

**Oracle® Banking Platform Collections**

Integration Guide

Release 2.3.0.0.0

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# Preface

This document will help you to install the Oracle Banking Platform Collections as an integrated module of Oracle Banking Platform. This document assumes that Oracle Banking Platform 2.3 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

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## Organization of the Guide

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

### Chapter 1, "Introduction"

This chapter describes the OBP Collection 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.

## 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 OBP Collections, see the Oracle Banking Platform Collections User Provisioning Guide.

## Conventions

The following text conventions are used in this document:

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



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## Introduction

The Oracle Banking Platform 2.3.0.0.0 is released for OBP Collections module for seamless integration with Oracle Banking Platform 2.3.0.0.0. This guide helps you to install the OBP Collections module.



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## Installing the Host Media Pack

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

1. Install the Host Media Pack 2.3
2. Update the environment
3. Configure the WebLogic domain

### 2.1 Prerequisites

Before you install the OBP Collections 2.3 Host Media Pack, you must have the following installed on the machine:

- OBP 2.3 Host Media Pack
- OBP 2.3 Presentation Media Pack
- Micro Focus Wrap Pack 8
- Windows Secure Copy (WINSCP) to copy deliverables from Windows to Linux machine
- Sun Java Development Kit (JDK) 1.6 Update 29 (For more information on how to install Sun 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.
- OBP Collection database must be installed. For more information on installing or configuring OBP Collections database, see the Oracle Banking Platform Collection Database Administrator (DBA) Guide.
- Download **c3p0-0.9.1.2.bin.zip** from the following link:

<http://sourceforge.net/projects/c3p0/files/c3p0-bin/c3p0-0.9.1.2/>

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 OBP Collections Host Media Pack

The OBP Collections 2.3 installation package is used for installing both the OBP Collections Host and Presentation Media Packs. You can download the OBP Collections 2.3 installation package from the following location:

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

To install the OBP Collections Host Media Pack:

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

```
mkdir TEMPDIR
```
3. Copy the OBP Collections 2.3 installation package, `Collection_V23[Build_Number].zip`, which you have downloaded from the edelivery to Host Server by using WINSCP.
4. Move the copied installation package `Collection_V23[Build_Number].zip` to `TEMPDIR` by using the following command:  

```
cp Collection_V23[Build_Number].zip <PATH>/TEMPDIR
```

Where, `<PATH>` is the path where the `TEMPDIR` folder is located.
5. Uncompress the `Collection_V23[Build_Number].zip` file using the following command:  

```
cd <PATH>/TEMPDIR
```

```
unzip Collection_V23[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`
  - `data`
  - `Install.sh`
  - `collectioninstaller.jar`
6. Start the XManager application on the Windows machine from where you have connected to the OBP Host Server remotely and then click XPassive.
7. Export the XManager UI on the OBP Host Server (Linux environment) using the following command:  

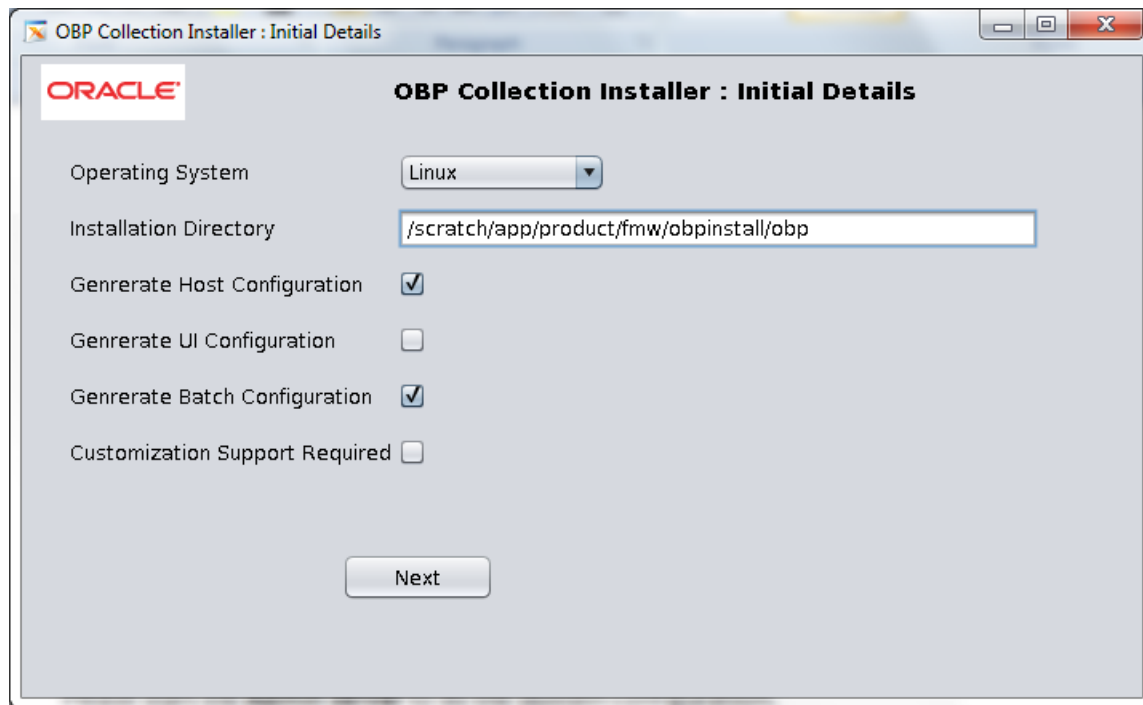
```
DISPLAY=<IP>:0.0;
```

```
export DISPLAY
```

Where, `<IP>` is the IP address of the Windows machine.
8. Run the Collection installer using the following command:  

```
java -jar collectioninstaller.jar
```

The **OBP Collection Installer: Initial Details** wizard page appears.

**Figure 2–1 OBP Collection Installer: Initial Details**

The **OBP Collection Installer: Initial Details** wizard page contains the following fields:

**Table 2–1 OBP Collection Installer: Initial Details**

Field	Description
Operating System	Used to indicate the operating system on which you want to install the OBP Collection Host Media Pack. The options are: <ul style="list-style-type: none"> <li>▪ Linux</li> <li>▪ Windows</li> </ul> You can only integrate OBP Collections with OBP on the Linux environment.
Installation Directory	Used to specify the directory where you want to install the OBP Collections Host Media Pack. By default, <code>/oracle/deployable/sails</code> is specified in this field. You can change the path and directory name, if required.
Generate Host Configuration	Used to deploy the OBP Collections Host Media Pack components.
Generate UI Configuration	Used to deploy the OBP Collections Presentation Media Pack components.
Generate Batch Configuration	Used to deploy the batch components used for configuring the batch server. If you want to deploy the batch components, you must always select the <b>Generate Host Configuration</b> check box along with the <b>Generate Batch Configuration</b> check box.
Customization Support Required	Used to enable the customization support.

9. Select the **Generate Host Configuration** check box.
10. If you want to deploy the batch components on the host server, select the **Generate Batch Configuration** check box.

11. Click **Next**. The **OBP Collections Installer: Host Configuration** screen appears.

**Figure 2–2 OBP Collection Installer: Host Configuration**

The **OBP Collection Installer: Host Configuration** wizard page contains the following fields:

**Table 2–2 OBP Collection Installer: Host Configuration**

Field	Description
Host Logs Directory	Used to indicate the directory where the logs must be created on the host server. By default, <code>/oracle/deployable/sails/fclogs/logs</code> is specified in this field. You can change the path and directory name, if required.
Number of Cobol JVM	Used to indicate the number of Java Virtual Machines that will be utilized for processing Cobol files. By default, 2 is specified in this field. You can change the value, if required.
Cobol JVM Port	Used to specify the cobol JVM port. By default, 5500 is specified in this field. You can change the value, if required.
Java Home Path	Used to indicate the directory where SUN JDK is installed. By default, <code>/oracle/app/product/jdk1.6</code> is specified in this field. You can change the path and directory name, if required.
Microfocus Path	Used to indicate the directory where Micro Focus is installed. By default, <code>/oracle/app/product/microfocus</code> is specified in this field. You can change the path and directory name, if required.

12. Change the values in these fields, if required.

13. Click **Next**. The **OBP Collection Installer: Host DB Configuration** screen appears.

**Figure 2–3 OBP Collection Installer: Host DB Configuration**

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

**Table 2–3 OBP Collection Installer: Host DB Configuration**

Field	Description
Is connection pooled	Indicates whether the data source is to be used or not.
Host Datasource name	Used to specify the host data source name. For example, jdbc/FCBDataSource.
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, 7001.

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

**Figure 2–4 OBP Collection Installer: Batch Configuration**

The screenshot shows a configuration window for the OBP Collection Installer. The window title is "OBP Collection Installer : Batch Configuration". The Oracle logo is in the top left corner. The main content area contains the following fields and values:

- Database IP address: 10.180.7.77
- Database port: 1521
- Database SID: OBPCOL
- Database user name: NGPR2BCOLL
- Database user password: \*\*\*\*\*
- Thread pool name: MT
- Number of threads: 5
- Batch user ID: SYSUSER
- Batch log directory: /scratch/app/product/fmw/obpinstall/obp/log/logs

At the bottom of the window, there are two buttons: "Previous" and "Next".

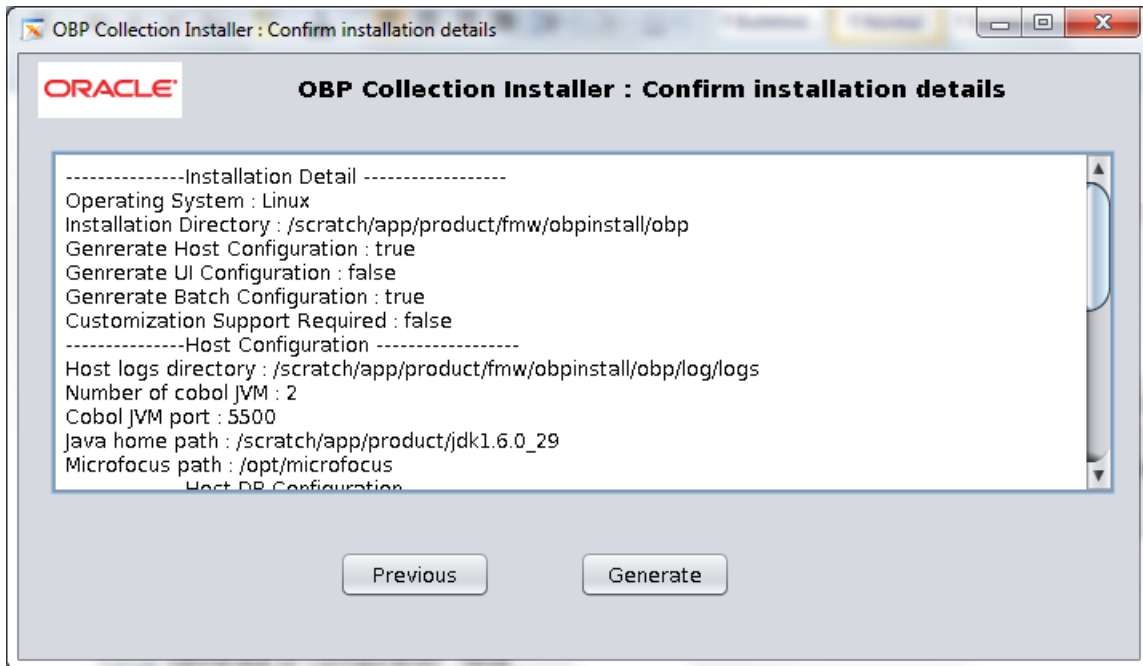
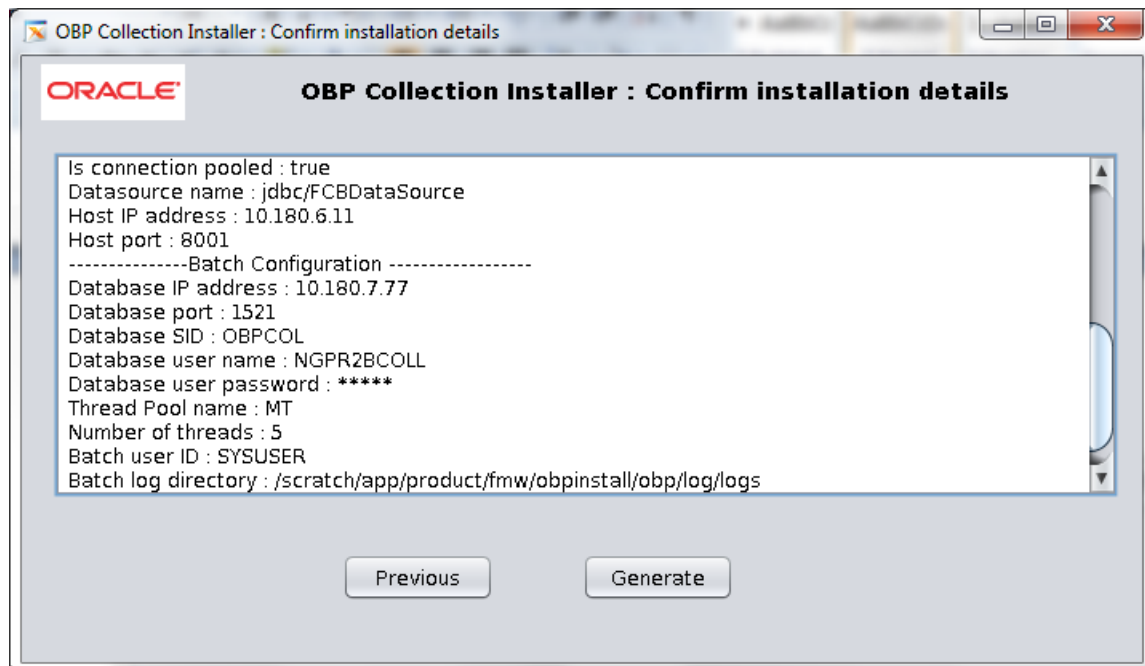
The following fields appear in the **OBP Collection Installer: Batch Configuration** screen:

**Table 2–4 OBP Collection 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, OBPCOL.
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, OBP.
Number of threads	Used to specify the number of the threads that the thread pool can support. For example, 10.
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, /oracle/deployable/sails/fclogs/logs.

15. Click **Next**. The **OBP Collection Installer: Confirm installation details** screen appears.



**Figure 2-5 OBP Collection Installer: Confirm Installations Details****Figure 2-6 OBP Collection Installer: Confirm Installations Details**

16. Click **Generate**. The **OBP Collection Installer: Installing** screen appears.

17. Click **Done**.

## 2.3 Configuring Weblogic Domain For Host

The following steps explain how to configure weblogic domain for host:

1. To perform domain configuration, you must run Admin server. Ensure that managed server is not running. To start Admin server, use the following command:

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

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

