Oracle® Banking Platform Collections

Integration Guide Release 2.7.1.2.0 F38028-01

April 2021



Oracle Banking Platform Collections Integration Guide, Release 2.7.1.2.0

F38028-01

Copyright © 2011, 2021 Oracle and/or its affiliates.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Inside are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Epyc, and the AMD logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs) and Oracle computer documentation or other Oracle data delivered to or accessed by U.S. Government end users are "commercial computer software" or "commercial computer software documentation" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, the use, reproduction, duplication, release, display, disclosure, modification, preparation of derivative works, and/or adaptation of i) Oracle programs (including any operating system, integrated software, any programs embedded, installed or activated on delivered hardware, and modifications of such programs), ii) Oracle computer documentation and/or iii) other Oracle data, is subject to the rights and limitations specified in the license contained in the applicable contract. The terms governing the U.S. Government's use of Oracle cloud services are defined by the applicable contract for such services. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate failsafe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

Preface9		
Audience	9	
Documentation Accessibility		
Organization of the Guide	9	
Related Documents		
Conventions	10	
1 Introduction	12	
2 Installing the Host Media Pack	14	
2.1 Prerequisites	14	
2.2 Installing the OB Collections and OB Recovery Host Media Pack	14	
2.3 Configuring Weblogic Domain For Host	34	
3 Installing the Presentation Media Pack		
3.1 Prerequisites	40	
3.2 Installing the Presentation Media Pack	40	
3.3 Configuring Weblogic Domain for Presentation Server	52	
3.4 Verifying the Presentation Server Deployment		
4 External Interface Configuration	58	
4.1 Oracle Identity Manager (OIM)	58	
5 Installing Third-Party Software	60	
5.1 Installing Oracle Java Development Kit (JDK)	60	
6 User Creation in Oracle Internet Directory	62	
6.1 User Creation in OID	62	
7 Threadpool Configuration		
7.1 Manage Requisite Files in lib	74	

7.2 Recommendations for Threadpool Memory Configuration	75
7.3 Start Threadpoolworker	76
7.4 Verification	76
7.5 Submit the Batch	78
7.6 Stop Threadpoolworker	79
7.7 Command-Line Options	80
7.8 List of Batches to be Run on Standalone Threadpool or Weblogic	81

List of Tables

Table 2–1 Installer: Initial Details in config.properties	17
Table 2–2 Installer: Host Configuration in config.properties	18
Table 2–3 Installer: DB Configuration in config.properties	19
Table 2–4 Installer: Batch Configuration in config.properties	19
Table 2–5 Installer: Threadpool Configuration in config.properties	20
Table 2–6 Installer: Initial Details	24
Table 2–7 Installer: Host Configuration	
Table 2–8 Installer: Host DB Configuration	27
Table 2–9 Installer: Batch Configuration	
Table 2–10 Installer: Threadpool Configuration in config.properties	
Table 2–11 Configuring Weblogic Domain for Host	
Table 3–1 Installer: Initial Details in config.properties	42
Table 3–2 Installer: Host Configuration in config.properties	43
Table 3–3 Installer: UI Configuration in config.propertiesties	44
Table 3–4 Installer: DB Configuration in config.properties	45
Table 3–5 Installer: Initial Details	48
Table 3–6 Installer: UI Configuration	49
Table 3–7 Configuring Weblogic Domain for Presentation	53
Table 3–8 Verifying the Presentation Server Deployment	57
Table 7–1 List of Batches to be Run on Standalone Threadpool	81
Table 7–2 List of Batches to be Run on Weblogic	82

List of Figures

Figure 2–1 Hibernate tmp folder	15
Figure 2–2 Collection_V[Build_Number].zip uncompressed	16
Figure 2–3 Installer: config.properties file	21
Figure 2–4 Weblogic Admin Console	22
Figure 2–5 Summary of servers	22
Figure 2–6 Force shutdown	22
Figure 2–7 Verify Server State	23
Figure 2–8 Installer: Initial Details	24
Figure 2–9 Installer: Host Configuration	25
Figure 2–10 Installer: Host DB Configuration	26
Figure 2–11 Installer: Batch Configuration	
Figure 2–12 Installer: Threadpool Configuration	29
Figure 2–13 Installer: Confirm Installations Details	
Figure 2–14 Installer: Confirm Installations Details	
Figure 2–15 Data Source Connection Pool	31
Figure 2–16 Add XML Registry	31
Figure 2–17 Settings for XML Registry	
Figure 2–18 Deploy XML Registry	
Figure 2–19 Host Domain Security	
Figure 2–20 Summary of servers	34
Figure 2–21 Force shutdown	
Figure 2–22 Verify Server State	35
Figure 2–23 Weblogic Admin Console	
Figure 2–24 Domain Configuration: Confirm	

Figure 3–1 Collection_V[Build_Number].zip uncompressed	41
Figure 3–2 Installer: config.properties file	46
Figure 3–3 Weblogic Admin Console	47
Figure 3–4 Installer: Initial Details	48
Figure 3–5 Installer: UI configuration	49
Figure 3–6 Installer: Confirm Installation Details	50
Figure 3–7 Installer : Installing	51
Figure 3–8 XML Registry	
Figure 3–9 Weblogic Admin Console	53
Figure 3–10 Domain Configuration: Confirm	55
Figure 3–11 Domain Configuration: Proceeding with the Process	
Figure 6–1 Opening ODSM	62
Figure 6–2 Log in to OID	63
Figure 6–3 Navigating to Data Browser Tab	
Figure 6–4 Creating New Entry	64
Figure 6–5 Adding Object Classes: Top	65
Figure 6–6 Adding Object Classes: Person	65
Figure 6–7 Adding Object Classes: Oracle User	66
Figure 6–8 Selecting Distinguished Name	66
Figure 6–9 Selecting Entry Properties	67
Figure 6–10 Selecting Mandatory Properties	67
Figure 6–11 Status Message	
Figure 6–12 Selecting the User	68
Figure 6–13 Attributes Tab	69
Figure 6–14 Adding User Password	69
Figure 6–15 Setting User Password	

Figure 6–16 Confirm Message	.70
Figure 6–17 Adding to Administrator Group	.71
Figure 6–18 Attributes Tab	.71
Figure 6–19 Confirmation message	.72
Figure 7–1 Command to Create wlfullclient.jar	.74
Figure 7–2 Standalone lib	.75
Figure 7–3 ThreadPool Worker Log	.76
Figure 7–4 Executing OBP Initialisation Block	77
Figure 7–5 Verify Threadpool Worker: Check Connection	78
Figure 7–6 Submit the Batch	79

Preface

This document will help you to install Oracle Banking Collections and Oracle Banking Recovery as an integrated module of Oracle Banking Platform. This document assumes that Oracle Banking Platform Presentation and Host environment are pre-installed.

This preface contains the following topics:

- Audience
- Documentation Accessibility
- Organization of the Guide
- Related Documents
- Conventions

Audience

This document is intended for the following audience:

- IT Deployment Team
- Consulting Staff
- Administrators

Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at http://www.oracle.com/us/corporate/accessibility/index.html.

Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit http://www.oracle.com/us/corporate/accessibility/support/index.html#info or visit http://www.oracle.com/us/corporate/accessibility/support/index.html#trs if you are hearing impaired.

Organization of the Guide

The information in this document is organized into the following chapters and appendices:

Chapter 1 Introduction

This chapter describes the Collections integration.

Chapter 2 Installing the Host Media Pack

This chapter describes the steps involved in installing the host media pack.

Chapter 3 Installing the Presentation Media Pack

This chapter describes the steps involved in installing the presentation media pack.

Chapter 4 External Interface Configuration

This chapter describes the steps involved in Oracle Identity Manager (OIM) Adapter configuration.

Chapter 5 Installing Third-Party Software

This chapter describes the required third-party software.

Chapter 6 User Creation in Oracle Internet Directory

This chapter describes the user creation in OID.

Chapter 7 Threadpool Configuration

This chapter provides information about threadpool configuration.

Related Documents

For more information, see the following documentation:

- For information on the configurations that are to be performed on day zero, see the Oracle Banking Platform Collections Day Zero Setup Guide.
- For a brief description about user provisioning in Collections, see the Oracle Banking Platform Collections User Provisioning Guide.

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.

1 Introduction

This guide helps you to install Oracle Banking Collections and Oracle Banking Recovery for a seamless integration with Oracle Banking Platform.

2 Installing the Host Media Pack

You must follow the steps mentioned below to install the Host Media Pack:

- 1. Install the Host Media Pack 2.7.1.2.0
- 2. Update the environment.
- 3. Configure the WebLogic domain.

2.1 Prerequisites

Before you install the OB Collections and OB Recovery 2.7.1.2.0 Host Media Pack, you must have the following installed on the machine:

- OBP 2.7.1.2.0 Host Media Pack.
- OBP 2.7.1.2.0 Presentation Media Pack.
- Windows Secure Copy (WINSCP) to copy deliverables from Windows to Linux machine.
- Oracle Java Development Kit (JDK) 1.8 Update 281 (For more information on how to install Oracle JDK, see Chapter 5 Installing Third-Party Software.)
- Manager, a PC X server that runs on the Windows platforms and helps launching X applications UI on a Windows desktop.
- OB Collections and OB Recovery database must be installed. For more information on installing or configuring database, see the Oracle Banking Platform Collections DBA Guide.
- Download the hibernate-release-4.1.0.Final.zip file from:

http://sourceforge.net/projects/hibernate/files/hibernate4/

It is very important that you download the exact version, as the product has only been certified with this exact release.

2.2 Installing the OB Collections and OB Recovery Host Media Pack

The OB Collections and OB Recovery 2.7.1.2.0 installation package is used for installing both the OBP Host and Presentation Media Packs. You can download the installation package from the following location:

https://edelivery.oracle.com/

To install the OBP Host Media Pack:

- 1. Log in to the Host Server.
- 2. Create a temporary directory (for example, TEMPDIR) on the Host Server using the following command:

mkdir TEMPDIR

- 3. Copy the OB Collections and OB Recovery 2.7.1.2.0 installation package, Collection_V[Build_ Number].zip, which you have downloaded from the edelivery to Host Server by using WINSCP to created TEMPDIR folder.
- 4. Create a Hibernate_tmp directory and follow the below steps.
 - a. Extract downloaded hibernate-release-4.1.0.Final.zip package in temp directory.
 - b. Copy below jars from extracted hibernate-release-4.1.0/lib/required folder to created hibernate_ tmp path
 - hibernate-commons-annotations-4.0.1.Final.jar
 - hibernate-core-4.1.0.Final.jar
 - hibernate-jpa-2.0-api-1.0.1.Final.jar
 - jboss-transaction-api_1.1_spec-1.0.0.Final.jar
 - dom4j-1.6.1.jar
 - c. Copy hibernate-ehcache-4.1.0.Final.jar from extracted hibernate-release-4.1.0/ lib/optional/ehcache folder to created hibernate_tmp path

Figure 2–1 Hibernate tmp folder

l	/scratch/ofssobp/Hibernate_tmp		
ſ	Name		
	₩		
	jboss-transaction-api_1.1_spec-1.0.0.Final.jar		
ļ	🕼 hibernate-jpa-2.0-api-1.0.1.Final.jar		
	hibernate-ehcache-4.1.0.Final.jar		
	hibernate-core-4.1.0.Final.jar		
	hibernate-commons-annotations-4.0.1.Final.jar		
	🛋 dom4j-1.6.1.jar		
l			

5. Uncompress the Collection_V[Build_Number].zip file using the following command:

cd <PATH>/TEMPDIR

unzip Collection_V[Build_Number].zip

Where, <PATH> is the path where the TEMPDIR folder is located.

The contents of the zip file are extracted in the TEMPDIR folder. The following files / folders are extracted:

- config.properties
- ouaf.properties
- data
- Install.sh

- collectioninstaller.jar
- collectionupgradeinstaller.jar

Figure 2–2 Collection_V[Build_Number].zip uncompressed

/scratch/install/Collection	
Name	
↓ data Sollectioninstaller.jar	
🖻 collectionupgradeinstaller.jar	
Config.properties	
🚳 Install.sh	
🚳 Install_Silent.sh	
🖉 ouaf.properties	

- 6. Collection installer operates in two modes, go with either mode.
 - a. Silent mode:
 - i. Update config.properties in the TEMPDIR directory
 - ii. Update below sections in config.properties as shown in Figure 2-3:
 - INSTALLER DETAILS
 - IS_DEV_ENV=false
 - IS_UI_ENABLED=N
 - INITIAL DETAILS
 - HOST_CONFIG=Y
 - UI_CONFIG=N
 - BATCH_CONFIG=Y
 - CUSTOM_SUPPORT=N
 - THREADPOOL_CONFIG=N
 - DOMAINNAME=HOST+BATCH
 - HOST CONFIGURATION
 - HOST DB CONFIGURATION
 - BATCH CONFIGURATION
 - THREADPOOL CONFIGURATION

In config.properties: Initial Details section contains the following fields

Field	Description
	Used to indicate the operating system on which you want to install the OB Collections and OB Recovery Host Media Pack. The options are:
Operating System	■ Linux
SYSTEM)	 Windows
	You can only integrate OB Collections and OB Recovery with OBP on the Linux environment.
Installation Directory	Used to specify the directory where you want to install the OB Collections and OB Recovery Host Media Pack. It should be same as the installation directory where OBP Host Media pack is installed.
(INSTALL_DIR)	By default,/scratch/app/product/fmw/obpinstall/obp is specified in this field. You can change the path and directory name, if required.
Generate Host Configuration (HOST_CONFIG)	Used to deploy the OB Collections and OB Recovery Host Media Pack components, if HOST_CONFIG is set to Y.
Generate UI Configuration (UI_CONFIG)	Used to deploy the OB Collections and OB Recovery Presentation Media Pack components, if UI_CONFIG is set to Y.
Generate Batch Configuration	Used to deploy the batch components used for configuring the batch server, if BATCH_CONFIG option is set Y.
(BATCH_ CONFIG)	If you want to deploy the batch components, you must always set the HOST_CONFIG and BATCH_CONFIG value to Y.
Generate Thread Pool Configuration	Used to deploy the threadpool components used for configuring the threadpool, if this option is checked.
(THREADPOOL_ CONFIG)	If you want to deploy the threadpool components, you must always set the HOST_CONFIG, BATCH_CONFIG and THREADPOOL_CONFIG value to Y.
Customization Support Required (CUSTOM_ SUPPORT)	Used to enable the customization support, if CUSTOM_ SUPPORT is set to Y.
	Used to specify domain name. The options are:
	■ UI
	■ HOST
	HOST+BATCH
	if BATCH_CONFIG option is set to Y then choose HOST+BATCH.

