_soa.sh` file and go to line 63.

   ```
   "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



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.

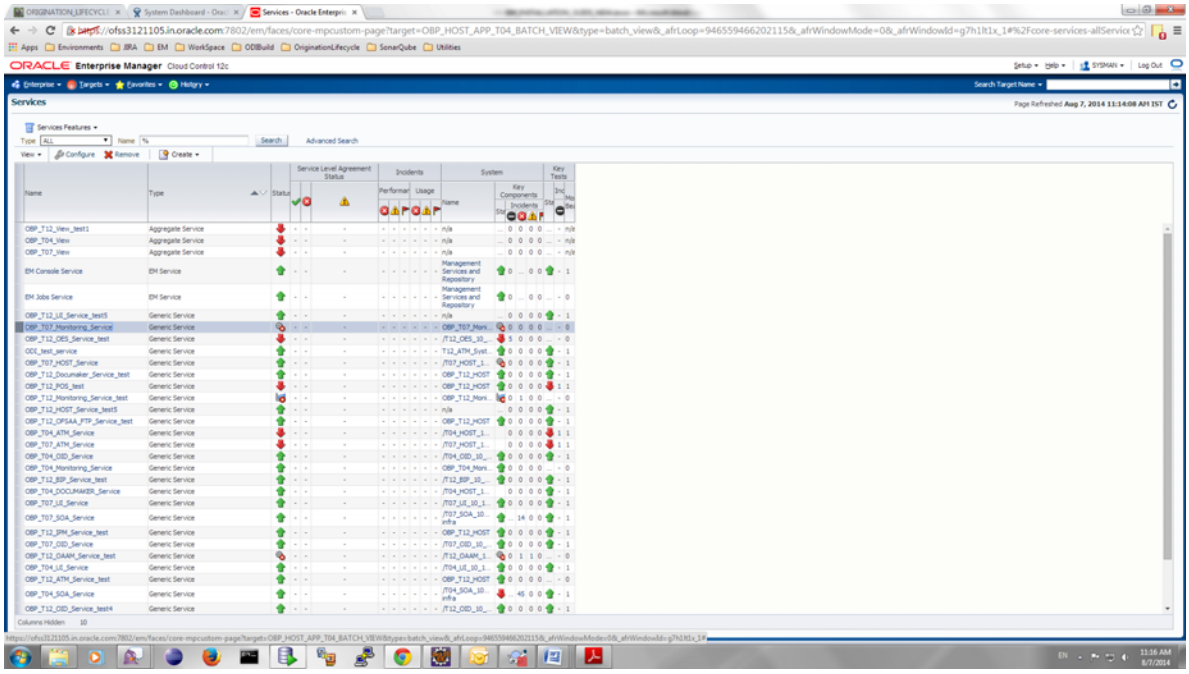
   ```
   ./em_view.sh -v "T04" "10.180.6.36" "10.180.33.49" "10.180.84.92"
   "10.180.6.100" "sysman" "welcome12c" "10.180.33.39" "9998"
   "slc01osa.us.oracle.com" "ofss3131443.in.oracle.com"
   ```

   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.

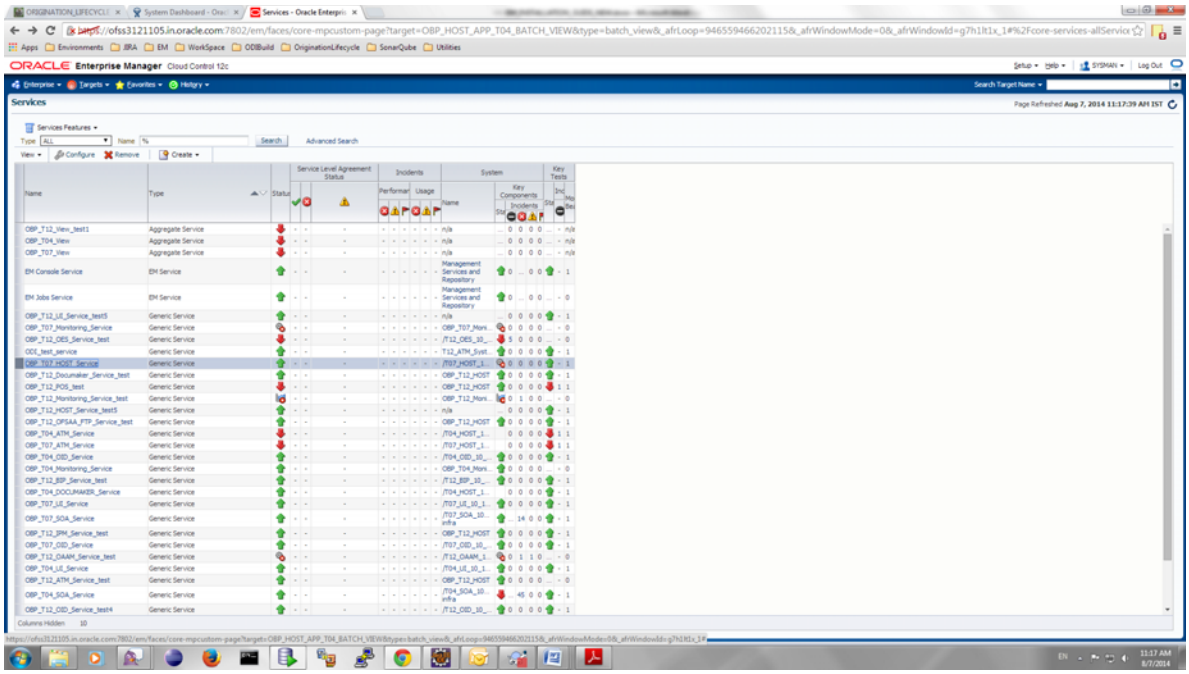
Example for a service:

```
OBP_T07_HOST_Service
```

To configure the systems manually, perform the following steps:

