# Oracle Banking Digital Experience

**Installer User Guide**
**Release 16.1.0.0.0**

**Part No. E71761-01**

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ORACLE®

Installer User Guide

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# Table of Contents

# 1. Preface

## 1.1 Intended Audience

This document is intended for the following audience:

- Customers
- Partners

## 1.2 Documentation Accessibility

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

## 1.3 Access to Oracle Support

https://support.us.oracle.com

## 1.4 Structure

This manual is organized into the following categories:

*Preface* gives information on the intended audience. It also describes the overall structure of the User Manual.

The subsequent chapters cover following

- Introduction
- Prerequisites
- Installation
- Post Installation Steps

## 1.5 Related Information Sources

For more information on Oracle Banking Digital Experience Release 16.1.0.0.0, refer to the following documents:

- Oracle Banking Digital Experience Licensing Guide

# 2. Introduction

Oracle Banking Digital Experience (referred to as OBDX in the rest of the document) is an enterprise class digital banking platform that empowers financial institutions to rapidly deliver end-to-end digital experiences while leveraging their existing IT infrastructure investments including their core banking systems.

Using Oracle Banking Digital Experience, banks can successfully execute on their digital strategies, using an open, modern and scalable solution. Banks can drive new levels of experience and engagement with their customers across their enterprises.

The product is built on open standards architecture, brings new comprehensive capability to banks seeking a digital transformation in customer and account originations, various business services across multiple customer segments. It provides comprehensive business services out of the box, such digital account and loan origination, digital wallets and payments. Banks can rapidly launch in as little as a few weeks, new digital capabilities that provide market differentiation, such as the ability to apply for and secure a personal loan or credit card from the convenience of their smart phone and make payments with the swipe of a finger. Oracle Banking Digital Experience is part of Oracle turn-key solution set that empowers banks to rapidly launch digital brands for customers segments that prefer digital-first or digital-only options.

Oracle Banking Digital Experience (OBDX) transforms customer and account origination, servicing and payments. All business services in Oracle Banking Digital Experience can be easily consumed in digital experiences by utilizing their RESTful APIs. Thus allowing banks to leverage the services as an API using their existing user interfaces. The services cover areas such as deposit and loan origination, deposit and loan servicing, payments, digital wallets, and merchant payments. The extensible platform also creates a flexible environment for banks to drive further innovation.

OBDX also provides modern HTML5, CSS3, responsive, single page application user experiences built using an open source user experience framework. This approach gives banks the flexibility to create modern experiences with in-market resources that understand how to use these standard technologies. These open source technologies include knockout.js, jQuery, Sass (Syntactically Awesome Style Sheets), and more.

Oracle Banking Digital Experience has Externalized security and is integrated out of the box with Oracle's enterprise-class IDM security suite. It can also be deployed and integrated with equivalent open source security components that Oracle Weblogic is certified with as an authentication provider.

## 2.1 Purpose of the Document

The purpose of the OBDX Installation Guide is to provide a step by step overview on the installation process of the solution.

It includes:

- Prerequisites to install the OBDX & running the installer
- Installation of OBDX with Oracle's own Core Banking and Origination Products.
- Advanced Configurations (Post installation)
- Installation Verification

# 3. Prerequisites

OBDX Installation will require the following environment software with the respective versions.

| Software | Version |
|---|---|
| **Java (JDK)** | 1.7_79 |
| **Oracle Weblogic** | 10.3.6, (for IDM)<br>12.1.3.0.0 (for OBDX) |
| **Oracle Access Manager (OAM)** | 11.1.2.3.0 |
| **Oracle Unified Directory (OUD)** | 11.1.2.3.0 |
| **Oracle Database** | 12.1.0.2.0 - 64bit |
| **Oracle Entitlement Server (OES)*** | 11.1.2.3.0 |
| **Oracle Webtier (OHS)** | 11.1.1.9.0 |
| **Oracle Webgate** | 11.1.2.3.0 |
| **Repository Creation Utility (RCU)**<br>(for OAM & OES repositories) | 11.1.1.9.0 |
| **Python** | 2.6.6 |

** OBDX Installer is supported on LINUX platform VMs, & execute in command line mode.

** Oracle Entitlement Server is required only with OBDX-OBP installation mode.

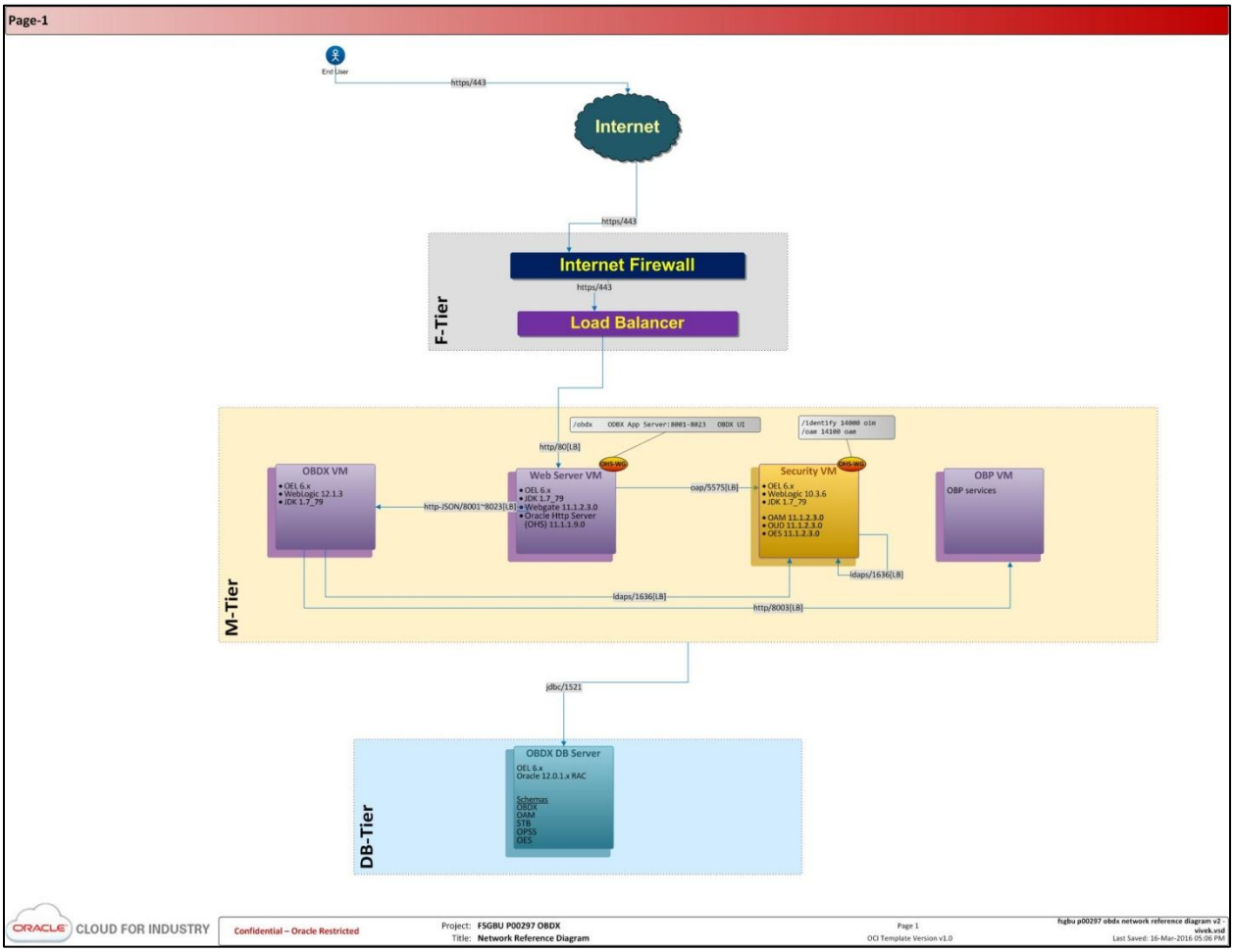



Diagram exhibits the high level representation of the entire OBDX environment,

- OBDX VM – OBDX Application will be deployed on weblogic server 12.1.3, & it will be integrated with OBP / FCUBS and IDM security.
- Web Server VM – Oracle Http Server & Oracle Web-Gate will be deployed on this VM and integrated with OBDX Server & IDM Security.
- Security VM – Oracle IDM stack will be deployed on this VM including OAM, OES, OUD on weblogic server 10.3.6.
- OBP / FCUBS VM – OBP / FCUBS will be installed on this VM & integrated with OBDX application server.
- Database VM – All the environment schemas IDM & OBDX will be created in this database VM.

## 3.1 Prerequisite Tasks

- All the above environment software with the correct version numbers must be installed in the respective VMs for the OBDX installation to proceed.
- Oracle Access Manager, Webtier, Webgate & Oracle Unified Directory must be integrated. *(Documentation of the integration of IDM suite is beyond the scope of this document. Separate document will be provided to cover the IDM suite integration. Please refer Appendix.)*

**Oracle's Core Banking and Origination Product Install**

- Oracle Banking Platform (OBP) must be installed in the environment & its web-services must be exposed, If OBDX is being deployed with OBP as the backend.
- Oracle FLEXCUBE UBS (FCUBS) must be installed in the environment with web-service Gateway, If OBDX is being deployed with FCUBS as the backend.
- Oracle Database must be created for installation of the OBDX database schema.
- Repository Creation Utility (RCU.zip) must be downloaded from Oracle Technology Network.
- Export encryption key from the OES domain. Refer section "A" of Appendix for more details on export command execution.
- Create "fcPerson" (default OBDX object) object and associated attributes in OUD server. Refer section "B" of Appendix for how to create objects and attribute in OUD server.

# 4. Installation

OBDX installer creates environment in a 2 step process

1. Database Schema Creation
2. Application Server Deployment

- Download

  Download the latest OBDX Installer from https://edelivery.oracle.com

- Extract

  Once the download has completed, you should extract the contents using whatever tools your operating system provides. When completed, you should be left with a folder named “OBDX Installer”.

- Upload

  With the installation extracted, connect to your VM using your usual FTP/SFTP client. Navigate to the root folder of your website and upload the “OBDX Installer” folder into it.

  Also upload the RCU.zip file to Installer directory.

  *(There’s no requirement to put OBDX Installer in the root directory of your website - we just find it easier. If you place it somewhere else, remember what folder it’s in - you’ll need to recall this later.)*

- Launch the Installer

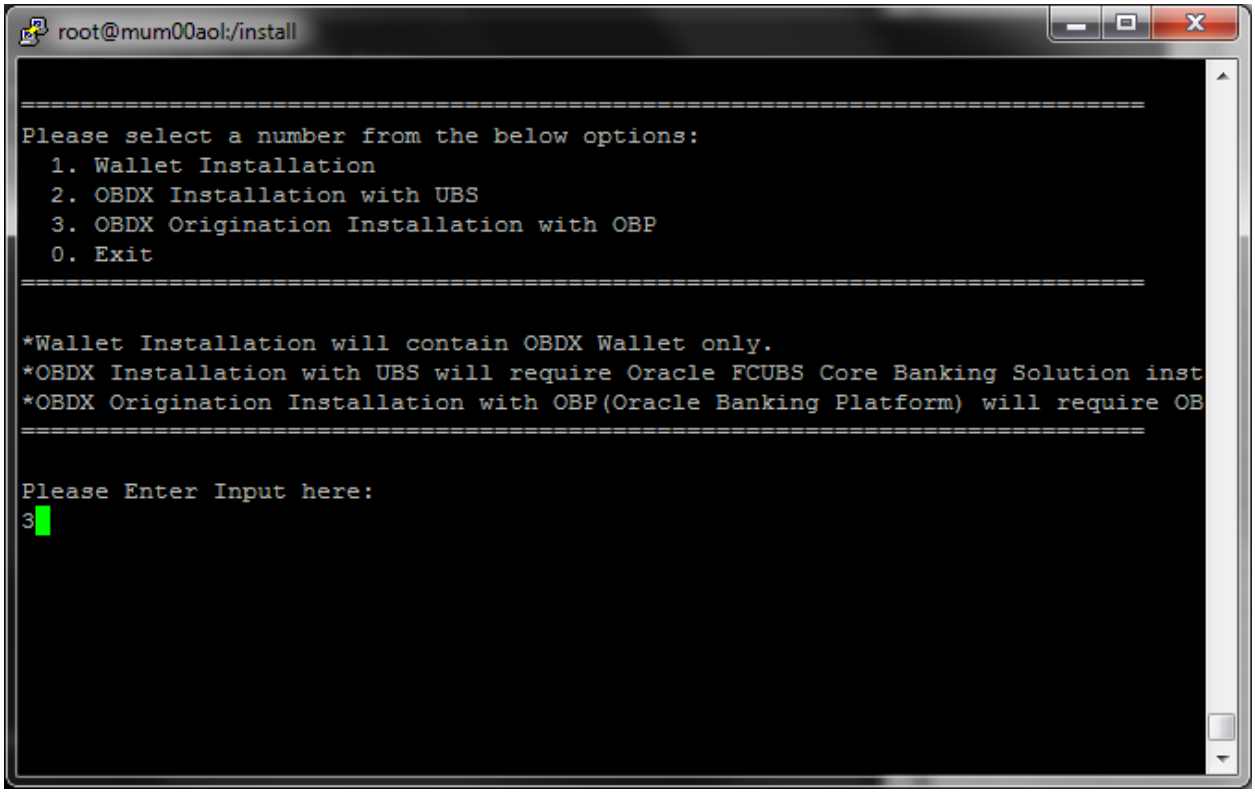
  Once the Installer successfully uploaded the VM, open the OBDX Installer directory & execute the “runInstaller.sh” file. (Directory must have the read, write & execution access for your logged in User on VM.)

  “runInstaller.sh” executes and gives the choice on screen to select the OBDX installation flavor i.e. OBP or FCUBS or Wallets.

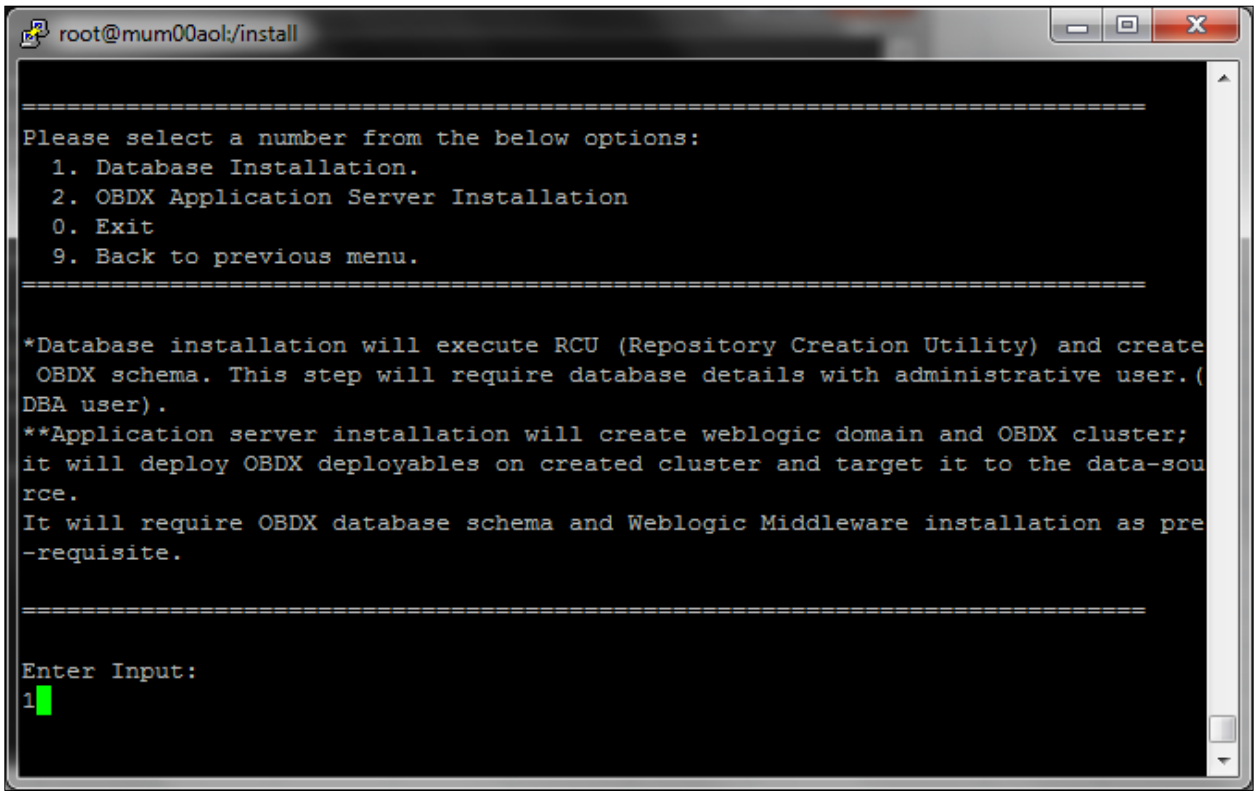
  You can select any of the OBDX installation Options.

  (Please refer the screenshot shown on the next page.)

## 4.1 OBDX Origination Installation with OBP



Once you select the **Option** of OBDX installation, Installer will give you a choice to installer the database installation or Application Server Installation. (refer the below screen shot)



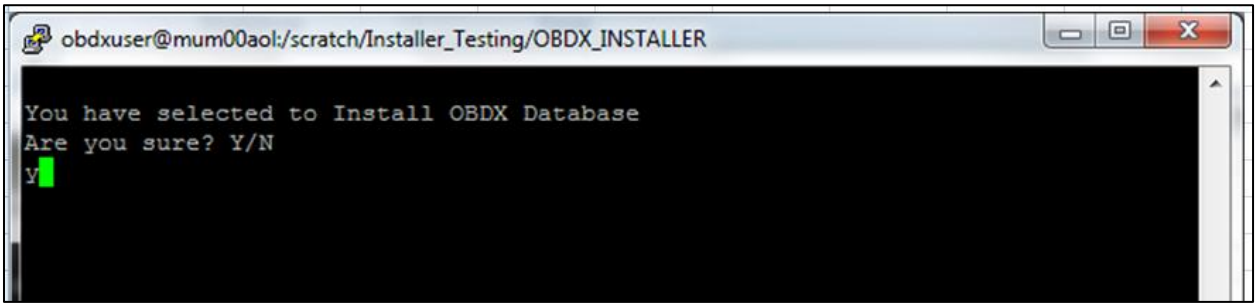

## 4.2 Database Schema Creation

We recommend you to install the database first for your OBDX environment & then process for Application Server Installation.

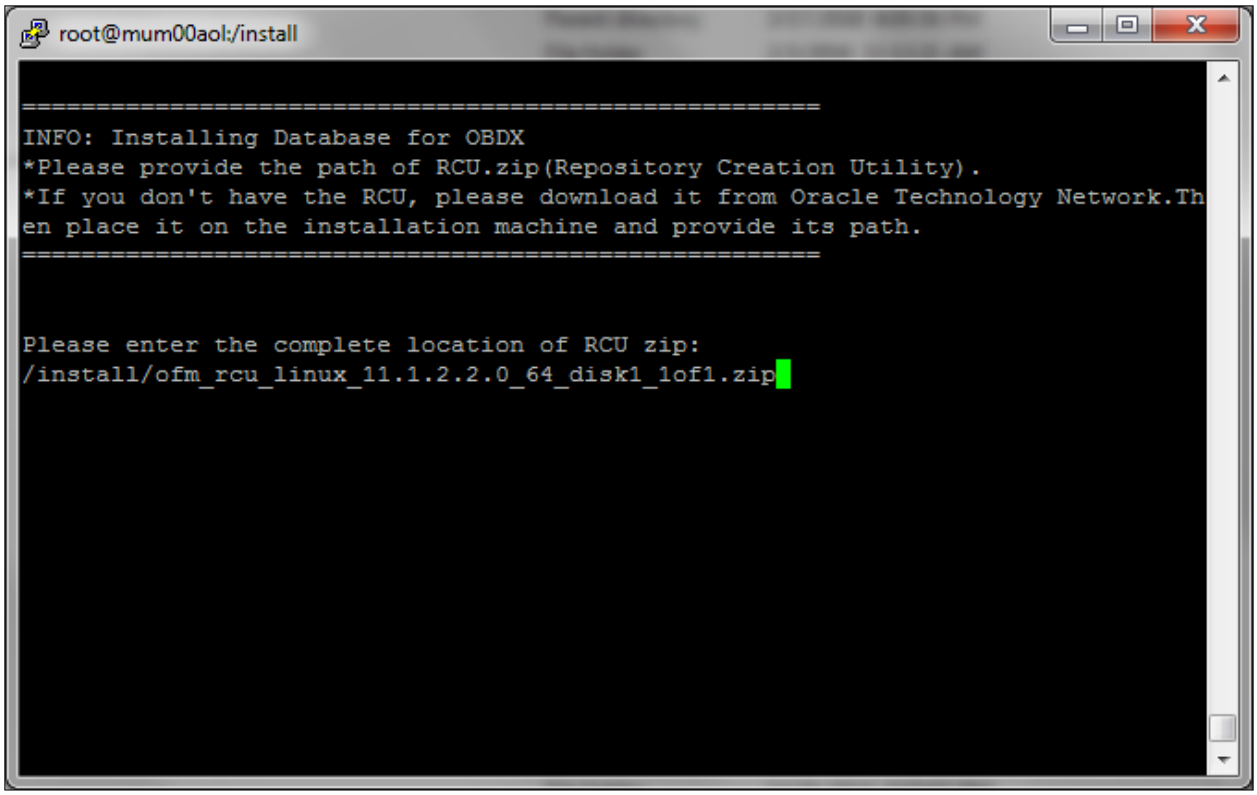
Database installation creates the OBDX schema in OBDX Database.