 Table 2–1 Installer: Initial Details in config.properties

In config.properties: Host Configuration section contains the following fields

Field	Description
Host IP address (DB_IP_ADDRESS)	Used to specify the host IP address. For example, 10.180.6.11.
Host port (DB_PORT)	Used to specify the Host server WebLogic managed server port. For example, 8001.
Host Logs Directory (HOST_LOG_DIR)	Used to indicate the directory where the logs must be created on the host server. By default, /scratch/app/product/fmw/obpinstall/obp/fclo gs/logs is specified in this field. You can change the path and directory name, if required.
Java Home Path (JAVA_HOME)	Used to indicate the directory where Oracle JDK is installed. By default, /scratch/app/product/jdk1.8.0_281 is specified in this field. You can change the path and directory name, if required.
Hibernate Path (HIBERNATE_ JAR_DIR)	Used to indicate the directory where Hibernate jars downloaded and copied jars from /lib/required/ from extracted hibernate-release-4.1.0.Final.zip package by default, /scratch/app/product/hibernate is specified in this field. You can change the path and directory name, if required. Installer will copy the jars from this directory to Third party directory.
Host weblogic user name (HOST_ WEBLOGIC_ PASSWORD)	Used to specify the host weblogic username.
Host weblogic password (HOST_ WEBLOGIC_ PASSWORD)	Used to specify the host weblogic password.
Host Admin server port (HOST_ ADMINSERVERPO RT)	Used to specify the Host server WebLogic admin server port. For example, 7001.

 Table 2–2 Installer: Host Configuration in config.properties

In config.properties: Host DB Configuration section contains the following fields:

Field	Description
Database IP address (DB_IP_ADDRESS)	Used to specify the database IP address. For example, 10.180.7.77.
Database port (DB_PORT)	Used to specify the database port. For example, 1521.
Database System ID (DB_SID)	Used to specify the database SID. For example, ORA125.
Database user name (DB_USERNAME)	Used to specify the database user name.
Database user password (DB_PASSWORD)	Used to specify the database password.
Host Datasource name (HOST_ DATASOURCE)	Used to specify the host NonXA data source name. For example, jdbc/FCBDataSource_NonXA.

 Table 2–3 Installer: DB Configuration in config.properties

In config.properties: Batch Configuration section contains the following fields:

Table 2–4 Installer: Batch Configuration in config.properties

Field	Description
Thread pool name (THREADPOO L_NAME)	Used to specify the name of the thread pool. For example, MT.
Number of threads (NUMBER_OF_ THREADS)	Used to specify the number of the threads that the thread pool can support. For example, 10.
Batch user ID (BATCH_ USER)	Used to specify the batch user ID. For example, SYSUSER.
Batch log directory (BATCH_LOG_ DIR)	Used to specify the batch log directory. For example, /scratch/app/product/fmw/obpinstall/obp/fclogs/ logs.

In config.properties: Threadpool Configuration section contains the following fields:

Field	Description
Weblogic Server Home (WEBLOGIC_ SERVER_ HOME)	Used to specify the weblogic server home path. For example, /scratch/app/product/fmw/wlserver.
RMI Port (RMI_PORT)	Used to specify the rmi port. For example, 2120.
Host Domain Path (HOST_DOMAIN_ PATH)	Used to specify the Host Domain Path. For example , /scratch/app/product/fmw/user_ projects/domains/host_domain.
Cluster Name (CLUSTER_NAME)	Used to specify the Threadpool cluster name. For example, Cluster1
Cluster IP Address (CLUSTER_ MULTICAST_ LISTNER_IP_ ADDRESS)	Used to specify Threadpool cluster IP Address. For Example, 232.0.01
Cluster Port (CLUSTER_ MULTICAST_ LISTNER_PORT)	Used to specify Threadpool Cluster Port. For Example, 6660
Target JMS Module (TARGETTYPE)	Used to specify target JMS Module: Server Cluster
Target JMS Module name (TARGETJMSSERVER)	If TARGETTYPE set to 1 i.e Server then provide the name of the managed server. Eg(obphost_server1). If TARGETTYPE set to 2 i.e Cluster then provide the name of the cluster. Eg(obphost_cluster1).

Table 2–5 Installer: Threadpool Configuration in config.properties

Figure 2–3 Installer: config.properties file



- iii. Save config.properties file.
- iv. Ensure that Admin server is in RUNNING state and Managed server is down.
- v. Check if Admin server is running. Access Weblogic Admin Console. If Weblogic Admin Console returns below screen Admin server is up.

Figure 2–4 Weblogic Admin Console



vi. If Admin Server is down, start Admin Server. To start Admin server, use the following command:

```
${middleware__home}/user_projects/domains/{domain_
name}/bin/ startWeblogic.sh
```

vii. To check if managed server is running, navigate to servers tab.

Figure 2–5 Summary of servers

🙆 Home Log Ov	t Preferences 🔛 Record Help	Q					
Home >Summary	of Servers						
Summary of Serv	ers						
Configuration	Control						
A server is an in This page summ () () () Customize th Servers (Filter	Centinguestion Control A server is an instance of Instituce; Server that runs in its own Java Virtual Machine (DHP) and has its own configuration. This page summarizes each server that has been configured in the current WebLopk Server domain. E2 IP Cestomicre this table Servers (Filtered - Hore Columns Exist)						
New Clone	Delete						
🔲 Name 🕫		Туре	Cluster	Machine	State	Health	
AdminSer	ver(admin)	Configured			RUNNING	✓ OK	
i obphost	erver1	Configured	obphost_cluster1	host_machine1	UNKNOWN	Not reachable	
New Clone	Delete						

viii. If managed server state is running, navigate to control tab and select managed server check box, click on shutdown button and select Force shutdown now.

Figure 2–6 Force shutdown

A Home Log	Out Preferences 🔛	Record Help	Q			
Home >Summar	ry of XML Entity Caches :	Summary of XML Registries >XML Re	gistry-0 >Summary of XML Registries >XML Registry	-0 >Gummary of XML Registries > So	emmary of Servers	
iummary of Se	irven					
Configuration	Control					
Use this page	Use this page to change the state of the servers in this WebLogic Server domain. Control operations on Managed Servers require starting the Node Manager. Starting Managed Servers in Standby mode requires th					
Start Re	sume Suspend v	Shutdown v Restart SSL				
Server	rði -	When work completes Force shutdown now	Hachine		State	Status of Last Act
Admins	Server(edmin)				RUNNING	None
🗹 obphar	dophost_server1 obphost_machine1 RUMANG None None					None
Start Re	sume Suspend ~	Shutdown - Restort SSL				

ix. Click Yes on next screen.

Figure 2–7 Verify Server State

🏚 Ho	ne Log Out Preferences 🗠 Record Help							
Home	Home >Summary of Servers							
Summa	unmary of Servers							
Config	aration Control							
Use t	his page to change the state of the servers in this WebLogic Server domain	. Control operations on Managed Servers require starting th	e Node Manager. Starting Managed Servers in					
£3								
€ Cus Serv	tomize this table ers (Filtered - More Columns Exist)							
32	rt Resume Suspend v Shutdown v Restart 551,							
	Server 🔅	Machine	State					
	AdminServer(admin) RUNNING							
	obphost_server1	host_machine1	SHUTDOWN					
Sta	rt] Resume [Suspend v Shutdown v Restart SSL]							

x. If only Admin server is running, run installer using below command.

```
sh Install Silent.sh
```

Installation Completed..! is prompted at the end.

- b. GUI mode:
 - i. Start the XManager application on the windows machine from where you have connected to the Host Server remotely and then click XPassive.
 - ii. Export the XManager UI on the Host Server (Linux environment) using the following command:

```
DISPLAY=<IP>:0.0;
export DISPLAY
```

Where, <IP> is the IP address of the windows machine.

- iii. Update config.properties in the TEMPDIR directory.
- iv. Set is ui enabled=y.
- v. Run installer using the following command:

java -jar collectioninstaller.jar

The Installer: Initial Details wizard page appears.

👼 OB Collection Installer : Initial Details		777	×
ORACLE	OB Collection Installer : Initial Details		
Operating System	Linux		
Genrerate Host Configuration			
Genrerate UI Configuration			
Genrerate Batch Configuration			
Generate Thread Pool Configurat			
Customization Support Required			
Ne	мt		

Figure 2–8 Installer: Initial Details

The Installer: Initial Details wizard page contains the following fields:

Table 2–6 Installer: Initial Details

Field	Description
	Used to indicate the operating system on which you want to install the OB Collections and OB Recovery Host Media Pack. The options are:
Operating System	■ Linux
System	 Windows
	You can only integrate OB Collections and OB Recovery with OBP on the Linux environment.
Installation Directory	Used to specify the directory where you want to install the OB Collections and OB Recovery Host Media Pack. It should be same as the installation directory where OBP Host Media pack is installed.
	By default,/scratch/app/product/fmw/obpinstall/obpis specified in this field. You can change the path and directory name, if required.
Generate Host Configuration	Used to deploy the OB Collections and OB RecoveryHost Media Pack components, if this option is checked.
Generate UI Configuration	Used to deploy the OB Collections and OB RecoveryPresentation Media Pack components, if this option is checked.

Field	Description
Generate Batch Configuration	Used to deploy the batch components used for configuring the batch server, if this option is checked.
	If you want to deploy the batch components, you must always select the Generate Host Configuration check box along with the Generate Batch Configuration check box.
Generate Thread Pool Configuration	Used to deploy the threadpool components used for configuring the threadpool, if this option is checked.
	If you want to deploy the threadpool components, you must always select the Generate Host Configuration check box and Generate Batch Configuration check box along with the Generate Threadpool Configuration check box.
Customization Support Required	Used to enable the customization support, if CUSTOM_ SUPPORT is set to Y.

- vi. Select the Generate Host Configuration check box.
- vii. If you want to deploy the batch components on the host server, select the **Generate Batch Configuration** check box.
- viii. If you want to deploy the batch components on the host server, select the **Generate Threadpool Configuration** check box.
- ix. Click Next. The Installer: Host Configuration screen appears.

Figure 2–9 Installer: Host Configuration

Ø OB Collection Installer : Host configu	ation	_2	
ORACLE	OB Collection Installer : Host configuration	n	
Host logs directory	/scratch/app/product/fmw/obpinstall/obp/fclogs/log	IS	
Java home path	/scratch/app/product/jdk1.8.0 101		
Hibernate Jar Directory Path	/scratch/app/product/hibernate		
	Previous Next		

The Installer: Host Configuration wizard page contains the following fields:

Field	Description
Host Logs Directory	Used to indicate the directory where the logs must be created on the host server. By default, /scratch/app/product/fmw/obpinstall/obp/fclogs/logs is specified in this field. You can change the path and directory name, if required.
Java Home Path	Used to indicate the directory where Oracle JDK is installed. By default, /scratch/app/product/jdk1.8.0_281 is specified in this field. You can change the path and directory name, if required.
Hibernate Path	Used to indicate the directory where Hibernate jars downloaded and copied jars from /lib/required/ from extracted hibernate-release- 4.1.0.Final.zip package by default, /scratch/app/product/hibernate is specified in this field. You can change the path and directory name, if required. Installer will copy the jars from this directory to Third party directory.

Table 2–7 Installer: Host Configuration

- x. Change the values in these fields, if required.
- xi. Click Next. The Installer: Host DB Configuration screen appears.

Figure	2–10	Installer:	Host DB	Configuration
--------	------	------------	---------	---------------

Not Collection Installer : Host DB co	nfiguration	100	×
ORACLE	OB Collection Installer : Host DB configu	ration	
Database IP address	< DB IP Address >		
Database port	1521		
Database SID	VSDEV		
Database user name	fcrhdevsails40		
Database user password	******		
Host Datasource name	jdbc/FCBDataSource NonXA		
Host IP address	< Host IP Address>		
Host port	8001		
ſ	Previous		
L			

The following fields appear in the **Installer: Host DB Configuration** screen:

Field	Description
Database IP address	Used to specify the database IP address. For example, 10.180.7.77.
Database port	Used to specify the database port. For example, 1521.
Database System ID (SID)	Used to specify the database SID. For example, ORA125.
Database user name	Used to specify the database user name.
Database user password	Used to specify the database password.
Host Datasource name	Used to specify the host NonXA data source name. For example, jdbc/FCBDataSource_NonXA.
Host IP address	Used to specify the host IP address. For example, 10.180.6.11
Host port	Used to specify the Host server WebLogic managed server port. For example, 8001.

Table 2–8 Installer: Host DB Configuration

xii. Click **Next.** The **Installer: Batch Configuration** screen appears. This screen appears only if you have selected the **Generate Batch Configuration** option in the **Installer: Initial Details** screen.

|--|

👼 OB Collection Installer : Batch Config	uration	<u>977</u> 5	×
ORACLE"	OB Collection Installer : Batch Configuration		
Database IP address	< DB IP Address >		
Database port	1521		
Database SID	VSDEV		
Database user name	fcrhdevsails40		
Database user password	****		
Thread pool name	MT		
Number of threads	5		
Batch user ID	SYSUSER		
Batch log directory	/scratch/app/product/fmw/obpinstall/obp/fclogs/logs		
	Previous Next		
L			

The following fields appear in the Installer: Batch Configuration screen:

Table 2–9 Installer: Batch Configuration

Field	Description
Database IP address	Used to specify the database IP address. For example, 10.180.7.77.
Database port	Used to specify the database port. For example, 1521.
Database System ID (SID)	Used to specify the database SID. For example, V5DEV.
Database user name	Used to specify the database user name.
Database user password	Used to specify the database password.
Thread pool name	Used to specify the name of the thread pool. For example, MT.
Number of threads	Used to specify the number of the threads that the thread pool can support. For example, 5.
Batch user ID	Used to specify the batch user ID. For example, SYSUSER.
Batch log directory	Used to specify the batch log directory. For example, /scratch/app/product/fmw/obpinstall/obp/fclogs/logs.

xiii. Click **Next.** The **Installer: Threadpool Configuration** screen appears. This screen appears only if you have selected the **Generate Threadpool Configuration** option in the **Installer: Initial Details** screen.

OB Collection Installer : Threadpool Co	nfiguration	<u></u>	×
ORACLE OB	Collection Installer : Threadpool Config	uration	
Weblogic Server Home	/scratch/app/product/fmw/wlserver		
RMI Port	2120		
Host Domain Path	duct/fmw/user projects/domains/host domain		
Cluster Name	< Cluster name >		
Cluster IP Address	232.0.0.1		
Cluster Port	6660		
P	revious Next		

Figure 2–12 Installer: Threadpool Configuration

The following fields appear in the Installer: Threadpool Configuration screen:

Table 2–10 Installer: Threadpool Configuration in config.properties

Field	Description
Weblogic Server Home	Used to specify the weblogic server home path. For example, /scratch/app/product/fmw/wlserver.
RMI Port	Used to specify the rmi port. For example, 2120.
Host Domain Path	Used to specify the Host Domain Path. For example, /scratch/app/product/fmw/user_projects/domains/host_domain.
Cluster Name	Used to specify the Threadpool cluster name. For example, Cluster1
Cluster IP Address	Used to specify Threadpool cluster IP Address. For Example, 232.0.01
Cluster Port	Used to specify Threadpool Cluster Port. For Example, 6660

xiv. Click Next. The Installer: Confirm installation details screen appears.