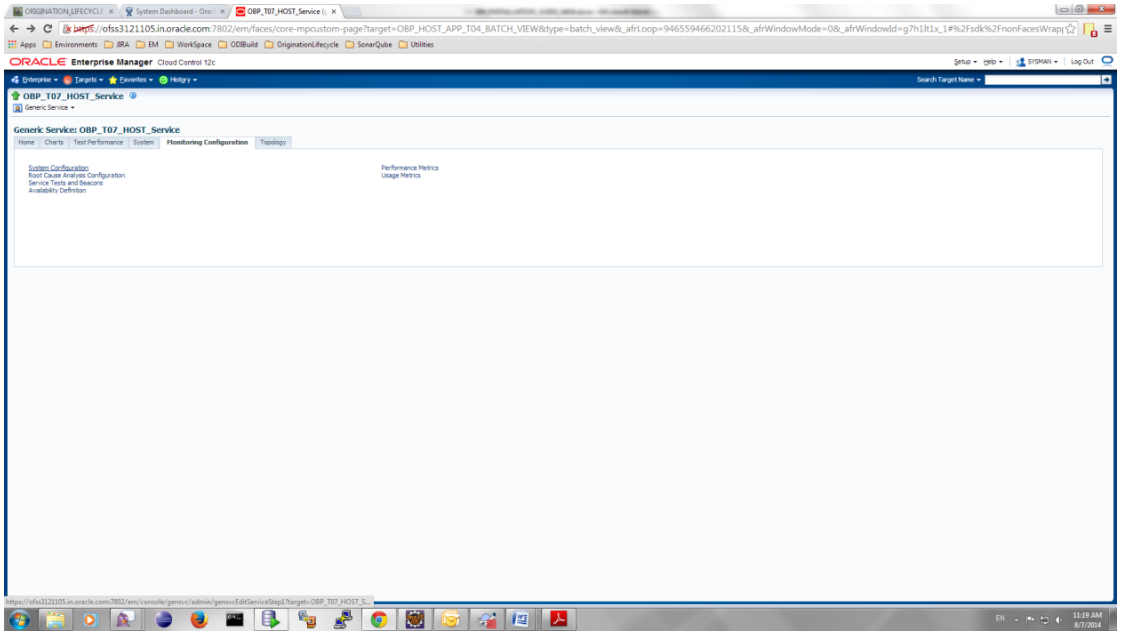
1. Select the service to configure.

Figure 11–16 Manual Configuration - Select Service



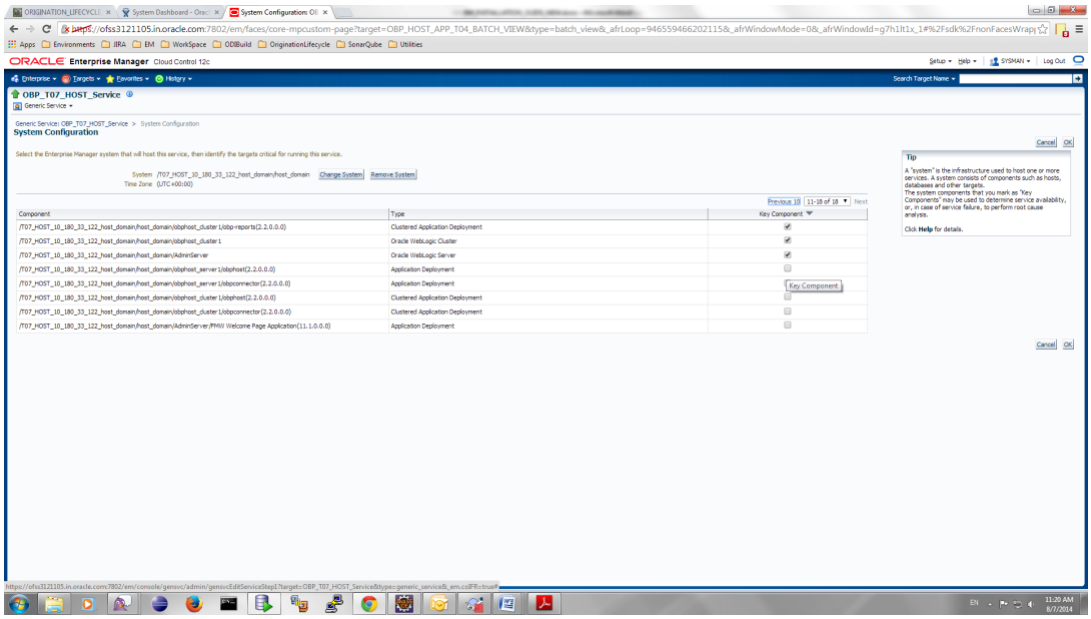
2. Navigate to Monitoring Configuration -> System Configuration.