```
cd <PATH>/TEMPDIR
```

4. Execute the Install.sh file as below:

```
./Install.sh
```

The install file prompts for the following input:

**Table 2–5 Configuring Weblogic Domain for Host**

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 ( <code>/\${middleware__home}/wlserver_10.3</code> )	Indicates the home path of Weblogic. For example, <code>/scratch/app/product/fmw/wlserver_10.3</code>
Enter Deployment/Installation directory name	Used to specify the directory where you want to install the OBP Collections Host Media Pack. By default, <code>/scratch/app/product/fmw/obpinstall/obp</code> is specified in this field. You can change the path and directory name, if required.
Enter Domain Directory Path where Domain is created ( <code>/\${middleware__home}/user_projects/domain</code> )	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.
Enter the Microfocus Path (microfocus_home)	Indicates the path of Microfocus_home directory. For example, <code>/opt/Microfocus</code>
Select the option (1 or 2) where you want to target JMS Module: 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 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.

5. 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:

**Figure 2–7 Domain Configuration: Confirm**

```

ofssobp@ofss3131460:/scratch/install$ ./install.sh
Please provide the exact information as asked below
Please select the Domain Name (Host / UI/ Host+Batch )- Host+Batch
Enter the Host server IP / DNS - 10.180.84.247
Enter Admin server port - 7001

Please enter Weblogic home (WL_HOME) directory (${middleware_home}/wlserver_10.3)- /scratch/app/product/fmw/wlserver_10.3
Enter Deployment/Installation directory name - /scratch/app/product/fmw/obpinstall/obp
Enter Domain Directory Path where Domain is created (${middleware_home}/user_projects/domain)- /scratch/app/product/fmw/user_projects/domains
Enter Domain Name Directory (e.g. base_domain)- host_domain
Enter Weblogic console username - weblogic
Enter Weblogic console password -
Enter the Microfocus Path (microfocus_home)- /scratch/app/product/microfocus
Please select the option (1 or 2) where you want to target JMS Module -
    1. Server
    2. Cluster
--> Cluster
Please select the proper option

Please select the option (1 or 2) where you want to target JMS Module -
    1. Server
    2. Cluster
--> 2
Enter the Name of the Cluster where you want to target JMS module (e.g. obphost_cluster1) - obphost_cluster1
Hope the information provided is valid and we can proceed with domain configuration for Collection
Please enter Y/N, so that we can continue with configuration... -

```

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 default management 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';

```

2. Browse the following directory:  
<INSTALLDIR>/config/hibernate.properties
3. Add the following to hibernate.properties:  
hibernate.bytecode.provider=cglib

4. Extract or unzip the zip file, you will get the c3p0-0.9.1.2.jar in extracted folder c3p0-0.9.1.2\lib.

Now FTP/copy the downloaded c3p0-0.9.1.2.jar file to Host linux server into temporary directory.

Copy it from the temporary directory to the directory mentioned below:

- <INSTALLDIR>/obp.thirdparty.app.domain/APP-INF/lib
  - <INSTALLDIR>/collectionenv/standalone/lib
5. Restart the admin server. To restart the Admin server, first stop the Admin server and then start it again.

To stop the Admin server, use the following command:

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

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
```

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).

Then start Admin server by using the following command:

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

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

---

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## 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. Create a data source
4. Deploy the Collections module

### 3.1 Prerequisites

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

- OBP 2.3 Host Media Pack
- OBP 2.3 Presentation Media Pack
- OBP Collections 2.3 Host Media Pack

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**Note:** Sun JDK 1.6 Update 29+ is required to run the OBP Collections V2.3 installer. For more information on JDK installation, see [Chapter 5, "Installing Third-Party Software"](#).

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### 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/>

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**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.

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

1. Download the appropriate OBP Collections Media Pack. The media pack is available in the following format:

**Collection\_V23Build\_Number].zip**

2. Login to the presentation server.
3. Create a temporary directory on the presentation server. For example, <TEMPDIR>.
4. Copy the OBP Collections Media Pack **Collection\_V23[Build\_Number].zip** downloaded from edelivery to presentation Linux server using WINSCP.
5. Copy the OBP Collections Media Pack **Collection\_V23[Build\_Number].zip** into the <TEMPDIR>.

Uncompress the OBP **Collections Media Pack Collection\_V23[Build\_Number].zip** by running the following commands:

```
cd <TEMPDIR>
```

```
unzip Collection_V22[Build_Number].zip
```

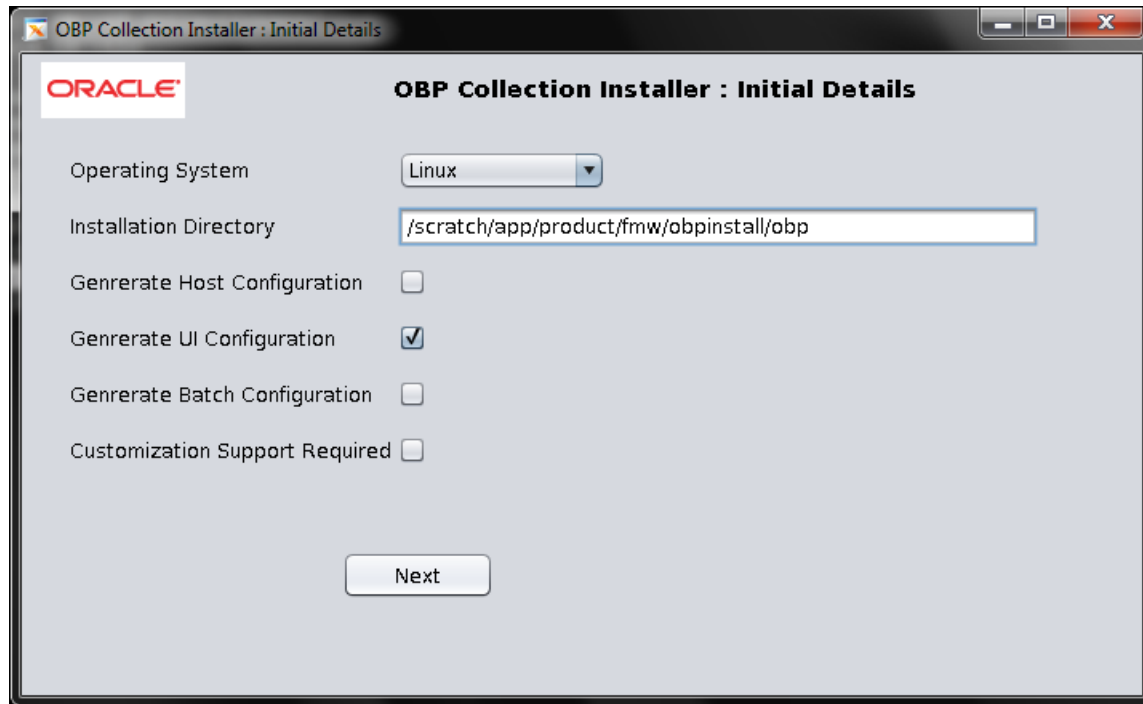
The contents of the zip file are extracted in the TEMPDIR folder. The following files/folders are extracted:

- config.properties
  - data
  - Install.sh
  - collectioninstaller.jar
6. Run XManager application on Windows machine.
  7. 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.
  8. Run the following command to start the OBP Collection installer. The **OBP Collection Installer: Initial Details** screen appears.  

```
java -jar collectioninstaller.jar
```
  9. In the **OBP Collection Installer: Initial Details** screen, select the Installation directory and Host Configurations.

**Figure 3–1 OBP Collection Installer: Initial Details**

The following fields appear in the **OBP Collection Installer: Initial Details** screen:

**Table 3–1 OBP Collection 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 OBP Collection 2.3 should be installed. Note that this is the same the directory where the OBP presentation or host media packs are installed. For example, /oracle/deployable/sails.
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.
Customization Support Required	Enables the customization support.

10. Click **Next**. The **OBP Collection Installer: UI configuration** screen appears.

**Figure 3–2 OBP Collection Installer: UI configuration**

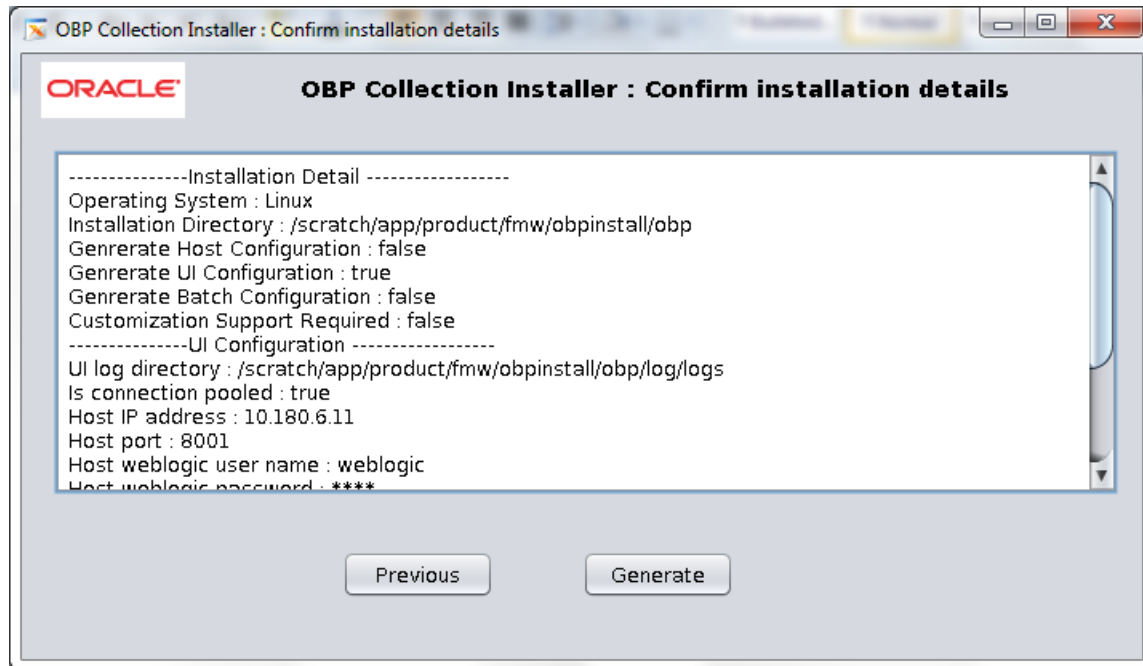
The following fields appear in the **OBP Collection Installer: UI Configuration** screen:

**Table 3–2 OBP Collection 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.
Is connection pooled	Used to specify whether the data source is to be used or not.
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, 7001.
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.
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 SID	Used to specify the database SID. For example, OBPCOL.
Database user name	Used to specify the database user name.
Database user password	Used to specify the database password.

**11. Click Next.** The **OBP Collection Installer: Confirm Installation details** screen appears.

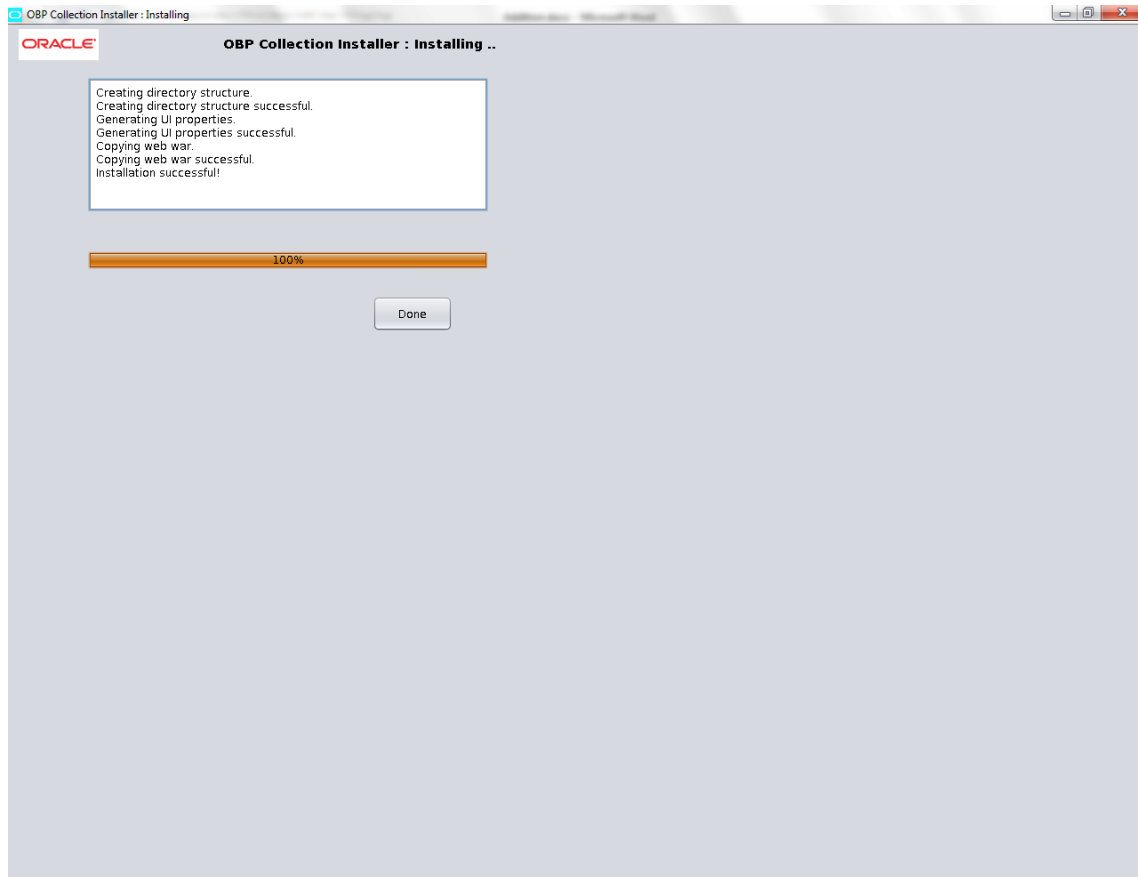


**Figure 3–3 OBP Collection Installer: Confirm Installation Details**

12. Click **Generate**.

13. Click **Done**.

**Figure 3–4 OBP Collection Installer: Installing**



In the **OBP Collection Installer: Installing** screen, 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:

1. To perform domain configuration, Admin server must run. To start Admin server, use the following command:

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

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