***If the OBDX installation option selected was FCUBS it will also create EXT_UBS schema in FCUBS Database. **EXT_UBS schema created only for FCUBS flavor of OBDX.***

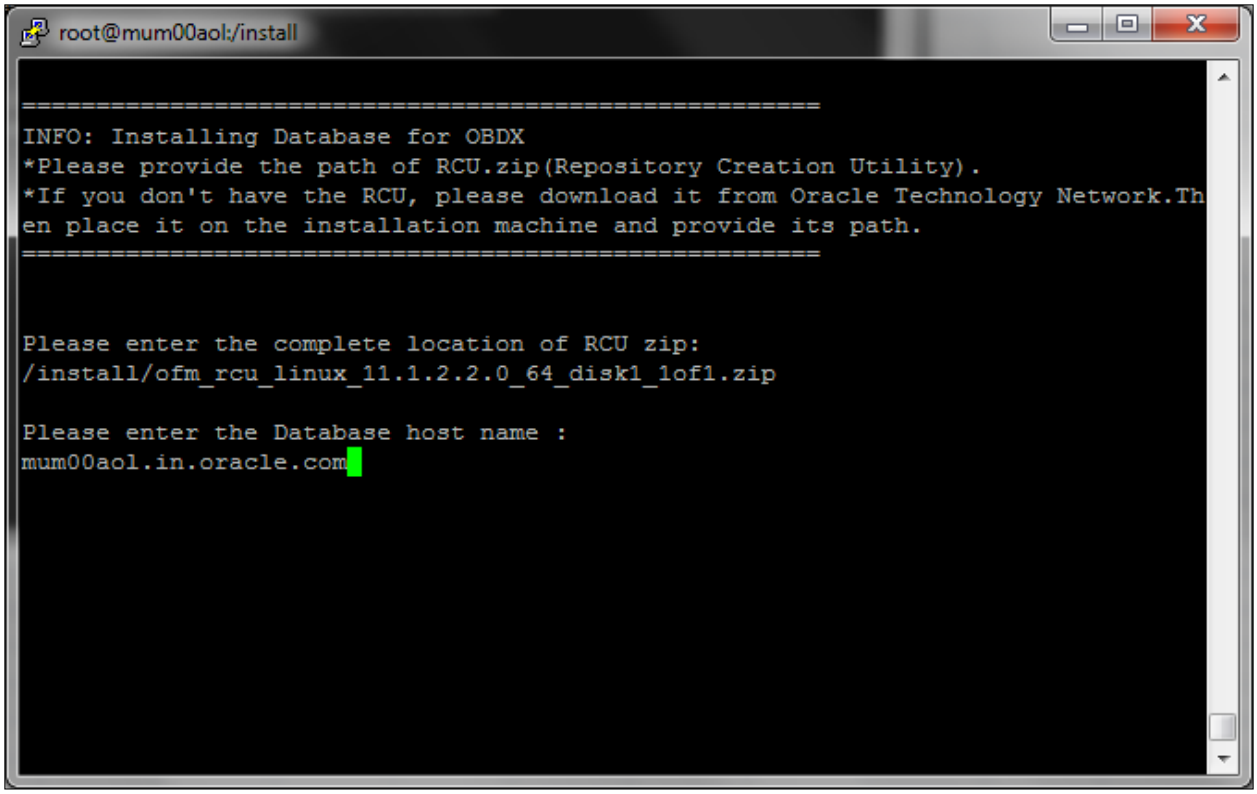
When you select the database installation, it will ask you to confirm your choice.



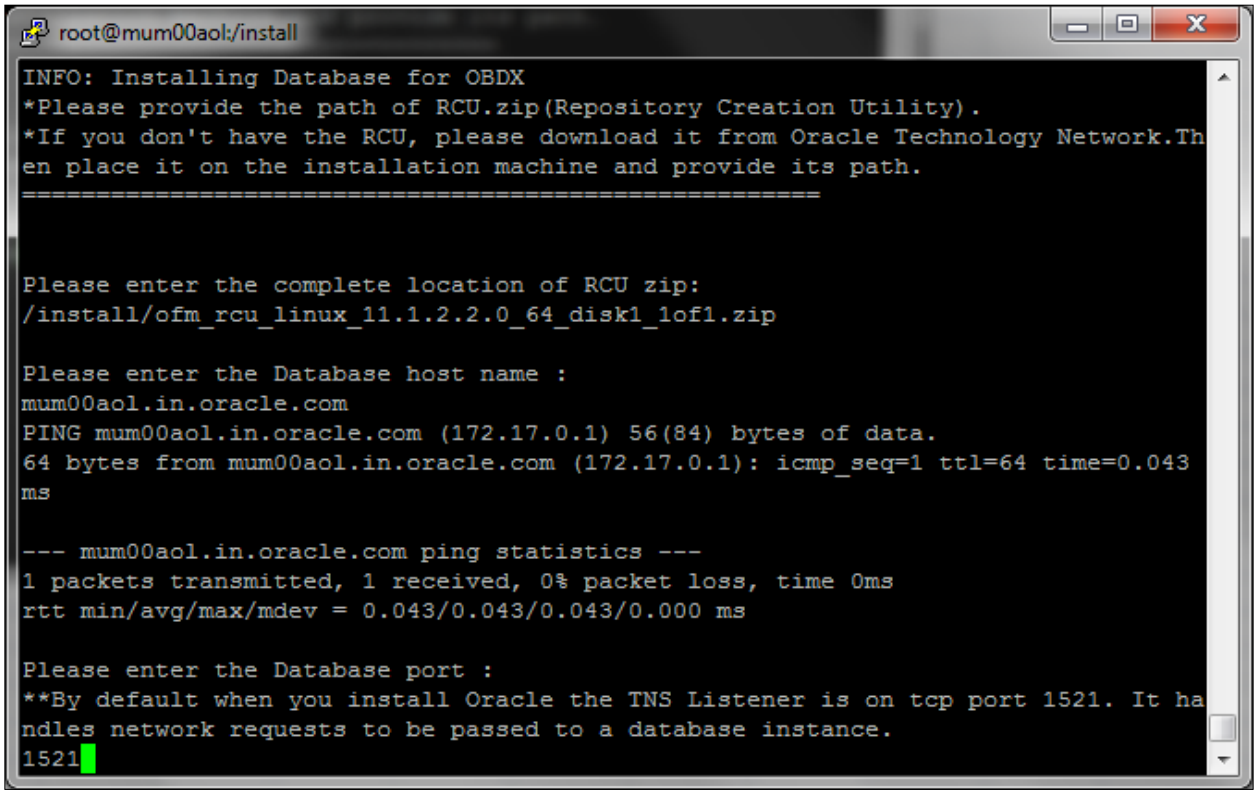
*You will need to provide the RCU.zip (Repository Creation Utility). This can be downloaded from Oracle Technology Network site and uploaded to Installer Directory.*



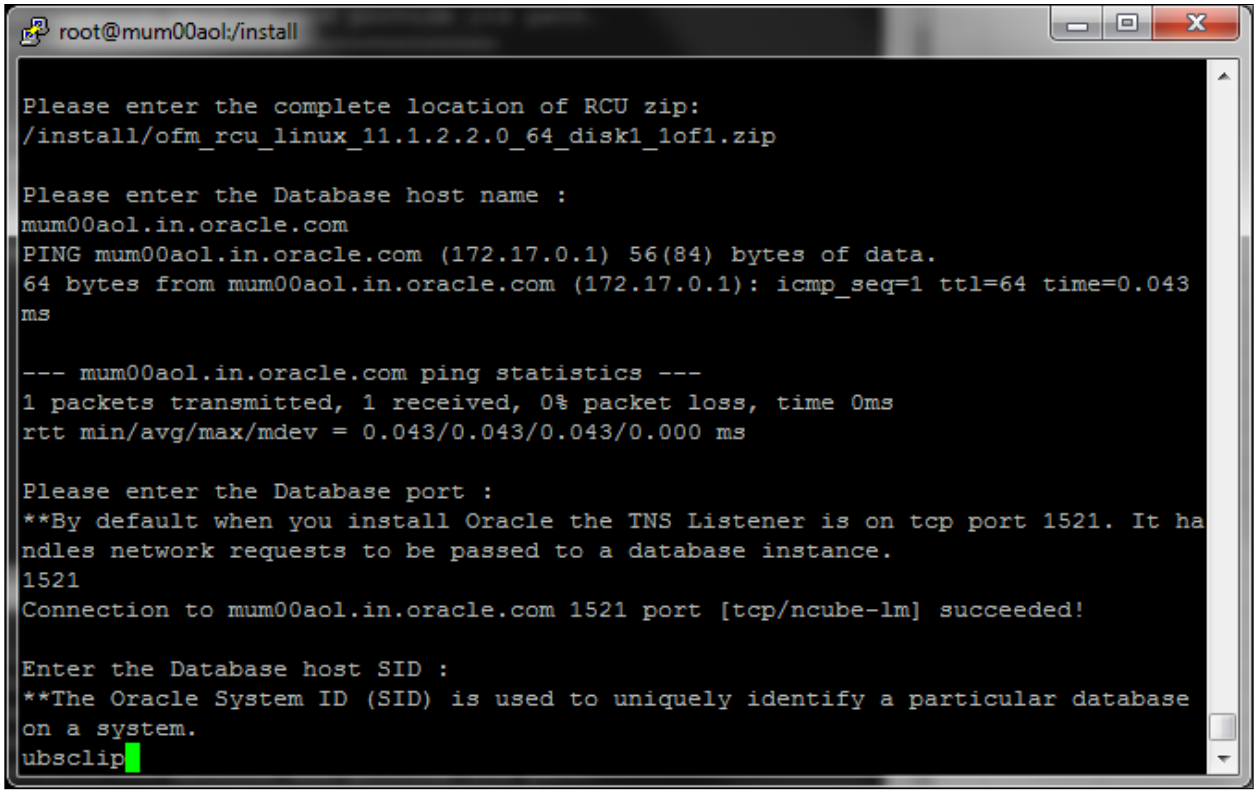
1. Enter the Database host name



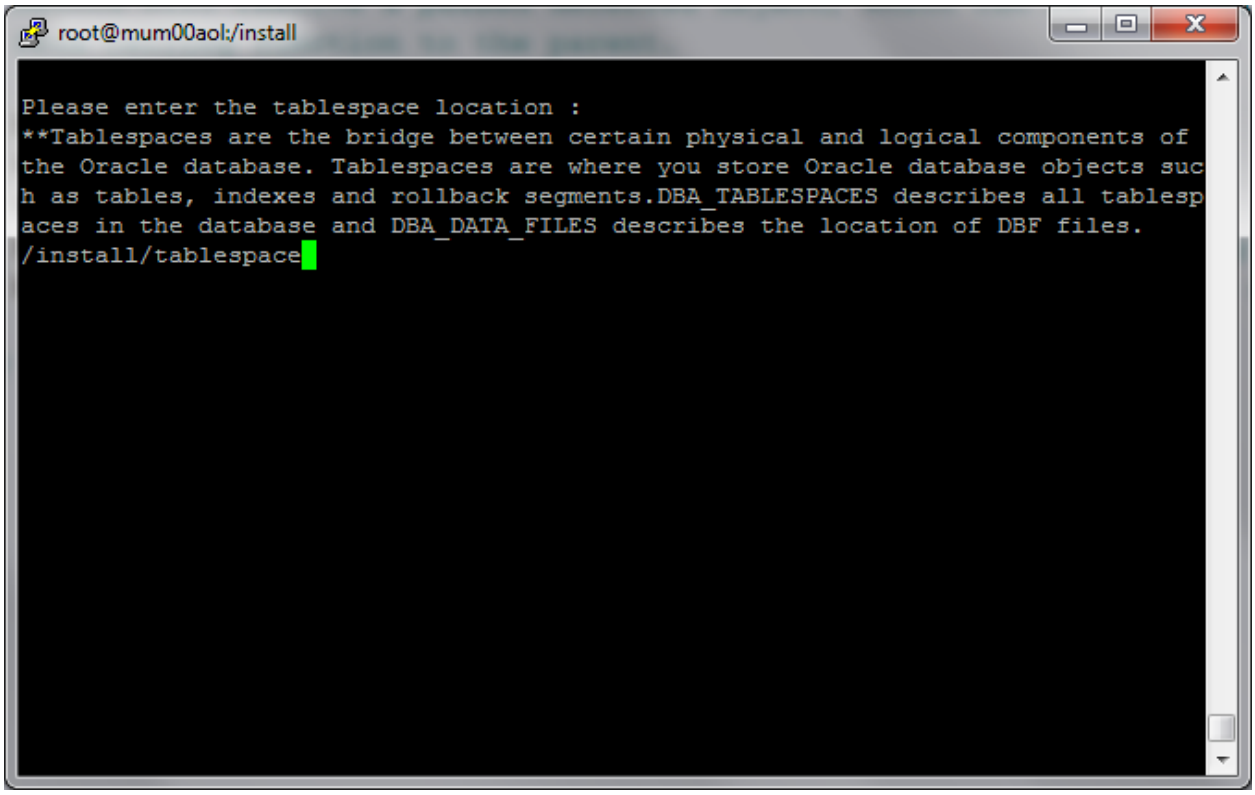
2. Enter the Database Port Name



3. Enter the Database Service Name or SID

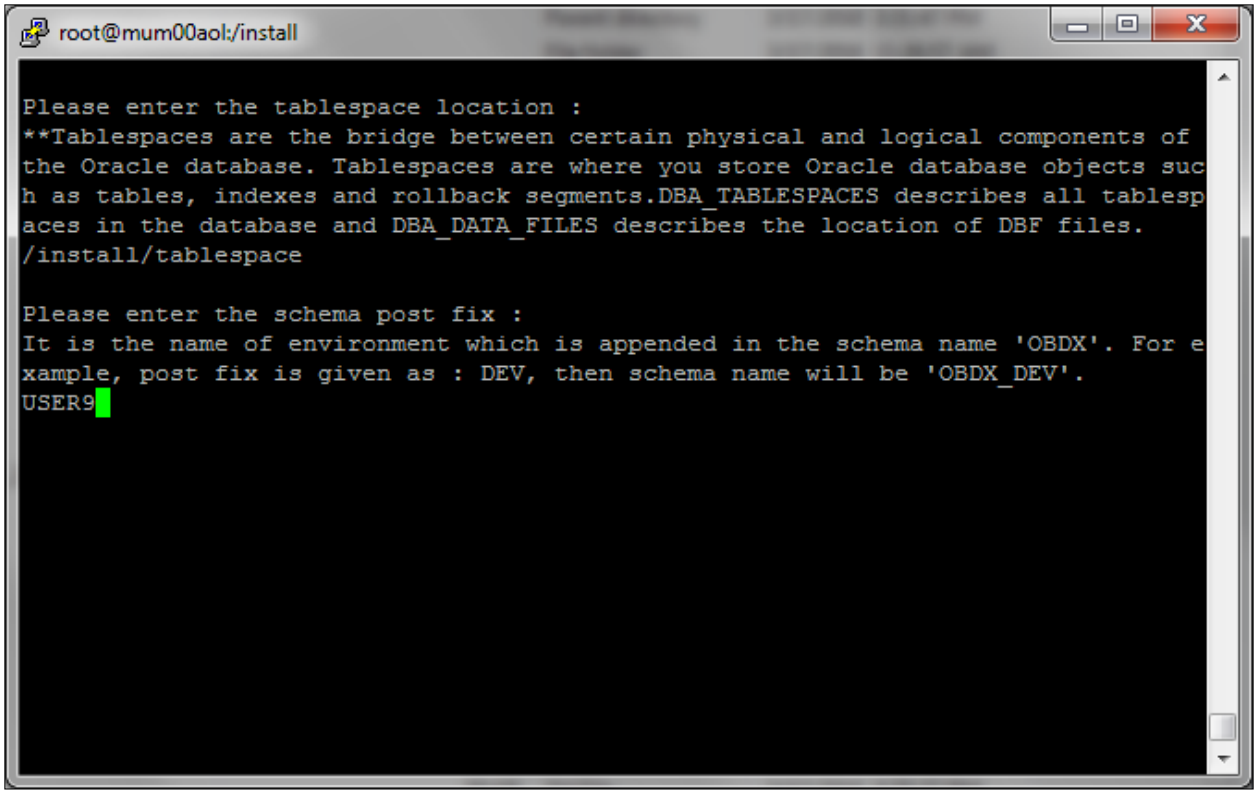


4. Enter the tablespace location in database

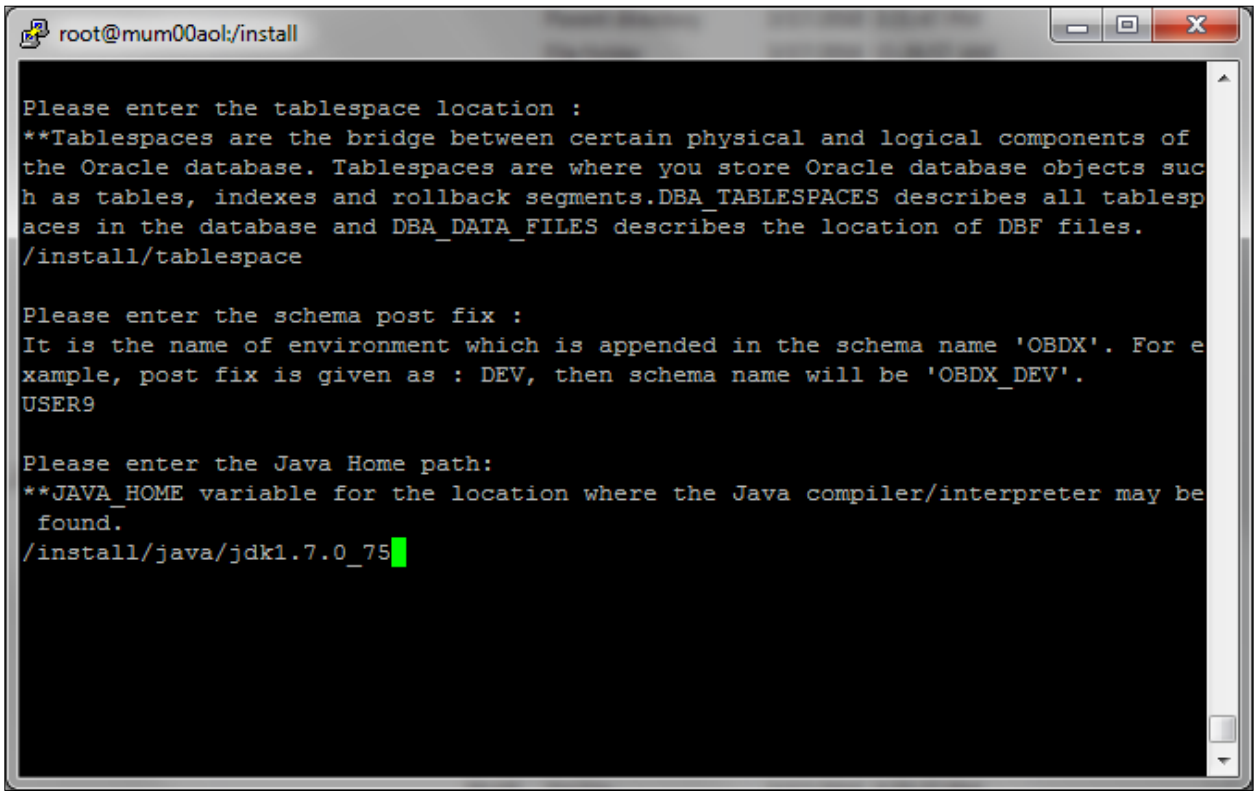


5. Enter the Post Fix Name that you want the Schema to be named as

(For e.g. if Post Fix name given is DEV then OBDX schema name will named as be **OBDX_DEV**)