Figure 2–13 Installer: Confirm Installations Details

OB Collection Installer :	Confirm installation details	_2	×
ORACLE	OB Collection Installer : Confirm installat	tion details	
Host logs directory Java home path : /s Hibernate Jar Direc Host DB (Is connection pool Datasource name : Host IP address : I Host port : 8001 Batch Co Is connection pool Database IP addre Database port : 15 Database SID : V50	iguration : /scratch/app/product/fmw/obpinstall/obp/fclogs/logs cratch/app/product/jdk1.8.0_101 tory Path : /scratch/app/product/hibernate configuration d : true jdbc/FCBDataSource_NonXA figuration d : false ss : 21 DEV		
	Previous Generate		

Figure 2–14 Installer: Confirm Installations Details

	OB Collection Inst	aller : Confirm installat	ion details	
Database user na Database user pa Thread Pool name Number of thread Batch user ID : SY Batch log director Threadp Web Server Home RMI Port : 2120 Domain Path : /scr Cluster Name : Clu Cluster Ip Address Cluster Port : 6660	OB Collection Inst me : fcrhdevsails40 ssword : ***** : MT s : 5 SUSER y : /scratch/app/product/fmw/vls ool Configuration : /scratch/app/product/fmw/vlser_pri sterl : 232.0.0.1	aller : Confirm installat opinstall/obp/fclogs/logs erver ojects/domains/host_domain	ion details	

- xv. Click Generate. The Installer: Installing screen appears.
- xvi. Click Done.
- Delete cglib.cglib-nodep.jar from <Weblogic Home>\modules\ if present. For example, delete from: /scratch/app/product/fmw/wlserver/modules

OR

/scratch/app/product/fmw/oracle_common/modules/thirdparty

- Log in to Weblogic console and navigate to Data Sources-> OBP_HOST_DS_NONXA -> Connection Pool.
- 9. Change Driver Class Name = oracle.jdbc.OracleDriver if it is different.

Figure 2–15 Data Source Connection Pool

ettings for OBI	-HOST_DS	NONXA				
Configuration	Targets	Monitoring	Contr	ol Security	Notes	
General Con	nection Poo	Oracle	ONS	Transaction	Diagnostics	Identity Options
Save						
The connection	pool within a	a JDBC data :	source co	ontains a group	of JDBC conne	ections that applications reserve, use, and then retur
The connection WebLogic Serv Use this page t	pool within a er or when de o define the	a JDBC data : ploying the c	source co data sou n for this	ontains a group rce to a new tai data source's c	o of JDBC conne rget. connection pool	ections that applications reserve, use, and then retur
The connection WebLogic Serv Use this page t	pool within a er or when de o define the a	a JDBC data s ploying the o	source co data sou n for this jo	ontains a group rce to a new tai data source's o dbc:oracle:th	o of JDBC conne rget. connection pool in:@//	ections that applications reserve, use, and then return ol. 1521/PDB0515

- 10. Log in to Weblogic console and navigate to XML Registries.
- 11. Add new XML Registry Properties. If New button is disabled click on Lock & Edit button.

Figure 2–16 Add XML Registry

ORACLE' WebLogic Server Adr	ministration Console 12c					
Change Center	Home Log Out Preferences [Record Help	٩			
View changes and restarts	Home >Summary of XML Registri	ies				
Click the Lock & Edit button to modify, add or delete items in this domain.	Summary of XML Registries					
Lock & Edit Release Configuration	The XML Registry is a facility for Server; click on the Name to see	configuring and admin to full configuration.	ninistering the XML resources of WebLogic Server. XML resources include the default parser and transformer factorin n.			
Domain Structure	Customize this table					
ui_domain III-Domain Partitions	XML Registries (Filtered - More Columns Exist)					
Environment	Click the Lock & Edit button in the Change Center to activate all the buttons on this page.					
E-Services	New Clone Delete					
Interoperability Diagnostics	🔲 Name 🗇	D	Document Builder Factory			
	There are no items to display					
	New Clone Delete					

- 12. Change the following properties while adding XML Registry Properties and save changes.
 - Document Builder Factory = com.sun.org.apache.xerces.internal.jaxp.DocumentBuilderFactoryImpl

- SAX Parser Factory = com.sun.org.apache.xerces.internal.jaxp.SAXParserFactoryImpl
- Transformer Factory = com.sun.org.apache.xalan.internal.xsltc.trax.TransformerFactoryImpl

Home Log Ou Home >Summary	it Preferen of XML Regis	ices 🚵 Rec tries >XML Re	ord Help gistry-0 >S	ummary of XML Registries >XML Registry-0
Settings for XML	. Registry-	0		
Configuration	Targets	Contents	Notes	
Save				
Use this page to	o configure	an XML regis	try, in par	ticular to specify the implementation classes that WebLogic Server uses, by default, for the factories used to obta
Name:			XML Reg	jistry-0
Document Buik	der Factor	·γ:	com.s	sun.org.apache.xerces.internal.jaxp.DocumentBuilderFactoryImpl
SAX Parser Fac	tory:		com.s	sun.org.apache.xerces.internal.jaxp.SAXParserFactoryImpl
Transformer Fa	ictory:		com.s	sun.org.apache.xalan.internal.xsltc.trax.TransformerFactoryImpl
XPath Factory:			weblo	gic.xml.jaxp.WebLogicXPathFactory
Schema Factor	y:		weblo	gic.xml.jaxp.WebLogicSchemaFactory
XML Input Fact	to ry:		weblo	gic.xml.jaxp.WebLogicXMLInputFactory
XML Output Fa	cto ry:		weblo	gic.xml.jaxp.WebLogicXMLOutputFactory
XML Event Fac	to ry:		weblo	gic.xml.jaxp.WebLogicXMLEventFactory
When To Cache	:		cache	e-on-reference V
Save				

Figure 2–17 Settings for XML Registry

13. Click Next if available and Deploy XML Registry to managed server.

Figure 2–18 Deploy XML Registry

🙆 Home Log Out Preferences 🔤 Record Help	Q
Home >Summary of XML Registries	
Create a New XML Registry	
Back Next Finish Cancel	
Deploy this XML Registry	
Select the server to which you would like to deploy this XML Registry.	
Servers	
AdminServer	
🗹 obpui_server1	
	I
Back Next Finish Cancel	

- 14. Log in to Weblogic console and navigate to Domain -> host_domain (if multiple domains available) -> Security tab.
- 15. Verify **Cross Domain Security Enabled** check box is unchecked.

Figure 2–19 Host Domain Security

ione >cm_doma ionfiguration ionfig	ain domain Monitoring r Unlock L rs you to defi alm: tive Identity main Aware	Control Iser Em ne the gen / Domain: Provider	Security bedded LDAP eral security s	Web Serv Roles	rice Security Policies	2DT Control SSL Certificate Dgic Server doma	Notes Revocation in. Use this	n Checking s page to cl	JASPIC hange the de	efault admini
ttings for cm_i configuration Seneral Filte Save This page allow @ Default Rea @ Administral Identity Dor	domain Monitoring r Unlock L rs you to defin alm: tive Identity main Aware	Control Iser Em ne the gen / Domain: Provider	Security bedded LDAP eral security s	Web Serv Roles	rice Security Policies	y ZDT Control SSL Certificate	Notes Revocation in. Use this	n Checking s page to cl	JASPIC hange the de	efault admini
configuration Seneral Filte Save This page allow E Default Rea E Administrat Identity Doo Identity Anonym	Monitoring r Unlock L s you to define alm: tive Identity main Aware	Control Iser Em ne the gen y Domain: Provider	Security bedded LDAP eral security s	Web Serv Roles	rice Security Policies	ZDT Control SSL Certificate Digic Server doma n	Notes Revocation in. Use this nyrealm	n Checking s page to cl	JASPIC	fault admini
Seneral Filte Save This page allow C Default Rea Administrat Identity Dor	er Unlock L rs you to defin alm: tive Identity main Aware	Iser Em ne the gen / Domain: : Provider	eral security s	Roles	Policies this WebLo	SSL Certificate	Revocatior in. Use this nyrealm	n Checking s page to cl	JASPIC	fault admini
Save This page allow Default Rea Administrat Identity Dor	rs you to defi alm: tive Identity main Aware	ne the gen Y Domain: Provider	eral security s	ettings for	this WebLo	ogic Server doma	in. Use this	s page to cl	hange the de	fault admini
This page allow Default Rea Administrat Identity Doo () () () () () () () () () () () () (alm: tive Identity main Aware	ne the gen 7 Domain: 2 Provider	eral security s	ettings for	this WebLo	ogic Server doma	in. Use this	s page to cl	hange the de	fault admini
This page allow	ıs you to defii alm: tive Identity main Aware	ne the gen 7 Domain: 2 Provider	eral security s	settings for	this WebLo	ogic Server doma	in. Use thi: nyrealm	s page to cl ▼	hange the de	efault admini
및 Default Rea 및 Administrat Identity Dor	alm: tive Identity main Aware	y Domain: : Provider	•			n	nyrealm	•		
Administrat	tive Identit main Aware	y Domain: Provider	:				,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,			
E Administrat	tive Identity main Aware	y Domain: Provider	:							
Identity Do	main Aware	Provider								
Identity Dor	main Aware	Provider								
🗌 街 Anonym			's Required							
🗌 街 Anonym										
	nous Admin	Lookup E	nabled							
Cross Doma	ain Security	Enabled								
xcluded Doma	ain Names:									
				11						
Advanced -										
Save										

2.3 Configuring Weblogic Domain For Host

The following steps explain how to configure weblogic domain for host. These steps are already integrated in Silent mode of installer so continue from step 11. For GUI mode follow all steps.

- 1. To perform domain configuration, you must run Admin server. Ensure that managed server is not running.
- 2. To check if managed server is running, login to Weblogic console and navigate to servers tab.

Figure 2–20 Summary of servers

🔞 Home Log Out Preferences 🔤 Record Help							
Home	Home > Summary of Servers						
Summa	Summary of Servers						
Confi	Configuration Control						
A ser This €2 € Cus Serv	A server is an instance of WebLogic Server that runs in its own Java Virtual Machine (TVM) and has its own configuration. This page summarizes each server that has been configured in the current WebLogic Server domain. C C C C C C C C C C C C C C C C C C						
	Name 🐵	Туре	Cluster	Machine	State	Health	
	AdminServer(admin)	Configured			RUNNING	🖋 ок	
	obphost_server1	Configured	obphost_cluster1	host_machine1	UNKNOWN	Not reachable	
Ne	New Cione Delete						

3. If managed server state is running, navigate to control tab and select managed server check box, click on shutdown button and select Force shutdown now.

Figure 2–21 Force shutdown

🔒 Home	e Log Out Preferences 🔤 Record Help				
Home >9	Summary of XML Entity Caches >Summary of XML Registries >XML Registry-0 >S	ummary of XML Registries >XML Registry-0 >Summary of XML Registries >S	ummary of Servers		
Summary	of Servers				
Configur	ation Control				
Use thi	s page to change the state of the servers in this WebLogic Server domain	. Control operations on Managed Servers require starting the Node Mar	nager. Starting Managed Servers in Star	ndby mode requires th	
C2					
Serve	rs (Filtered - More Columns Exist)				
Start	Resume Suspend V Shutdown V Restart SSL				
	When work completes	Machine	State	Status of Last Acti	
	Force shutdown now		State	Status of East Act	
	AdminServer(admin)		RUNNING	None	
e	obphost_server1	obphost_machine1	RUNNING	None	
Start	Resume Suspend v Shutdown v Restart SSL				

4. Click Yes on next screen.

Figure 2–22 Verify Server State

🔒 Home Log Out Preferences 🔤 Record Help					
Home >Summary of Servers					
iummary of Servers					
Configuration Control					
Use this page to change the state of the servers in this WebLogic Server domain. (Control operations on Managed Servers require starting the	Node Manager. Starting Managed Servers in			
25					
Customize this table					
Servers (Filtered - More Columns Exist)					
Start Resume Suspend - Shutdown - Restart SSL					
Server 🗞	Machine	State			
AdminServer(admin)		RUNNING			
obphost_server1	host_machine1	SHUTDOWN			
Start Resume Suspend V Shutdown V Restart SSL					

5. Check if Admin server is running. Access Weblogic Admin Console. If Weblogic Admin Console returns below screen Admin server is up.

Figure 2–23 Weblogic Admin Console

100	
400	
	Welcome
Light Demo	to work with the WebLogic Server domain ame: word:
	Login

6. If Admin Server is down, start Admin Server. To start Admin server, use the following command:

```
${middleware__home}/user_projects/domains/{domain_
name}/bin/startWeblogic.sh
```

- 7. Browse the folder where you have extracted the Installation package.
- 8. Run the following command:

cd <PATH>/TEMPDIR

9. Execute the Install.sh file as below:

./Install.sh

The install file prompts for the following input:

Field	Description	
Select the Domain Name (Host / UI)	Indicates whether to configure Host or UI domain. To set up host domain, enter host.	
Enter the Host IP/DNS (Domain Name Server)	Indicates the host IP address or DNS name.	
Enter Admin Server Port	Indicates the port number of admin server.	
Enter Weblogic home (WL_ HOME) directory (\${middleware home}/wlserver)	Indicates the home path of Weblogic. For example, /scratch/app/product/fmw/wlserver	
Enter Deployment/Installation directory name	Used to specify the directory where you want to install the OB Collections and OB Recovery Host Media Pack. By default, /scratch/app/product/fmw/obpinstall/obp is specified in this field. You can change the path and directory name, if required.	
Enter Domain Directory Path where Domain is created (\${middlewarehome}/user_ projects/domain)	Indicates the generic domain_home path.	
Enter Domain Name Directory (for example, host_domain)	Provide the domain name configured on weblogic and the directory present in domain_home.	
Enter Weblogic console username	Indicates the username of weblogic console.	
Enter Weblogic console password	Indicates the password of weblogic console.	
Select the option (1 or 2) where you want to target JMS Module:	Select the option 1 or 2 as per requirement or configuration in	
2 Cluster		
you want to target JMS module (for example, obphost_server1) -	If option 1 is selected then provide the name of the managed server.	
Enter the Name of the Cluster where you want to target JMS module (For example, obphost_ cluster1) -	If option 2 is selected then provide the name of the cluster.	