```
cd <PATH>/TEMPDIR
```

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

```
./Install.sh
```

The install file prompts for the following input, enter the following details when prompted:

**Table 3–3 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_10.3)	Its Weblogic home path. For example, /scratch/app/product/fmw/wlserver_10.3
Enter Deployment/Installation directory name	Used to specify the directory where you want to install the OBP Collections 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 example, base_domain)	Provide the domain name configured on weblogic and the directory present in domain_home
Enter Weblogic console username	Username of weblogic console
Enter Weblogic console password	Password of weblogic console
Enter the number of Datasource you want to create	It's the number of data source we want to configure, please enter 1.
Enter the name of Data Source	Name of data source we are configuring on weblogic. For example, FCBDataSource
Enter the Java Naming and Directory Interface (JNDI) Name of datasource	JNDI name of datasource. For example, jdbc/FCBDataSource
Enter Database SID	Database name
Enter Database Host IP Address	Database IP address
Enter Database Port Number	Port number to connect DB
Enter Database Schema Username	Schema Username
Enter Database Password of schema	Schema password
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.

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

Below screen shot is provided for more reference.

**Figure 3–5 Domain Configuration: Confirm**

```

ofssobp@ofss3131458:/scratch/install
/scratch/app/product
[ofssobp@ofss3131458 product]$ hostname -i
10.180.84.245
[ofssobp@ofss3131458 product]$ pwd
/scratch/app/product
[ofssobp@ofss3131458 product]$ cd /scratch/install/
[ofssobp@ofss3131458 install]$ ls -lrt
total 387116
drwxr-xr-x 2 ofssobp oinstall 4096 Jul 21 17:45 ui_old
drwxr-xr-x 2 ofssobp oinstall 4096 Aug 1 14:01 ui_
drwxr-xr-x 2 ofssobp oinstall 4096 Aug 1 14:02 target
-rw-r--r-- 1 ofssobp oinstall 17163 Aug 1 16:40 Install.sh
-rw-r--r-- 1 ofssobp oinstall 122 Aug 1 16:40 config.properties
-rw-r--r-- 1 ofssobp oinstall 94094 Aug 1 16:40 collectionupgradeinstaller.jar
-rw-r--r-- 1 ofssobp oinstall 94580 Aug 1 16:40 collectioninstaller.jar
drwxr-xr-x 10 ofssobp oinstall 4096 Aug 1 16:42 data
-rw-r--r-- 1 ofssobp oinstall 396166948 Aug 1 16:43 Collection_Upgrade_V2.3_V227160.zip
[ofssobp@ofss3131458 install]$ /scratch/app/product/jdk1.6.0_29/bin/java -jar collectioninstaller.jar ^C
[ofssobp@ofss3131458 install]$ export DISPLAY=10.180.91.58:0.0
[ofssobp@ofss3131458 install]$ /scratch/app/product/jdk1.6.0_29/bin/java -jar collectioninstaller.jar
[ofssobp@ofss3131458 install]$ ls -lrt
total 387116
drwxr-xr-x 2 ofssobp oinstall 4096 Jul 21 17:45 ui_old
drwxr-xr-x 2 ofssobp oinstall 4096 Aug 1 14:01 ui_
drwxr-xr-x 2 ofssobp oinstall 4096 Aug 1 14:02 target
-rw-r--r-- 1 ofssobp oinstall 17163 Aug 1 16:40 Install.sh
-rw-r--r-- 1 ofssobp oinstall 122 Aug 1 16:40 config.properties
-rw-r--r-- 1 ofssobp oinstall 94094 Aug 1 16:40 collectionupgradeinstaller.jar
-rw-r--r-- 1 ofssobp oinstall 94580 Aug 1 16:40 collectioninstaller.jar
drwxr-xr-x 10 ofssobp oinstall 4096 Aug 1 16:42 data
-rw-r--r-- 1 ofssobp oinstall 396166948 Aug 1 16:43 Collection_Upgrade_V2.3_V227160.zip
[ofssobp@ofss3131458 install]$ chmod 755 *.sh
[ofssobp@ofss3131458 install]$ ./Install.sh

Please provide the exact information as asked below

Please select the Domain Name (Host / UI/ Host+Batch) - UI

Enter the UI server IP / DNS - 10.180.84.245

Enter Admin server port - 7001

Please enter Weblogic home (WL_HOME) directory (${middleware_home}/wlserver_10.3)- /scratch/app/product/fmw/wlserver_10.3

Enter Deployment/Installation directory name - /scratch/app/product/fmw/obpininstall/obp

Enter Domain Directory Path where Domain is created (${middleware_home}/user_projects/domain)- /scratch/app/product/fmw/user_projects/domains

Enter Domain Name Directory (e.g. base_domain)- ui_domain

Enter Weblogic console username - weblogic

Enter Weblogic console password -

Hope the information provided is valid and we can proceed with domain configuration for Collection

Please enter Y/N, so that we can continue with configuration... -
    
```

Figure 3–6 Domain Configuration: Proceeding with the Process

```

ofssobp@ofss3131458:/scratch/install
drwxr-xr-x 2 ofssobp oinstall 4096 Aug 1 14:01 ui
drwxr-xr-x 2 ofssobp oinstall 4096 Aug 1 14:02 target
-rw-r--r-- 1 ofssobp oinstall 17163 Aug 1 16:40 Install.sh
-rw-r--r-- 1 ofssobp oinstall 122 Aug 1 16:40 config.properties
-rw-r--r-- 1 ofssobp oinstall 94094 Aug 1 16:40 collectionupgradeinstaller.jar
-rw-r--r-- 1 ofssobp oinstall 94580 Aug 1 16:40 collectioninstaller.jar
drwxr-xr-x 10 ofssobp oinstall 4096 Aug 1 16:42 data
-rw-r--r-- 1 ofssobp oinstall 396166948 Aug 1 16:43 Collection_Upgrade_V2.3_V227160.zip
[ofssobp@ofss3131458 install]$ /scratch/app/product/jdk1.6.0_29/bin/java -jar collectioninstaller.jar ^C
[ofssobp@ofss3131458 install]$ export DISPLAY=10.180.91.58:0.0
[ofssobp@ofss3131458 install]$ /scratch/app/product/jdk1.6.0_29/bin/java -jar collectioninstaller.jar
[ofssobp@ofss3131458 install]$ ls -lrr
total 387116
drwxr-xr-x 2 ofssobp oinstall 4096 Jul 21 17:45 ui_old
drwxr-xr-x 2 ofssobp oinstall 4096 Aug 1 14:01 ui
drwxr-xr-x 2 ofssobp oinstall 4096 Aug 1 14:02 target
-rw-r--r-- 1 ofssobp oinstall 17163 Aug 1 16:40 Install.sh
-rw-r--r-- 1 ofssobp oinstall 122 Aug 1 16:40 config.properties
-rw-r--r-- 1 ofssobp oinstall 94094 Aug 1 16:40 collectionupgradeinstaller.jar
-rw-r--r-- 1 ofssobp oinstall 94580 Aug 1 16:40 collectioninstaller.jar
drwxr-xr-x 10 ofssobp oinstall 4096 Aug 1 16:42 data
-rw-r--r-- 1 ofssobp oinstall 396166948 Aug 1 16:43 Collection_Upgrade_V2.3_V227160.zip
[ofssobp@ofss3131458 install]$ chmod 755 *.sh
[ofssobp@ofss3131458 install]$ ./Install.sh

Please provide the exact information as asked below

Please select the Domain Name (Host / UI/ Host+Batch )- UI
Enter the UI server IP / DNS - 10.180.84.245
Enter Admin server port - 7001

Please enter Weblogic home (WL_HOME) directory (${middleware_home}/wlserver_10.3)- /scratch/app/product/fmw/wlserver_10.3
Enter Deployment/Installation directory name - /scratch/app/product/fmw/obpinstall/obp
Enter Domain Directory Path where Domain is created (${middleware_home}/user_projects/domain)- /scratch/app/product/fmw/user_projects/domains
Enter Domain Name Directory (e.g. base_domain)- ui_domain
Enter Weblogic console username - weblogic
Enter Weblogic console password -

Hope the information provided is valid and we can proceed with domain configuration for Collection

Please enter Y/N, so that we can continue with configuration... - Y

Start Deploying Collection as Enterprises application on weblogic
Collection web deployment is successful, please re-start the servers now.

Will be adding entry into setDomainEnv.sh
[ofssobp@ofss3131458 install]$

```

6. FTP the downloaded c3p0-0.9.1.2.jar file (download step mentioned in step 2.1 of Installing the OBP Collections Host Media Pack), copy it from the temporary directory to the following directory.

- <INSTALLDIR>/collectionenv/lib

7. To stop the Admin server, use the following command:

```
{middleware_home}/user_projects/domain/{domain_name}/bin/stopWeblogic.sh
```

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).

Then start Admin server by using the following command:

```
{middleware_home}/user_projects/domain/{domain_name}/bin/startWeblogic.sh
```

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 3–4 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

---

---

## External Interface Configuration

This chapter explains the OBP collections 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 OBP Collection Media Pack. The media pack is available in the following format:

**Collection\_V23Build\_Number].zip**

2. Copy the **Collection\_V23[Build\_Number].zip** into the <TEMPDIR>.

Uncompress **Collection\_V23[Build\_Number].zip** by running the following commands:

```
cd <TEMPDIR>
```

```
unzip Collection_V23[Build_Number].zip
```

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

- config.properties
  - data
  - Install.sh
  - collectioninstaller.jar
3. 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.

---

---





---

---

## Installing Third-Party Software

You must install the Sun JDK and Micro Focus before you install the OBP Collections media packs.

### 5.1 Installing Sun 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-6u  
<version>-linux-x64.bin  
<version> jdk-6u29-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 6u <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-6u <version> -linux-x64.bin
```