6. Enter the JAVA_HOME location (This is the location where java is installed; it is required to execute RCU)



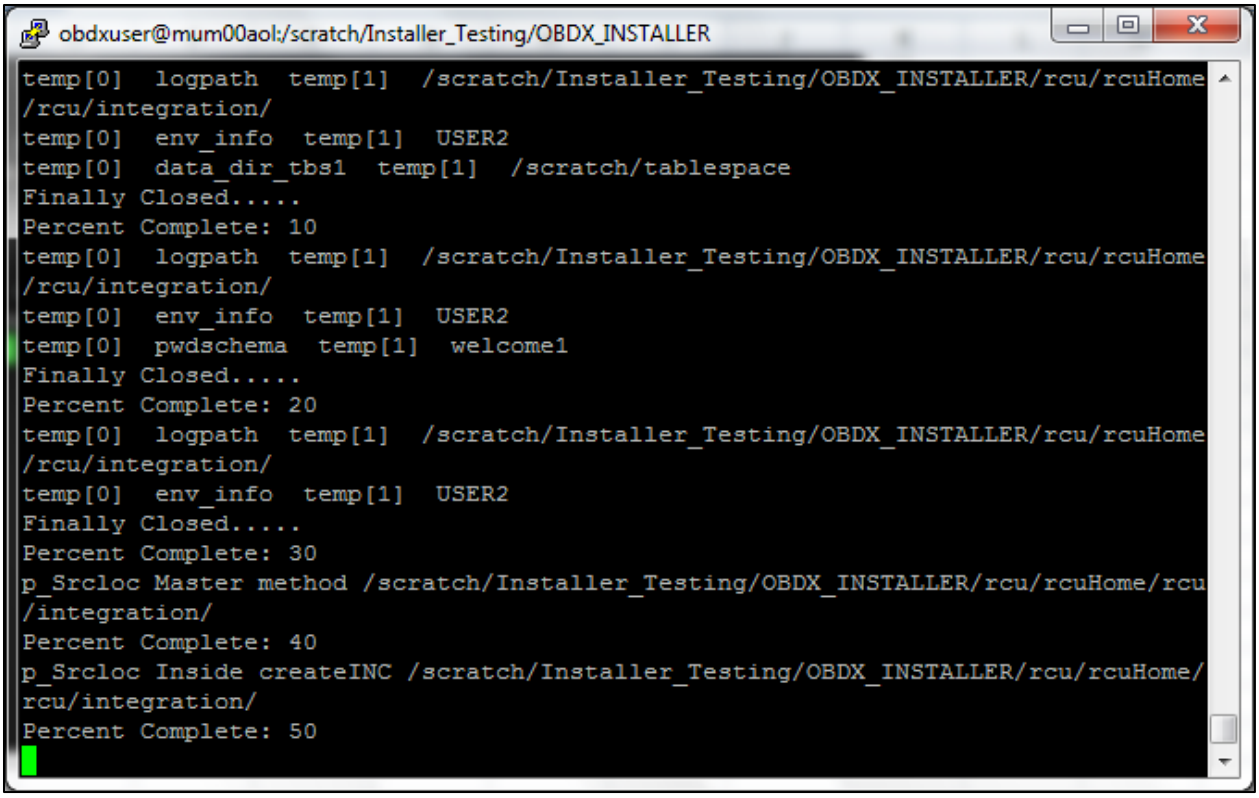

7. Please Enter the DBA UserName & Password for Database (Prefereably sys user)

While the installation in progress, To accept '**sys password**' and '**schema password**' respectively from the user the RCU utility will clear the screen.

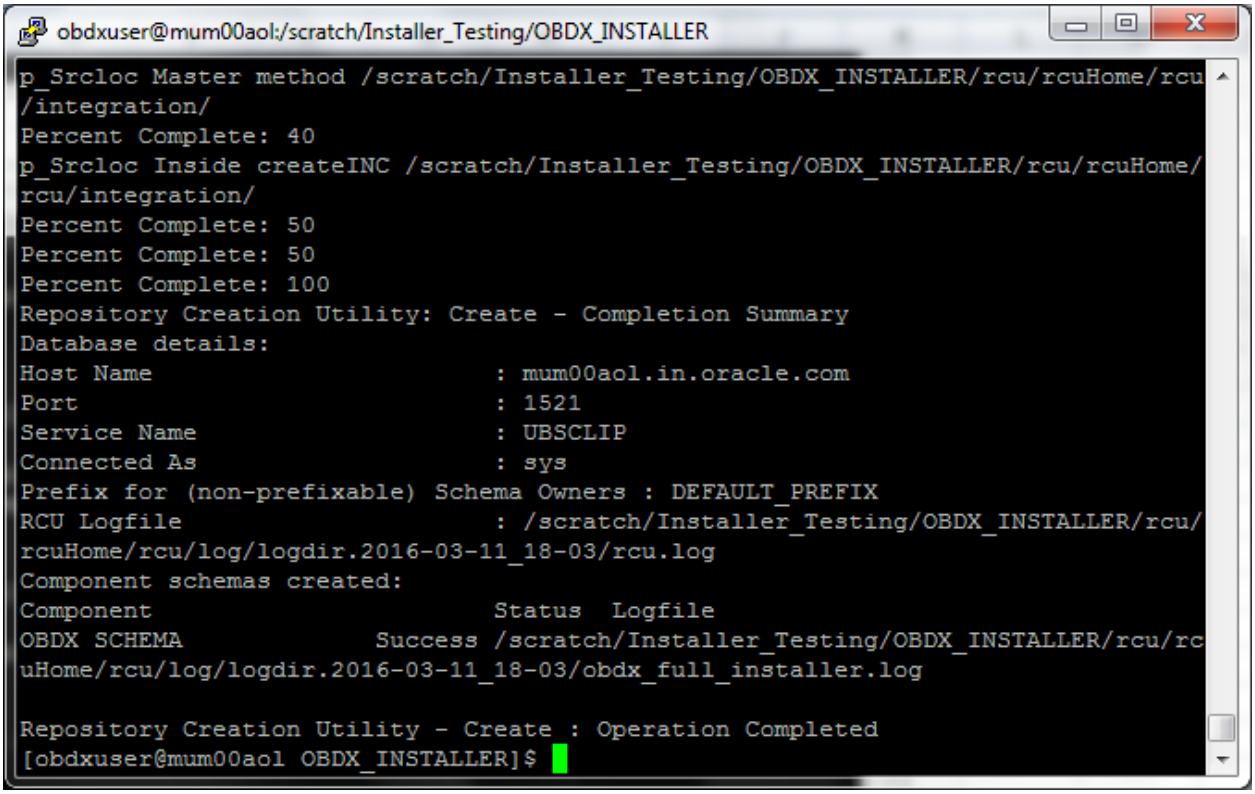
First time when the screen gets clear, the user has to enter '**sys password**'

Second time when the screen gets clear, the user has to enter '**schema password**'

The Intallation utility will create the OBDX Schema as per the defined name with the post fix and import the seed data into this newly created schema.



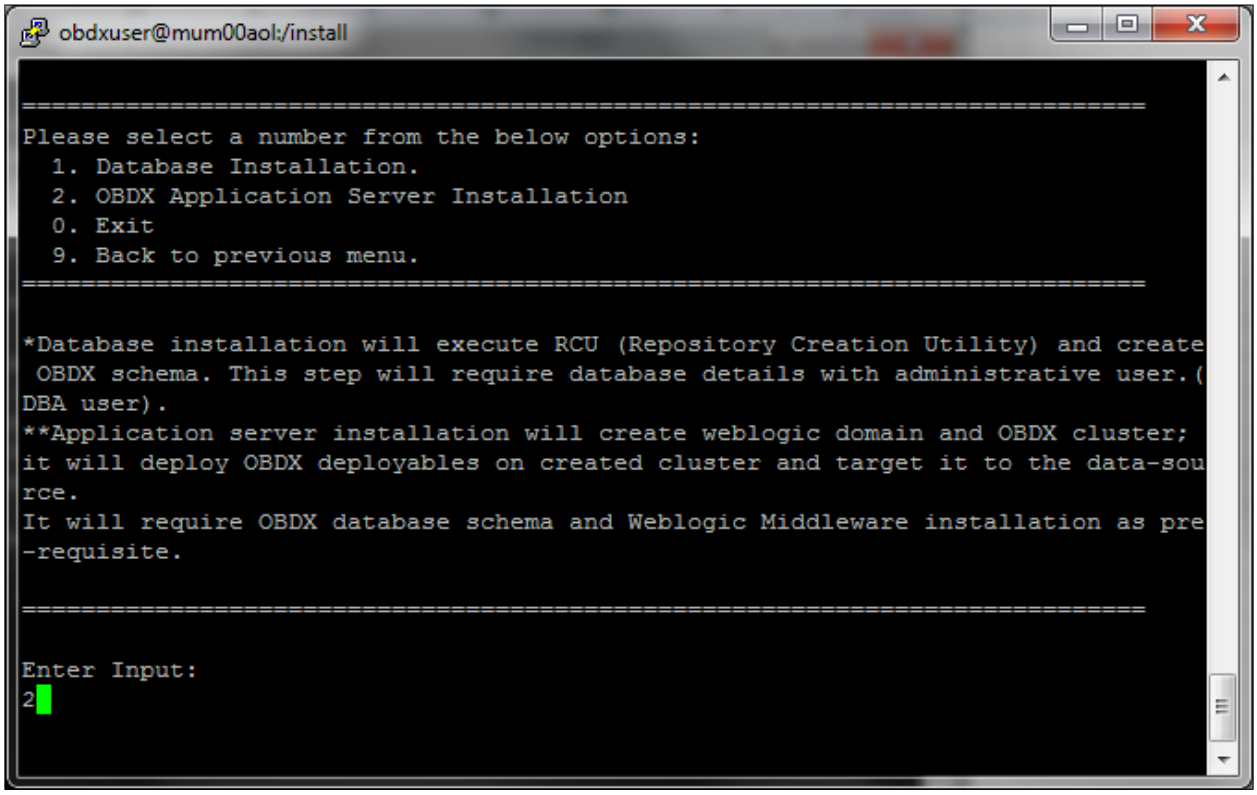

OBDX Schema has been created successfully & Day 0 Data has beed seeded.

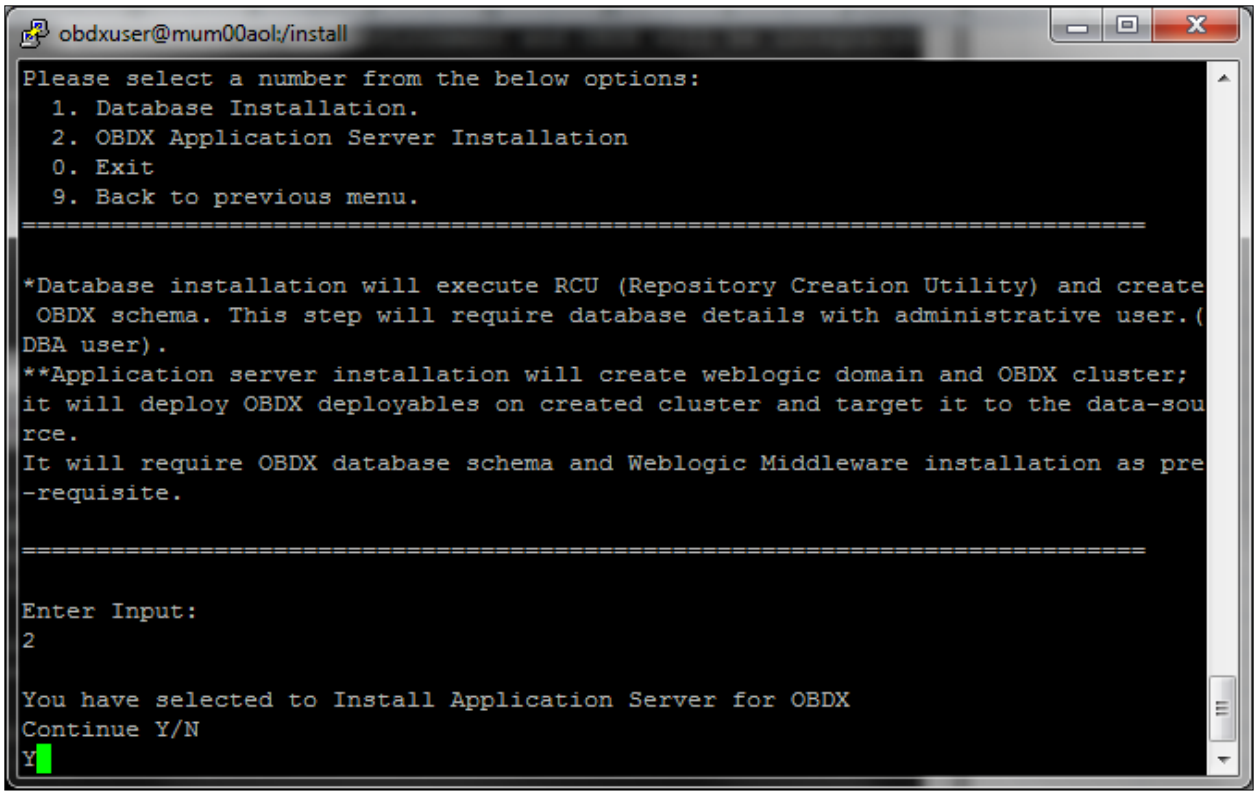


## 4.3 Application Server Installation (Recommended: Post Database Installation)

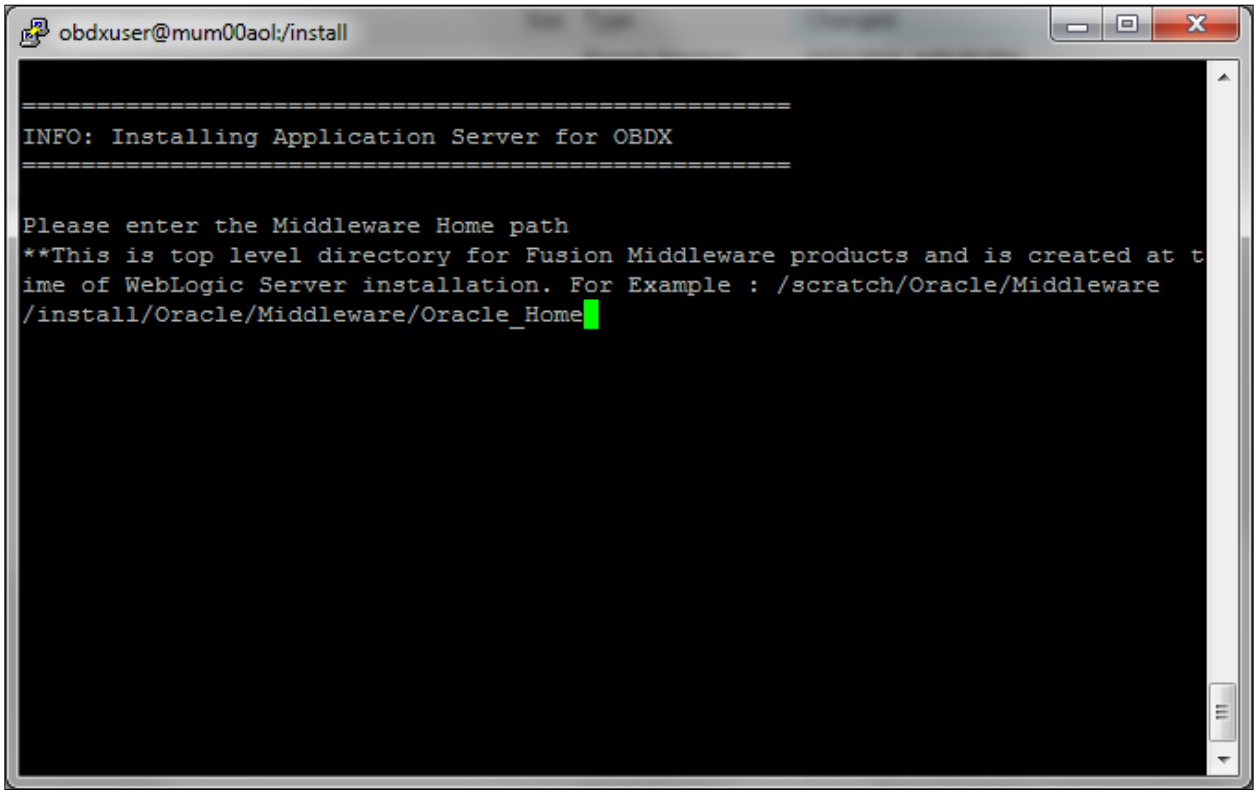
Application Server Installation has been recommended after the database installation of OBDX. You need to launch the installer as explained earlier and select the OBDX installation option.

Please select the OBDX Application Server Installation choice in this step.

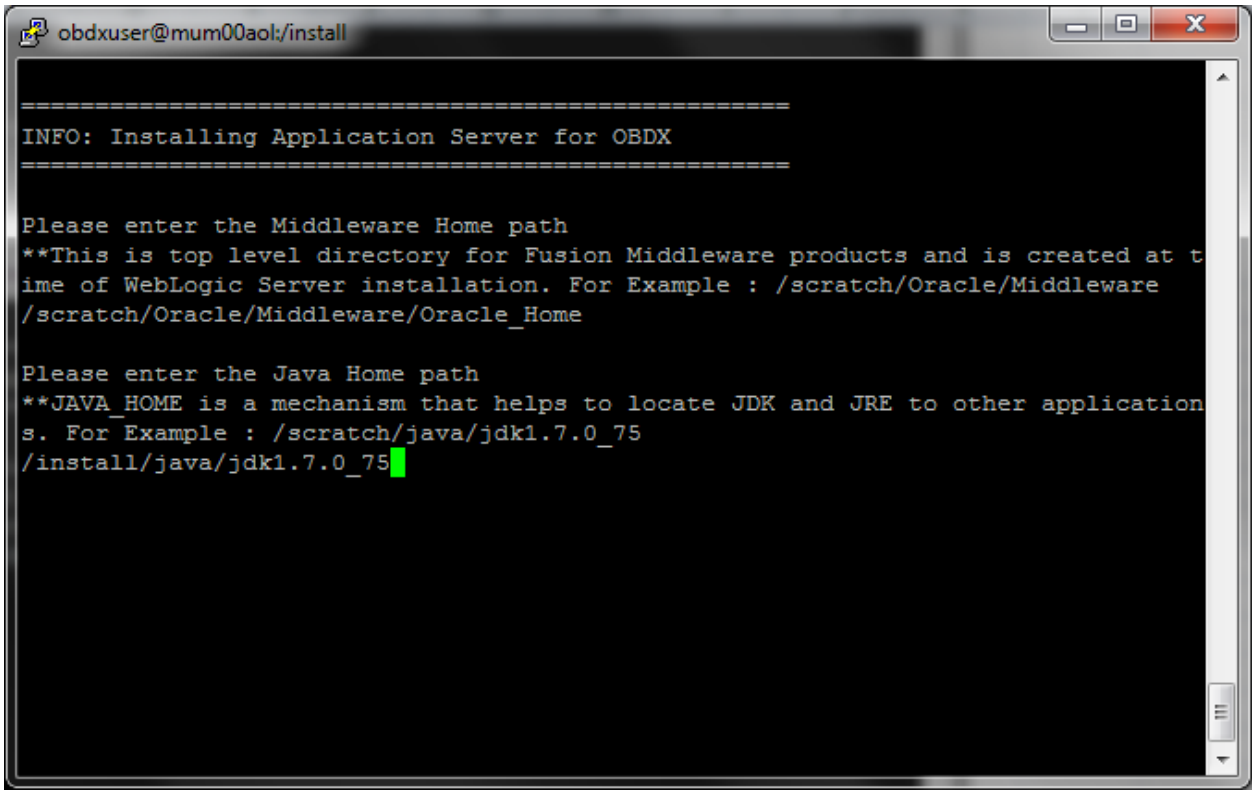



obdxuser@mum00aol:/install
Please select a number from the below options:
1. Database Installation.
2. OBDX Application Server Installation
0. Exit
9. Back to previous menu.
*Database installation will execute RCU (Repository Creation Utility) and create
OBDX schema. This step will require database details with administrative user.(
DBA user).
**Application server installation will create weblogic domain and OBDX cluster;
it will deploy OBDX deployables on created cluster and target it to the data-sou
rce.
It will require OBDX database schema and Weblogic Middleware installation as pre
-requisite.
Enter Input:
2
You have selected to Install Application Server for OBDX
Continue Y/N
Y

The installer will now ask for Oracle Weblogic Server Middleware home location.