10. Verify whether the information passed is correct and enter 'Y' to continue the configuration or 'N' to avoid domain configuration as shown in the following screenshot:




Once you have completed the execution steps listed above, perform the following steps:

1. Connect to the database and execute below two statements to enable collection bootstrap.

You must set the collection bootstrap to true for the Collections module to function properly.

update flx_fw_config_all_b set prop_value='true' where prop_id='collection.bootstrap' and category_id='root'; update flx_fw_config_all_b set prop_value='true' where prop_id='collection.webservice.bootstrap' and category_ id='root';

 Need to update setDomainEnv.sh file to append EXTRA_JAVA_PROPERTIES and append PRE_ CLASSPATH as following, if not present:

EXTRA_JAVA_PROPERTIES before installation:

EXTRA_JAVA_PROPERTIES=" -Djavax.xml.parsers.DocumentBuilderFactory=com.sun.org.apache. xerces.internal.jaxp.DocumentBuilderFactoryImpl -Djavax.xml.transform.TransformerFactory=com.sun.org.apache.xa lan.internal.xsltc.trax.TransformerFactoryImpl -Dweblogic.configuration.schemaValidationEnabled=false -DentityExpansionLimit=1000 -Duser.home=\${OBP_ORACLE_ HOME}/config -Dfc.io.dir=\${OBP_ORACLE_HOME} \${ORACLE_MEM_ARGS} \${EXTRA JAVA PROPERTIES}"

After Installation:

EXTRA_JAVA_PROPERTIES=" Djavax.xml.parsers.DocumentBuilderFactory=com.sun.org.apache.
xerces.internal.jaxp.DocumentBuilderFactoryImpl Djavax.xml.transform.TransformerFactory=com.sun.org.apache.xa
lan.internal.xsltc.trax.TransformerFactoryImpl -

```
Djavax.xml.parsers.SAXParserFactory=com.sun.org.apache.xerces
.internal.jaxp.SAXParserFactoryImpl -
Dweblogic.configuration.schemaValidationEnabled=false -
Dweblogic.configuration.schemaValidationEnabled=false -
DentityExpansionLimit=1000 -Duser.home=${OBP_ORACLE_
HOME}/config -Dfc.io.dir=${OBP_ORACLE_HOME} ${ORACLE_MEM_ARGS}
${EXTRA JAVA PROPERTIES}"
```

Before Installation:

```
PRE_CLASSPATH="${OBP_ORACLE_HOME}/config:${OBP_ORACLE_
HOME}/config/security/oaam:${PRE_CLASSPATH}"
export PRE_CLASSPATH
```

After Installation:

```
PRE_CLASSPATH="${OBP_ORACLE_HOME}/config:${OBP_ORACLE_
HOME}/config/security/oaam:${OBP_ORACLE_
HOME}/obp.thirdparty.app.domain/APP-INF/lib/xmlparserv2-
12.1.0.2.0.jar:${PRE_CLASSPATH}"
export PRE_CLASSPATH
```

- Restart the admin server. To restart the Admin server, first stop the Admin server and then start it again.
 - a. To stop the Admin server, use the following command:

```
${middleware_home}/user_projects/domain/{domain_
name}/bin/stopWeblogic.sh
```

b. Delete tmp, cache directories present inside the server directory.

For example,

\${middleware_home}/user_projects/domain/{domain_
name}/servers/{server_name}/cache
\${middleware_home}/user_projects/domain/{domain_
name}/servers/{server_name}/tmp

c. Delete the stage folder also if it is present under the following location:

\${middleware_home}/user_projects/domain/{domain_ name}/servers/{server_name}/stage

Where {server_name} indicates all the servers that are available in the domain, such as AdminServer, Managed server (obphost_server1).

d. Then start Admin server by using the following command:

```
${middleware_home}/user_projects/domain/{domain_
name}/bin/startWeblogic.sh
```

4. Start the managed servers.

Ignore the below error while starting host managed server.

ERROR (support.license.ModuleInfoCache) Module feature configuration not found; no modules will be disabled. To resolve this error add a feature configuration of type F1MD and associated options for disabled modules.

3 Installing the Presentation Media Pack

You must follow the steps mentioned below to install the Presentation Media Pack:

- 1. Install the Presentation Media Pack.
- 2. Configure the web logic domain.
- 3. Deploy the Collections module.

3.1 Prerequisites

You must install the following software prior to installing the Presentation Media Pack:

- OBP 2.7.1.2.0 Host Media Pack.
- OBP 2.7.1.2.0 Presentation Media Pack.
- OB Collections and OB Recovery 2.7.1.2.0 Host Media Pack.

Note

Oracle JDK 1.8 Update 281 is required to run the OB Collections and OB Recovery V2.7 installer. For more information on JDK installation, see Chapter 5 Installing Third-Party Software.

3.2 Installing the Presentation Media Pack

To install the Presentation Media Pack, you must download the installation package from the following link:

https://edelivery.oracle.com/

Note

Ensure that the node manager is not running on any of the target installation machines. Also, ensure that there are no processes running on the listener ports for any of the OBP domain servers that are to be installed.

To install the Presentation Media Pack, perform the following steps:

- 1. Download the appropriate OB Collections and OB Recovery Media Pack. The media pack is available in this format: Collection_V[Build_Number].zip
- 2. Log in to the presentation server.
- 3. Create a temporary directory on the presentation server. For example, <TEMPDIR>.
- 4. Copy the OB Collections and OB Recovery Media Pack Collection_V[Build_Number].zip downloaded from edelivery to presentation Linux server using WINSCP.
- Copy the OB Collections and OB Recovery Media Pack Collection_V[Build_Number].zip into the <TEMPDIR>.

6. Uncompress the OB Collections and OB Recovery Media Pack Collection_V[Build_Number].zip by running the following commands:

```
cd <TEMPDIR>
unzip Collection_V[Build_Number].zip
```

The contents of the zip file are extracted in the TEMPDIR folder. The following files/folders are extracted:

- config.properties
- ouaf.properties
- data
- Install.sh
- collectioninstaller.jar
- collectionupgradeinstaller.jar

Figure 3–1 Collection_V[Build_Number].zip uncompressed

🦻 🚹 /scratch/install/Collection			
Name			
🐌 data			
👌 collectioninstaller.jar			
🖻 collectionupgradeinstaller.jar			
Config.properties			
🚳 Install.sh			
🚳 Install_Silent.sh			
🖉 ouaf.properties			

- 7. Collection installer operates in two modes. Go with either mode.
 - a. Silent Mode:
 - i. Update config.properties in the TEMPDIR directory.
 - ii. Update below sections in config.properties as shown in Figure 2-3:
 - INSTALLER DETAILS
 - IS_DEV_ENV=false
 - IS_UI_ENABLED=N
 - INITIAL DETAILS
 - HOST_CONFIG=N
 - UI_CONFIG=Y
 - BATCH_CONFIG=N

- CUSTOM_SUPPORT=N
- THREADPOOL_CONFIG=N
- HOST CONFIGURATION
- UI CONFIGURATION
- DB CONFIGURATION

In config.properties: Initial Details section contains the following fields

Table 3–1	Installer:	Initial Detail	s in config	.properties
-----------	------------	----------------	-------------	-------------

Field	Description
	Used to indicate the operating system on which you want to install the OB Collections and OB Recovery Host Media Pack. The options are:
Operating System	• Linux
SYSTEM)	• Windows
	You can only integrate OB Collections and OB Recovery with OBP on the Linux environment.
Installation	Used to specify the directory where you want to install the OB Collections and OB Recovery Host Media Pack. It should be same as the installation directory where OBP Host Media pack is installed.
	By default,
(INSTALL_DIK)	/scratch/app/product/fmw/obpinstall/obp is specified in this field. You can change the path and
	directory name, if required.
Generate Host Configuration	Used to deploy the OB Collections and OB Recovery
(HOST_CONFIG)	
Generate UI Configuration	Used to deploy the OB Collections and OB Recovery Presentation Media Pack components, if this option is
(UI_CONFIG)	true.
Generate Batch Configuration	Used to deploy the batch components used for configuring the batch server, if this option is true.
(BATCH_ CONFIG)	If you want to deploy the batch components, you must always set the HOST_CONFIG and BATCH_CONFIG value to true.
Generate Thread Pool Configuration	Used to deploy the threadpool components used for configuring the threadpool, if this option is checked.

Field	Description	
(THREADPOOL_ CONFIG)	If you want to deploy the threadpool components, you must always set the HOST_CONFIG , BATCH_ CONFIG and THREADPOOL_CONFIG value to true.	
Customization Support Required	Used to enable the customization support, if this option is true.	
(CUSTOM_ SUPPORT)		
	Used to specify domain name, possible options are:	
Domoin nomo	• UI	
	• HOST	
(DOMAINNAME)	HOST + BATCH	
	Select UI for presentation mediapack.	

In config.properties: Host Configuration section contains the following fields:

Field	Description
Host IP address	
(DB_IP_ ADDRESS)	10.180.6.11.
Host port	Used to specify the Host server WebLogic managed
(DB_PORT)	server port. For example, 8001.
Host Logs Directory (HOST_LOG_DIR)	Used to indicate the directory where the logs must be created on the host server. By default, /scratch/app/product/fmw/obpinstall/obp/ fclogs/logs is specified in this field. You can change the path and directory name, if required.
Java Home Path (JAVA_HOME)	Used to indicate the directory where Oracle JDK is installed. By default, /scratch/app/product/jdk1.8.0_281 is specified in this field. You can change the path and directory name, if required.
Hibernate Path (HIBERNATE_ JAR_DIR)	Used to indicate the directory where Hibernate jars downloaded and copied jars from /lib/required/ from extracted hibernate-release-4.1.0.Final.zip package by default, /scratch/app/product/hibernate is specified in this field. You can change the path and

Table 3–2 Installer: Host Configuration in config.properties

Field	Description	
	directory name, if required. Installer will copy the jars from this directory to Third party directory.	
Host weblogic user name		
(HOST_ WEBLOGIC_	Used to specify the host weblogic username.	
PASSWORD)		
Host weblogic password	Used to specify the host weblogic password.	
(HOST_ WEBLOGIC_		
PASSWORD		
Host Datasource name	Used to specify the host NonXA data source name. For	
(HOST_ DATASOURCE)	example, jdbc/FCBDataSource_NonXA.	
Host Admin server port		
(HOST_ ADMINSERVERP ORT)	Used to specify the Host server WebLogic admin server port. For example, 7001.	

The following fields appear in the Installer: UI Configuration screen:

Table 3–3 Installer: UI Configuration in config.propertiesties

Field	Description	
UI log directory	Used to specify the log directory for the	
(UI_LOG_DIR)	/oracle/deployable/sails/fclogs/logs.	
UI IP Address	Used to specify the host IP address. For example, 10.180.6.12.	
(UI_IP_ADDRESS)		
UI Port (UI_PORT)	Used to specify the UI server WebLogic managed server port. For example, 8001.	
UI Weblogic user name	Used to specify the UI WebLogic server admin user	
(UI_WEBLOGIC_	name.	

Field	Description	
USERNAME)		
UI Weblogic password		
(UI_WEBLOGIC_	Used to specify the UI WebLogic server admin password.	
PASSWORD)		
Host Datasource name	Used to specify the host NonXA data source name.	
(UI_DATASOURCE)	For example, jdbc/FCBDataSource_NonXA.	
UI Admin server port		
(HOST_ ADMINSERVERPORT)	Used to specify the UI server WebLogic admin server port. For example, 7001.	

In config.properties: DB Configuration section contains the following fields:

Table 3–4 Installer	: DB Configuration	in config.properties
---------------------	--------------------	----------------------

Field	Description	
Database IP address	Used to specify the database IP address. For example,	
(DB_IP_ ADDRESS)	10.180.7.77.	
Database port	Used to specify the database port. For example, 1521	
(DB_PORT)		
Database System ID (DB_SID)	Used to specify the database SID. For example,ORA125.	
Database user name	Used to specify the database user name.	
(DB_USERNAME)		
Database user password	Used to specify the database password.	
(DB_PASSWORD)		

Figure 3–2 Installer: config.properties file

```
IS DEV ENV=false
OBP HOST LIB=ob.host.app/ob.app.host.coll/APP-INF/lib
OBP_THIRDPARTY_LIB=ob.host.app/ob.app.host.tp/APP-INF/lib
IS_UI_ENABLED=N
IS STANDALONE=N
#INITIAL DETAILS
OPERATING SYSTEM =Linux
INSTALL DIR=/scratch/app/product/fmw/obpinstall/obp
HOST CONFIG=N
UI CONFIG=Y
BATCH CONFIG=N
CUSTOM_SUPPORT=N
THREADPOOL_CONFIG=N
DOMAINNAME=UI
#UI CONFIGURATION
UI_LOG_DIR=/scratch/app/product/fmw/obpinstall/obp/fclogs/logs
UI IP ADDRESS=
UI PORT=8001
UI WEBLOGIC USERNAME=weblogic
UI WEBLOGIC PASSWORD=
UI DATASOURCE=jdbc/FCBDataSource NonXA
UI_ADMINSERVERPORT=7001
#HOST CONFIGURATION
HOST_IP_ADDRESS=
HOST PORT=8001
HOST_LOG_DIR=/scratch/app/product/fmw/obpinstall/obp/fclogs/logs
JAVA HOME=/scratch/app/product/jdk1.8.0 172
HIBERNATE_JAR_DIR=/scratch/ofssobp/Hibernate_tmp
HOST_WEBLOGIC_USERNAME=weblogic
HOST_WEBLOGIC_PASSWORD=
HOST ADMINSERVERPORT=7001
#DB CONFIGURATION
DB IP ADDRESS=
DB_PORT=1521
DB_SID=P26184B
DB_USERNAME=COL27
DB PASSWORD=
HOST_DATASOURCE=jdbc/FCBDataSource_NonXA
#BATCH CONFIGURATION
THREADPOOL_NAME=MT
NUMBER_OF_THREADS=5
BATCH_USER=SYSUSER
BATCH_LOG_DIR=/scratch/app/product/fmw/obpinstall/obp/fclogs/logs
#THREADPOOL CONFIGURATION
WEBLOGIC SERVER HOME=/scratch/app/product/fmw/wlserver
RMI PORT=2020
DOMAIN_PATH=/scratch/app/product/fmw/user_projects/domains/
DOMAIN_NAME=ui_domain
CLUSTER_NAME=IUT2
CLUSTER_MULTICAST_LISTNER_IP_ADDRESS=232.0.0.1
CLUSTER MULTICAST LISTNER PORT=6660
TARGETTYPE=1
TARGETJMSSERVER=obpui_server1
```

iii. Save config.properties file.

iv. Check if Admin server is running and Managed is down. Access Weblogic Admin Console. If Weblogic Admin Console returns below screen Admin server is up.

Figure 3–3 Weblogic Admin Console



v. If Weblogic Admin Server is down, start Admin server, use the following command:

\${middleware__home}/user_projects/domain/\${domain_ home}/bin/startWeblogic.sh

vi. If only Admin Server is up, run installer using below commands:

sh Install Silent.sh

Installation Completed..! is prompted at the end.

- b. GUI Mode:
 - i. Run XManager application on Windows machine.
 - ii. To export the XManager UI on the Linux environment, run the following command:

```
DISPLAY=<IP>:0.0;
export DISPLAY
```

Where, IP is the IP address of your machine.

- iii. Update config.properties in the TEMPDIR directory
- iv. Set IS_UI_ENABLED=Y
- v. Run the following command to start the OB Collections and OB Recovery installer. The Installer: Initial Details screen appears.

java -jar collectioninstaller.jar

vi. In the Installer: Initial Details screen, select the Installation directory and UI Configurations.