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.6.0_<version>
```

### 5.2 Installing Micro Focus Server on UNIX

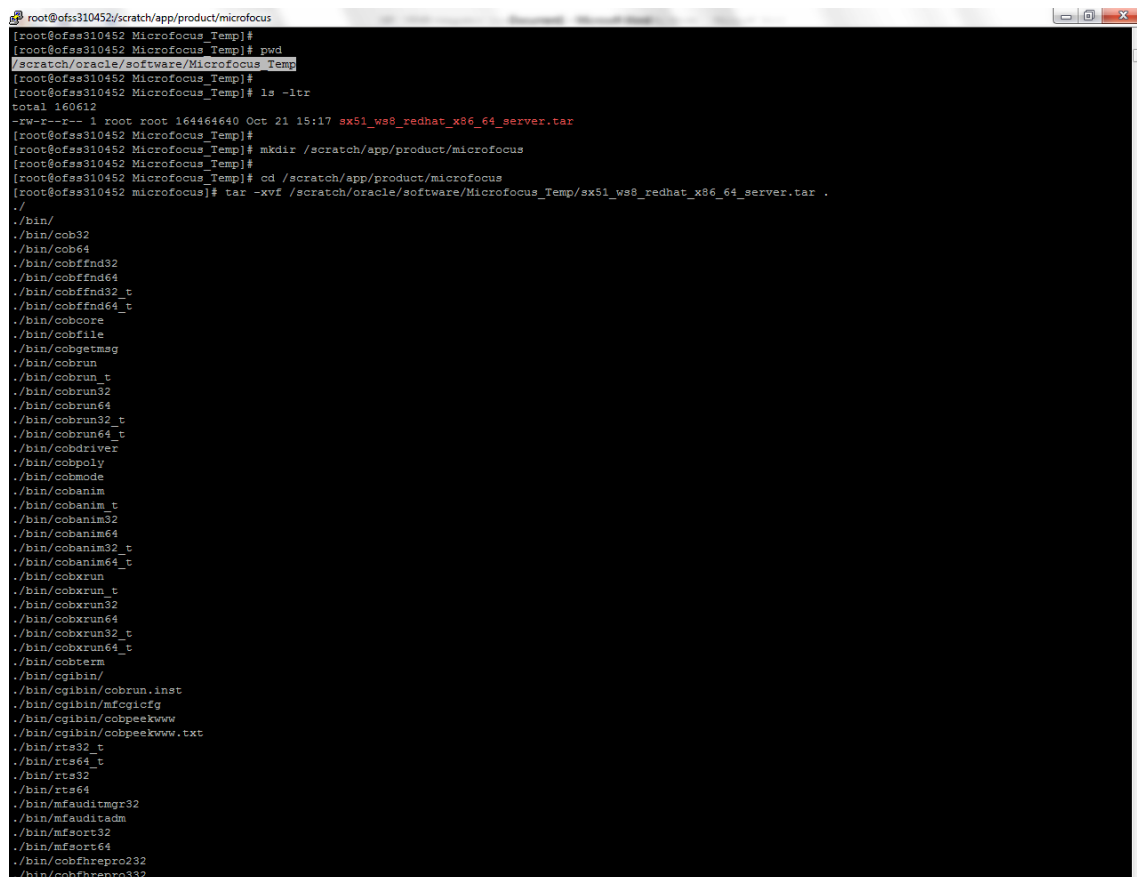
Micro Focus Server is a runtime and licensing engine that allows COBOL programs to run in a production environment. Micro Focus Server is a prerequisite to be installed for OBP Collection applications.

To complete the installation of Micro Focus Server, you must obtain a COBOL Serial Number and a License Key for the number of users licensed to use your system.

To install the Micro Focus Server with root user/root privileges:

1. Download the Micro Focus server wrap pack version 8 from the following link:  
<http://edelivery.oracle.com>
2. Unzip the downloaded file and then copy the extracted tar file from Windows machine to the Linux host server, where Micro Focus should be installed by using winscp or any file transfer tool or utility.
3. Copy the file into temporary directory on Linux server. For example,  
*/scratch/oracle/software/Microfocus\_Temp as temporary directory*
4. Create a directory to store the Micro Focus executable with root privileges,  
*mkdir /scratch/app/product/microfocus*
5. Unzip the file and then extract the tar file into executable directory as,  
*tar -xvf /scratch/oracle/software/Microfocus\_Temp/sx51\_ws8\_redhat\_x86\_64\_server.tar.*

**Figure 5–1 Extracting Tar File into Executable Directory**



```

root@ofss310452:/scratch/app/product/microfocus
[root@ofss310452 Microfocus_Temp]#
[root@ofss310452 Microfocus_Temp]# pwd
/scratch/oracle/software/Microfocus_Temp
[root@ofss310452 Microfocus_Temp]#
[root@ofss310452 Microfocus_Temp]# ls -ltr
total 160612
-rw-r--r-- 1 root root 164464640 Oct 21 15:17 sx51_ws8_redhat_x86_64_server.tar
[root@ofss310452 Microfocus_Temp]#
[root@ofss310452 Microfocus_Temp]# mkdir /scratch/app/product/microfocus
[root@ofss310452 Microfocus_Temp]#
[root@ofss310452 Microfocus_Temp]# cd /scratch/app/product/microfocus
[root@ofss310452 microfocus]# tar -xvf /scratch/oracle/software/Microfocus_Temp/sx51_ws8_redhat_x86_64_server.tar .
./
./bin/
./bin/cob32
./bin/cob64
./bin/cobfnd32
./bin/cobfnd64
./bin/cobfnd32_t
./bin/cobfnd64_t
./bin/cobocore
./bin/cobfile
./bin/cobgetmsg
./bin/cobrun
./bin/cobrun_t
./bin/cobrun32
./bin/cobrun64
./bin/cobrun32_t
./bin/cobrun64_t
./bin/cobdriver
./bin/cobpoly
./bin/cobmode
./bin/cobanim
./bin/cobanim_t
./bin/cobanim32
./bin/cobanim64
./bin/cobanim32_t
./bin/cobanim64_t
./bin/cobxrun
./bin/cobxrun_t
./bin/cobxrun32
./bin/cobxrun64
./bin/cobxrun32_t
./bin/cobxrun64_t
./bin/cobterm
./bin/cgibin/
./bin/cgibin/cobrun_inst
./bin/cgibin/mfcpicfg
./bin/cgibin/cobpeekwww
./bin/cgibin/cobpeekwww.txt
./bin/rt32_t
./bin/rt32_t
./bin/rt32_t
./bin/rt32_t
./bin/rt32_t
./bin/mfauditmgr32
./bin/mfauditvdm
./bin/mfsort32
./bin/mfsort64
./bin/cobfhrepro232
./bin/cobfhrepro332

```

6. Follow the steps below to install Micro Focus installation:

1. Execute the following commands:

```
COBDIR=/scratch/app/product/microfocus
```

```
export COBDIR
```

```
cd $COBDIR
```

- Execute the install file as below:

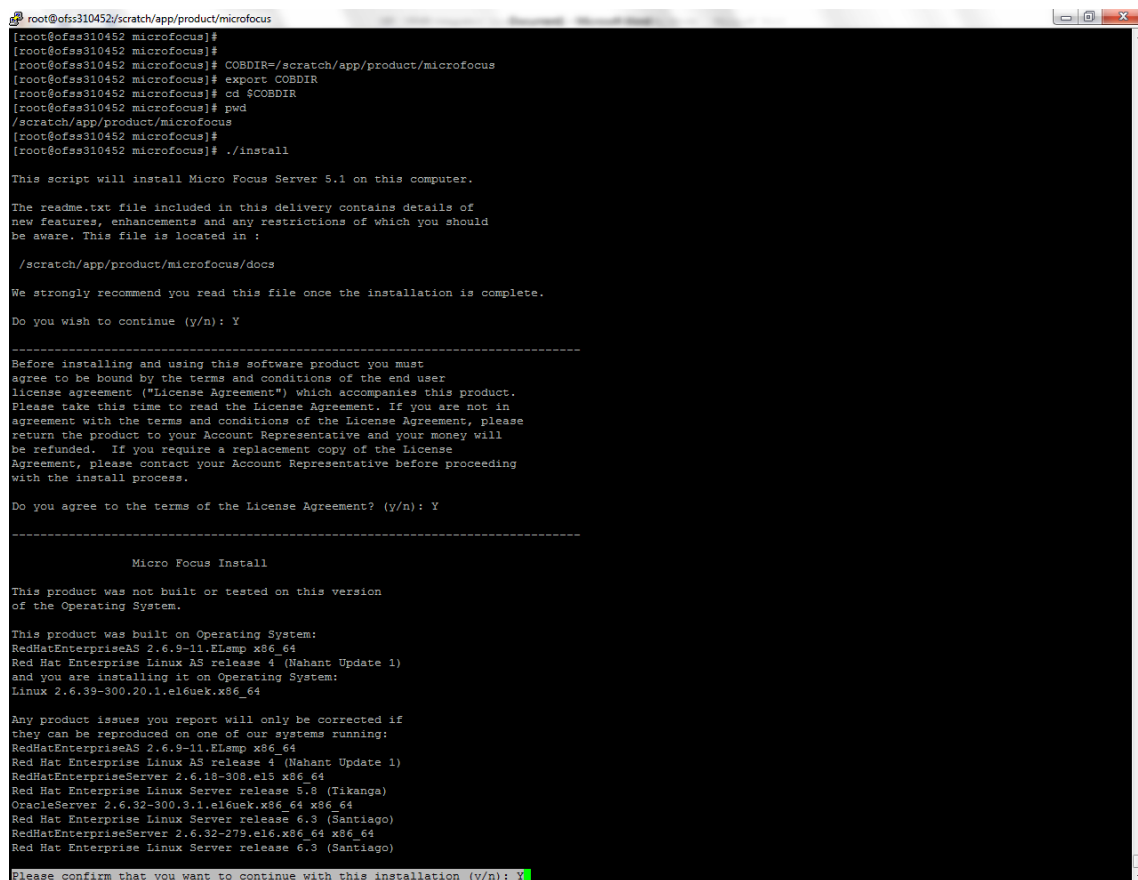
```
./install
```

- Enter response when prompted as shown in the following screenshots.

This script will install Micro Focus on this server. The readme.txt file included in this delivery contains details of new features, enhancements and any restrictions of which you should be aware:

- Do you wish to continue (y/n): Y
- Do you agree to the terms of the License Agreement? (y/n): Y
- Please confirm that you want to continue with this installation (y/n): Y

**Figure 5–2 Installing Micro Focus Server: Confirm**



```

root@ofss310452/scratch/app/product/microfocus
[root@ofss310452 microfocus]#
[root@ofss310452 microfocus]#
[root@ofss310452 microfocus]# COBDIR=/scratch/app/product/microfocus
[root@ofss310452 microfocus]# export COBDIR
[root@ofss310452 microfocus]# cd $COBDIR
[root@ofss310452 microfocus]# pwd
/scratch/app/product/microfocus
[root@ofss310452 microfocus]#
[root@ofss310452 microfocus]# ./install

This script will install Micro Focus Server 5.1 on this computer.

The readme.txt file included in this delivery contains details of
new features, enhancements and any restrictions of which you should
be aware. This file is located in :

/scratch/app/product/microfocus/docs

We strongly recommend you read this file once the installation is complete.

Do you wish to continue (y/n): Y

-----
Before installing and using this software product you must
agree to be bound by the terms and conditions of the end user
license agreement ("License Agreement") which accompanies this product.
Please take this time to read the License Agreement. If you are not in
agreement with the terms and conditions of the License Agreement, please
return the product to your Account Representative and your money will
be refunded. If you require a replacement copy of the License
Agreement, please contact your Account Representative before proceeding
with the install process.

Do you agree to the terms of the License Agreement? (y/n): Y

-----

Micro Focus Install

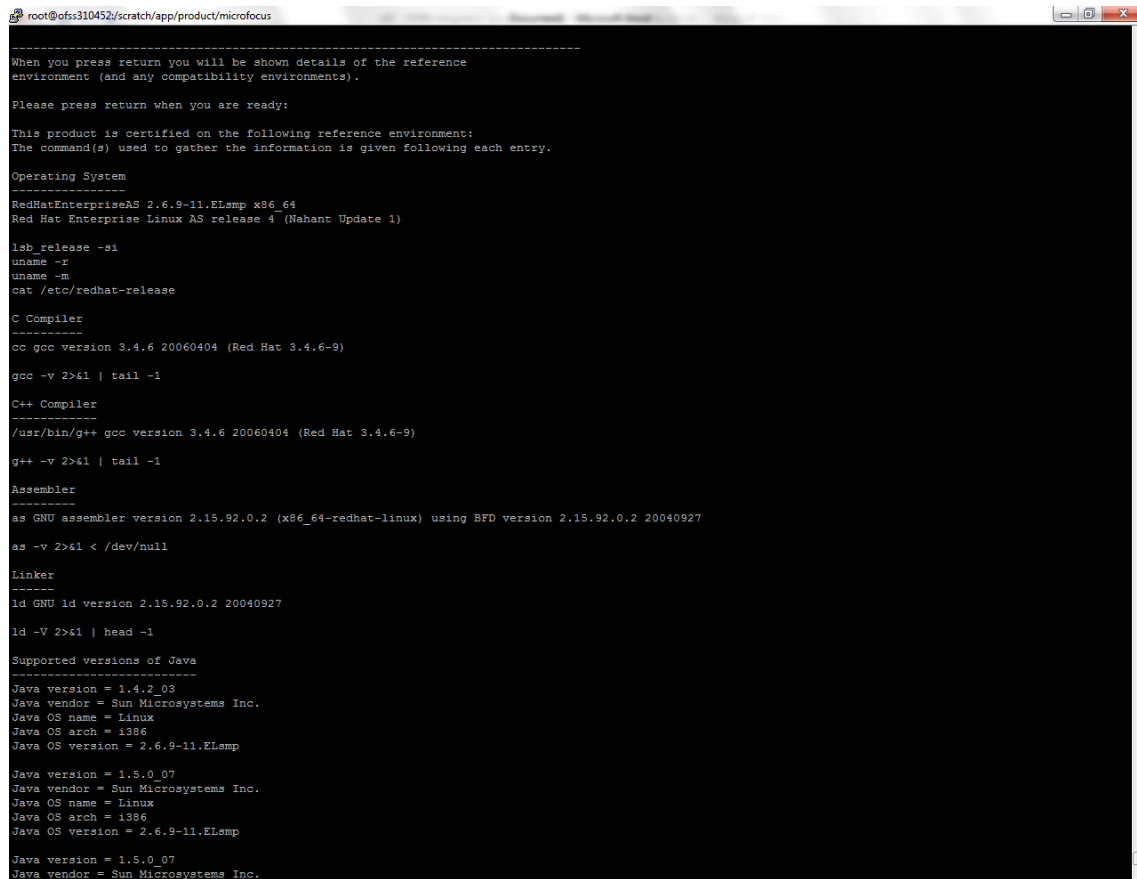
This product was not built or tested on this version
of the Operating System.