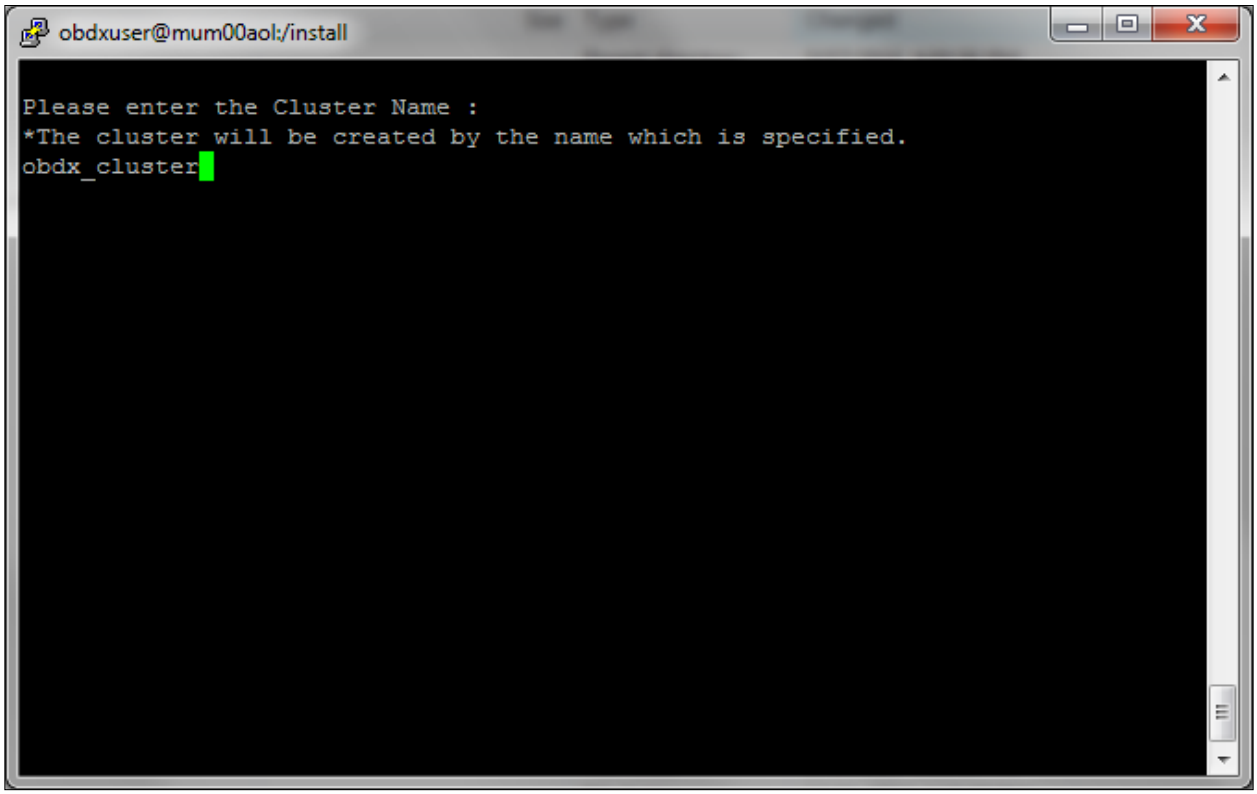


The installer will now ask for JAVA_HOME location as shown in the below screenshot.

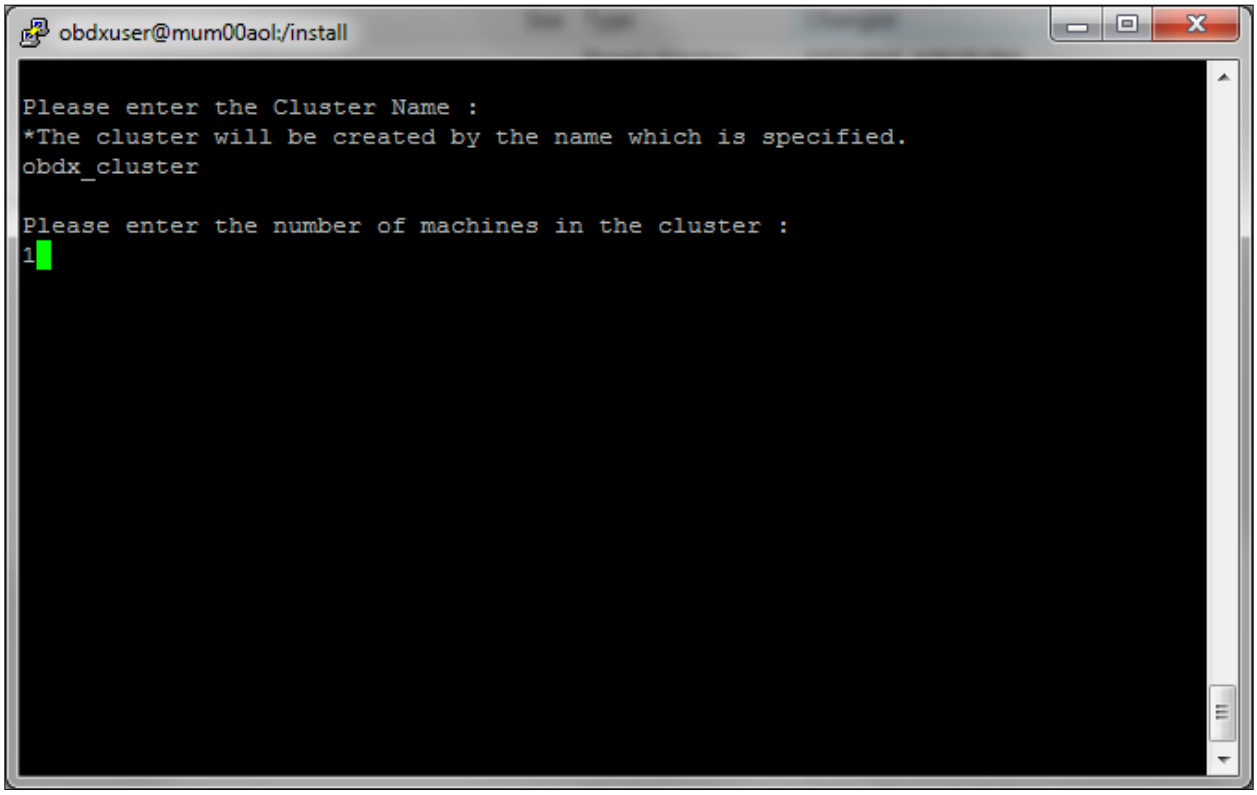


1. Enter the choice of the application server deployment.

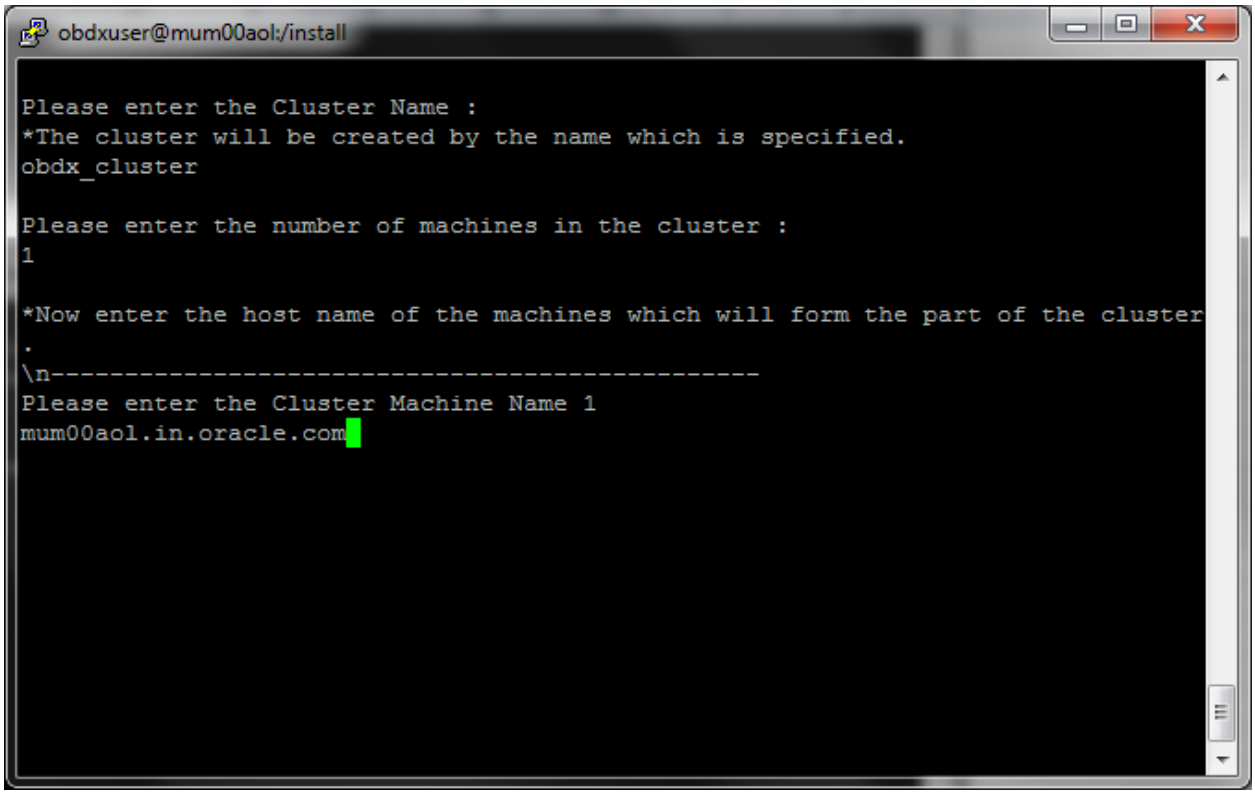
   One can choose from doing a Standalone Weblogic Server or a Clustered environment with multiple servers on multiple VMs.



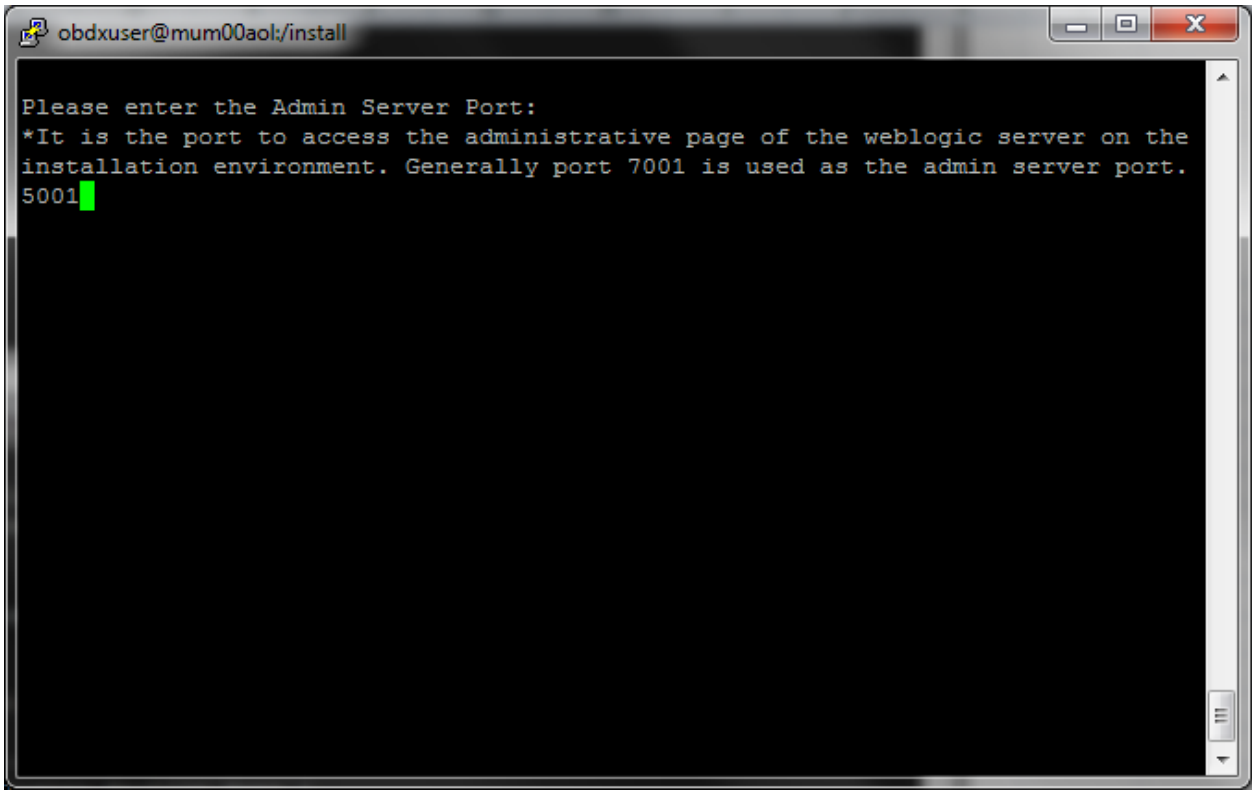
In case of a clustered deployment, please enter the no of machines/VMs in the cluster.



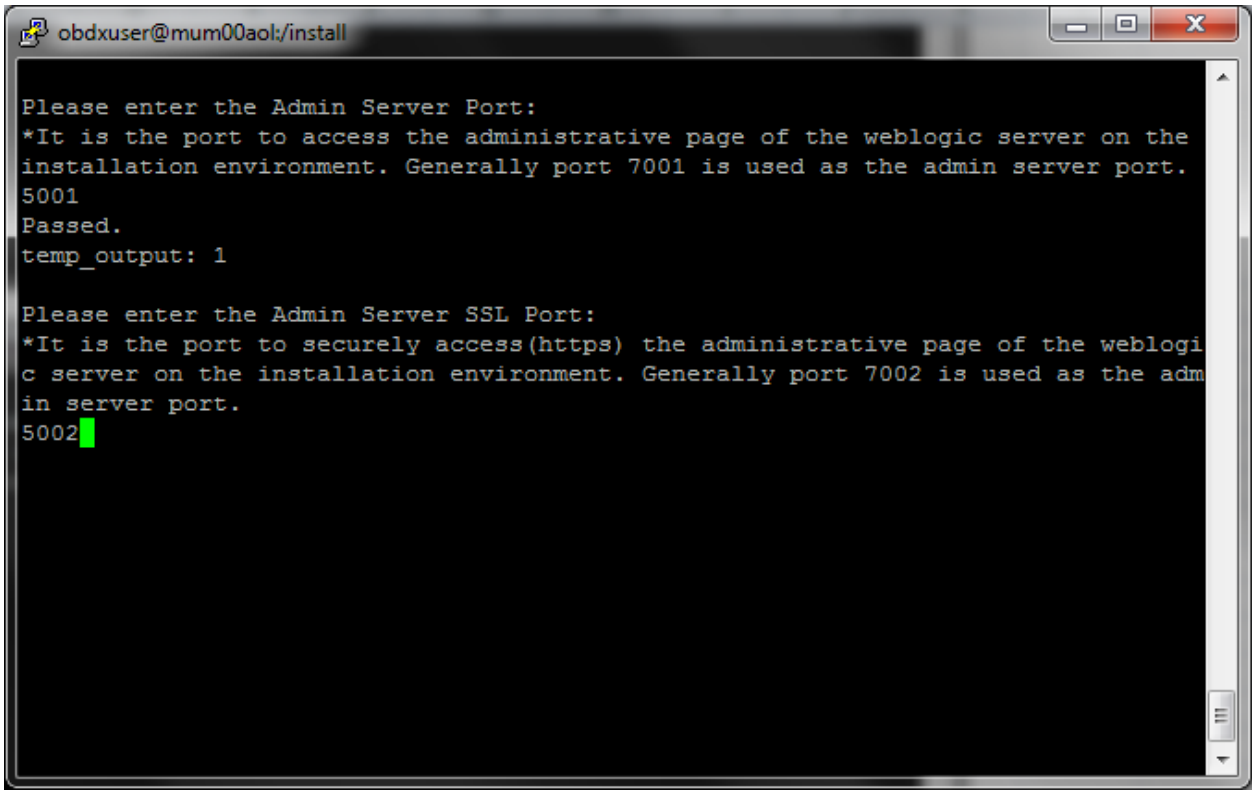
2. Enter the respective VM names



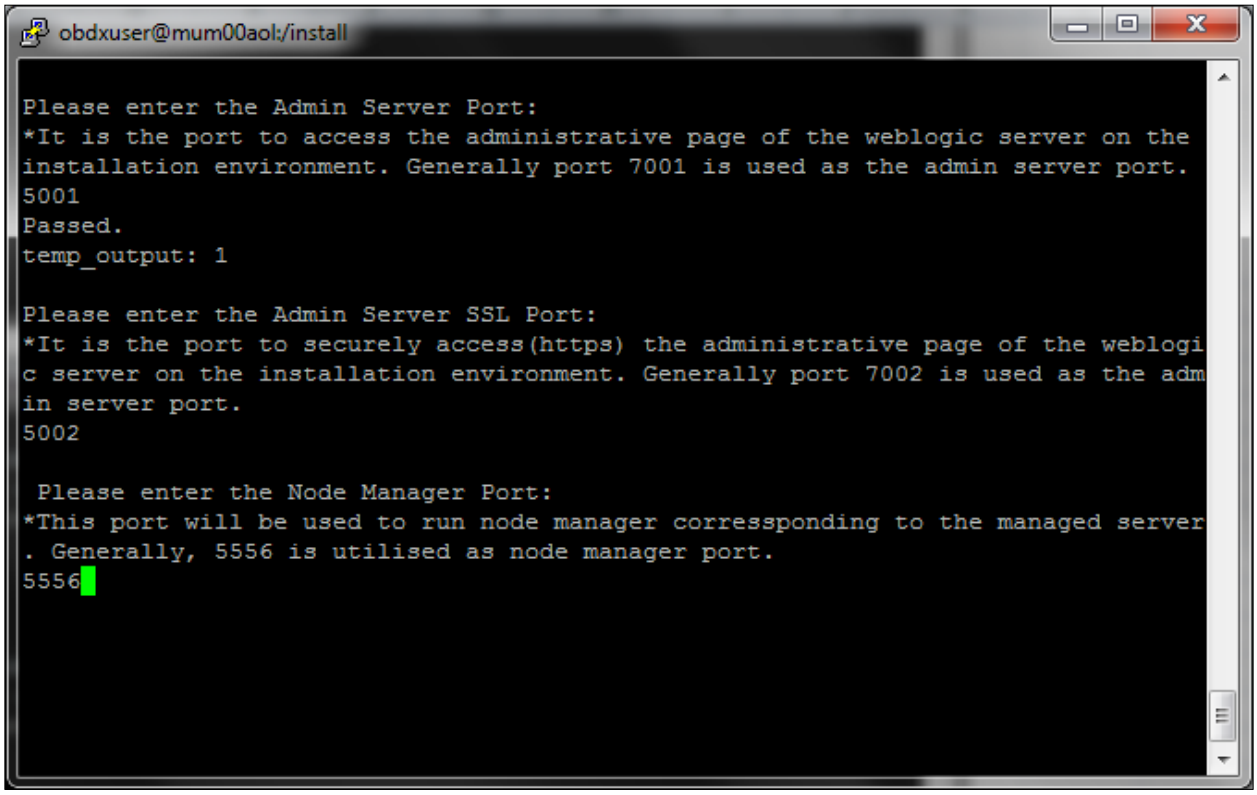
3. Enter the Admin Server Port no of your choice, (we recommend to use default port as 7001)