OB Collection Installer : Initial Details		<u>.</u>	×
ORACLE	OB Collection Installer : Initial Details		
Operating System	Linux		
Installation Directory	/scratch/app/product/fmw/obpinstall/obp		
Genrerate Host Configuration			
Genrerate UI Configuration			
Genrerate Batch Configuration			
Generate Thread Pool Configurat			
Customization Support Required			
Ne	ext		

Figure 3–4 Installer: Initial Details

The following fields appear in the Installer: Initial Details screen:

Table 3–5 Installer: Initial Details

Field	Description
Operating System	Used to specify the operating system platform on which the installation is to be done. For example, Linux.
Installation Directory	Used to specify the directory where OB Collections and OB Recovery 2.7 should be installed. Note that this is the same directory where the OBP presentation or host media packs are installed. For example, /oracle/deployables/sails/fclogs/logslogs scratch/app/product/fmw/obpinstall/obp.
Generate Host Configuration	Deploys the host media pack components.
Generate UI Configuration	Deploys the presentation media pack components.
Generate Batch Configuration	Deploys the host media pack components. Note that host configuration must also be selected when batch components are to be enabled on the host that is used for configuring the batch server.
Generate Thread Pool Configuration	Deploys the Host media pack components. Note that host configuration must also be selected when Thread Pool components are to be enabled on the host that is used for configuring the Thread Pool Node.
Customization Support Required	Enables the customization support.

vii. Click Next. The Installer: UI configuration screen appears.

Figure 3–5 Installer: UI configuration

👼 OB Collection Installer : UI configurati	on	<u></u>		×
ORACLE	OB Collection Installer : UI configuration			
UI log directory	/scratch/app/product/fmw/obpinstall/obp/fclogs/logs			
Host IP address	< Host IP Address>			
Host port	8001			
Host weblogic user name	weblogic			
Host weblogic password	******			
UI IP address	< UI IP Address >			
UI port	8001			
UI Weblogic user name	weblogic			
UI Weblogic password	*****			
	Previous			
		_	_	

The following fields appear in the Installer: UI Configuration screen:

Table 3–6 Installer: UI Configuration

Field	Description	
UI log directory	Used to specify the log directory for the presentation server. For example, /oracle/deployable/sails/fclogs/logs.	
Host IP address	Used to specify the host IP address. For example, 10.180.6.11.	
Host port	Used to specify the Host server WebLogic managed server port. For example, 8001.	
Host Weblogic user name	Used to specify the Host WebLogic server admin user name.	
Host Weblogic password	Used to specify the Host WebLogic server admin password.	
UI IP Address	Used to specify the host IP address. For example, 10.180.6.12.	
UI Port	Used to specify the UI server WebLogic managed server port. For example, 8001.	

Field	Description
UI Weblogic user name	Used to specify the UI WebLogic server admin user name.
UI Weblogic password	Used to specify the UI WebLogic server admin password.

viii. Click Next. The Installer: Confirm Installation details screen appears.

Figure 3–6 Installer: Confirm Installation Details

ORACLE	Confirm installation details OB Collection Ins	staller : Confirm installat	– ion details	×
Installatii Operating System Installation Directo Genrerate Host Co Genrerate Batch C Customization Sup Theadpool Configu UI Config UI log directory : /s Is connection pool Host IP address : Host port : 8001	on Detail : Linux iny : /scratch/app/product/fmw niguration : false guration : true onfiguration : false port Required : false ration : false uration cratch/app/product/fmw/obpi ed : true Previous	w/obpinstall/obp install/obp/fclogs/logs Generate		

ix. Click Generate.

0	B Collection Ins	staller : Installing			
rectory structure. rectory structure succes UI properties. UI properties successf properties. properties. properties. eb war.	ssful. ful.				
	46%		J		
		Done			
, , , , , , , , , , , , , , , , , , ,	JU properties success I properties. I properties. I properties. eb war.	JU properties successful. I properties successful. I properties. I properties. eb war. 46%	U properties successful. I properties I properties b b war. 46%	46%	Ul properties successful. I properties . I properties . eb war. 46% Done

Figure 3–7 Installer : Installing

- x. Click Done
- 8. Log in to Weblogic console and navigate to XML Registries.
- 9. Add new XML Registry Properties
- 10. Change the following properties while adding XML Registry Properties and save changes.
 - Document Builder Factory = com.sun.org.apache.xerces.internal.jaxp.DocumentBuilderFactoryImpl
 - SAX Parser Factory = com.sun.org.apache.xerces.internal.jaxp.SAXParserFactoryImpl
 - Transformer Factory = com.sun.org.apache.xalan.internal.xsltc.trax.TransformerFactoryImpl

Figure 3–8 XML Registry

Home >Summary	of XML Regis	stries >XML R	egistry-0	
Settings for XML	. Registry-	-0		
Configuration	Targets	Contents	Notes	
Save				
Use this page to	o configure	an XML regis	try, in par	ticular to specify the implementation classes that WebLogic Server uses, by default, for the factories used
Name:			XML Re	gistry-0
Document Buik	der Factor	r y:	com.	sun.org.apache.xerces.internal.jaxp.DocumentBuilderFactoryImpl
SAX Parser Fac	tory:		com.	sun.org.apache.xerces.internal.jaxp.SAXParserFactoryImpl
Transformer Fa	com.sun.org.apache.xalan.internal.xsltc.trax.TransformerFactoryImpl		sun.org.apache.xalan.internal.xsltc.trax.TransformerFactoryImpl	
XPath Factory:			weblo	ogic.xml.jaxp.WebLogicXPathFactory
Schema Factor	у:		weblo	ogic.xml.jaxp.WebLogicSchemaFactory
XML Input Fact	to ry:		weblo	ogic.xml.jaxp.WebLogicXMLInputFactory
XML Output Fa	ctory:		weblo	ogic.xml.jaxp.WebLogicXMLOutputFactory
XML Event Fac	to ry:		weblo	ogic.xml.jaxp.WebLogicXMLEventFactory
When To Cache	2		cach	e-on-reference 🔻
Save				

- 11. In the Installer: Installingscreen, confirm the following:
 - Under the InstallDir, collectionenv directory is created.
 - Collectionenv folder contains the properties folder and properties folder contains the web directory.

3.3 Configuring Weblogic Domain for Presentation Server

The following steps explain how to configure weblogic domain for presentation server. These steps are already integrated in Silent mode of installer so continue from step 8. For GUI mode follow all steps.

 To perform domain configuration, Admin server must be running. Check if Admin server is running. Access Weblogic Admin Console. If Weblogic Admin Console returns below screen Admin server is up.

Figure 3–9 Weblogic Admin Console

ORACLE WebLogic Server Administration Console 12c	
12	Welcome Log in to work with the WebLogs Server Somain Username: Password: Login

2. If Weblogic Admin Server is down, start Admin server, use the following command:

\${middleware__home}/user_projects/domain/\${domain_ home}/bin/startWeblogic.sh

- 3. Browse the folder where you have extracted the Installation package.
- 4. Run the following command:

cd <PATH>/TEMPDIR

5. Execute the Install.sh file as mentioned below:

./Install.sh

6. The install file prompts for input. Enter the following details when prompted:

Table 3–7 Configuring Weblogic Domain for Presentation

Field	Description
Please select the Domain Name (Host / UI)	Enter UI to setup host domain.
Enter the Host IP/DNS	Enter UI IP address or DNS name.
Enter Admin server port	Enter Admin server port number.
Please enter Weblogic home (WL_ HOME) directory (\${middleware home}/wlserver)	Its Weblogic home path. For example, /scratch/app/product/fmw/wlserver
Enter Deployment/Installation directory name	Used to specify the directory where you want to install the OB Collections and OB Recovery Host Media Pack. By default, /scratch/app/product/fmw/obpinstall/obp is specified in this field. You can change the path and directory name, if required.
Enter Domain Directory Path where Domain is created (\${middleware home}/user_projects/domain)	Its generic domain_home path.
Enter Domain Name Directory (for	Provide the domain name configured on weblogic and the

Field	Description		
example, base_domain)	directory present in domain_home.		
Enter Weblogic console username	Username of weblogic console.		
Enter Weblogic console password	Password of weblogic console.		
Enter Database URL	Provide database connection URL.		
Enter Database user name	Provide database user name.		
Enter Database password	Provide password for the user.		
Select the option (1 or 2) where you want to target Datasource and CollectionWeb application: 1. Server 2. Cluster	Select the option 1 or 2 as per requirement or configuration in OBP.		
Enter the Name of Server where you want to target data source and collectionweb application (for example, obpui_server1)	If option 1 is selected then provide the name of the managed server.		
Enter the Name of Cluster where you want to target data source and collectionweb application (for example, obpui_cluster01)	If option 2 is selected then provide the name of the cluster.		

7. Verify whether the information passed is correct and enter 'Y' to continue the configuration or 'N' to avoid domain configuration.





Figure 3–11 Domain Configuration: Proceeding with the Process



8. Need to update setDomainEnv.sh file to append EXTRA_JAVA_PROPERTIES, if not present.

EXTRA_JAVA_PROPERTIES before installation:

EXTRA JAVA PROPERTIES=" -

```
Djavax.xml.parsers.DocumentBuilderFactory=com.sun.org.apache.
xerces.internal.jaxp.DocumentBuilderFactoryImpl -
Djavax.xml.transform.TransformerFactory=com.sun.org.apache.xa
lan.internal.xsltc.trax.TransformerFactoryImpl -
Dweblogic.configuration.schemaValidationEnabled=false -
DentityExpansionLimit=1000 -Duser.home=${OBP_ORACLE_
HOME}/config -Dfc.io.dir=${OBP_ORACLE_HOME} ${ORACLE_MEM_ARGS}
${EXTRA JAVA PROPERTIES}"
```

After Installation:

```
EXTRA_JAVA_PROPERTIES=" -
Djavax.xml.parsers.DocumentBuilderFactory=com.sun.org.apache.
xerces.internal.jaxp.DocumentBuilderFactoryImpl -
Djavax.xml.transform.TransformerFactory=com.sun.org.apache.xa
lan.internal.xsltc.trax.TransformerFactoryImpl -
Djavax.xml.parsers.SAXParserFactory=com.sun.org.apache.xerces
.internal.jaxp.SAXParserFactoryImpl -
Dweblogic.configuration.schemaValidationEnabled=false -
Dweblogic.configuration.schemaValidationEnabled=false -
DentityExpansionLimit=1000 -Duser.home=${OBP_ORACLE_
HOME}/config -Dfc.io.dir=${OBP_ORACLE_HOME} ${ORACLE_MEM_ARGS}
${EXTRA JAVA PROPERTIES}"
```

- 9. Restart Admin server. Before restarting, stop Admin server.
 - a. To stop the Admin server, use the following command:

```
${middleware_home}/user_projects/domain/{domain_
name}/bin/stopWeblogic.sh
```

b. Delete tmp, cache directories present inside the server directory.

For example,

\${middleware_home}/user_projects/domain/{domain_
name}/servers/{server_name}/cache
\${middleware_home}/user_projects/domain/{domain_
name}/servers/{server_name}/tmp

Where {server_name} indicates all the servers that are available in the domain, such as AdminServer, Managed server (obphost_server1).

c. Then start Admin server by using the following command:

```
${middleware_home}/user_projects/domain/{domain_
name}/bin/startWeblogic.sh
```

10. Once the Admin server is up, then start the managed servers.

3.4 Verifying the Presentation Server Deployment

Before you start verifying the presentation server deployment, configure SYSUSER on OID server as per the steps mentioned in Chapter 6 User Creation in Oracle Internet Directory.

To verify successful deployment, log on to the following URL:

http://IPADDRESS:PORT/CollectionAdmin/cis.jsp

Following are the components of the URL:

Table 3–8 Verifying the Presentation Server Deployment

Components	Description	
IPAddress Indicates the IP address of the presentation WebLogic server.		
Port	Indicates the Presentation WebLogic managed server port number.	

For example,

http://10.180.11:8001/CollectionAdmin/cis.jsp

4 External Interface Configuration

This chapter explains the OB Collections and OB Recovery external interface configuration details.

4.1 Oracle Identity Manager (OIM)

You can download the OIM Adapter configuration files from the following location:

http://edelivery.oracle.com

To extract the OIM Adapter configuration files, perform the following steps:

- 1. Download the appropriate OB Collections and OB Recovery Media Pack. The media pack is available in the following format: Collection_V[Build_Number].zip
- 2. Copy the Collection_V[Build_Number].zip into the <TEMPDIR>.
- 3. Uncompress Collection_V[Build_Number].zip by running the following commands:

```
cd <TEMPDIR>
unzip Collection_V[Build_Number].zip
```

The contents of the zip file are extracted in the TEMPDIR folder. The following files and folders are extracted:

- config.properties
- ouaf.properties
- data
- Install.sh
- collectioninstaller.jar
- collectionupgradeinstaller.jar
- 4. You can locate the OIM adapter configuration files under the following location: data/extxface/OIM/ folder. Following files are available:
 - collections_oim_export.xml
 - com.ofss.fc.extxface.oim.jar
 - com.ofss.fc.extxface.wsdl.client.jar

Note

For detailed configuration of the OIM Adapter, see the Oracle Banking Platform Collections User Provisioning Guide.

5 Installing Third-Party Software

You must install the Oracle JDK before you install the OB Collections and OB Recovery media packs, if not already installed on the servers.

5.1 Installing Oracle Java Development Kit (JDK)

You must install the JDK for 64-bit Linux operating system before you install presentation or host media pack.

To download, install and use JDK, follow the steps mentioned below:

1. Download the JDK file to any directory for which you have write permission. The file appears in the following format:

jdk-8u

<version>-linux-x64.bin

<version>jdk-8u<version>-linux-x64.bin

Note

Only the root user has the privilege to displace the system version of the Java platform that is supplied by Linux.

2. To set the execute permission, run the following command:

% chmod +x 8u <version>-linux-x64.bin

- 3. Change the directory location to the location where you want to install the files.
- 4. To execute the self-extract binary file, run the following command and then press Enter:

% ./jdk-8u<version>-linux-x64.bin

5. You must agree to the terms of the binary code license. This installs the JDK files in the following directory under the current directory: jdk.8.0_<version>

6 User Creation in Oracle Internet Directory

This chapter provides information about user creation in Oracle Internet Directory.

6.1 User Creation in OID

SYSUSER has to be created in Oracle Internet Directory (OID). It is used as default login into the CollectionAdmin. Follow the below steps to create a user:

1. Access the appropriate ODSM and select the required OID.

ODSM URL: <OID_IP>:7005/odsm.

Figure 6–1 Opening ODSM



2. Log in to the OID.

Figure 6–2 Log in to OID

Click the Data Browser tab, in the Data tree panel navigate to Root -> dc=com -> dc-oracle -> dc=in cn=Users as shown in below screen. Right click on any user already present and select Create option.