This product was built on Operating System:
RedHatEnterpriseAS 2.6.9-11.ELsmp x86_64
Red Hat Enterprise Linux AS release 4 (Nahant Update 1)
and you are installing it on Operating System:
Linux 2.6.39-300.20.1.el6uek.x86_64

Any product issues you report will only be corrected if
they can be reproduced on one of our systems running:
RedHatEnterpriseAS 2.6.9-11.ELsmp x86_64
Red Hat Enterprise Linux AS release 4 (Nahant Update 1)
RedHatEnterpriseServer 2.6.18-308.el5 x86_64
Red Hat Enterprise Linux Server release 5.8 (Tikanga)
OracleServer 2.6.32-300.3.1.el6uek.x86_64 x86_64
Red Hat Enterprise Linux Server release 6.3 (Santiago)
RedHatEnterpriseServer 2.6.32-279.el6.x86_64 x86_64
Red Hat Enterprise Linux Server release 6.3 (Santiago)

Please confirm that you want to continue with this installation (y/n): Y

```

**Figure 5–3 Installing Micro Focus Server: Processing**

```
root@ofss310452/scratch/app/product/microfocus
-----
When you press return you will be shown details of the reference
environment (and any compatibility environments).

Please press return when you are ready:

This product is certified on the following reference environment:
The command(s) used to gather the information is given following each entry.

Operating System
-----
RedHatEnterpriseAS 2.6.9-11.ELsmp x86_64
Red Hat Enterprise Linux AS release 4 (Nahant Update 1)

lsb_release -si
uname -r
uname -m
cat /etc/redhat-release

C Compiler
-----
cc gcc version 3.4.6 20060404 (Red Hat 3.4.6-9)

gcc -v 2>&1 | tail -1

C++ Compiler
-----
/usr/bin/g++ gcc version 3.4.6 20060404 (Red Hat 3.4.6-9)

g++ -v 2>&1 | tail -1

Assembler
-----
as GNU assembler version 2.15.92.0.2 (x86_64-redhat-linux) using BFD version 2.15.92.0.2 20040927

as -v 2>&1 < /dev/null

Linker
-----
ld GNU ld version 2.15.92.0.2 20040927

ld -V 2>&1 | head -1

Supported versions of Java
-----
Java version = 1.4.2_03
Java vendor = Sun Microsystems Inc.
Java OS name = Linux
Java OS arch = i386
Java OS version = 2.6.9-11.ELsmp

Java version = 1.5.0_07
Java vendor = Sun Microsystems Inc.
Java OS name = Linux
Java OS arch = i386
Java OS version = 2.6.9-11.ELsmp

Java version = 1.5.0_07
Java vendor = Sun Microsystems Inc.
```

The screen shots below provide the system information:

- Confirm your understanding of the above reference environment details (y/n): Y
- Do you want to make use of COBOL and Java working together? (y/n): Y
- Make a selection: 6
- Enter either 32 or 64 to set the system default mode: 64
- Do you wish to configure Enterprise Server now? (y/n): N

**Figure 5–4 Providing System Information**

```

root@ofs310452:/scratch/app/product/microfocus
1) 1.7.0 64-bit
2) 1.7.0
3) 1.4.2
4) 1.5.0 64-bit
5) 1.5.0
6) 1.6.0 64-bit
7) 1.6.0
8) Bypass Java setup
Please make a selection: 6
Java setup complete

-----
To run your applications you need a deployment license installed using Apptrack.
See your Deployment Licensing Guide for details.
Installing Apptrack...

Access permissions on directory /var/mfaslmf have changed on this release
Write access permission has been removed except for superuser use
Apptrack installation complete

-----
This product can be used in either 32-bit or 64-bit modes.
Please enter either 32 or 64 to set the system default mode: 64
System default COBMODE has been set to 64.

-----
Installing documentation. Please wait...

-----
Enterprise Server provides a scalable, managed and high-performance
transactional environment for the deployment of COBOL applications
and services, COBOL/JZEE applications and direct COBOL Web Services.

Your Enterprise Server requires configuration. You can either do it now
or later. To do it now you need to know the alphanumeric user ID of the
Enterprise Server System Administrator.
To do it later, enter the following commands whilst logged in as root :
/scratch/app/product/microfocus/bin/esminstall
/scratch/app/product/microfocus/bin/casperm

Do you wish to configure Enterprise Server now? (y/n): N

-----
(remember to set COBDIR to /scratch/app/product/microfocus,
include /scratch/app/product/microfocus/lib in LD_LIBRARY_PATH
and include /scratch/app/product/microfocus/bin on your PATH)

WARNING: Any executables (whether a Run-Time System or an application)
must be relinked using this new release. Otherwise, the results of
running the older executables with this new release are undefined.

Installation completed successfully.

The COBOL system is ready to use.
You have new mail in /var/spool/mail/root
[root@ofs310452 microfocus]#

```

## 5.3 Installing Micro Focus Server Temporary Licenses

Temporary license codes provided are active for up to 30 days until you request a full license. If the temporary license is not converted within the 30-day temporary license period, you cannot compile COBOL programs.

To install Micro Focus license by using apptrack, follow the steps below:

1. Browse to aslmf directory (present inside the Micro Focus executable dir).

```

COBDIR=/scratch/app/product/microfocus
export COBDIR
cd $COBDIR
cd aslmf

```

2. Execute apptrack file present inside aslmf folder.