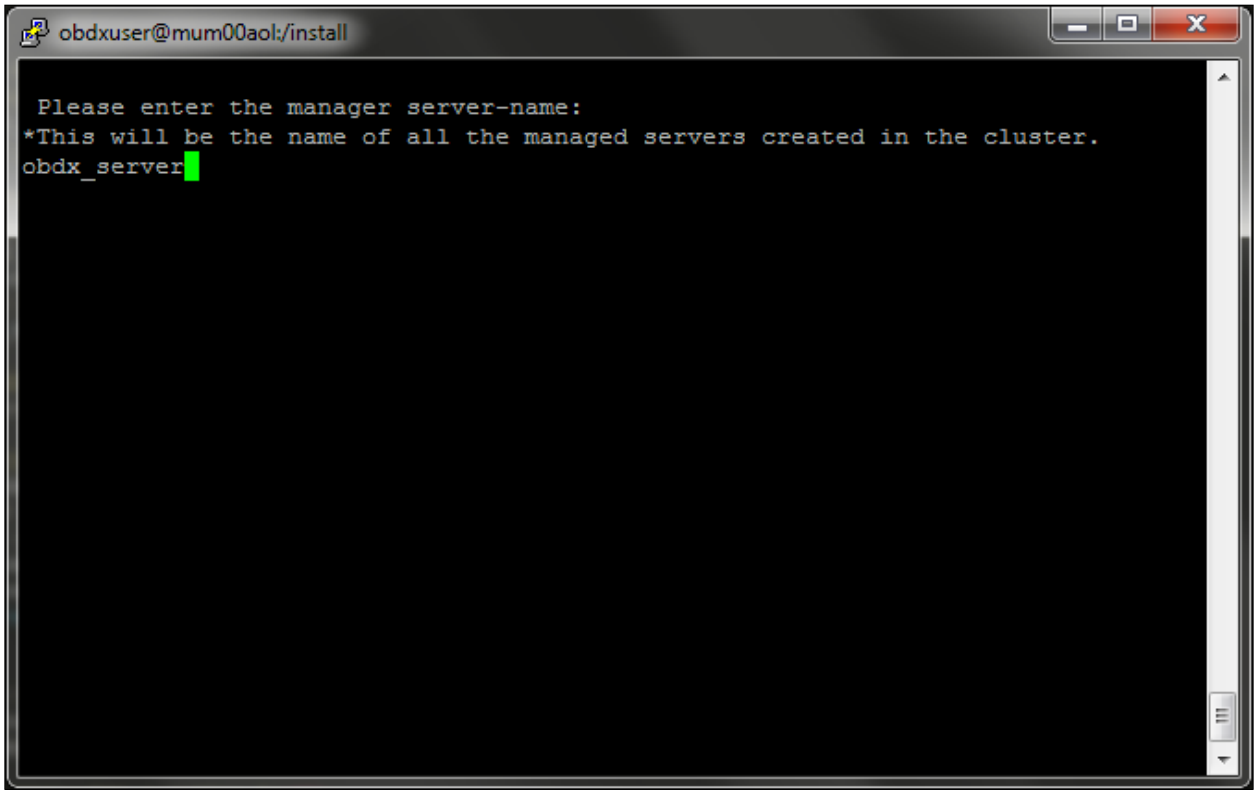
4. Please enter the Managed Server Port



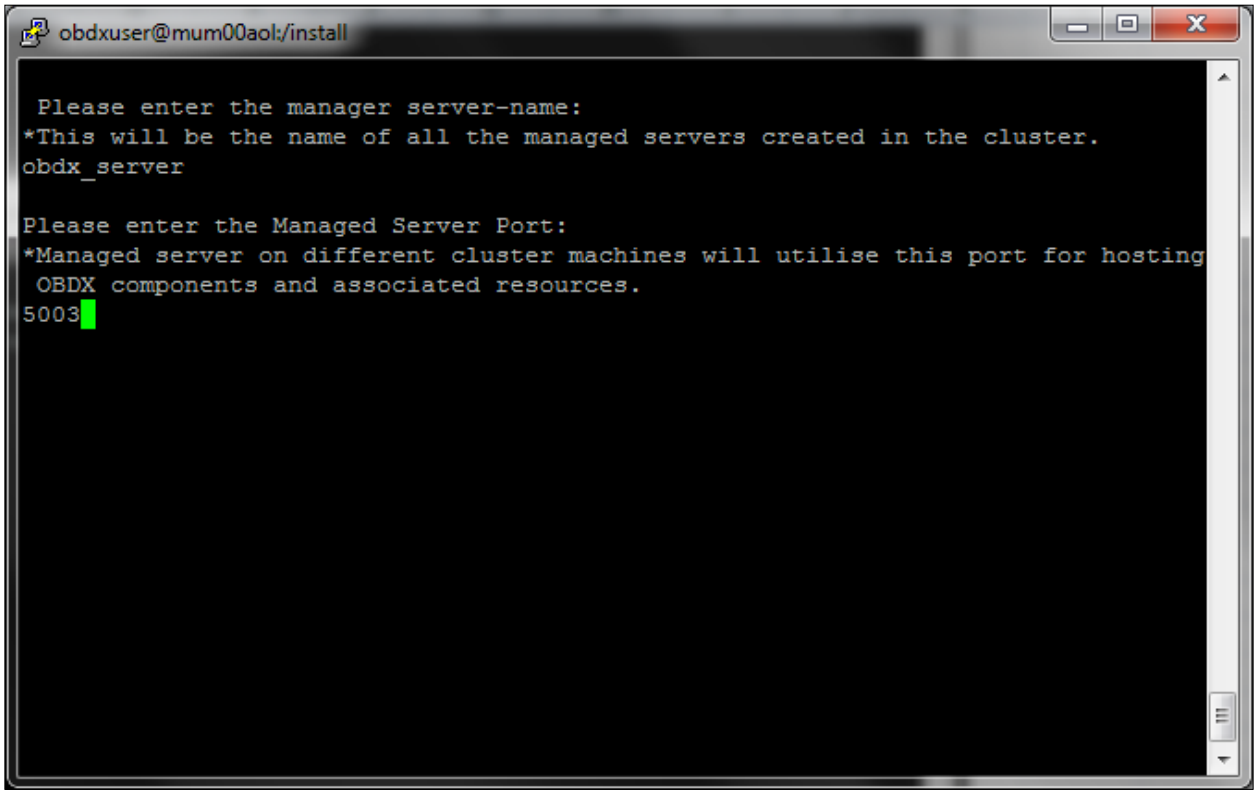
5. Please enter the Node Manager Port Number (We recommend to use default port as 5556)



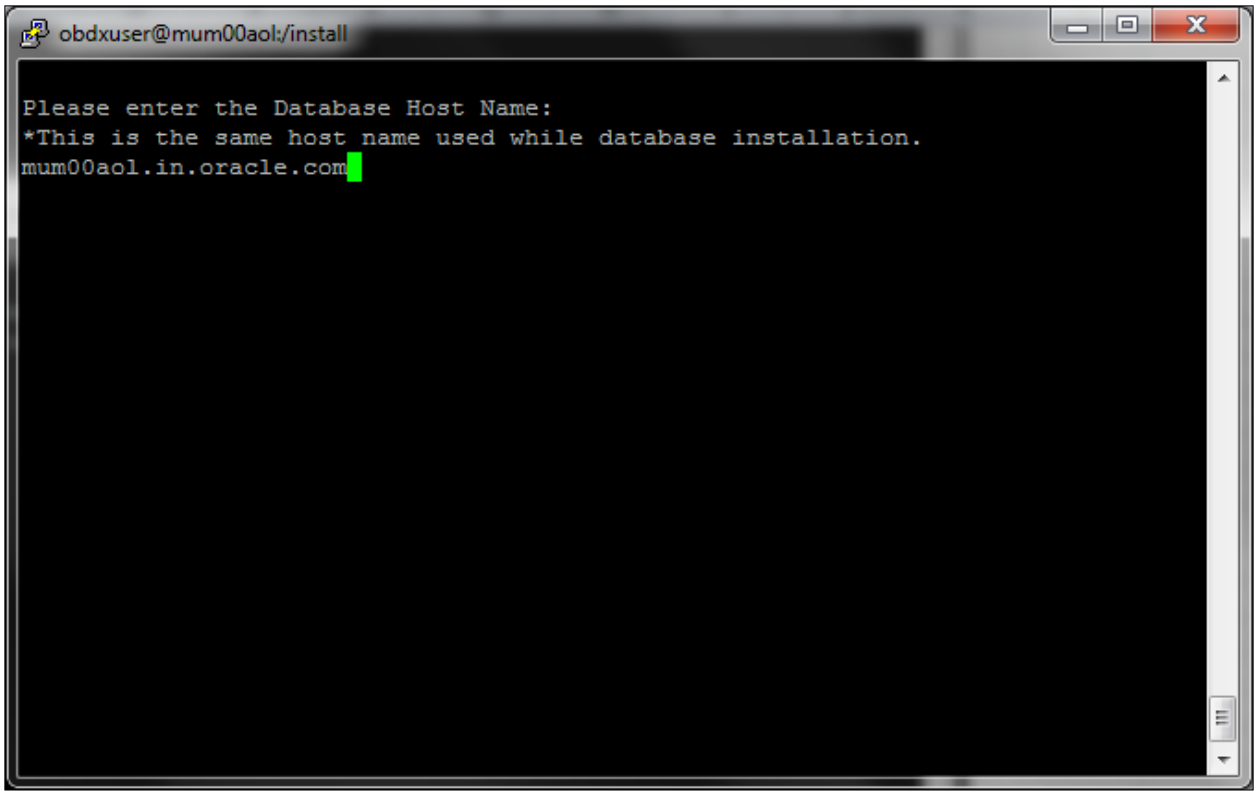
6. Enter the managed server name.



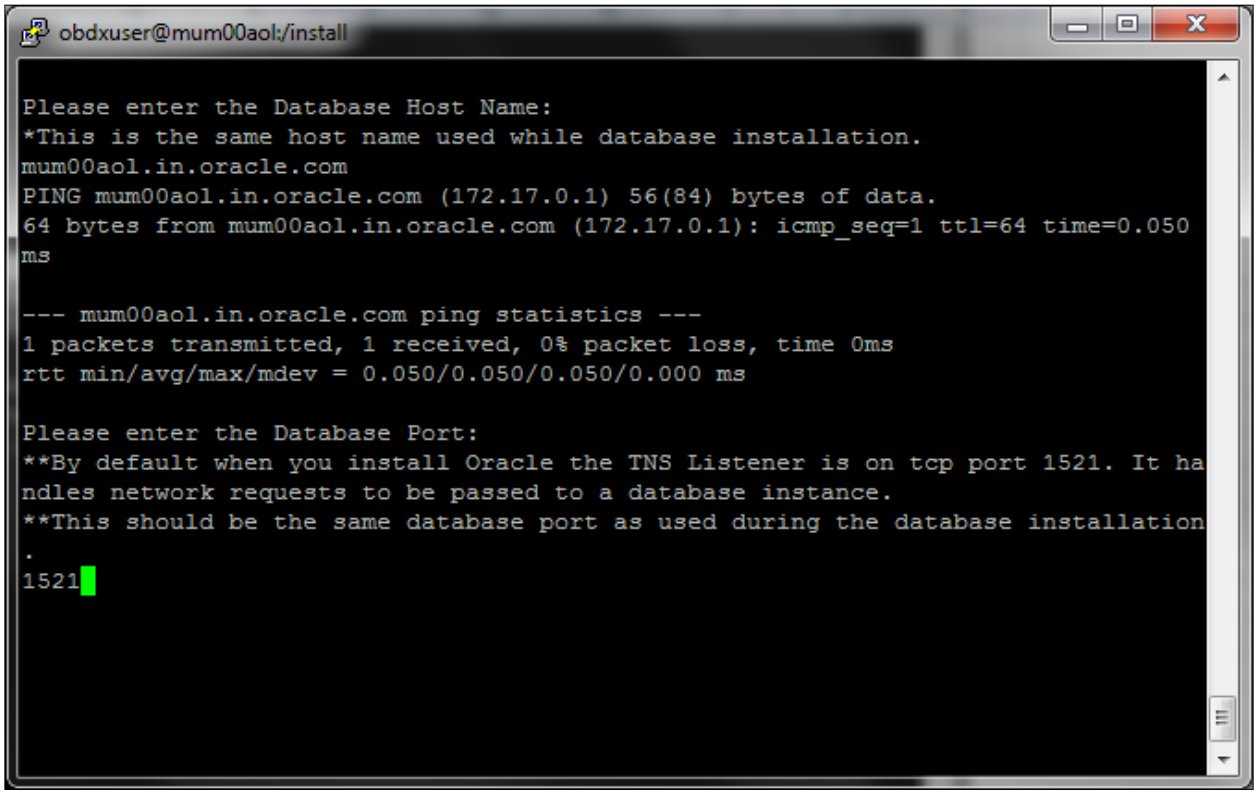
7. Enter port for the managed server.



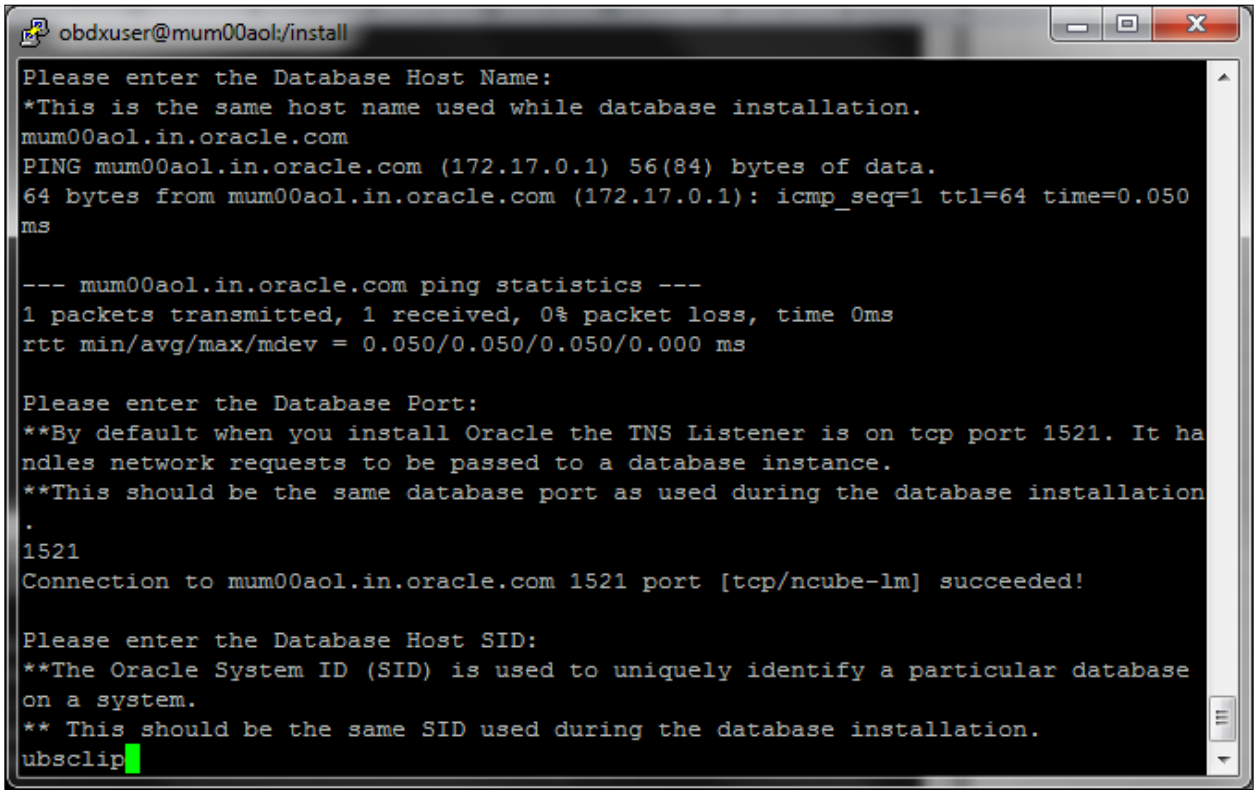
8. Enter the OBDX Database Schema name (This should be the same name that you created the OBDX database schema)



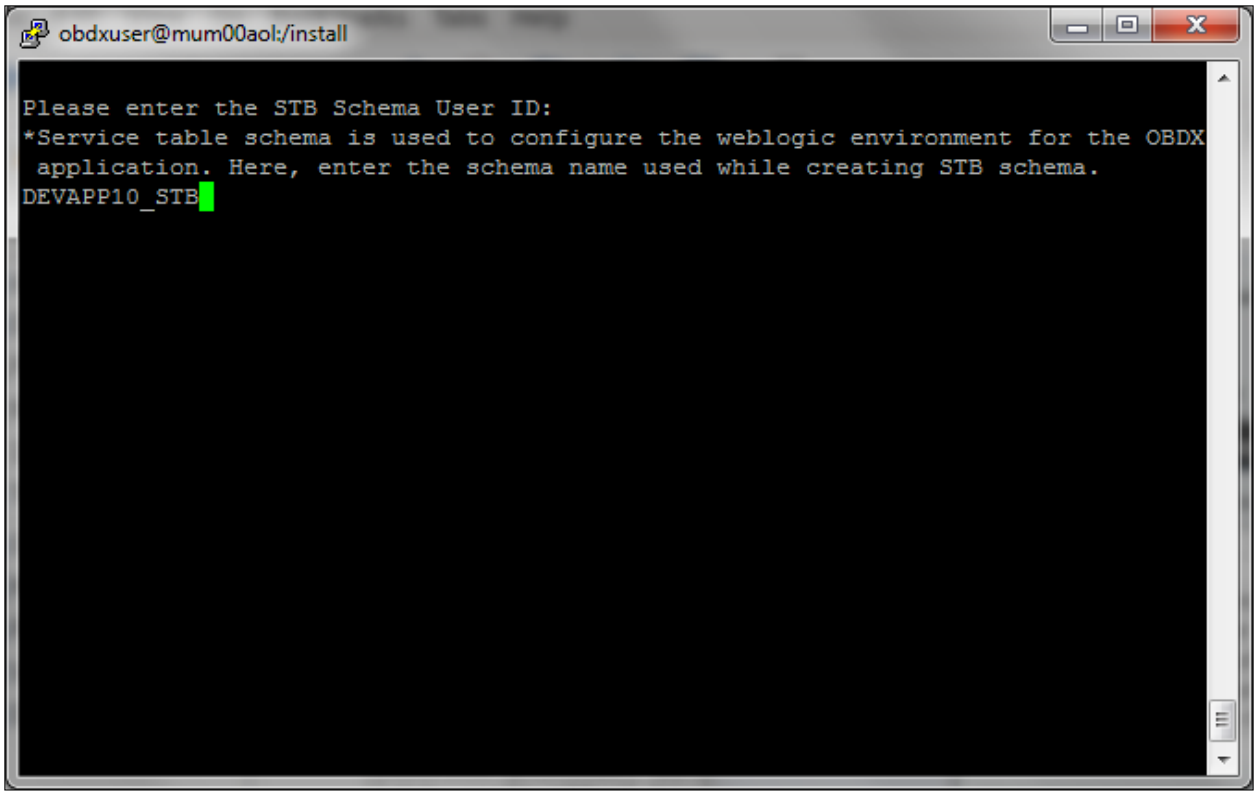
9. Please enter the Database Schema Port no



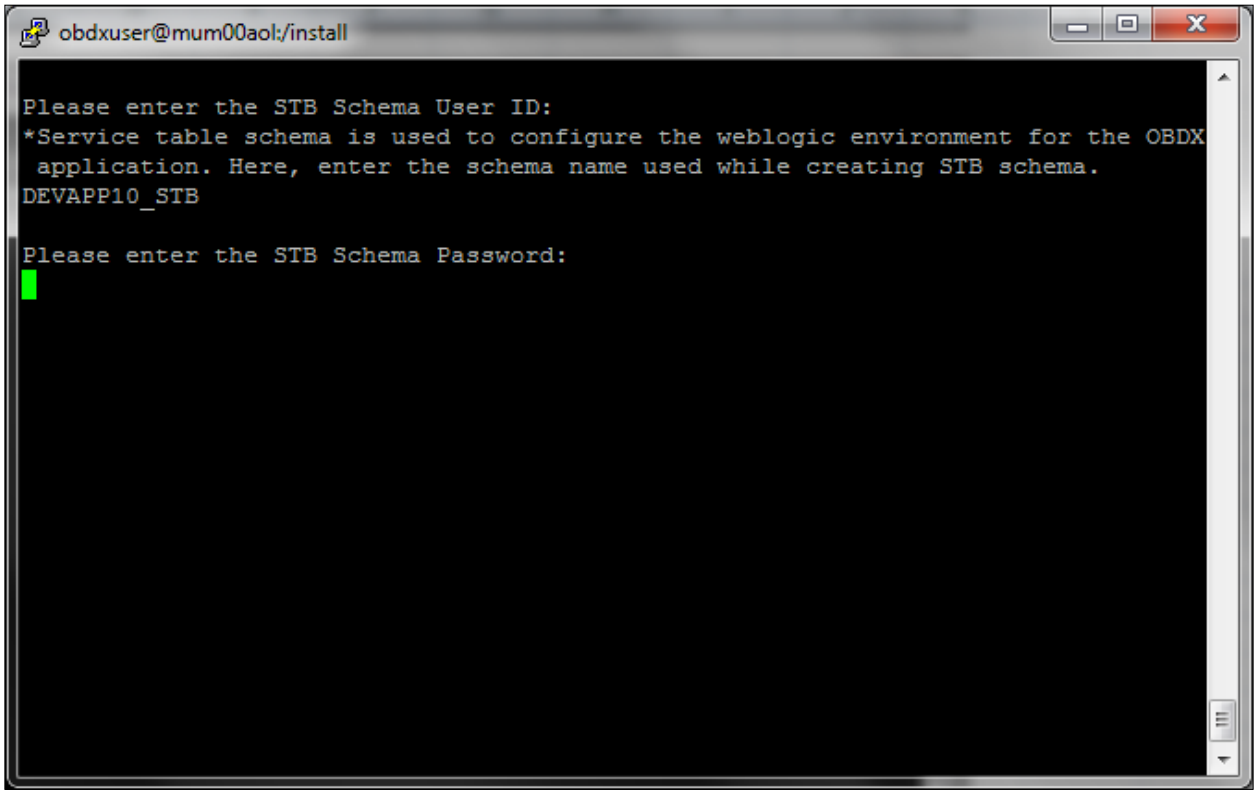
10. Please enter the Database Schema SID or Service Name