Figure 6–3 Navigating to Data Browser Tab

ORACLE Directory Services Manager		
A Home Data Browger 😤 Schema 👌 Security A	Advanced	
Tome is but browser as serence is second o		
🔍 🕑 🔅 Advanced		
Data Trac	sers	Apply Revert
	hed Name: cn=likers, dc=in dc=oracle dc=com	
Create	ne marte en-osciaj de injec-ordecide com	
Entry Create Like	t: November 3, 2017 3:42:37 AM EDT Modified at: November 3, 2017 3:44:17 AM EDT	
Configure Search Filter		
Encreoracle inte	Subtree Access Local Access	
Calcener Conduction Refresh SubTree Entries		
Edit RDN		Views Managed Attributes 🗸
Export LDIF	* CD	
> Earn=Server Col		
Delete	+ ×	
Delete the selected entry and its subtree	lass Name	
	top	
Conapse	orecontainer	
Expand All Below	nal Attributes	
Collapse All Below	ick to manage which optional attributes are shown below.	
⊿ 🔐 cn=Users		
A cn=orcladmin pwd	policysubentry cn=default, cn=pwdPolicies, cn=Common, cn=Products, cn=OracleContext, dc=in, dc=oracle, dc=co	
A cn=PUBLIC		
b d uid=atmuser		
o uid=developer		
A uid=OfflineLiser		
8 uid=OFSSUser		
o uid=posuser		
o uid=qualityadmin		
d uid=systemadmin		

Figure 6–4 Creating New Entry

ORACLE' Directory Services Mar	anager IIII OID - R261_OBP	Help Accessibility Mode Reset Session □
		G
👔 Home 🏾 👸 Data Browser 🛛 🚠 Schema 🕼	Security 60 primated	
		Apply Revert
🔁 Data Tree	Entry Properties Mandatory Properties Status	
🖻 🖻 Y 🛍 🌯 / 🖏 😓 🗙 🗞	Distinguist	
Entry	Created by	
Root 🔺	Created a Entry Properties	
En = jpsroot		
Email: Email internet directory	Attributes * Object Class Name	
> @ cn=OracleContext	Click on the add icon above to add a new row.	Views Managed Attributes -
CarcleSchemaVersion	Parent of the entry Browse	
Constant Configuration		
Conscience Configurations	Next Cancel	
A Code=com	* ~	
/ Codc=oracle	objectclass Name	
⊿ @dc=in	ordContainer	
> Calendar Server		
> 🔛 cn=Groups	optional Attributes	
Calcon=OracleContext	Eaclick to manage which optional attributes are shown below.	
⊿ 🔐 cn=Users	mutoritory therein. (and default an and believe and Company and Default and Company Advantation in the second data and	
	pwopoleysuberia y ch-detauti, ch-pwopolicies, ch-continon, ch-products, ch-oraclecontext, ac-in, ac-oracle, ac-co	
> 0 cn=PUBLIC		
O uid=atmuser		
> 8 uid=obradmin		
8 uid=OfflineLiser		
8 uid=OFSSUser		
> 8 uid=posuser		
b & uid=qualityadmin		
) 👌 uid=systemadmin		

- 4. Create new entry in **Users** tab and add the following Object classes:
 - top
 - person
 - fcPerson
 - organisationalPerson
 - inetOrgPerson
 - orclUser
 - orclUserV2

Figure 6–5 Adding Object Classes: Top

ORACLE Directory Services Mar	nager Bill Old - R261_	OBP 🔣 Help 🔻 Accessibility Mode 💌 Reset Session 🔘
		۹
Home Po Data Browser B Schema	Sanuthu Ad Advanced	•••
The nome of bata browser as achema to	Security OC Auvaiceu	
🔍 🕑 🗱 Advanced		
Pe Data Tree	Users	Apply Revert
	Distinguished Name: cn=Users, dc=ii add object close	
	Created by: cn=orladmin	
Entry	Created at: November 3 2017 3-47-5 Select an object class to add the object class list of the new entry.	
> Instruction	Type a keyword in the search box to Enter a keyword to search. Keyword supports pattern	
bicn=oracle internet directory	Attributas Subtraa Arcare Local A	
> Calcn=OracleContext	Search top	
> Carcn=OracleSchemaVersion	Result: 2 objectclass(es) found.	Views Managed Attributes 🕶
Complexity in the second se		
Email: Enver Configurations	° cn users Name	
Image:	orclDBLSAuditOption	
⊿ @dc=com	top	
⊿ @dc=oracle	objectclass top	
⊿ 🎧dc=in	orclContainer	
Image: Comparison of Compar	Ontional Attributes	
Common		
Image: Context Ima	Calcick to manage which options	
⊿ CareUsers	nutration that a second desce	
	property interview in accuracy	
> @ cn=PUBLIC		
b d uid=atmuser	OK Cancel	
> Q uid=developer		
Q uid=obpadmin		
> 8 uid=OFINITeoser		
> 8 uidenosurar		
A uid=gualityadmin		
8 uid=systemadmin		

Figure 6–6 Adding Object Classes: Person

ORACLE Directory Services Ma	anager	🛅 OID - R261_OBP 🔣 Help 🔻 Accessibility Mode 💌 Reset Session 🔘
,		
😭 Home 🎘 Data Browser 🛛 😤 Schema 🐍	Security 60 Advanced	
C Data Tree C Tree C Tree Entry C C C C C C C C C C C C C C C C C C C	Created by: cn=utents, dc=# Add Object Class x X Created by: cn=utents, dc=# Created by: cn=utents, dc=#	Apply Revert
Conceptional internet directory Conceptional internet directory Conceptional internet directory Conceptional internet directory Conceptional Configuration Conceptional Configuration Conceptional Configuration Conceptional Configuration Conceptional Configuration Conceptional Context Configuration Context Configuratio Context Configuration	Attributes Subtree Access Local A Search person Person Cn users Name AfePerson netOr/Person netOr/Person odjectclass top ortID/Person	Views Managed Attributes +
 Cane-Calendar Server Cane-Groups Cane-OracleContext 	Optional Attributes person person residentialPerson residentialPerson	
	pwdpołicysubentry cn=defaultycz OK Cancel	

Figure 6–7 Adding Object Classes: Oracle User

ORACLE Directory Services Ma	anager III - 1261_0	SBP 🔛 Help 🔻 Accessibility Plode 👻 Reset Session 🗲
		(
🟦 Home 🏾 😤 Data Browser 🛛 🖧 Schema 🛛 🔓	security to Advanced	
Advanced		
Po Data Tree	Users	Appiy Revent
	Distinguished Names configure double and a second	
LIY (1) 4L / A 🖂 🗶 🕸	Add Object Class	
Entry	Created by: cn=orcladmin Select an object class to add the object class list of the new entry	
A Caroot	Created at: November 3, 2017 3:42:3 Sector of oper close to do do the object ob	
Emeral psroot	Type a keyword in the source box to inter the ist of objectousses.	
En = oracle internet directory	Attributes Subtree Access Local A	
Cm Cn=OracleContext	Search orcluser	Managed Attributes -
Comparison Comparis	Result: 4 objectclass(es) found.	Views Manageo Attributes +
Image:		
En = Server Configurations	Name	
Image:	A w orclUser	
⊿ @dc=com	Name ordUserProvStatus	
⊿ @dc=oracle	objectclass ton orclUserStats	
⊿ 🚱dc=in	ordUserV2	
Calendar Server		
Cm = Groups	Optional Attributes	
Image: Context Ima	Caralleck to manage which optiona	
⊿ 🔤 cn=Users		
	pwdpolicysubentry cn=default,ci pracle,dc=co	
O cn=PUBLIC O		
o did=atmuser	OK Cancel	
o did=developer		
d uid=obpadmin		
b did=OfflineUser		
d uid=OFSSUser		
> 8 uid=posuser		
d uid=qualityadmin		
d uid=systemadmin		

5. Select the Parent of the entry (Distinguished Name DN) by clicking the Browse button. Select the path as Root -> dc=com -> dc-oracle -> dc=in -> cn=Users

Figure 6–8 Selecting Distinguished Name

ORACLE' Directory Services Ma	anager 🔟 UD - R261_08P 🔛 H	ap Accessibility Mode Reset Session
🟦 Home 🇞 Data Browser 🛛 📇 Schema 👌	Escurity 60 Advanced	
Advanced	The series of th	Apply Revert
🔁 Data Tree		
🕑 🕑 7 💩 🔍 🖉 🖕 🛣 🗞	Distinguished Name: cn=L Select Distinguished Name (DN) Path ×	
Entry	Created by Create New Er	
A Root	Created a Created a	
En=jpsroot		
> Source internet directory	Attributes Entry Proper	
> CarcieContext	Choose the tar	Managed Attributes -
Contracted SchemaVersion		Views Manageo Attributes +
Image:	Entry Proper > Cm-OracleSchemaVersion	
En = Server Configurations	> Characteristic configuration	
Commentation Control Contro	> a cn=Server Configurations	
⊿ @dc=com	Description of the subconfigure and the subconfi	
⊿ @dc=oracle	• Object: ▲ 🖨 dc=com	
⊿ @dc⊷in	A Galacian	
CMCn=Calendar Server	Option / @dc=in	
> CM cn=Groups	District Dis	
> Care OracleContext	E Cara Crouns	
⊿ CM cn=Users	Parent of the Pa	
Cn=orcladmin		
> 👌 cn=PUBLIC	Cancel Cancel	
id uid=atmuser	Select Cancel	
> 👌 uid=developer		
▷ ☐ uid=obpadmin		
UID=OfflineUser		
⇒ auid=OFSSUser		
> Q uid=posuser		
Q uid=quaiityadmin		
i uid=systemadmin	·	

6. Click the Next button.

Figure 6–9 Selecting Entry Properties

ORACLE Directory Services Man	lager				D 0	ID - R261_OBP 🔣 Help 🛛 Accessibility Mode 👻 Reset Session 🕞
,						G
A Harris Roberts Resures R. Schures R. 1						•
The series of th	security OO P	avanceu				
🔍 🕑 🔅 Advanced	2					
B Data Tree	User	s				Appry Revert
	Distinguish	ed Name: cn=Users, d	lc=in,dc=oracle,dc=com			
Entry	Created by	Create New Entry			×	
A Root	Created a					
En = jpsroot						
Email:	Attributes	Entry Properties	Mandatory Properties Status			
OracleContext		Choose the type of LD	AP entry to create using the Object Class, then	choose the parent of the en	try using the browse tree.	Views Managed Attributes -
Contracted ChemaVersion		Entry Properties			· · ·	inche in a second s
Construction configuration		cituy Properties				
Configurations			+ ×			
> cmcn=subconfigsubentry			Name			
	objectc		orclUser			
dc=in		* Object Class	frBerron			
Surger-Calendar Server			inetOrgPerson			
	Option		organizationalPerson			
> Calcone Context			person			
⊿ Cn=Users		Parent of the entry	cn=Users, dc=in,dc=oracle,dc=com	Browse		
	pwdpol					
G cn=PUBLIC					Next Cancel	
d uid=atmuser						
b d uid=developer						
b d uid=obpadmin						
b 👌 uid=OfflineUser						
id uid=OFSSUser						
b d uid=posuser						
d uld=qualityadmin						
uid=systemadmin						

7. Select the **Relative Distinguished Name** as **uid.** Then enter the values of cn, sn and uid as **SYSUSER.**

Figure 6–10 Selecting Mandatory Properties

ORACLE' Directory Services	Manager	📧 OID - R261_OBP 🔣 Help 🔻 Accessibility Mode 🔻 Reset Session
Home B Data Browser B Schema	8 Security 64 Advanced	
Advanced 😥	Con Users	Apply Payart
😤 Data Tree	USEIS COSEIS	oppy Reven
	Distinguished Name: cn=Users, dc=in,dc=oracle,dc=com	
Fatry	Created by: cn=orcladmin Modified by: cn=orcladmin	
4 Report	Created at: November	
> Car=ipsroot	Create New Entry	`
Enclosed internet directory	Attributes Subtree Ac	
Image: Context Ima	Entry Properties Mandatory Properties Status	
[3] cn=OracleSchemaVersion		Views Managed Attributes +
Image:	Choose an attribute which will be the RDN value for this entry and enter a value for that attribute.	
En = Server Configurations	* cn users Mandatory Properties	
Image:		
⊿ @dc=com	Name	
⊿ @dc=oracle	objectclass top * sn SYSUSER	
⊿ @dc=in	ordC * uid SYSUSER	
Calendar Server	Optional Attails * Relative Distinguished Name uid	
> Caroups		
Image: Context Context	UIGESTSUSER, cn=Users, dc=in,dc=oracle,dc=com	
⊿ 📷 cn=Users	mudical constants	
b 👌 cn=orcladmin	Back Net Carte	
on=PUBLIC		
b d uid=atmuser		
b & uid=developer		
id uid=obpadmin		
id uid=OfflineUser		
D uid=OFSSUser		
o uid=posuser		
id = qualityadmin		
D uid=systemadmin		

8. Click Next. The new user is created in OID and a message appears as shown in Figure 6–11.

Figure 6–11 Status Message

ORACLE Directory Services Manager		🛅 OID - R261_OBP 🔣 Help 🔻 Accessibility Mode 🔻 Reset Session 🔘
		G
		·
Thome 😵 Data Browser 🖓 Schema 🗞 Security	OO Advanced	
Advanced		
	Users	Apply Revert
	inquiched Namer co-licers, do-in do-coade do-com	
	inguisired Name: cn=osers, oc=m,oc=oracle,oc=com	
Entry	sated by: cn=orcladmin Modified by: cn=orcladmin	
A Root Cr	eated at: November 3, 2017 3:42:37 AM EDT Modified at: November 3, 2017 3:44:17 AM EDT	
Care-ipsroot		
Attri	butes Subtree Access Local Access	
Charlescharal/ersion	Create New Entry	× Views Managed Attributes +
Image and the second seco		
> Consider Configurations		
> Caresubconfigsubentry	Entry Properties Mandatory Properties Status	
⊿ @dc=com	Statue	
⊿ @dc=oracle	Add Failed, Host='10 184 157 230' Details: [] DAD: error code 58 - Object already exists] Click "Back" button to specify corre-	ct values
⊿ @dc=in		
Calendar Server	Back Finish	Cancel
> 🖾 cn=Groups	Purchase which antional attributes are shown below	
Calcone Oracle Context	Ligurick to manage which optional autobutes are shown below.	
∠ Calca – Users	nwdoolicysubantry	
	proponeys does of a comparison of the common of the rest of the context, a comparison of the context, a contex	
> 0 cn=PUBLIC		
G uid=atmuser		
o uid=developer		
a uid=OffineLiser		
A uid=OFSSUser		
B uid=posuser		
B uid=qualityadmin		
> 👌 uid=systemadmin		

9. Select that user 'uid=SYSUSER' from the Data tree list.

Figure 6–12 Selecting the User

DRACLE Directory Services Mai	nager	UD - K201_00P Help V Accessibility Mode V Reset Session
🔒 Home Bata Browser 🛛 🛔 Schema	Security 🐼 Advanced	
Advanced	8 svenser	Apply Revert
😤 Data Tree	W STORE	
- • • • • • • • • • • • • • • • • • • •	Distinguished Name: uid=sysuser,cn=Users,dc=in,dc=oracle,dc=com	
	Created by: cn=orcladmin Modified by: cn=orcladmin	
	Created at: November 11, 2017 4:19:00 AM EST Modified at: November 11, 2017 4:38:39 AM EST	
Comeoracle internet directory		
Contect Context	Person Attributes Subtree Access Local Access	
Constant and a configuration		
Contractions		
Construction	Basic User Information	
4 Code=com		
A Godc=oracle	User Name sysuser	
⊿ @dc=in	First Name sysuser	~
Calendar Server		
> Caroups	Last Name sysuser	
Description = OracleContext	Title	
⊿ Marchael Z and A a	Manager	
b 👌 cn=orcladmin	Employee Number	
b Cn=PUBLIC	Employee Number	V
b 👌 uid=atmuser	Email Address sysuser@oracle.com	
b did=developer	Upload Photo Choose File No file chosen 💥	
b did=obpadmin		
b d uid=OfflineUser	Contract Information	
o uid=OFSSUser	Contact Information	
d uid=posuser		
oliminative distribution	Postal Address Telephone Nu	Imber
i uid=systemadmin	Home Postal Address	1obile
> 👌 uld=sysuser		
o uia=weblogic		