```
./apptrack
```

3. Enter any 6-digit password.

It displays the following options:

Server License Administration System - AppTrack

- License List
- License Summary

- License Install
  - License Uninstall
  - Change / Set Password
  - Reinitialize Licensing
  - Current Users
  - Quit
4. Enter the Menu Selection.
  5. Select the option **License Install** to install the license. This is temporary license. The steps on how to acquire permanent license are mentioned in [Section 5.4, "Acquiring Permanent Licenses."](#)
    1. Enter the Serial Number part of the License Key:  
`600000164065TZ+`
    2. Enter the License Number part of the License Key:  
`03030 10000 0A8AF 4CD06 8D52`

## 5.4 Acquiring Permanent Licenses

Contact Oracle licensing ([licensecodes\\_ww@oracle.com](mailto:licensecodes_ww@oracle.com)) with the following information to request for a permanent license:

- Company Name
- Customer Number
- Customer Support Identifier (CSI) Number (if available) or a copy of your contract including attachment 1
- Operating System (OS) Platform and version
- Full name of the product to be licensed: Micro Focus Server - UNIX

The turnaround time to receive the license code is 48 hours.

## 5.5 Installing UNIX Micro Focus Server Permanent Licenses

Oracle licensing ([licensecodes\\_ww@oracle.com](mailto:licensecodes_ww@oracle.com)) provides you a tar file - **MFServerPermLicense.tar**. You must place the **MFServerPermLicense.tar** file on your UNIX server and then you must extract the contents of the tar file in a new directory.

The **MFServerPermLicense.tar** file contains a readme.txt file with instructions on how to complete the license code installation.

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**Note:** Initially, a 30-Day license key is provided with the product. You can receive the permanent license for Micro Focus Cobol runtime by sending your machine environment details to:

[licensecodes\\_ww@oracle.com](mailto:licensecodes_ww@oracle.com)

You do not have to pay additionally to receive the permanent license.

OBP Collections team provides support for any COBOL code issues. However, Micro Focus supports the Micro Focus COBOL software setup issues. You can contact the Micro Focus team on [customercare@microfocus.com](mailto:customercare@microfocus.com) along with the serial number and license key used.

The OBP Collections Support team certifies all OBP Collections COBOL upgrades or patches.

If you want to use the COBOL development, then you must install Micro Focus Server Express (a COBOL development component for UNIX) that allows you to compile COBOL programs. If COBOL development is not required, you should not purchase this product. Server Express is an optional component that is used to develop and deploy COBOL applications only. You must install Micro Focus Server before you install Server Express. Micro Focus Server Express is a separately licensed product and has to be directly procured from Micro Focus.

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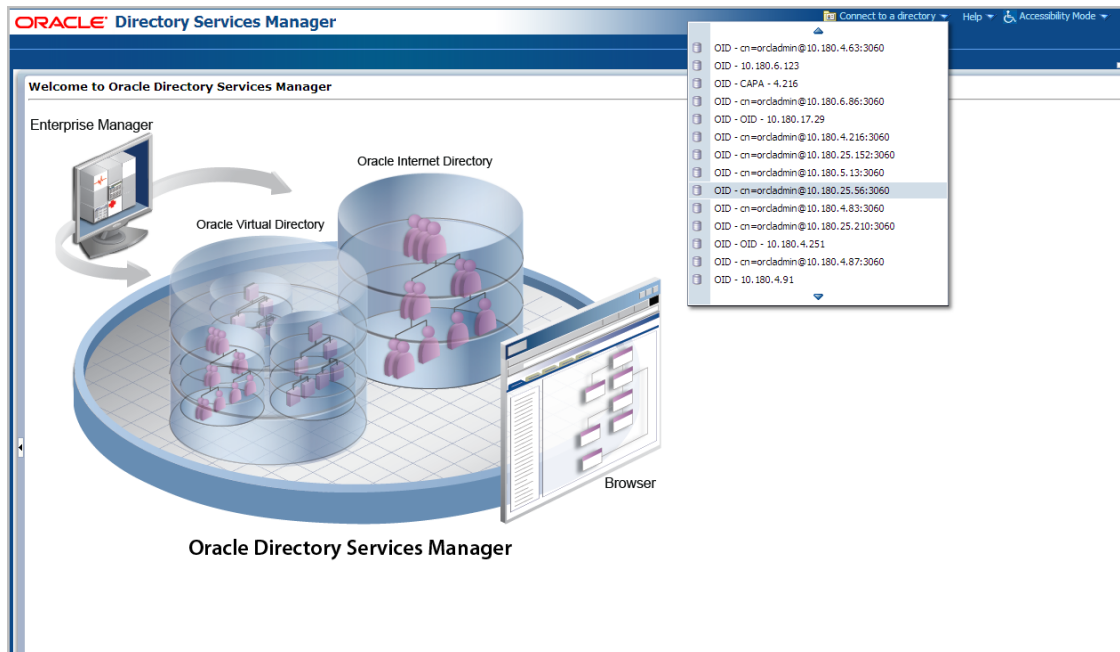


## User Creation in Oracle Internet Directory

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:

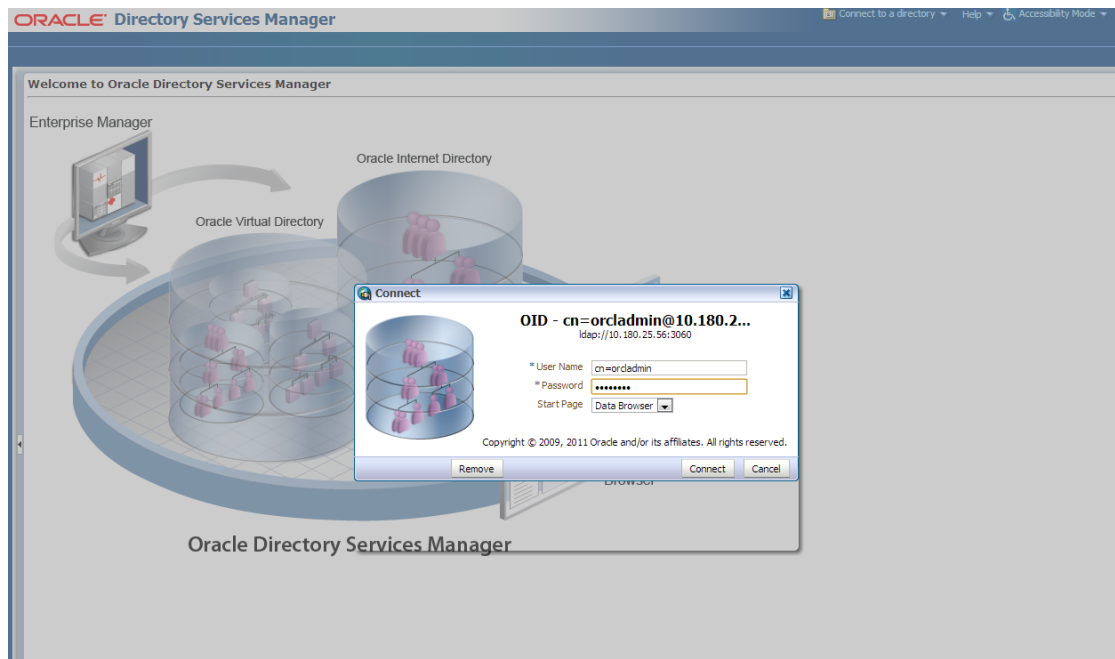
1. Access the appropriate ODSM and select the required OID.

Figure 6-1 Opening ODSM



2. Log on to the OID.

Figure 6–2 Log on to OID



3. 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

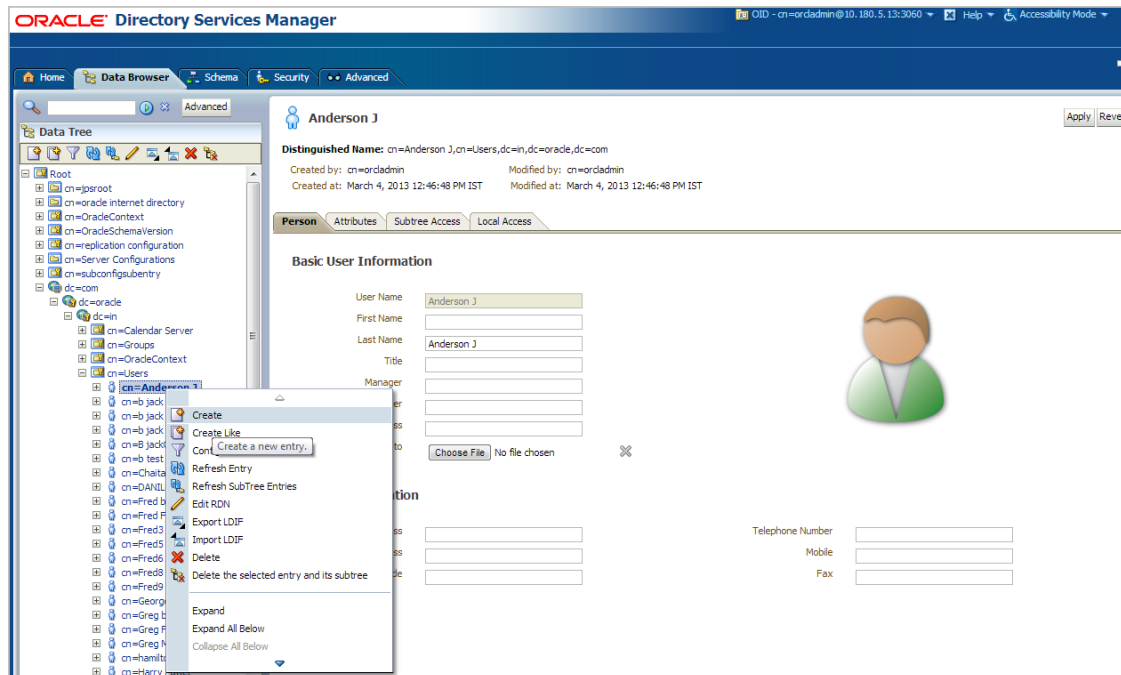
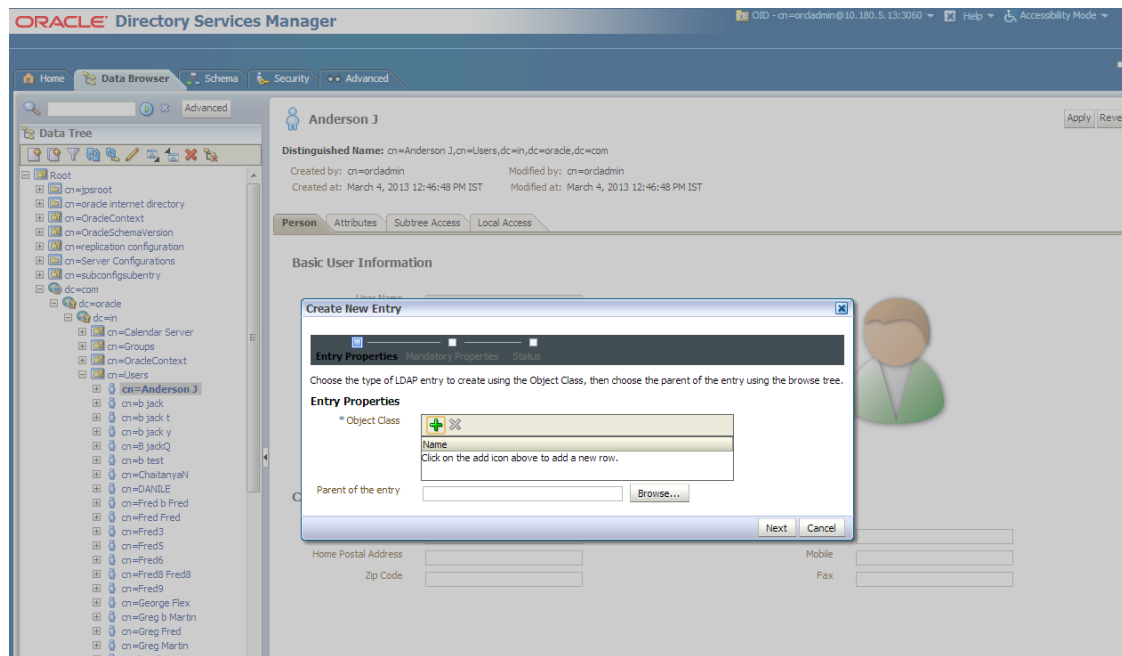


Figure 6–4 Creating New Entry



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

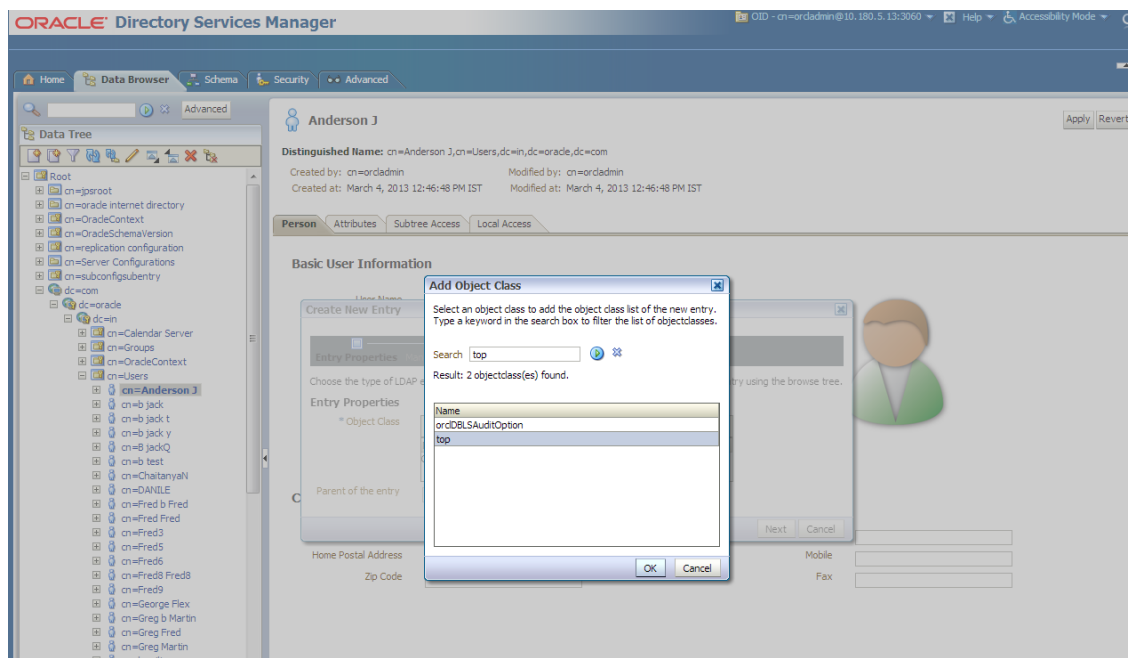
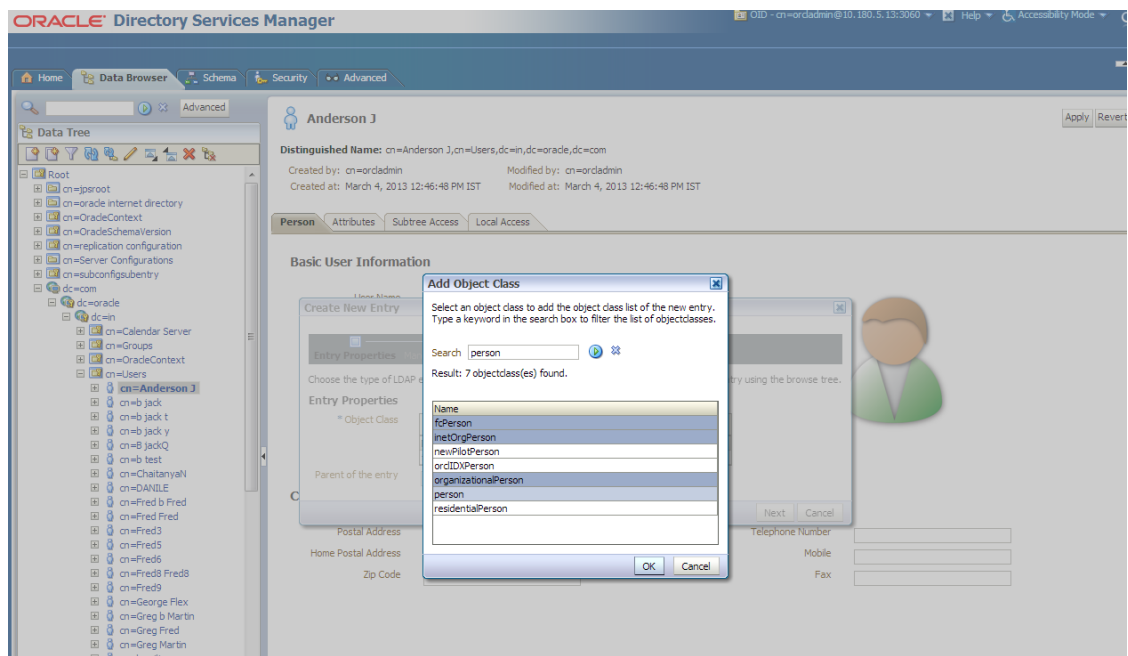
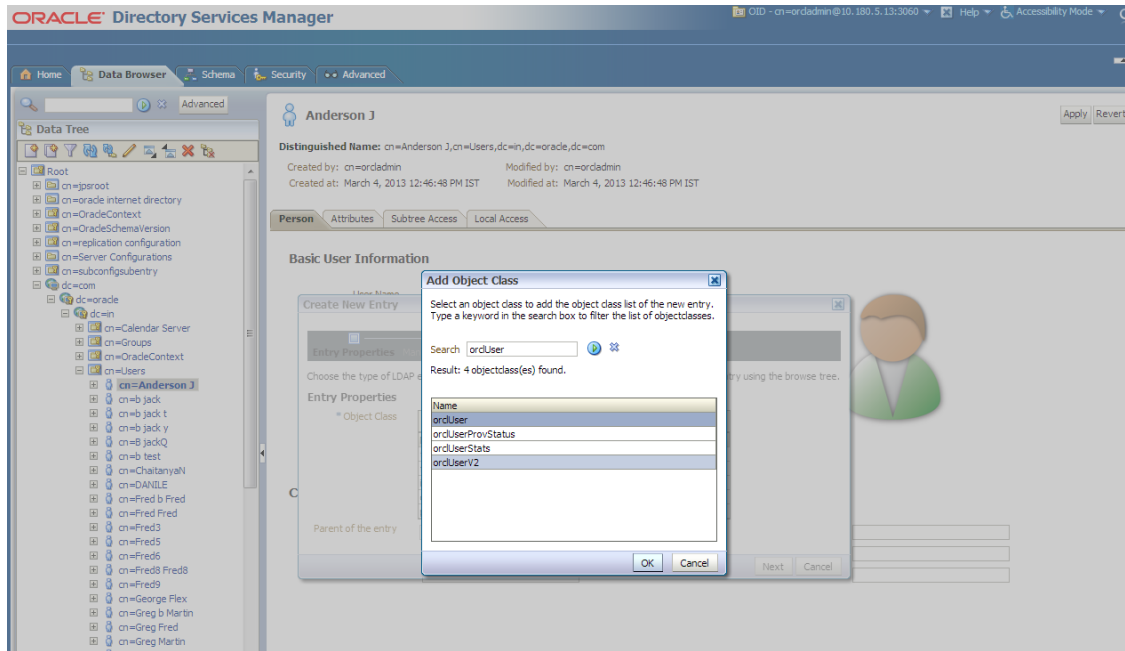


Figure 6-6 Adding Object Classes: Person

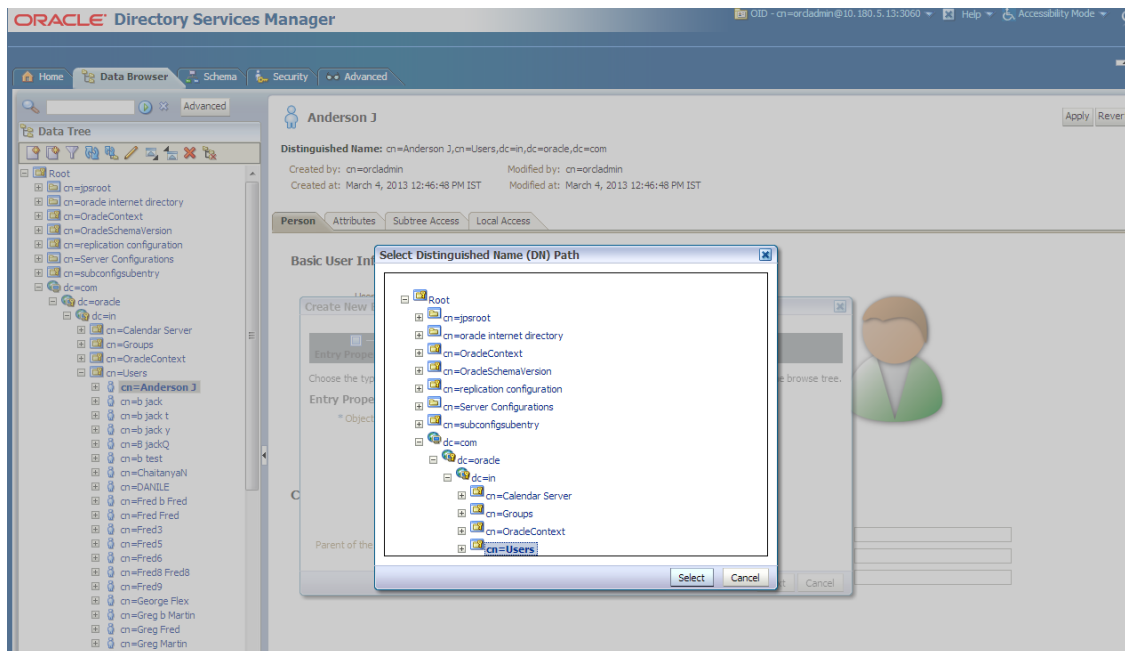