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.

12

Post Installation Verification

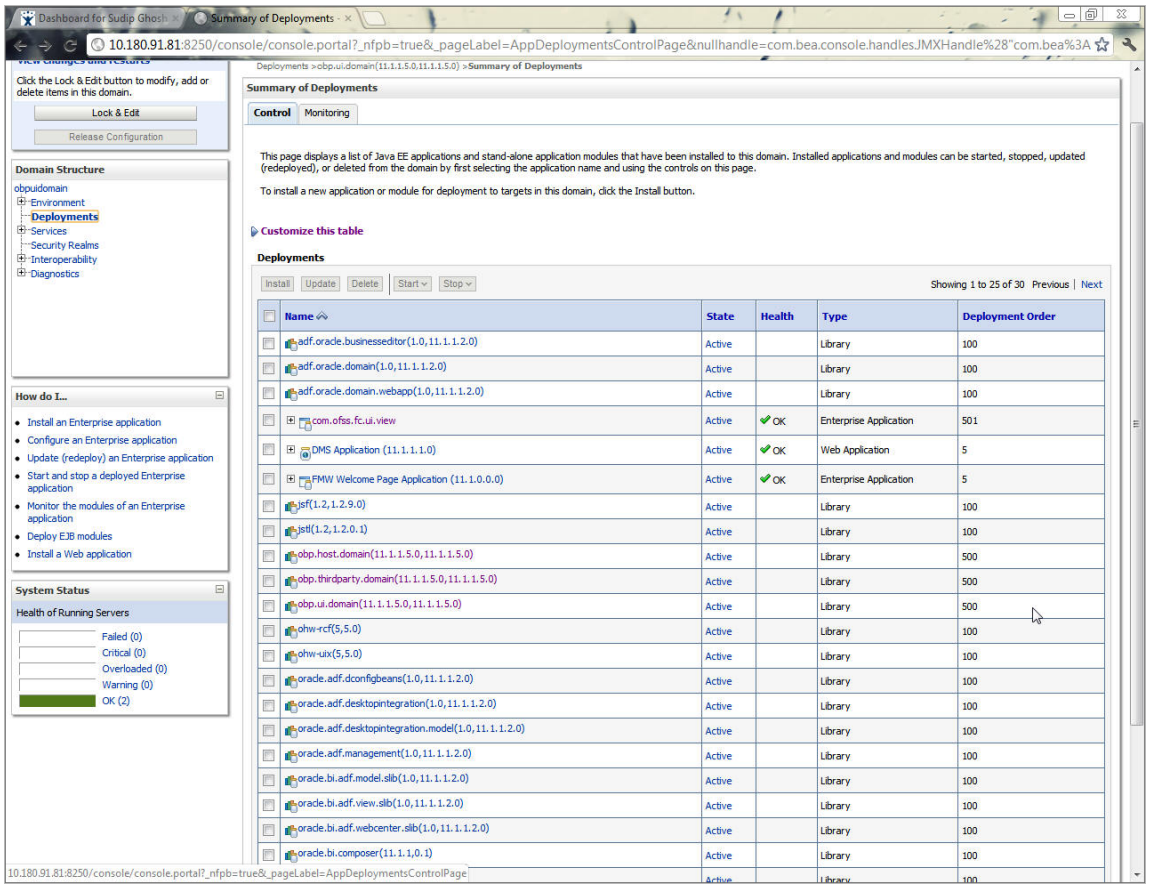
This chapter lists the steps required to verify the Oracle Banking Platform solution installation.