10. Click the Attributes tab, and then click the Add symbol under Optional Attributes section.

Figure 6–13 Attributes Tab

ORACLE Directory Services Manager	III OID - K261_OBP 🐹 Help 🔻 Accessibility Mode 🖝 Reset Session 💋
	Q
😭 Home 👸 Data Browser 🚓 Schema 🔥 Security 🚱 Advanced	
	Annly Revert
😫 Data Tree	hopey Hereic
🕐 🕐 🍸 🍓 🛝 🥒 🖾 🖕 🗶 🏷 Distinguished Name: uid=sysuser,cn=Users,dc=in,dc=oracle,dc=com	
Entry Created by: cn=orcladmin Modified by: cn=orcladmin	
Created at: November 11, 2017 4:19:00 AM EST Modified at: November 11, 2017 4:38:39 AM EST	
V and the state interface interface intervention of the state inter	
Consider the second secon	
Carc=replication configuration	Views Managed Attributes 👻
> Configurations	
> 🖾 cn=subconfigsubentry * cn sysuser 🕂 🙀	
⊿ @udc=com	
⊿ @dc=oracle *sn sysuser + X	
▷ 🔯 cn=Calendar Server	
> Care-Groups vame	
Copy Copy Copy Copy Copy Copy Copy C	
⊿ (IIII cn=Users fcPerson	
OrganizationalPerson	
> 👌 cn=PUBLIC inetOrgPerson 👻	
b g uid=atmuser Optional Attributor	
b § uid=developer	
Q uid=obpadmin Carlick to manage which optional attributes are shown below.	
▷ d uid=OfflineUser	
b 8 uid=OFSSUser	
> d uid=posuser	
> g uid=qualityaomin	
Q uie=systemaorinin	
> UIG-system	*
Q uid=weblogic	

11. Click on Add button under Optional Attributes and add the 'userPassword' attribute from the All Attribute list and click the Add Attribute button.

Figure 6–14 Adding User Password

Home & Data Browser & Schema &	Security bol Advanced Security bol Advanced Stringuished Name: uid=sysuser,cn=Users,dc=in,dc=oracle,dc=com Interact By: cn=ordadmin Created by: cn=ordadmin Modified by: cn=ordadmin Created by: cn=ordadmin Modified by: cn=ordadmin	Apply Rever
Construction of the second secon	Person Attributes Attributes All Attributes * col sysuer * col sysuer * so system * so so <	Views Managed Attributes •
 o uid=atnicser o uid=developer o uid=obpadmin o uid=offlineUser 	Optional Attributes Gathering which optional attributes are shown below.	
d uid=OFSSUser d uid=posuser d uid=posuser d uid=qualityadmin d uid=systemadmin	accessibleTargetUnits OBP_BU accessibleTargetUnits OBP_BU businessUnit OBP_BU	

12. Enter the value in the **userPassword** field and click the **Apply** button in right hand corner.

Figure 6–15 Setting User Password

ORACLE Directory Services Manager	OID - K261_OBP 🐹 Help 🔻 Accessibility Mode 🖝 Reset Session 🔘
, j	٥
	•
🕜 Home 陵 Data Browser 🚓 Schema 🖓 Security 🐼 Advanced	
Sysuser	Apply Revert
C Data Tree	
📴 📴 🍸 🥺 🍓 🧏 🥒 📮 🖕 💥 🏷 Distinguished Name: uid=sysuser, cn=Users, dc=in, dc=oracle, dc=com	
Entry Created by: cn=orcladmin Modified by: cn=orcladmin	
Created at: November 11, 2017 4:19:00 AM EST Modified at: November 11, 2017 4:38:39 AM EST	
> CarcheOrateContext	
Carden=OracleSchemaVersion Person Attributes Subtree Access Local Access	
> Care-replication configuration	Views Managed Attributes -
> Configurations	views managed Adabates -
> 🔤 cn =subconfigsubentry 👘 cn svsuser 🔒 💥	<u>^</u>
⊿ @dc=com	
🛛 🖓 dc=oracle * sn sysuser 💠 🛠	
⊿ @dc=in ♣ ₩	
> Care-Calendar Server	
> Calcher = Groups + Name	
Context Objectclass person	
⊿ Cancellaers fcPerson	
OrganizationalPerson OrganizationalPerson	
inetOrgPerson 🗸	
> 👌 uid=atmuser	
S 3 uid=developer	
d uid=obpadmin	
≥ 8 uid=OffineUser	
o uu or System uu system v	
▶ Q ula=posuser userPassword	
> Q ui=quantyaomin	
> Uutasysuer	•
V uiu-webiogie *	

The confirmation message appears as "Changes have been applied successfully." as shown in Figure 6–16.

Figure 6–16 Confirm Message

ORACLE Directory Service	Manager 🖿 👘 OID - R251_OBP 🔣 Help 🔻 Accessibility Mode 🛩 Rd	🛅 OID - R261_OBP 🐹 Help 🔻 Accessibility Mode 💌 Reset Session 🧲	
		-	
The Home 🔁 Data Browser 🚓 Schem	Security Too Advanced		
Advanc	Apr Apr	oly Revert	
😤 Data Tree			
📑 🖻 🍸 🚯 🌯 🥖 🖳 🖕 🐮	Distinguished Name: uid=sysuser,cn=Users,dc=in,dc=oracle,dc=com	-	
Fatry	Created by: cn=orcladmin Modified by: cn=orcladmin		
and y	Created at: November 11, 2017 4:19:00 AM EST Modified at: November 11, 2017 4:38:39 AM EST		
Carde Center to Control Control			
Conside Context	Confirmation	×	
Ch=OracleSchemaversion	Changes have been applied successfully.	-	
> Carcin-replication configuration			
Circle-Server Conligurations	Person Attributes Subtree Access Local Access		
de-com			
A Code=oracle	Views Managed	Attributes 👻	
		<u>^</u>	
S Calendar Server	* cn sysuser • • •		
N Carendar Server	* cn svericer		
Carcine Groups			
A Contraction of the second se			
A cn-orcladmin	Name		
> 8 cn=DLIBLIC	top		
N 8 uideatmuser	objectclass person		
N 8 uid=developer	fcPerson		
N 8 uid=obnadmin	organizationalPerson		
> 8 uid=Offlinel.lser	inetor@Person v		
N 8 uid=OFSSUser	Optional Attributes		
8 uid=posuser	actick to manage which optional attributes are shown below.		
A uid=position			
8 uid=systemadmin	uid sysuser 📥 💥		
> B uid=sysuser		-	
> 8 uid=weblogic	×		

13. Once user is created, add it into **Administrator group**. Navigate in Data tree as Root -> dc=com -> dc-oracle -> dc=in -> cn=Groups.

Figure 6–17 Adding to Administrator Group

ORACLE Directory Services Man	nager		🔟 OID - R261_OBP 🐹 Help 🔻 Accessibility Mode 👻 Reset Session 🕞
			(C
🕜 Home 🏾 🇞 Data Browser 🛛 🖧 Schema 🛛 🗞	Security 60 Advanced		
A market			
	😤 Administra	ators	Apply Revert
😤 Data Tree	0000		
🕒 🕒 Y 🕅 🔍 🖉 🚍 🖕 🗞	Distinguished Nam	e: cn=Administrators,cn=Groups,dc=in,dc=oracle,dc=com	
Entry	Created by: cn=or	cladmin Modified by: cn=orcladmin	
A Root	Created at: Noven	nber 3, 2017 3:45:51 AM EDT Modified at: November 11, 2017 4:19:32 AM EST	
> 🔄 cn=jpsroot			
Email: Email internet directory	Group Attributes	Subtree Access Local Access	
image: Context in the second secon			
Compared Comparison			
Complexity in the second se	Display Name	Administrators	
En = Server Configurations		B 6.0	
Image: Control Cont		· · · · · · · · · · · · · · · · · · ·	
⊿ @dc=com		Owner Name	
⊿ @dc=oracle	Owner	cn=orcladmin,cn=Users,dc=in,dc=oracle,dc=com	
⊿ @dc=in	omici		
Calendar Server			
⊿ Car=Groups			
Cigcn=Administrators			
> COCHEATM_KOIE	Description	Group of Administrators 🚽 🔆	
BBcn=Individual-Broker		▲ %	
S8cn=Individual-Droducer		Member Name	
88cn=OCS_PORTAL_USERS		uid=ohnadmin cn=users dc=in dc=oracle dc=com	
88cn=OfflineRole	Members		
> 🛗 cn=Organisation-Broker		uid=otssuser,cn=users,oc=in,oc=oracle,oc=com	
> 👪 cn=Organisation-Introducer		uid=sysuser, cn=users, dc=in, dc=oracle, dc=com	
> 🛟 cn=POS_Role		uid-uushlaais en-usam de-in de-araela de-com	
> 🖏 cn=QualityAdministrator			
> 🍪 cn=SystemAdministrators 🖕			

14. Click the **Attributes** tab and click the **Add** button in 'uniqueMember' table. Add the below entry into it.

uid = SYSUSER, cn = users, dc = in, dc = oracle, dc = com

Figure 6–18 Attributes Tab

			🛅 OID - R261_OBP 🔣 Help 🔻 Accessibility Mode 🔻 Reset Session 🧲	
	2			
🟦 Home 隆 Data Browser 🛛 🖧 Schema 👌	Security 60 Advanced			
💊 🛞 🔉 Advanced	20			
PR Data Tree	📸 Administra	tors	Apply Revert	
	Distinguished Nam	e: cn=Administrators,cn=Groups,dc=in,dc=oracle,dc=com		
Entry	Created by: cn=ore	ladmin Modified by: cn=orcladmin		
4 BRoot	Created at: Novem	ber 3, 2017 3:45:51 AM EDT Modified at: November 11, 2017 4:19:32 AM EST		
> Encr=ipsroot				
Cn=oracle internet directory	Group Attributes	Subtree Access Local Access		
> Carcn=OracleContext	numbered a			
> Cn=OracleSchemaVersion			Views Managed Attributes 🕶	
> Careplication configuration	Colick to mar	age which optional attributes are shown below.	A	
Encesserver Configurations				
> a cn=subconfigsubentry	description	Group of Administrators 🕂 🐥 💥		
⊿ @dc=com				
⊿ @dc=oracle	displayName	Administrators		
⊿ @dc=in		4 %		
> 🔯 cn=Calendar Server		Owner Name		
⊿ Cm=Groups		an-andedmin an-Usana da-in da-anada da-ana		
	owner	ch=orcladmin,ch=osers,uc=in,uc=oracle,uc=com		
b Constant Constan				
D Communication Communicati				
b and the second sec		a. w		
Description Control				
Description State Sta		Member Name		
b 👯 cn = Organisation-Broker	uniqueMember	uid=sysuser.cn=users,dc=in,dc=oracle,dc=com		
b the control of t	Linguertember	uid=obpadmin,cn=users,dc=in,dc=oracle,dc=com		
> 🖏 cn=POS_Role		uid=ofssuser.cn=users.dc=in.dc=oracle.dc=com		
b Calcological Control Cont			· · · · · · · · · · · · · · · · · · ·	
		uid-ennuear m-uears de-in de-araela de-com		

15. Click the **Apply** button. The confirmation message appears as "Changes have been applied successfully."

Figure 6–19 Confirmation message

ORACLE Directory Services	5 Manager	🛅 OID - R261_OBP 🔀 Help 🔻 Accessibility Mode 👻 Reset Session 🧲	
		G	
A Home P Data Browser & Schema	Ba Security bd Advanced		
💊 🛛 🕑 🗱 Advanced		Aught Devent	
😤 Data Tree	♀ sysuser	Appry Revert	
	Distinguished Name: uid=sysuser,cn=Users,dc=in,dc=oracle,dc=com	A	
Entry	Created by: cn=orcladmin Modified by: cn=orcladmin		
a a secola interest disenter:	Created at: November 11, 2017 4:19:00 AM EST Modified at: November 11, 2017 4:38:39 AM EST		
Charle Context			
Contracted and the second and t	Contirmation	~	
> Care ended and a configuration	Changes have been applied successfully.	.	
> Con=Server Configurations	4	Þ	
Image: Second S	Person Attributes Subtree Access Local Access		
⊿ @dc=com		Views Managed Attributes -	
⊿ @dc=oracle			
⊿ @dc=in	* cn sysuser 🖶 🙀		
Calendar Server			
> Groups	sn sysuser		
Image: Context in the second secon	4 X		
⊿ Carcn=Users	Name		
cn=orcladmin	top		
Ch=POBLIC	objectclass person		
> a uid=davalonar	fcPerson		
> 8 uid=obpadmin	organizationalPerson		
A uid=OfflineUser	inecorgression 🗸		
8 uid=OFSSUser	Optional Attributes		
o uid=posuser	Table to manage which optional attributes are shown below.		
o uid=qualityadmin			
b 👌 uid=systemadmin	uid sysuser 💠 🛪		
> 👌 uid=sysuser		*	

16. Run the following query to ensure that Collection Dashboard is shown as the default page after logging in.

```
update flx_fw_config_all_b set prop_value='Role' where prop_
id='collection.roles' and CATEGORY_ID='BROPConfig';
```

where **Role** = configured user role in step 14.
7 Threadpool Configuration

This chapter provides information about threadpool configuration.

7.1 Manage Requisite Files in lib

To manage the requisite files in lib:

- 1. Go to Putty and change directories to ../obpinstall/obp/collectionenv/standalone/lib/ext.
- 2. If wlfullclient.jar, dms.jar and ojdl.jar are present in this directory, then go to step 8.
- 3. If this directory is empty, change directories to the server/lib directory.