**Figure 6–7 Adding Object Classes: Orcl User**



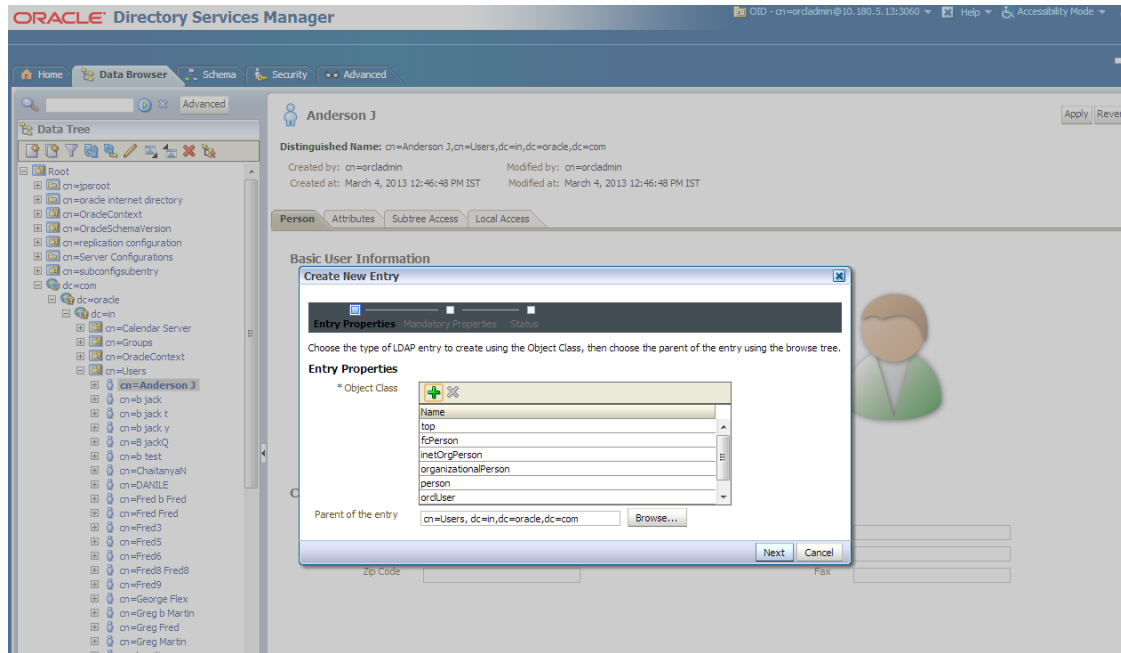
5. Select the **Distinguished Name (DN)** by clicking the **Browse** button. Select the path as **Root -> dc=com -> dc=oracle -> dc=in -> cn=Users**

**Figure 6–8 Selecting Distinguished Name**



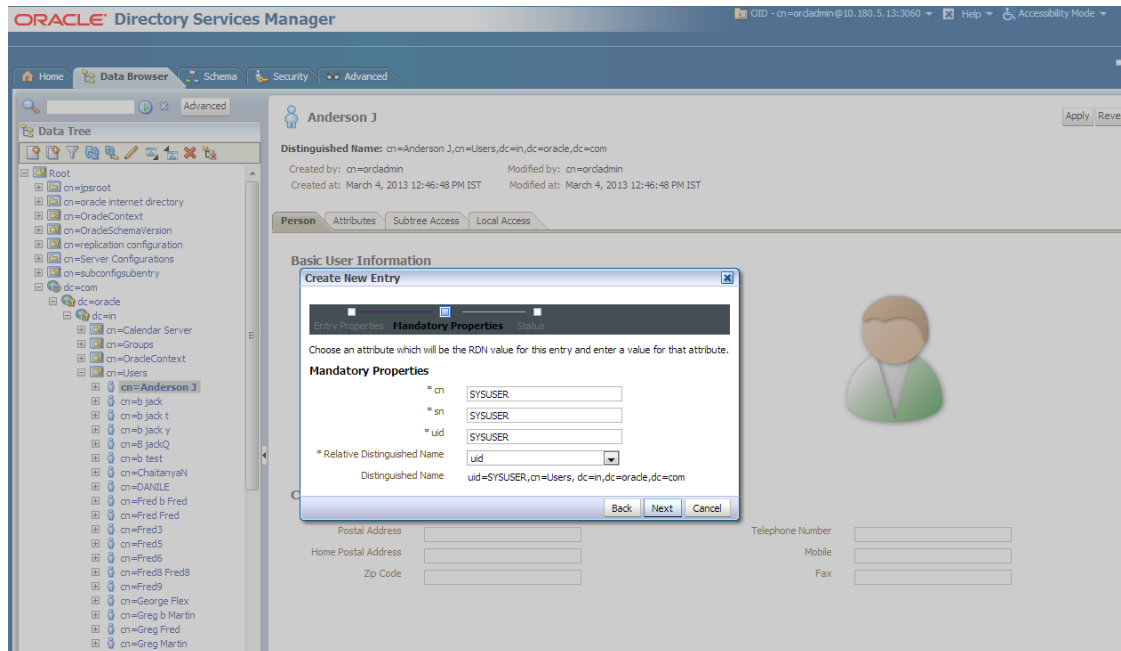
6. Click the **Next** button.

Figure 6–9 Selecting Entry Properties



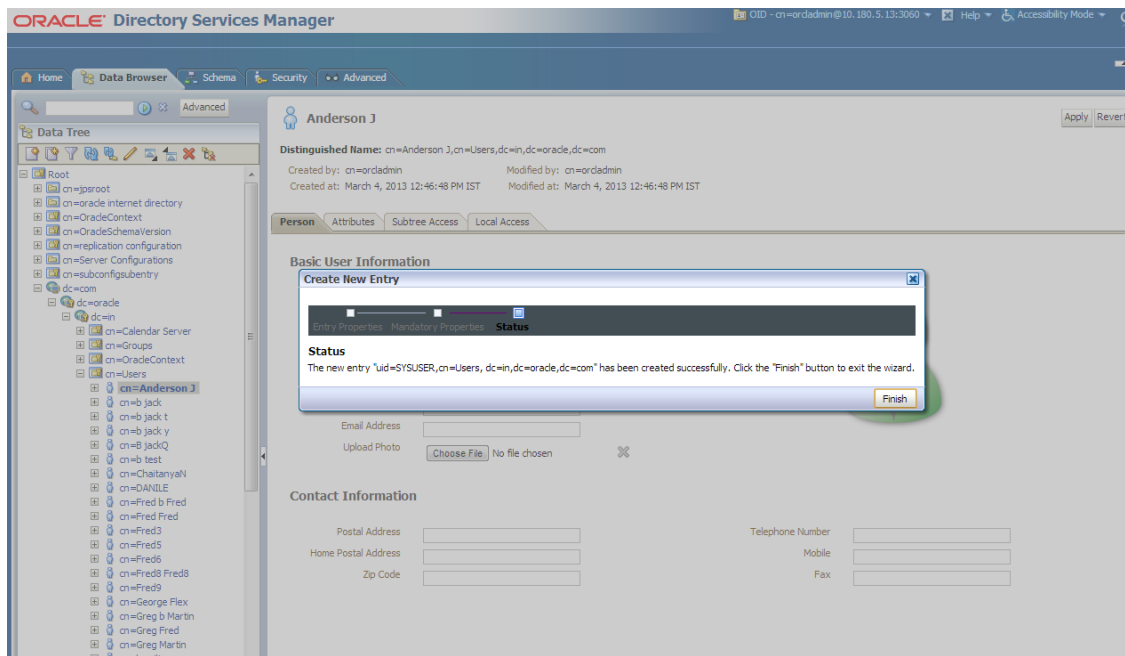
7. Select the **Relative Distinguished Name** as **uid**. Then enter the values of **cn**, **sn** and **uid** as **SYSUSER**.

Figure 6–10 Selecting Mandatory Properties



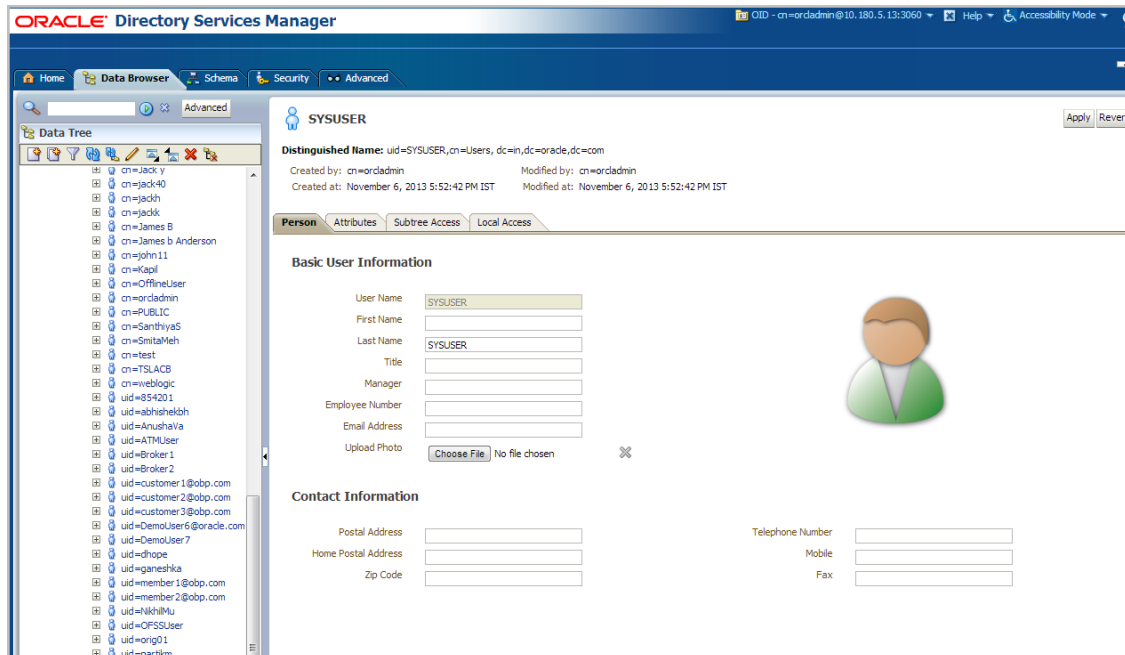
8. Click the **Next** button. The new user is created in OID and a message appears as shown in Figure 6–11.

Figure 6–11 Status Message



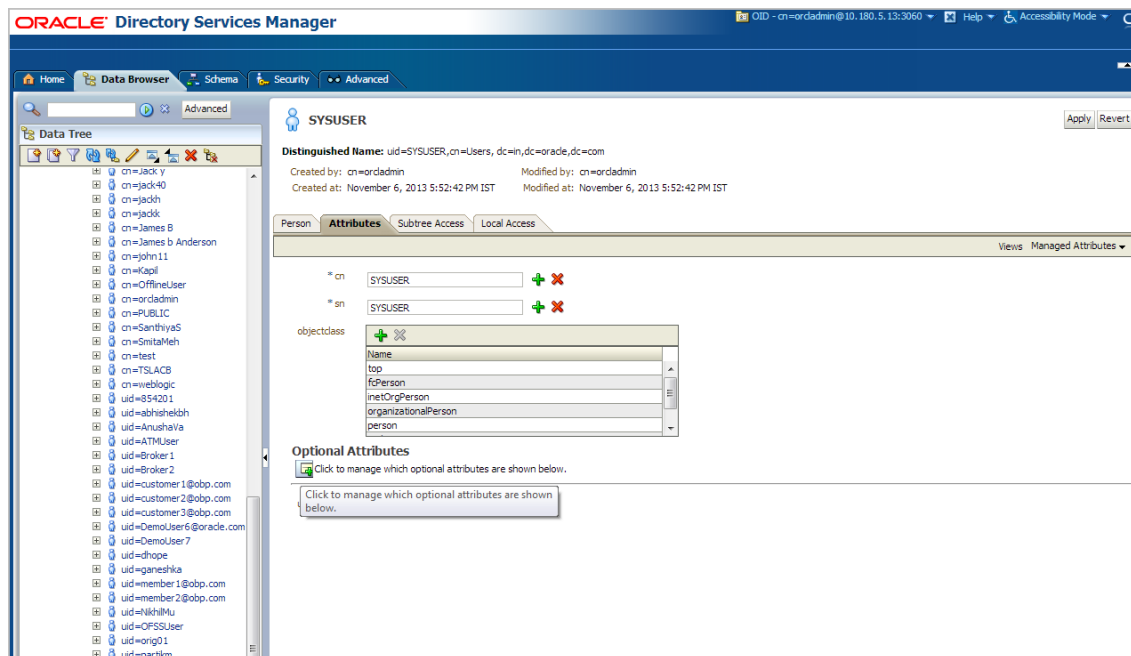
9. Select that user 'uid=SYSUSER' from the Data tree list.

Figure 6–12 Selecting the User



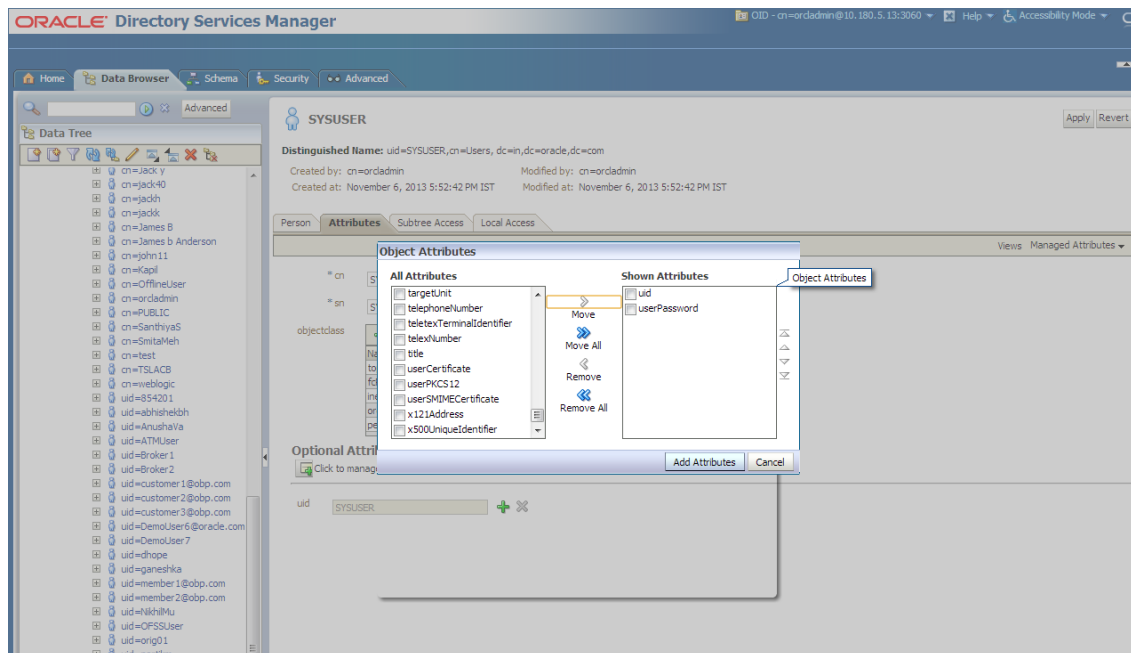
10. Click the **Attributes** tab, and then click the Add symbol under **Optional Attributes** section.

Figure 6–13 Attributes Tab



11. Add the 'userPassword' attribute from the **All Attribute** list and click the **Add Attribute** button.

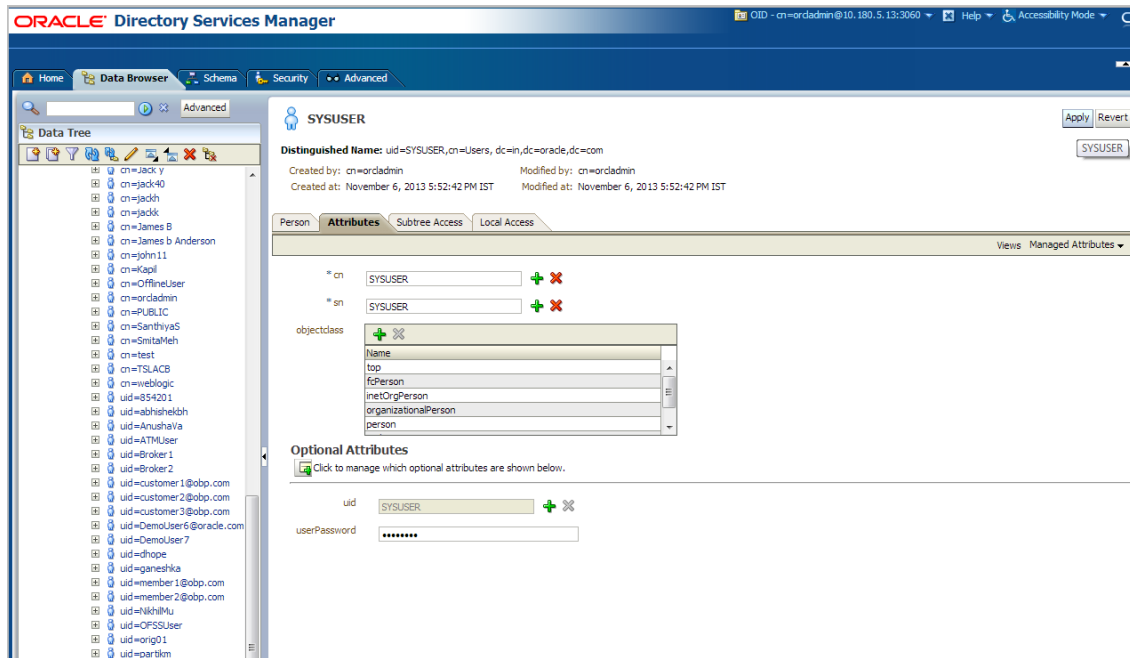
Figure 6–14 Adding User Password



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

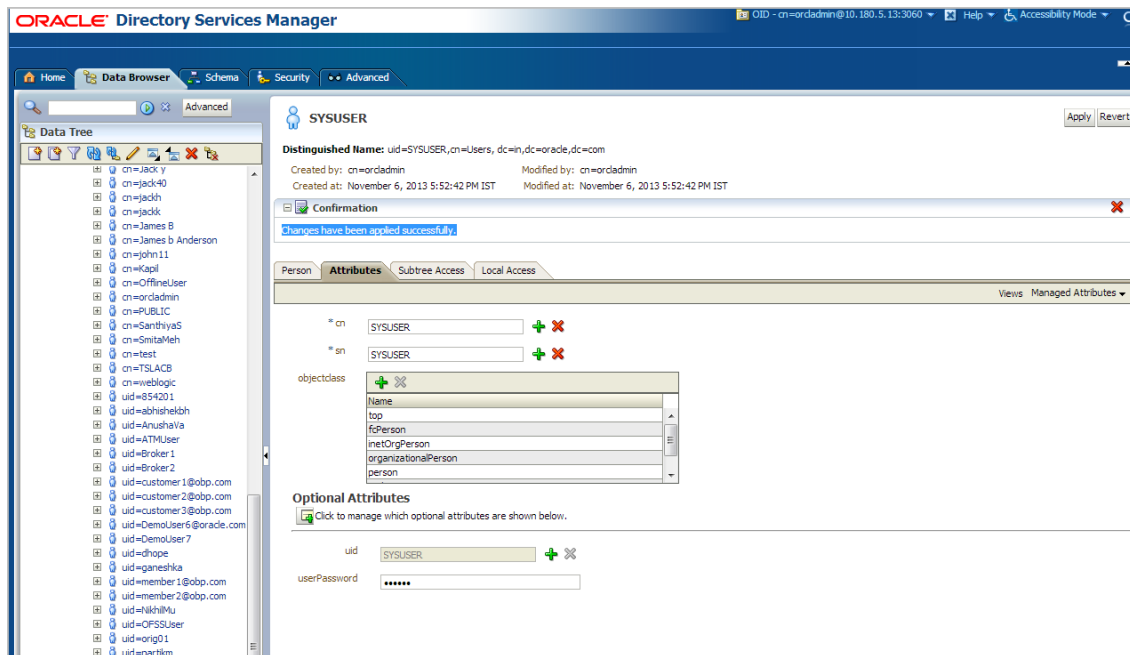


Figure 6–15 Setting User Password



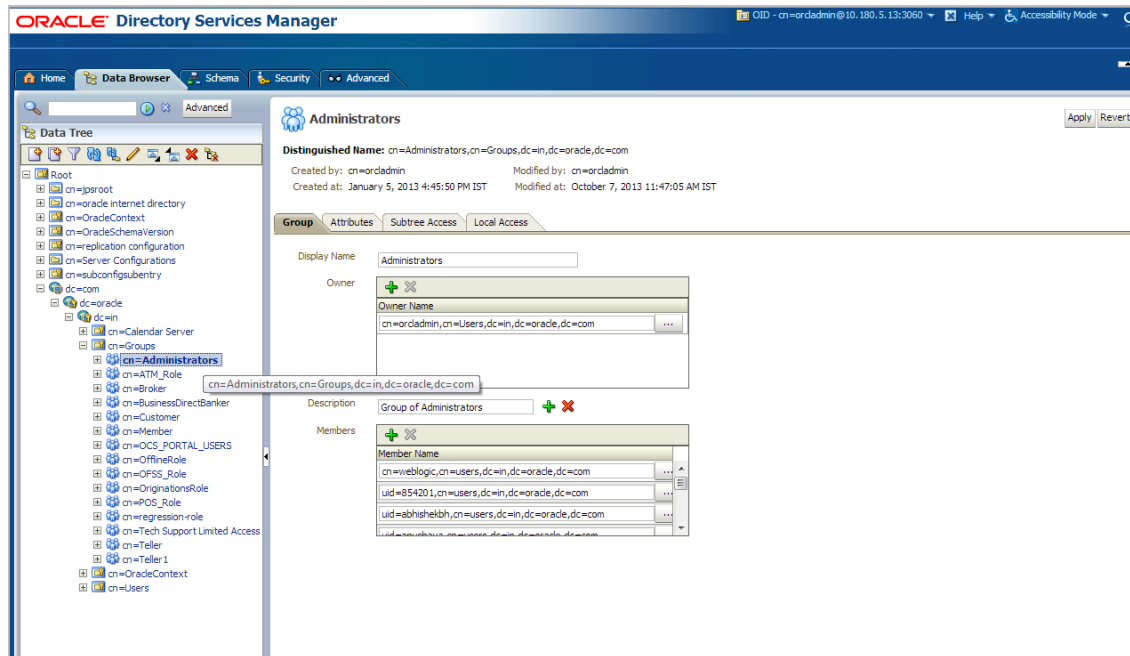
13. The confirmation message appears as "Changes have been applied successfully.." as shown in Figure 6–16.

Figure 6–16 Confirmation Message



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

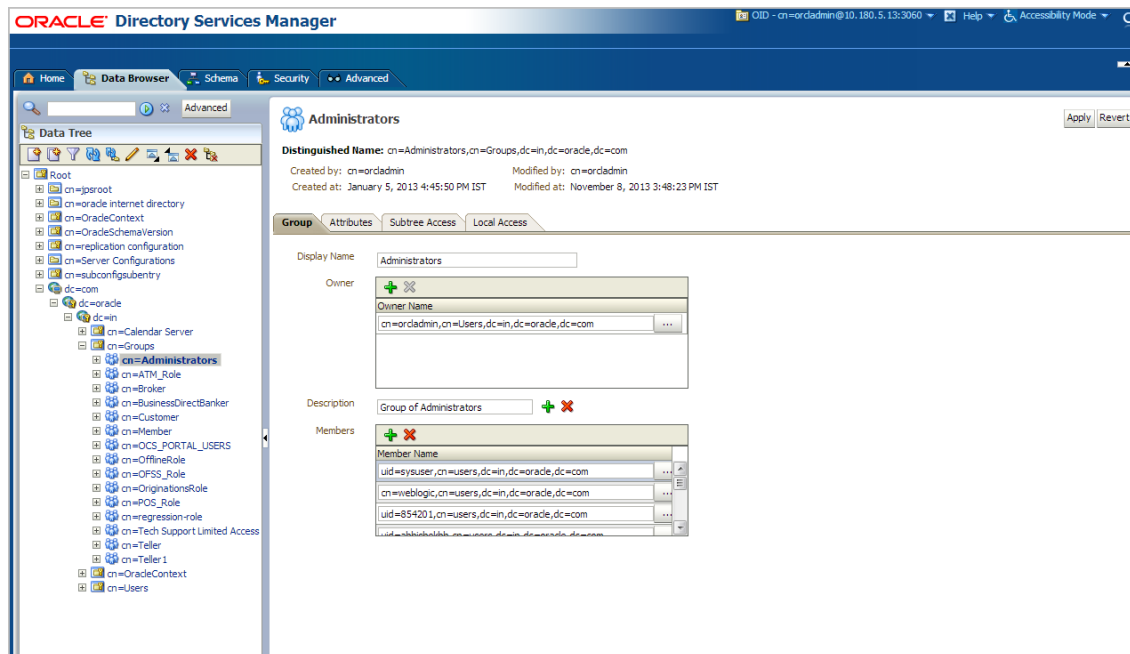
Figure 6-17 Adding to Administrator Group



15. 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



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

Figure 6-19 Confirmation Message