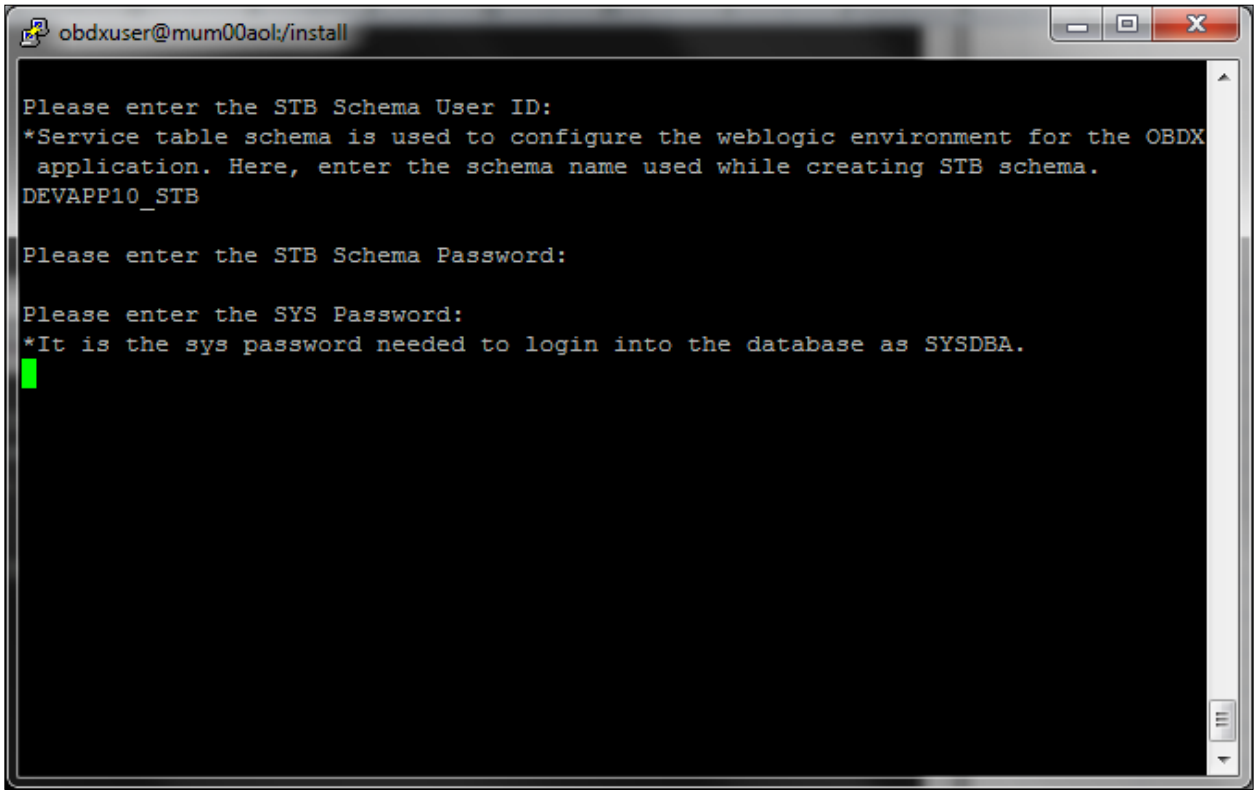
11. Please Enter the STB Schema Name (This schema will be created while running the RCU for IDM installation)



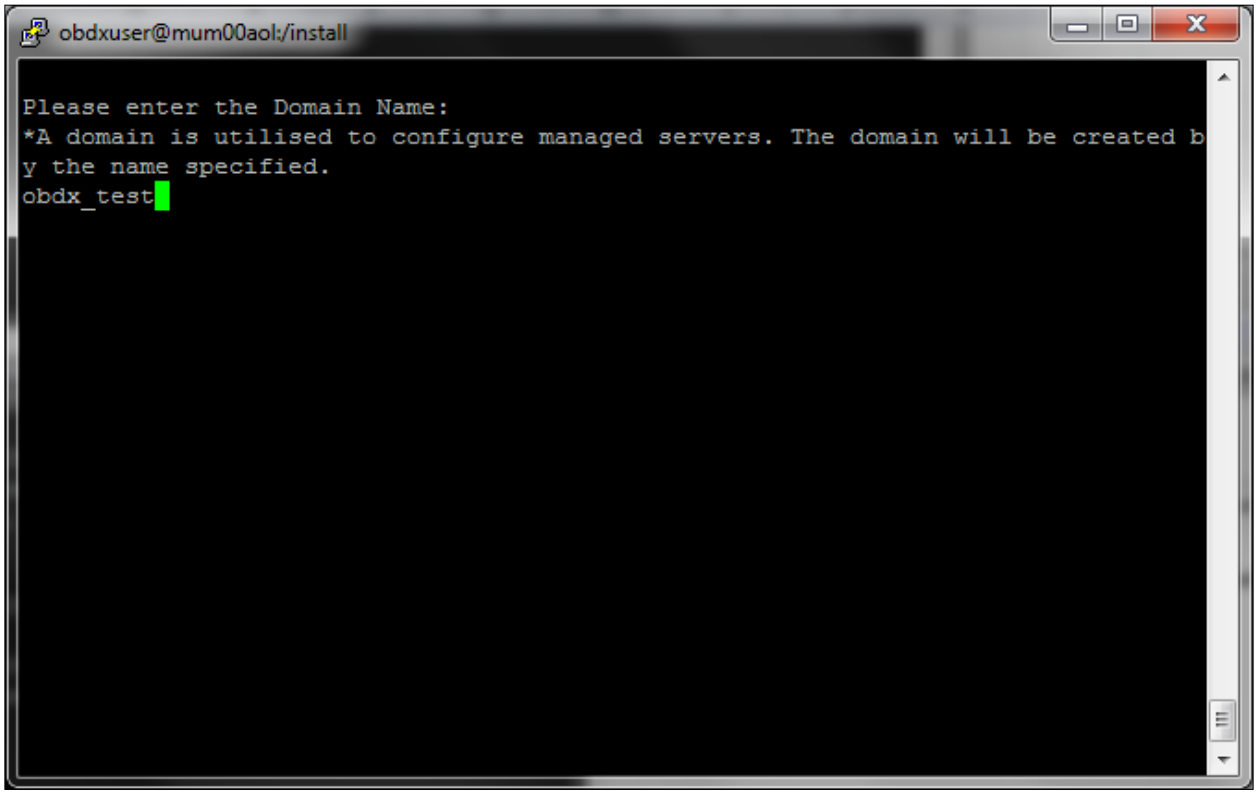
12. Enter the STB Schema Password



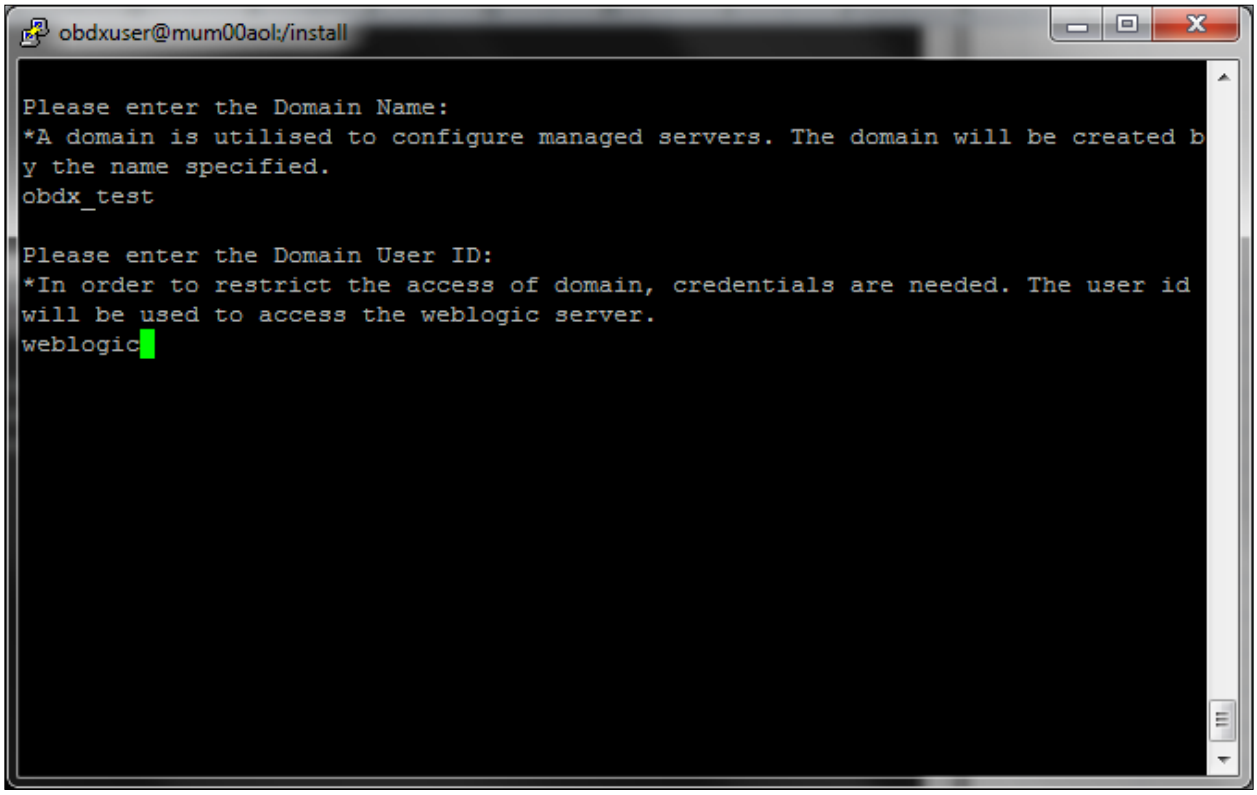
13. Enter the sys password of the database.



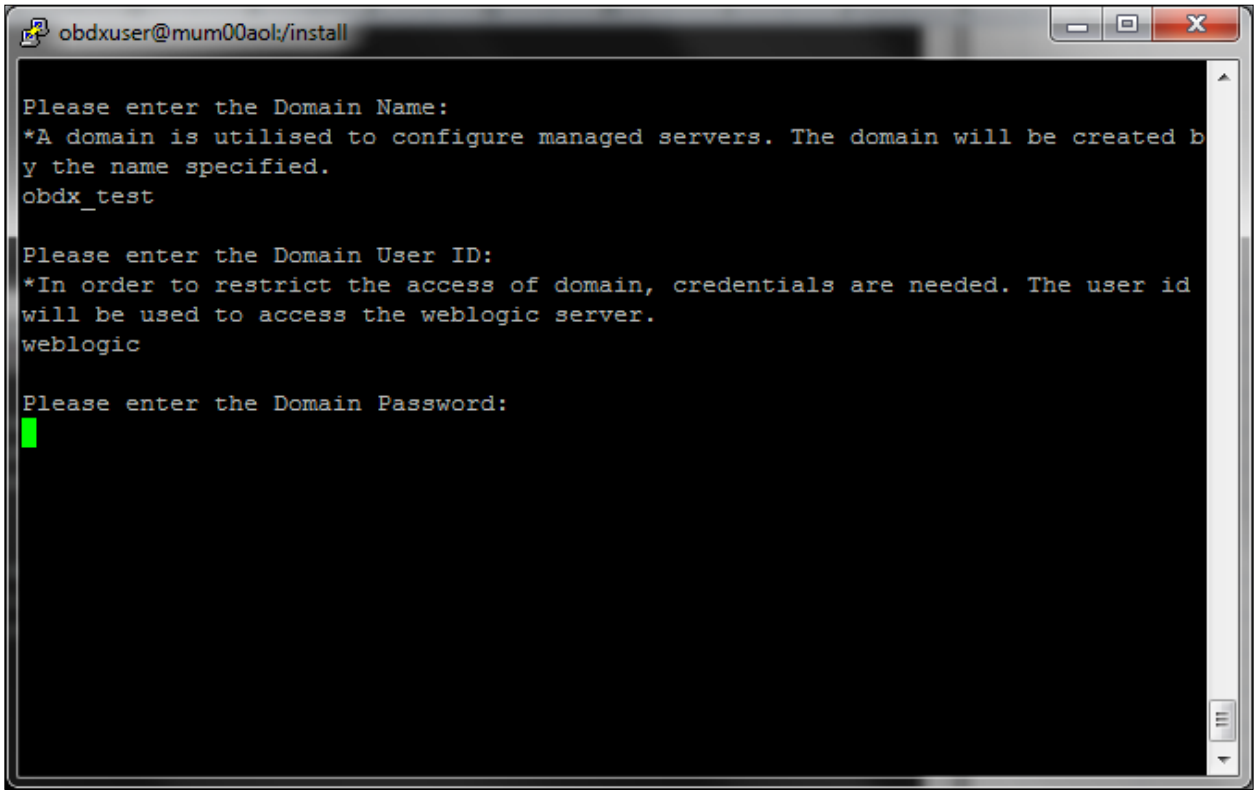
14. Enter the preferred domain name.



15. Enter the Domain User Name (This will be administrator for Weblogic Domain)

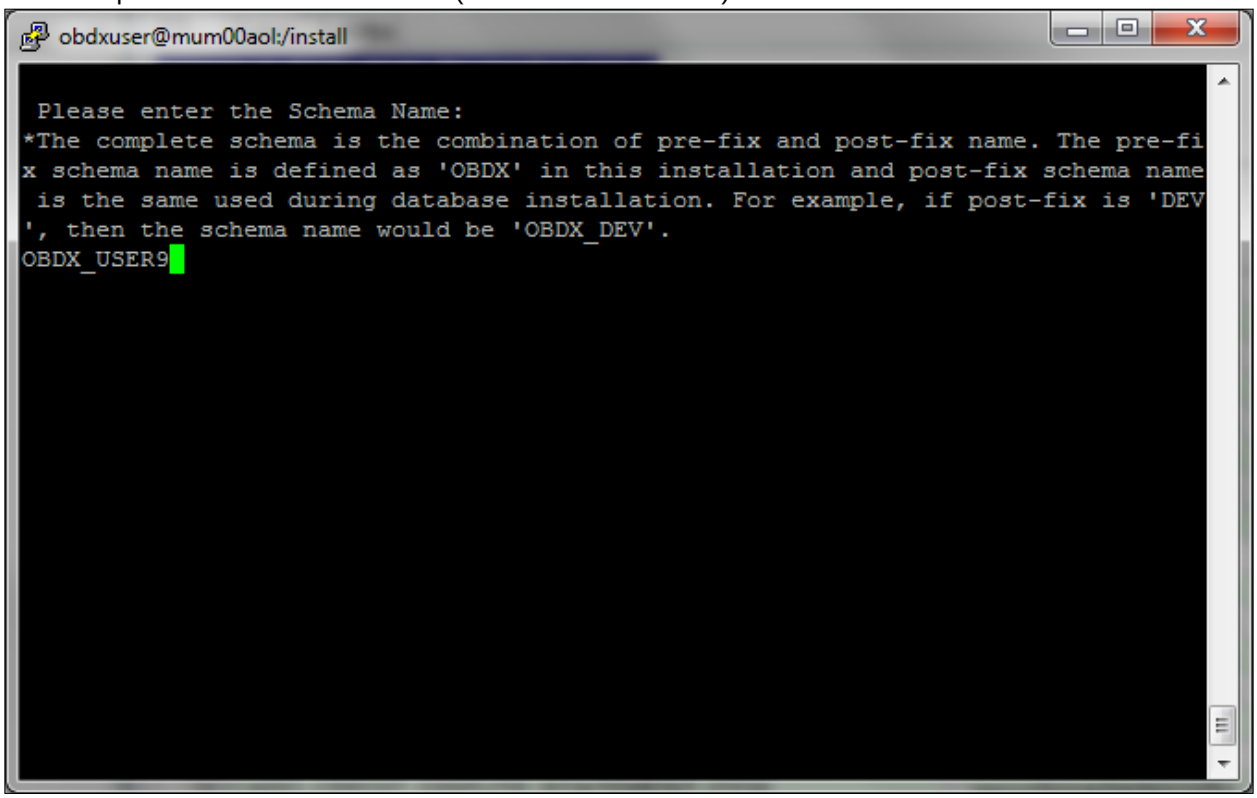


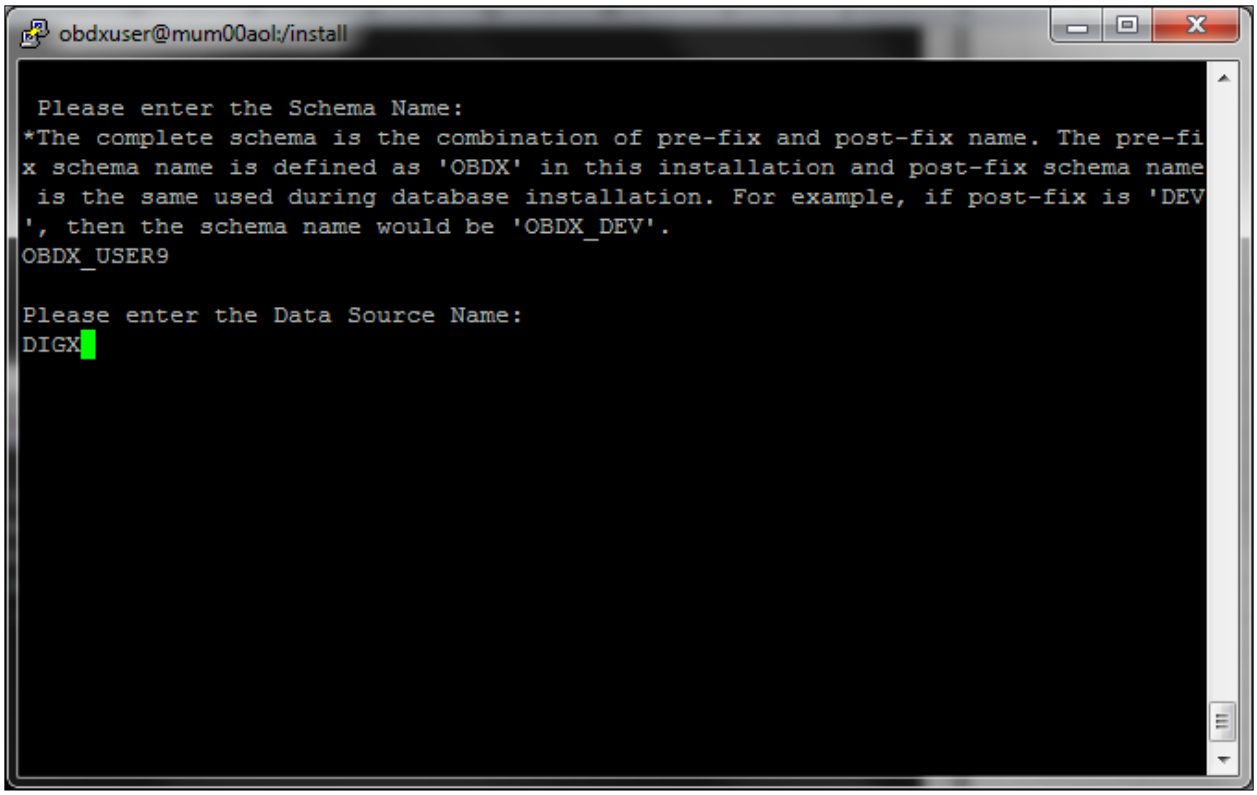
16. Please enter the password for weblogic admin user



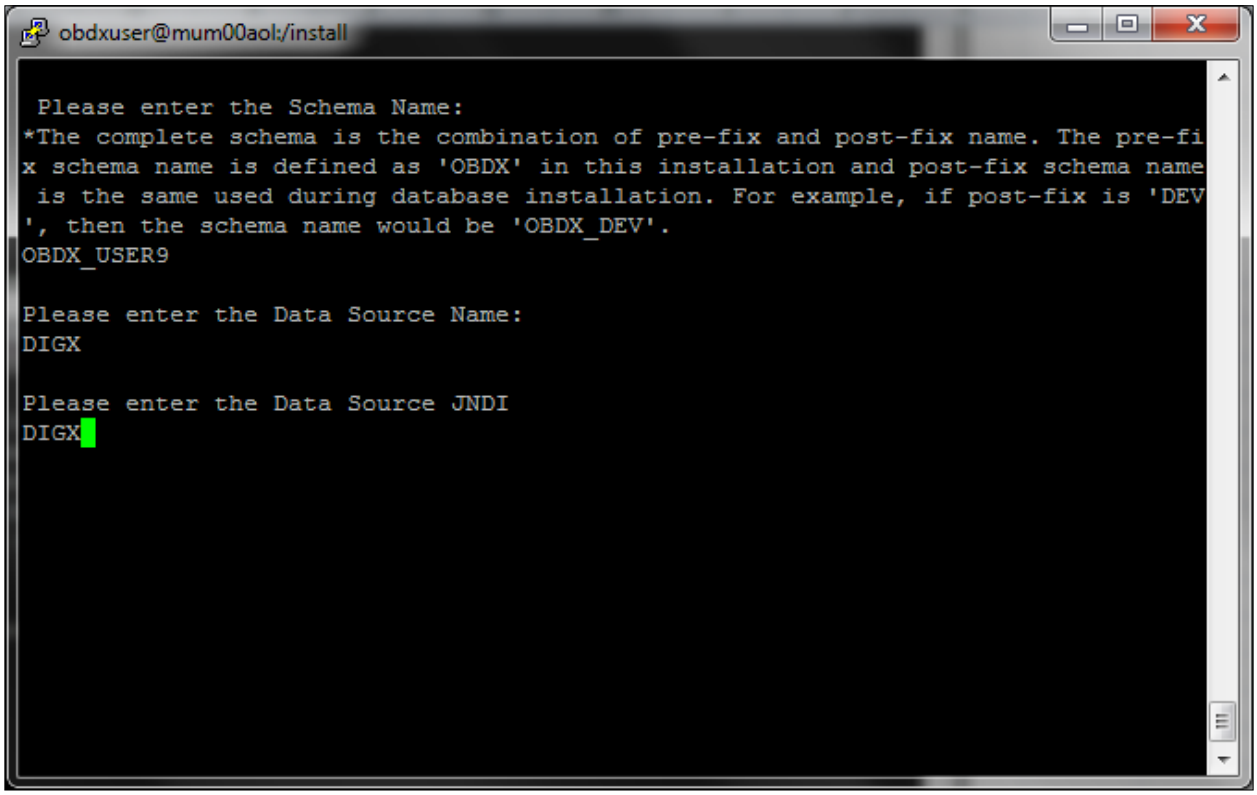
17. Enter the OBDX database schema name.