../app/product/fmw/wlserver/server/lib

4. Use the following command to create wlfullclient.jar in the server/lib directory:

java -jar wljarbuilder.jar

```
Figure 7–1 Command to Create wlfullclient.jar
```

```
Integrating jar -->(1)/(37265)//scratch/app/product/fmw/modules/com.bea.core.htt
p.pubsub.mbean_1.7.0.0.jar
Integrating jar <--(1)/(37269)/(4)//scratch/app/product/fmw/modules/com.bea.core
.http.pubsub.mbean_1.7.0.0.jar
Integrating jar ->(1)/(37269)//scratch/app/product/fmw/modules/com.bea.core.dia
gnostics.accessor_1.5.0.0.jar
Integrating jar <--(1)/(37365)/(96)//scratch/app/product/fmw/modules/com.bea.core
e.diagnostics.accessor_1.5.0.0.jar
Created new jar file: /scratch/app/product/fmw/wlserver_10.3/server/lib/wlfullcl
ient.jar
[ofssobp@mum00are lib]$</pre>
```

5. Copy the generated wlfullclient.jar to path:

../obpinstall/obp/collectionenv/standalone/lib/ext/

- Copy dms.jar to path ../obpinstall/obp/collectionenv/standalone/lib/ext from ../app/product/fmw/oracle_common/modules/oracle.dms/
- 7. Copy ojdl.jar to path ../obpinstall/obp/collectionenv/standalone/lib/ext from

.. app/product/fmw/oracle_common/modules/oracle.odl/

8. Add below properties to setDomainEnv.sh if not present.

WLS_JDBC_REMOTE_ENABLED="-Dweblogic.jdbc.remoteEnabled=true" export WLS_JDBC_REMOTE_ENABLED

9. In ThreadpoolEnv.sh file at ../obpinstall/obp/collectionenv/standalone/lib, verify that the following properties are according to the environment:

export JAVA_HOME=/scratch/app/product/jdk1.8.0_281/jre

export SPLEBASE..../product/fmw/obpinstall/obp/collectionenv export OBPBASE=..../product/fmw/obpinstall/obp export com_ofss_standlone_executor_filterId=XXXXXX

#specify com_ofss_standlone_executor_filterId property if there is any filter defined.

#Check from FLX_RL_FILTER_TEXTS TABLE in DB for filter defined.

- 10. Verify threadpoolworker.properties.
 - To modify threadpoolworker.properties:
 - a. Go to the path:
 - ../obpinstall/obp/collectionenv/standalone/config/threadpoolworker.properties
 - b. Verify the rmi_port and Server Name--

com.splwg.grid.distThreadPool.threads.ThreadPool_Name=<Maximum Thread count> spl.runtime.management.rmi.port=<rmi_port>

spl.runtime.management.connector.url.default=service:jmx:rmi:///jndi/rmi://< server-

name>:<rmi_port>/spl/fw/jmxConnector

Where:

rmi_port= RMI port used for JMX. To manage each instance of the pool an unique port number should be used.

server-name = host server IP

For Example:

 $com.splwg.grid.distThreadPool.threads.STANDALONE_TP=40$

spl.runtime.management.rmi.port=9999

spl.runtime.management.connector.url.default=service:jmx:rmi:///jndi/rmi://XX.XX.XX. XX:

9999/spl/fw/jmxConnector

XX.XX.XX.XX= host IP

Figure 7–2 Standalone lib

/scratch/app/product/fmw/obpinstall/obp/collectionenv/standalone/lib/ext					
Name Ext	Size	Changed	Rights	Owner	
🕌		3/18/2016 6:52:21 PM	FWXF-XF-X	ofssobp	
a wlfullclient.jar	53,718 KiB	1/29/2016 2:16:42 PM	FWXF-XF-X	ofssobp	
≥ dms.jar	1,603 KiB	1/25/2016 3:17:51 PM	FWXF-XF-X	ofssobp	
⇒ ojdl.jar	192 KiB	12/30/2015 12:16:49 PM	rwxr-xr-x	ofssobp	

7.2 Recommendations for Threadpool Memory Configuration

Consider setting the Threadpool JVM memory arguments as mentioned below. This needs to be modified in **threadpoolworker.sh**

MEM_ARGS="-Xms4096m-Xmx8192m -XX:MaxPermSize=1024m -XX:+UseParallelGC - XX:ParallelGCThreads=16"

7.3 Start Threadpoolworker

To start the threadpool worker:

- 1. Open the putty and go to/obpinstall/obp/collectionenv/standalone/bin
- 2. Run the command:
 - ../threadpoolworker.sh
 - Logs related to threadpool are generated as threadpoolworker.2017XXX.XXX.log and ThreadPool.log along with collection.log and specific Batch related logs will be generated at:

../fmw/obpinstall/obp/fclogs/logs

Logs of OBP related to ThreadPool will be generated at:

.../fmw/obpinstall/obp/fclogs/logs/standalone/obp/logs

(Use root collection log path in place of .../fmw/obpinstall/obp/fclogs)

7.4 Verification

To verify OBP context is successfully up:

1. Check threadpoolworker.2017XXX.XXX.log and search for Done with OBP initialisation.

Figure 7–3 ThreadPool Worker Log



2. If filter is configured in ThreadpoolEnv.sh, with com ofss standlone executor filterId property then check filter logs for verification.

Figure 7–4 Executing OBP Initialisation Block



To verify whether the Threadpoolworker has started successfully:

1. Check for connection to:

service:jmx:rmi:///jndi/rmi://<server-name>:<rmi_port>/spl/fw/jmxConnector

By using any VM tool (For example, jconsole).

Note

Ensure this poolname is same as what is mentioned in threadpoolworker.properties (as com.splwg.grid.distThreadPool.threads.STANDALONE_TP=40) and also in jconsole.

Attribute value				
Name		Value		_
Tofo		voue	DULED DAEMON TUDEAD DOOL	CTANDALON
μπο		-8000:0. SCHE	DULER DAEMON THREAD POOL	STANDALON
		Refresh		
and the second second	4			
MeanAttributes	nto			
Name	Value			
Attribute:				
Name	Info			
Description	Attribute exposed for	Attribute exposed for management		
Readable	true			
Writable	false			
15	false			
	pananang, Jonny			
	yarananguoung			
Descriptor	jarananguoung			
Descriptor	Yalue			
Descriptor	Value			
Descriptor Name	Yalue			
Descriptor Name	Value			
Descriptor	Value			
Descriptor	Yalue			
Descriptor Name	Yalue			
Descriptor Name	Value			
Descriptor	Value			
Descriptor	Value			
Descriptor Name	Value			
Descriptor Name	Value			

Figure 7–5 Verify Threadpool Worker: Check Connection

2. Search for the following text with latest time stamp in ThreadPool.log:

2017-03-24 16:15:51,381 [main] INFO (grid.node.DistributedGridNode) Distributed node 7621b973d7669cd8:3cdc534f:15affeb62a5:-7ff6 joined grid

3. Verify that the following properties are present in <INSTALLATION_DIR>/ collectionenv/standalone/bin/spl.properties.

If HOST OS is Linux export SERVER_ROLE_BATCH=true export OBPBASE=<INSTALLATION DIR PATH> If Host OS is Windows set SERVER_ROLE_BATCH=true set OBPBASE=<INSTALLATION DIR PATH>

7.5 Submit the Batch

Run the CSMB and CASETRAN batch with Thread pool name specified in **threadpoolworker.properties** (as com.splwg.grid.distThreadPool.threads.STANDALONE_TP=40)

by using -p

For example:

```
./submitjob.sh -b CASETRAN -t 0 -c 8 -p STANDALONE_TP
```

Where:

- -c No. of threads
- -t Thread Number
- -p ThreadPool Name

Figure 7–6 Submit the Batch

Connection Window Help		- 5 4
Storogen, Menory, Physiol. Closers, M. Jurmary, M.	Beare	•
IN - Manuferner dation	Meaninfo	
in- mitte		
G-@ SetchThread CASETRON 10 of 40.00	tane	
#tributes	E-Mo:	
8 Operations	Coschere	p.ficerio-Bit/field_CKERW(1,0,003)
Basis/riveal CAURTAIN 11 of 40.71	Cettine	con.golig.bee.sugport.betch.management.Active.abd8etchThread
Bethylysed CALETRAN 12 of 40.107	Desceptor	promision in the navagement interface of the ribean
G @ BetchThread CASETRAN 13 of 40.405	Canadrus har-OL	
BetchTread_CASETRAH_14_pt_40.480	Plane	on apoy here support and characterized and chara
Beth/Dread_CASETURI_31_x6_40.84	Description	Nutric constructs of the Melen
Bablefiveal_CASETABL_36_46.407	Parameter - 0-VC	
International Collection 17 of 40.412	Department	21
BethTreat_CASETRAN_18_of_40.409	Total Sector	Ann solute hans on hards & demonstration
G @ BetchThread_CASETRAH_15_pf_40.421	Recentles A.C.	on any set at set and a ments
BetchTvead_CASETRAIL_1_sf_40.82	Planet V Li	2
18 18 Relativesed CASETRAD, 20 of 40.420	Description	PT
In the second	Town	one when here support series for all office and
In the Batty Typest CASE Role 12 of 40.104	- 11-5	
in the betch went CASE Role 15 of 40.467		
In the Event weak CASE IN ALC 14, 54, 50, 422		
Interviewed CASETURE 31, 14, 40, 108		
In the second		
Contraction of the second second		
 B Sabilizeral (ASTRAN 20 of 40.404 		
in the Bath/Dermi CASTRADI 3 of 40.402		
in the Real-Thread CAMPRIST 20 of 40.413		
in the Batchrivead CALETRARY 31 of 40.85		
G @ BetchThread CASETRARI 32 of 40.425		
B 49 BetchThread_CASETRAH_33_of_40.465	Descriptor	
BetchTread_CASETRAIL_H_pd_40.400	Alarma .	
🛞 🥮 Belahthread_CAUETRARL_31_40.483	1010	190
International Construction (36:06-40.405)	1980	
iii iii fath/fived_CASETKAN_37_of_40.86	promy address for	PM sea and a loss and with an experiment to be official three littless.
G @ BethTreat_CASETRAN_30_pf_40.419	indext.	an ang and rapper and consequences and consequences of the second and the second
B INTERPORT CASE AND DO 10, 10, 10, 10, 10, 10, 10, 10, 10, 10,	- Series	
The second case and a second		
Bassifived CARTARI, 40 of 40.423		
B BERNARD CARRON 4 of 40.11		
In the Balance and Collection 5 of 40.454		
In the Internet Contract of the Add		
In the Internet Construct of An An		
in the Bath/Thread California & of 40.401		
G- Goldecha		

7.6 Stop Threadpoolworker

jmxbatchclient.sh: This script will wrap the JMXCommandLineClient java class so that it can be executed just like any operating scripts. The only option required is the JMX URL to connect. By default, it will only display information. For example, supplying only the required JMX connection information would result in as follows:

```
Options: -j
service:jmx:rmi:///jndi/rmi://myserver:9999/spl/fw/jmxConnector
Connecting to
service:jmx:rmi:///jndi/rmi://myserver:9999/spl/fw/jmxConnector
ActiveGridNode
threadPools=[DEFAULT:5, SCHEDULER_DAEMON_THREAD_POOL:1, LOCAL_
THREAD_POOL:b9835d11f15fd71b:1df6824f:120011dc94e:-8000:0]
BatchThread ZZQABAT2 1 of 1.36
```

This shows that the thread pools defined, separated by commas, and that there is currently an active batch thread.

7.7 Command-Line Options

The following options can be specified when executing script jmxbatchclient.usage:

```
com.splwg.base.api.batch.JMXCommandLineClient
-h Show this usage information.
-j <JMX URL> The JMX URL to connect to.
-d display details
-k Kill threadpool worker.
-s Display summary
```

Show usage (-h)

Display the available options and their descriptions.

Show usage (-j)

Required. Specify the JMX URL to connect to. This should match the spl.runtime.management.connector.url.default property specified in the threadpoolworker.properties.

jmxbatchclient.sh -j service:jmx:rmi:///jndi/rmi://myserver:9999/spl/fw/jmxConnector

Display details (-d)

Display the details of the currently active threads.

```
Options: -j
service:jmx:rmi:///jndi/rmi://myserver:9999/spl/fw/jmxConnector -d
Connecting to
service:jmx:rmi:///jndi/rmi://myserver:9999/spl/fw/jmxConnector
ActiveGridNode
threadPools=[FJOCSON-US:5, SCHEDULER DAEMON THREAD POOL:1, LOCAL
THREAD POOL:b9835d11f15fd71b:1df6824f:120011dc94e:-8000:0]
BatchThread ZZQABAT2 1 of 1.36
ElapsedTime = 0 yrs. 0 days 00:00:20
BatchCd = ZZQABAT2
ThreadCount = 1
ThreadNumber = 1
RerunNumber = 0
ProcessDate = 2009-03-13
MaximumCommitRecords = 200
MaximumTimeoutMinutes = 0
UserId = SYSUSER
LanguageCd = ENG
SoftParameters = []
MaxExecutionAttempts = 1
DateTimeStarted = 2009-03-13-11.54.02
DistThreadPool = FJOCSON-US
BatchNumber = 4
Status = Running
ProgramType = Java
ProgramName = com.splwg.cm.domain.qa.batch.QaBatch2
RunType = New Run
```

Kill threadpoolworker (-k)

Specifying this option will result in the cancellation of all currently running threads and the stoppage of the threadpoolworker process.

After successful stoppage of threadpoolworker message will be displayed on command line as:

"Successfully stopped threadpoolworker..."

"Distributed Grid stopped successfully"

Display summary (-s)

Display the summary of the currently active threads is a listing format.

```
Options: -j
service:jmx:rmi:///jndi/rmi://myserver:9999/spl/fw/jmxConnector -s
Connecting to service:jmx:rmi:///jndi/rmi://fjocson-
us:9999/spl/fw/jmxConnector
ActiveGridNode
threadPools=[FJOCSON-US:5, SCHEDULER_DAEMON_THREAD_POOL:1, LOCAL_
THREAD_POOL:b9835d11f15fd71b:-60bf2fc1:120115996cc:-8000:0]
JMX Id DistThreadPool BatchNumber
DatTimeStarted ElapsedTime
```

BatchThread_ZZQABAT1_1_of_1.29 FJOCSON-US 32 2009-03-16-17.07.29 0 yrs. 0 days 00:03:49

7.8 List of Batches to be Run on Standalone Threadpool or Weblogic

The following table refers to the list of batches to be run on standalone threadpool:

#	Batch	Batch Code
1	Update Entity	C1-UPENT
2	Delinquency Identification	C1-DELID
3	Move Delinquent Accounts to RMB Feeder Tables	C1-MVDEL
4	Validate Incoming Data from Host	C1-VALFD
5	Create Entity	C1-CRENT
6	Increment DPD	C1-INCDP
7	Derived Fields	C1-DRFLD
8	Suspend Activity Monitor	C1-SUSMN
9	Bulk Contact Creation	C1-BLKCC
10	Contact Processing	C1-CNTPR
11	Strategy Monitor	C1-CSMB
12	Case Life Cycle Tracking	CASETRAN
13	Queue Allocation Monitor	C1-ALOCM

Table 7–1 List of Batches to be Run on Standalone Threadpool

#	Batch	Batch Code
14	Display Priority Monitor	C1-PRMON
15	User Allocation Monitor	C1-USALC
16	Treatment Activity Monitor	C1-TRMON
17	Dialer and IVR (O/B Robot) Extracts	C1-DIEXT
18	Batch to unlock cases	C1-CSCL
19	ToDo Creation for Locked cases	C1-CSTD
20	PTP Tracking	C1-PTPM
21	Collection Statistics	C1-COLST

The following table refers to the list of batches to be run on weblogic:

Table 7–2 List of Batches to be Run on Weblogic

#	Batch	Batch Code
1	Payment Handling	C1-FDPAY
2	Event Manager	C1-EVENT
3	Dialer Results Upload	C1-DLRRS
4	Vendor/ Agency Upload Batch	C1-VNDUP
5	Cure Monitor	C1-FINCO
6	Write-off Monitor/ Account abandon monitor	WRITEOFF