12.1 UI Domain Verification

To verify the UI domain installation:

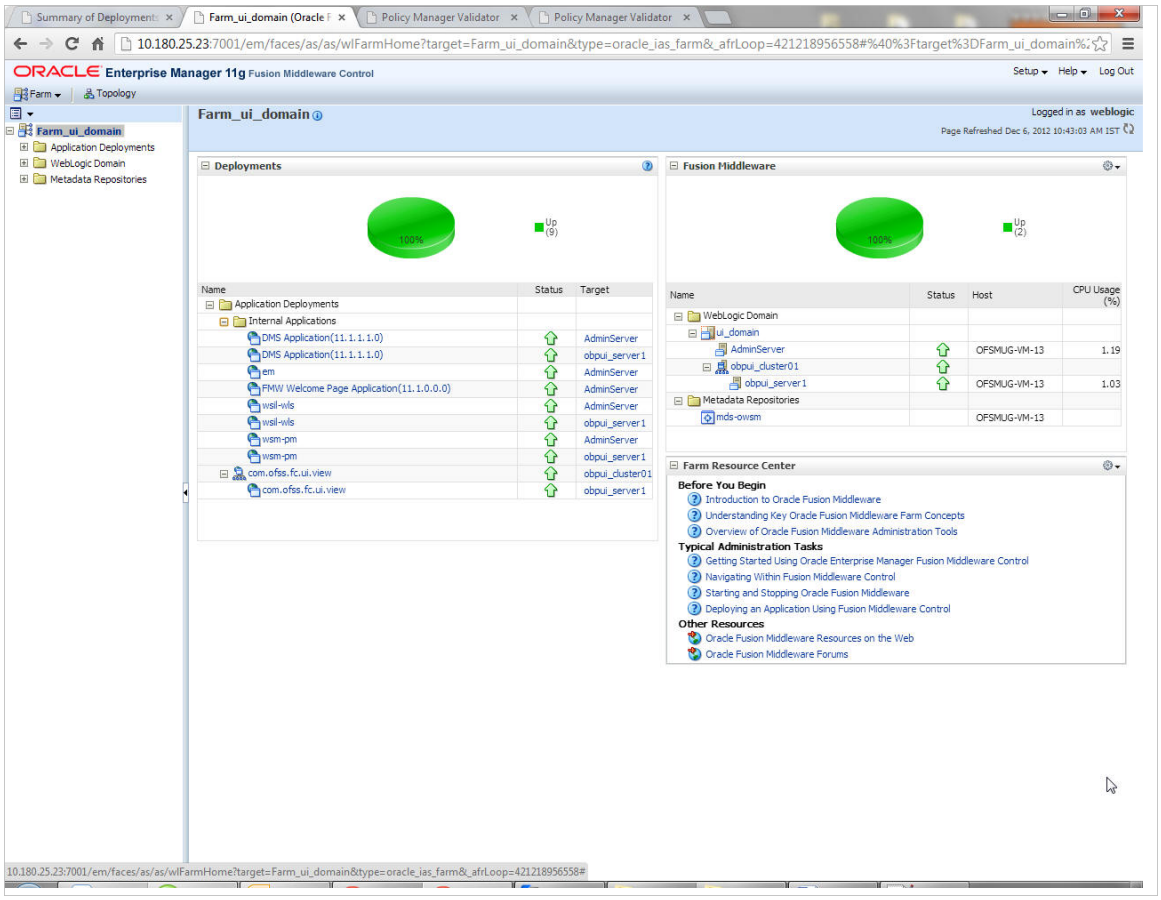
1. Start the UI domain Admin and Managed servers.
2. In the WebLogic console (<UI_IP>:<UI_ADMIN_PORT>/console), navigate to the **Summary of Deployments** page.