18. Enter the preferred data-source name (recommended : DIGX).

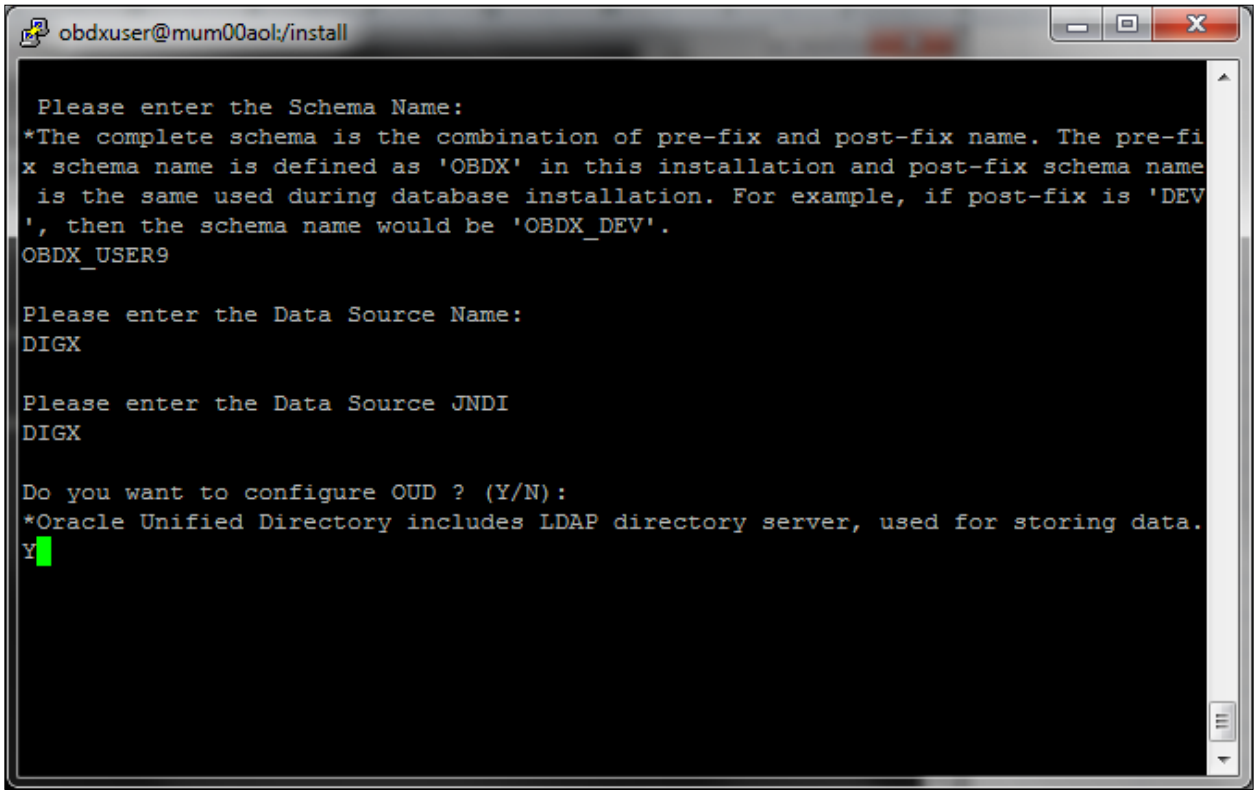




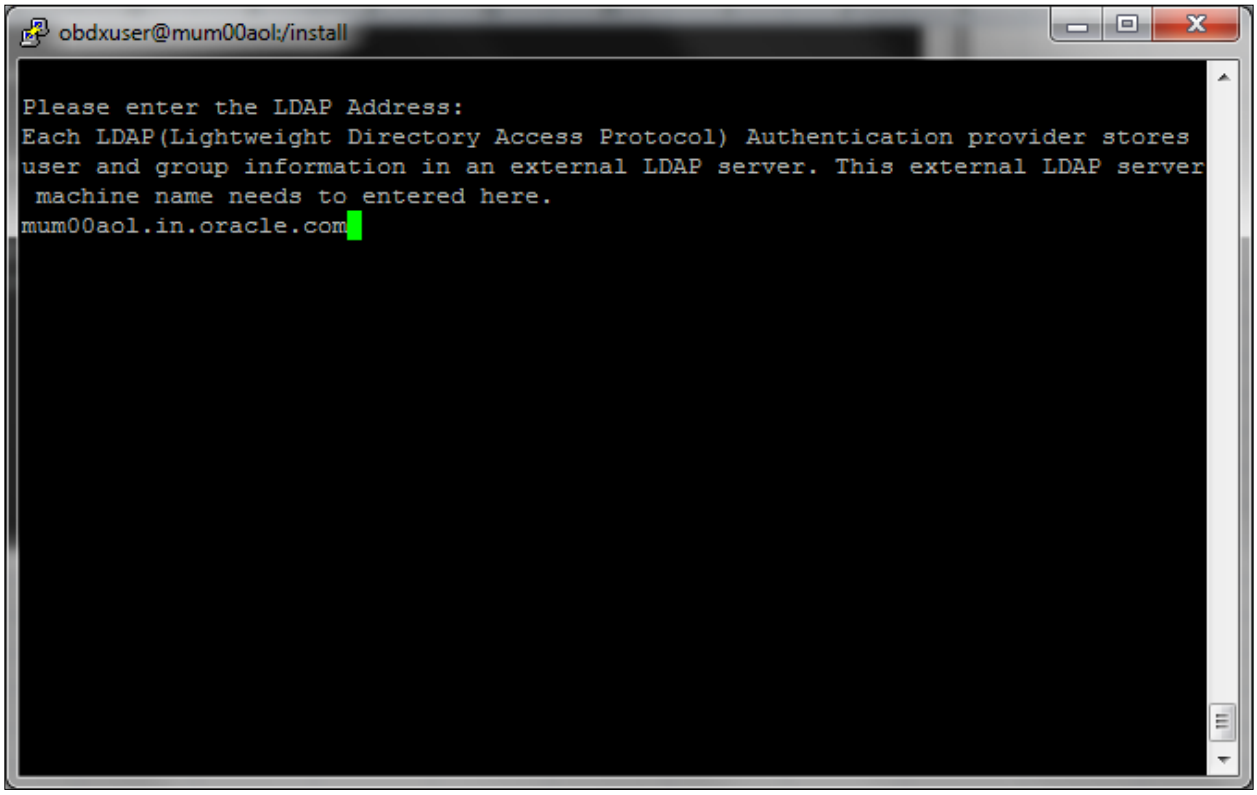

19. Enter the JNDI name as DIGX.



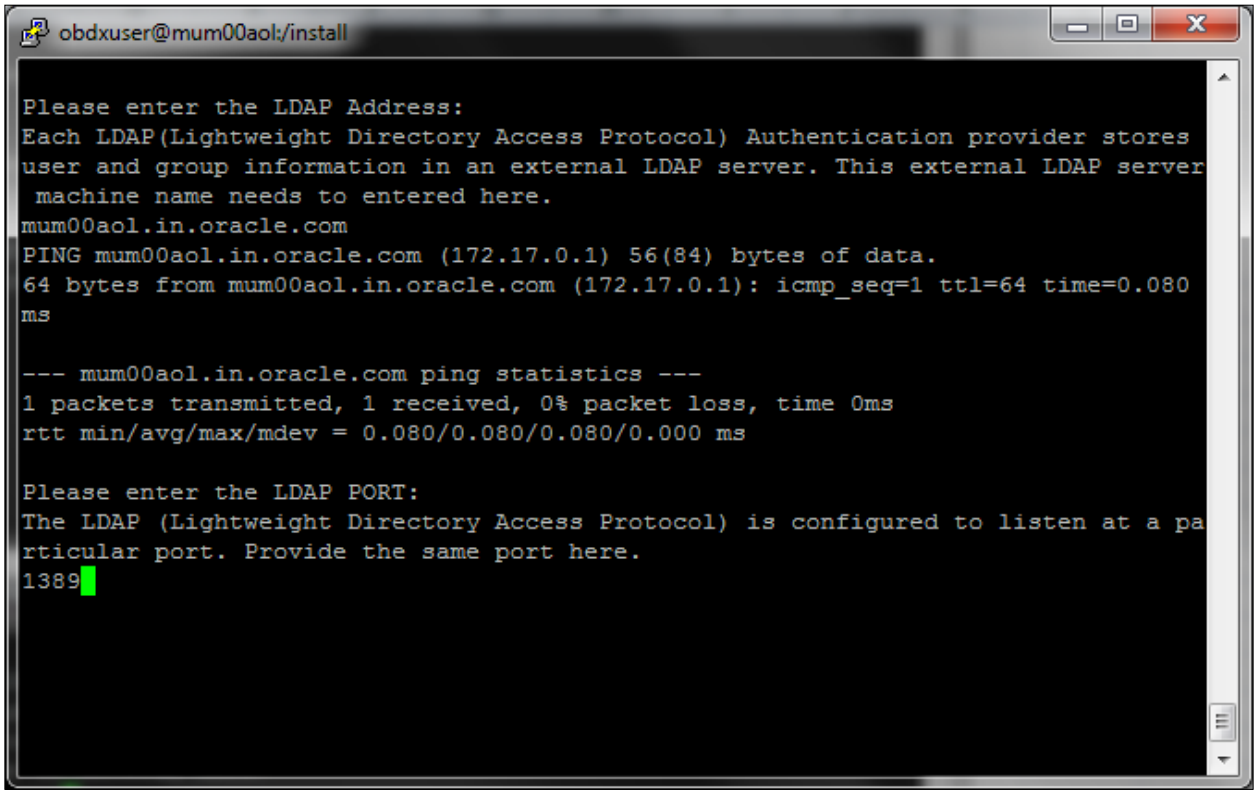
20. Specify Y/N to allow OUD configuration. (If Specified Y then OUD will be configured with weblogic domain



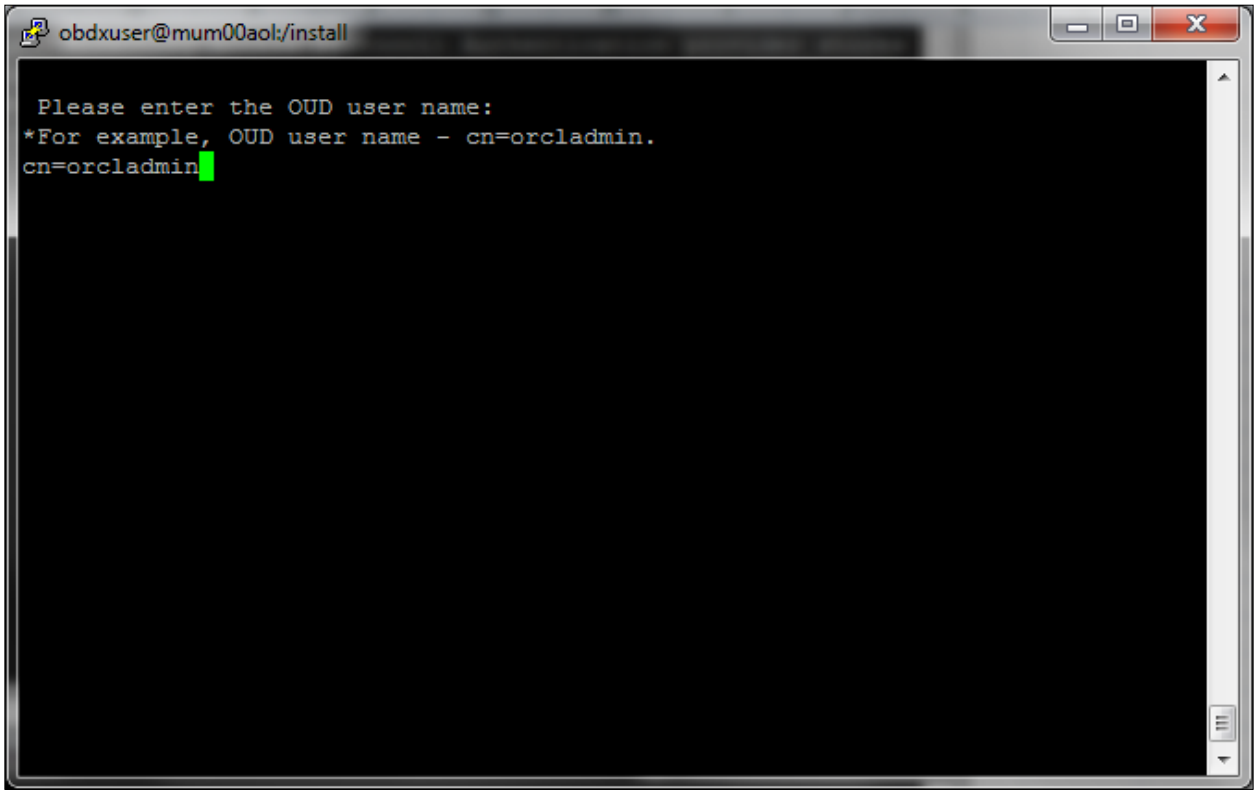
21. Please enter the VM name of Oracle Unified Directory (OUD)



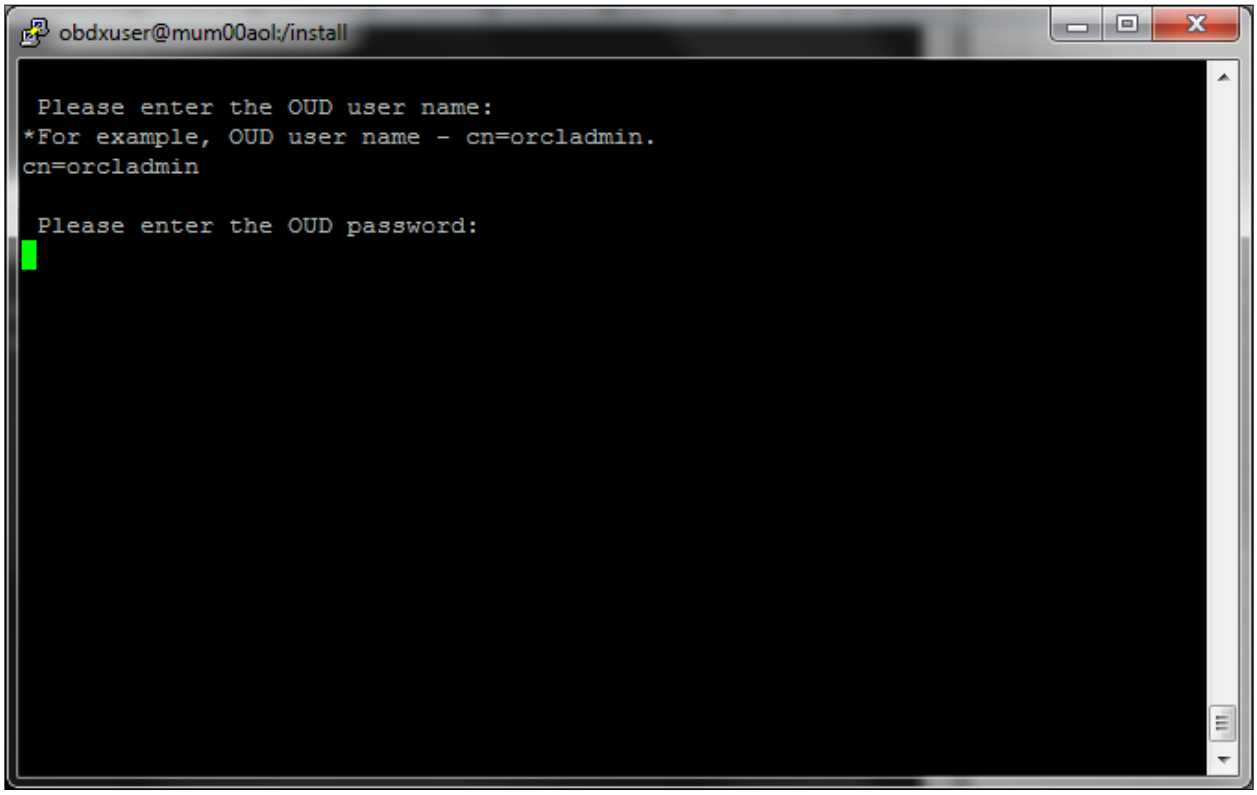
22. Please enter the Port of OUD



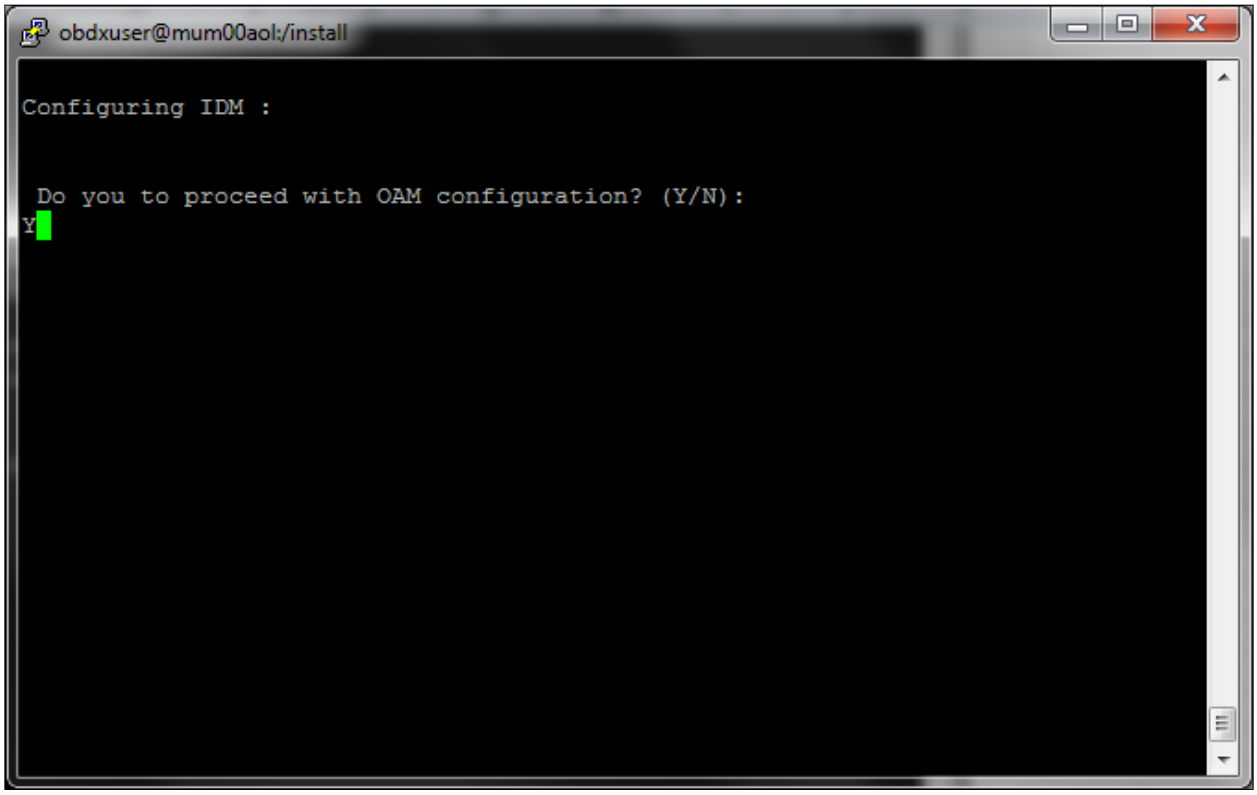
23. Please enter the username of OUD login