3. Verify that the **Status** of the following Oracle Banking Platform libraries and applications is *Active*.
   - obp.ui.domain
   - obp.host.domain
   - 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



5. 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

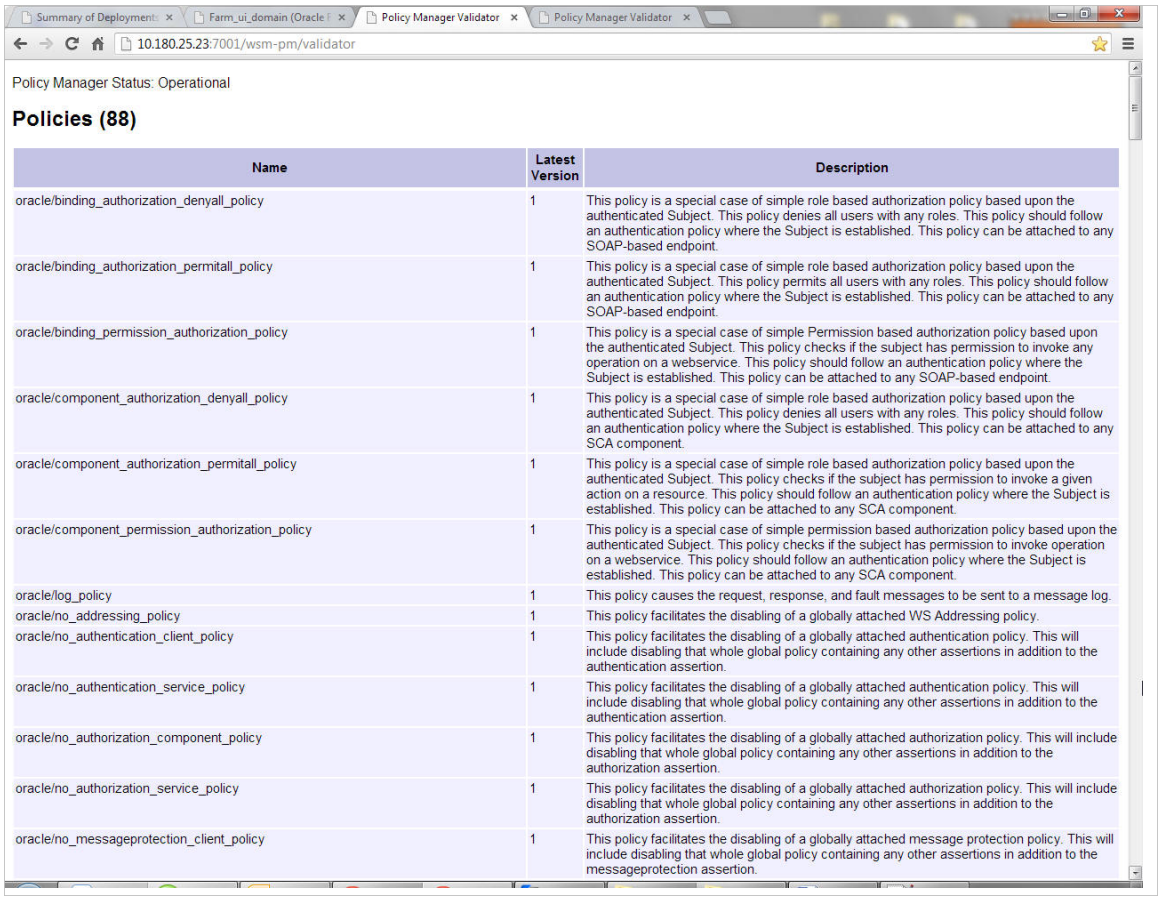
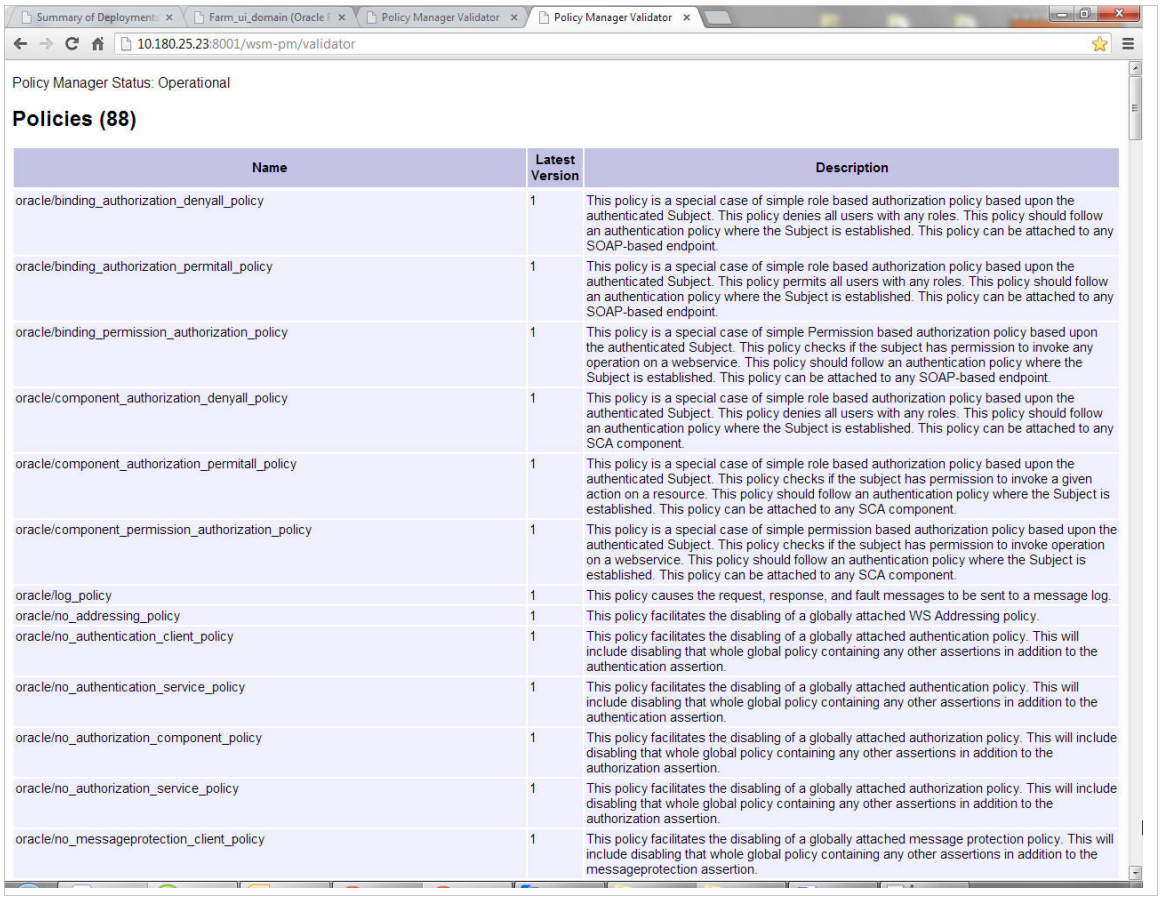


Figure 12–4 UI Managed wsm-pm Validator

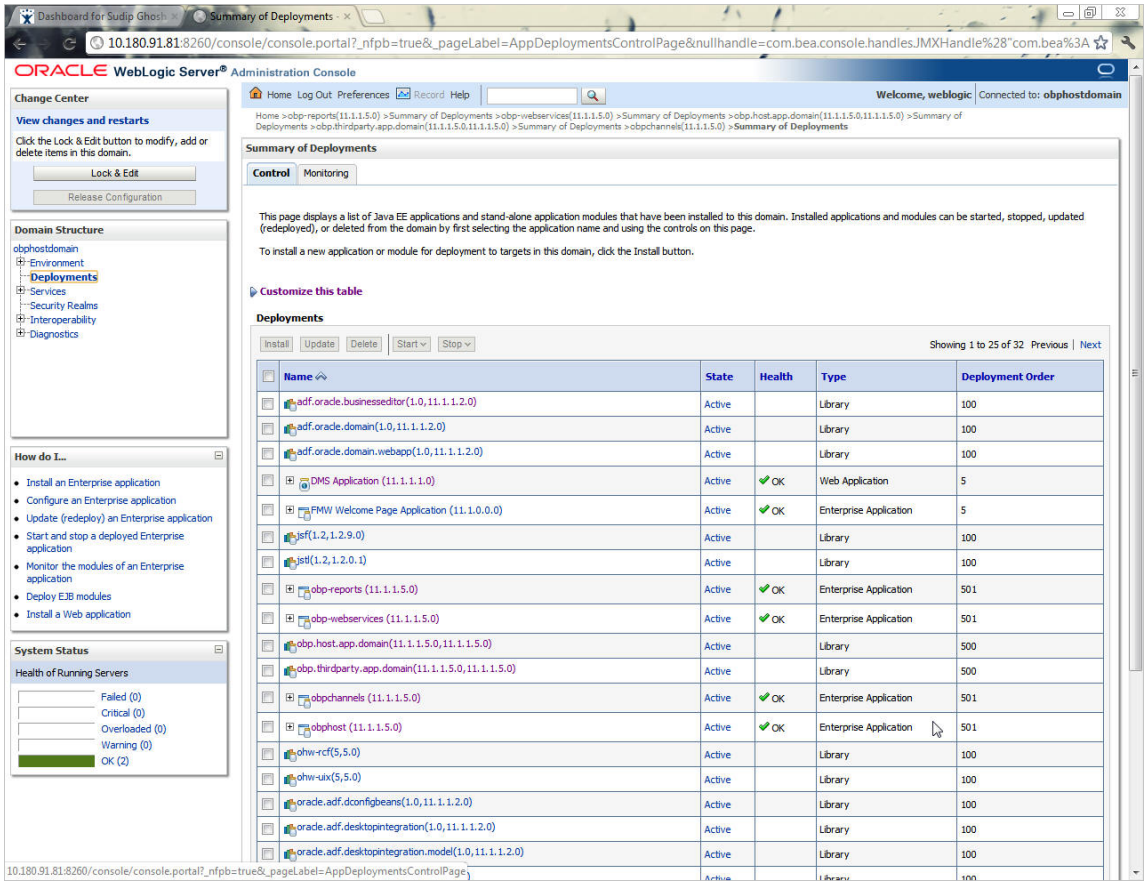


12.2 Host Domain Verification

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.

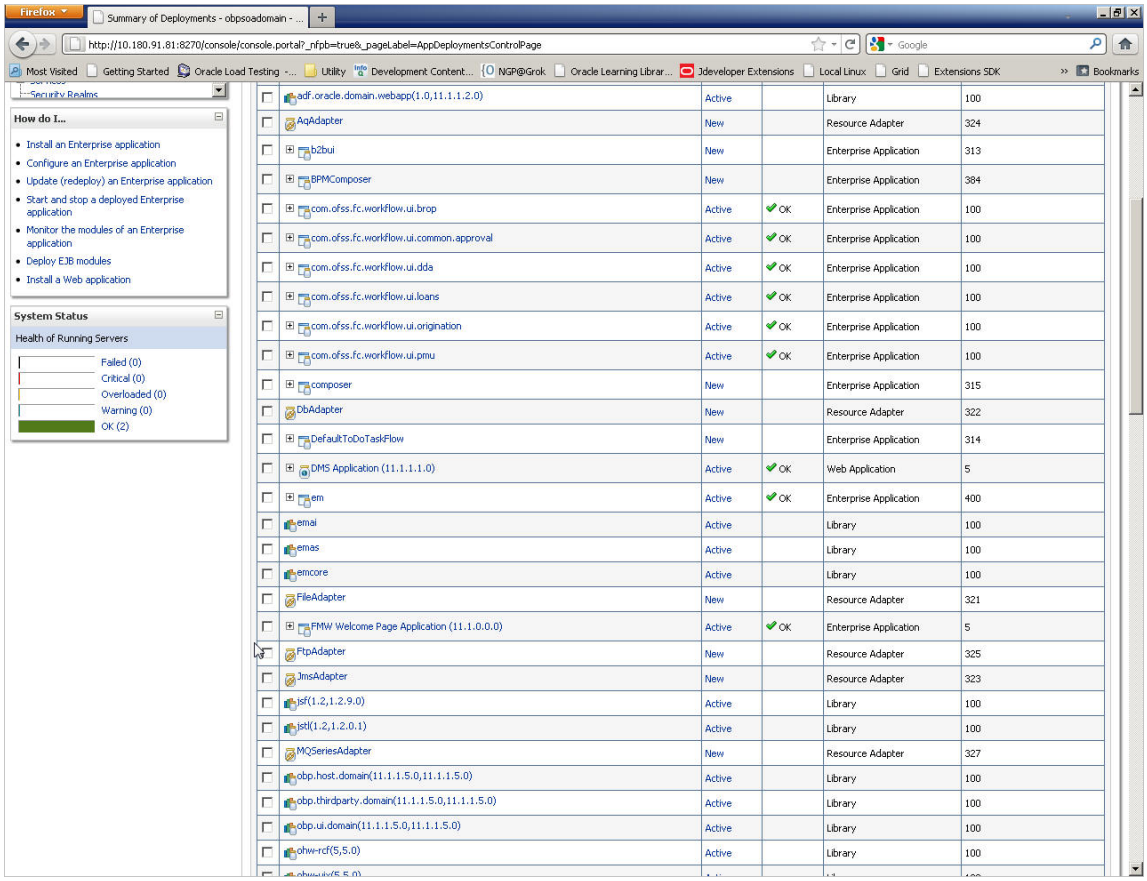
12.3 SOA Domain Verification

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



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.

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 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 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 host machine was unable to connect to LDAP).

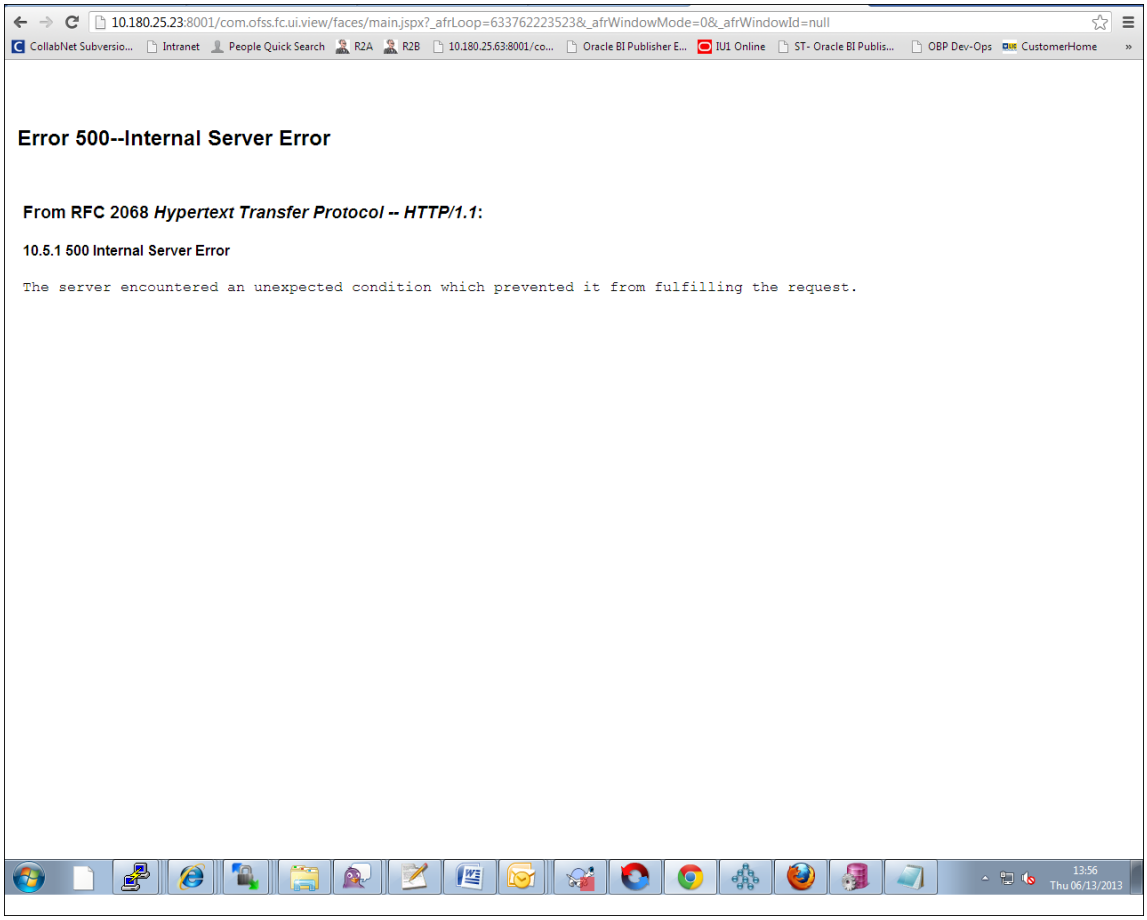
stderr log, WebLogic Domain Managed Server logs, OFSS logs

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 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.SQLSyntaxErrorException: 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 XText

For enabling InstaText feature on the Oracle banking Platform Dashboard, the XText libraries must be downloaded from http://download.itemis.com/distros/eclipse-SDK-4.2-Xtext-2.3.0-linux-gtk-x86_64.tar.gz or http://download.itemis.com/distros/eclipse-SDK-4.2-Xtext-2.3.0-linux-gtk.tar.gz.

The following jars from the plugins folder (inside the tar file) must be copied to middleware lib folder:

- com.google.guava_10.0.1.v201203051515.jar
- com.google.inject_3.0.0.v201203062045.jar
- de.itemis.xtext.antlr_2.0.0.v201108011202.jar
- javax.inject_1.0.0.v20091030.jar
- org.antlr.runtime_3.2.0.v201101311130.jar
- org.apache.log4j_1.2.15.v201012070815.jar
- org.eclipse.emf.common_2.8.0.v20120606-0717.jar
- org.eclipse.emf.ecore.xmi_2.8.0.v20120606-0717.jar

- org.eclipse.emf.ecore_2.8.0.v20120606-0717.jar
- org.eclipse.emf.mwe.core_1.2.1.v201206110920.jar
- org.eclipse.emf.mwe.utils_1.2.1.v201206110920.jar
- org.eclipse.emf.mwe2.runtime_2.3.0.v201206110920.jar
- org.eclipse.xtend2.lib_2.3.0.v201206120633.jar
- org.eclipse.xtext.builder_2.3.0.v201206120633.jar
- org.eclipse.xtext.common.types.ui_2.3.0.v201206120633.jar
- org.eclipse.xtext.common.types_2.3.0.v201206120633.jar
- org.eclipse.xtext.ecore_2.3.0.v201206120633.jar
- org.eclipse.xtext.ui.codetemplates.ui_2.3.0.v201206120633.jar
- org.eclipse.xtext.ui_2.3.0.v201206120633.jar
- org.eclipse.xtext.util_2.3.0.v201206120633.jar
- org.eclipse.xtext.xbase.lib_2.3.0.v201206120633.jar
- org.eclipse.xtext.xbase_2.3.0.v201206120633.jar
- org.eclipse.xtext_2.3.0.v201206120633.jar

14

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.