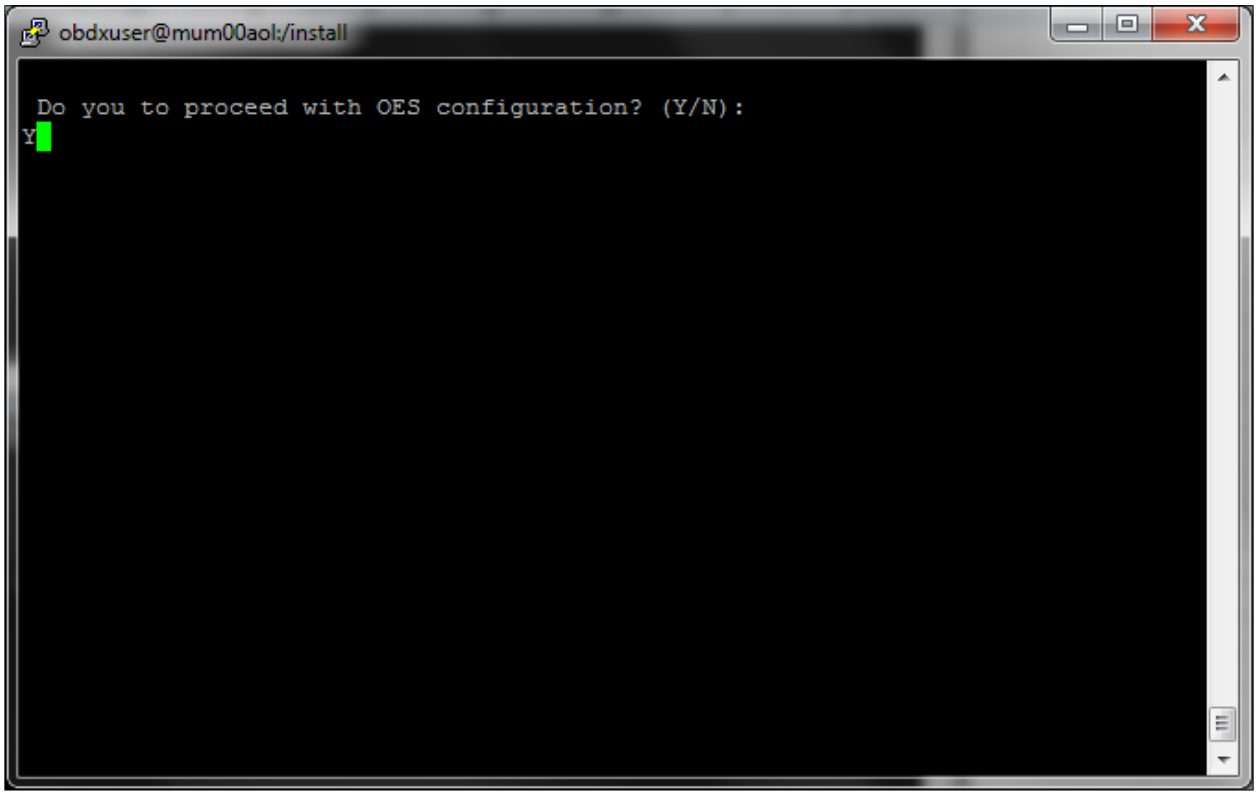


24. Please enter the password of OUD

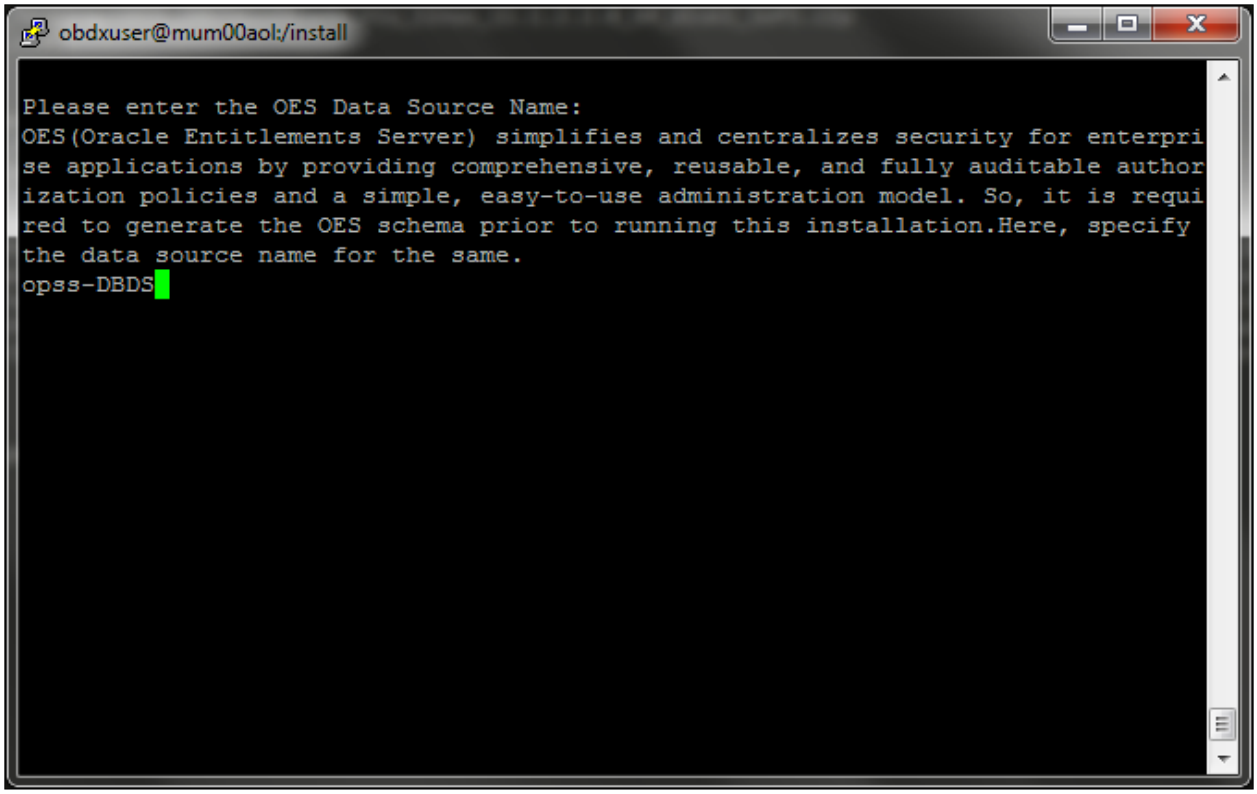


25. Please enter Y if you need to configure OES & creation of OAM Asserter

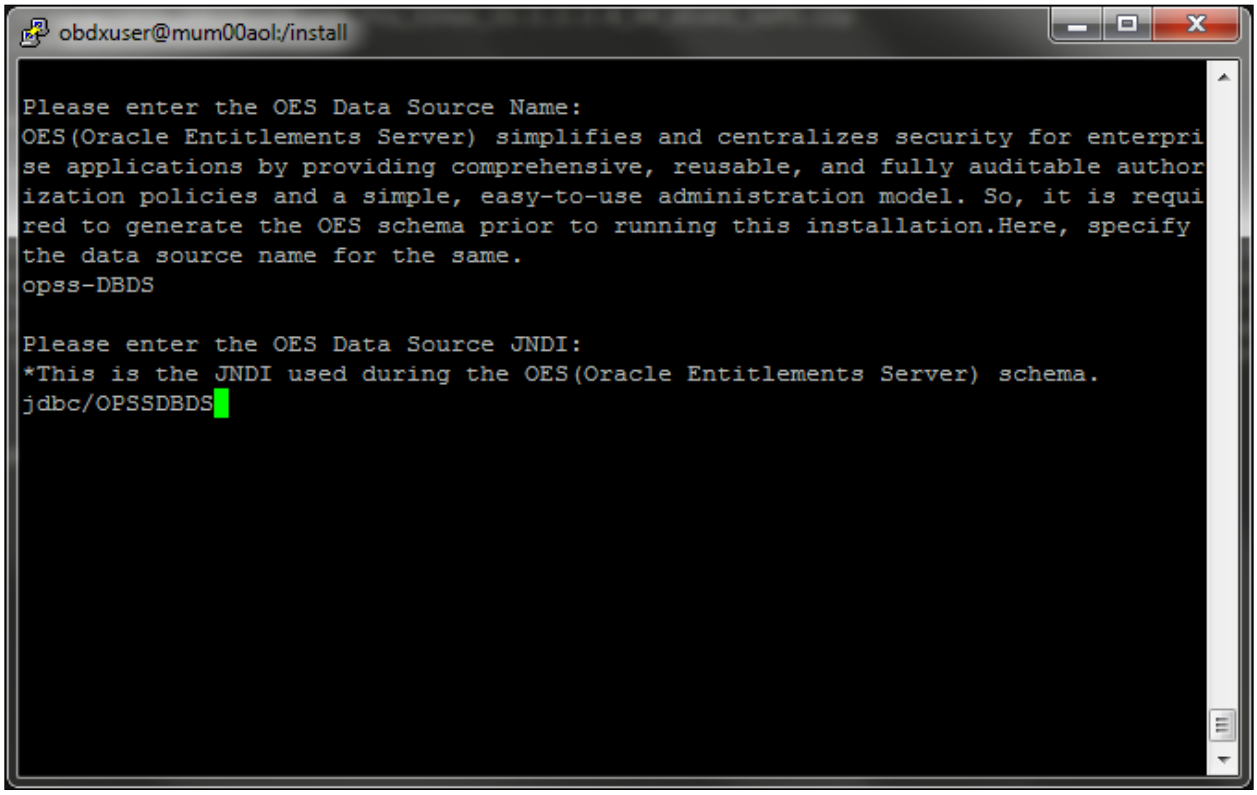


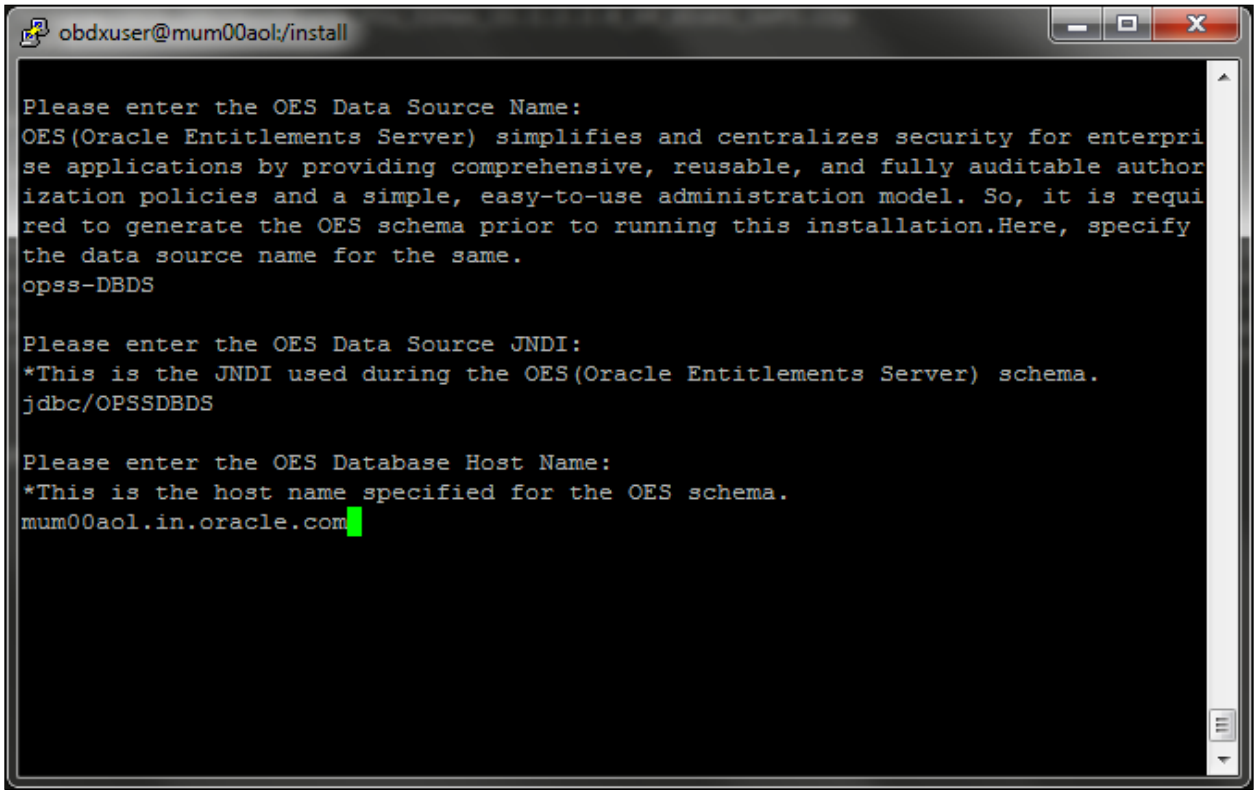
26. Please enter the OPSS Datasource name of OES domain



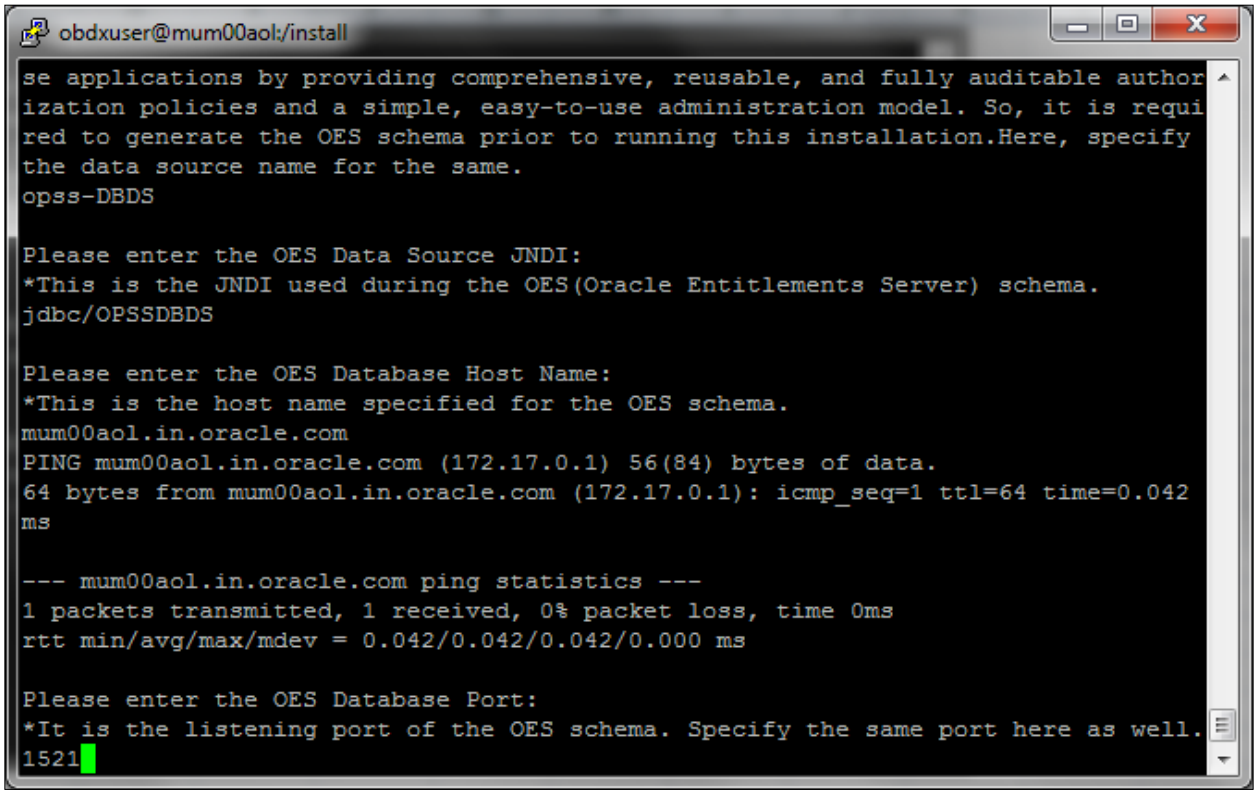
27. Please enter the JNDI name as jdbc/OPSSDBDS



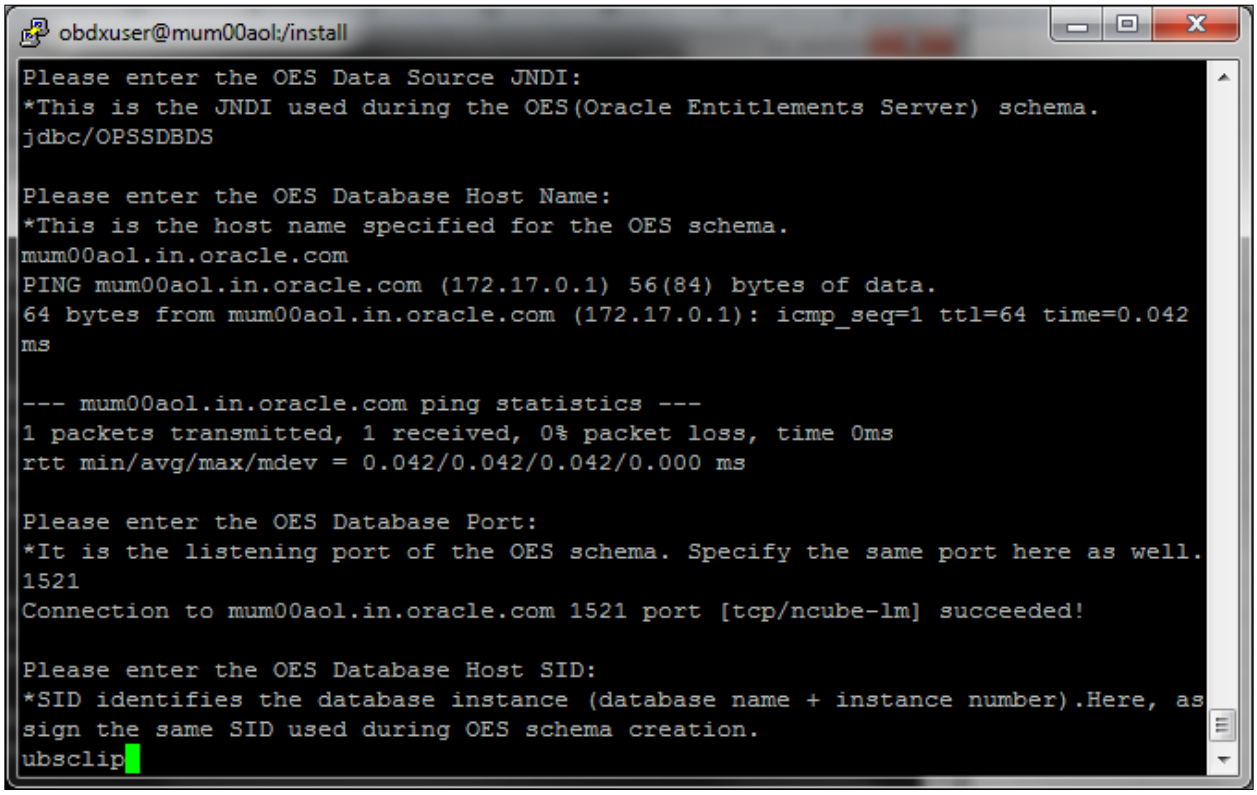
28. Please enter the host name of OPSS database of OES



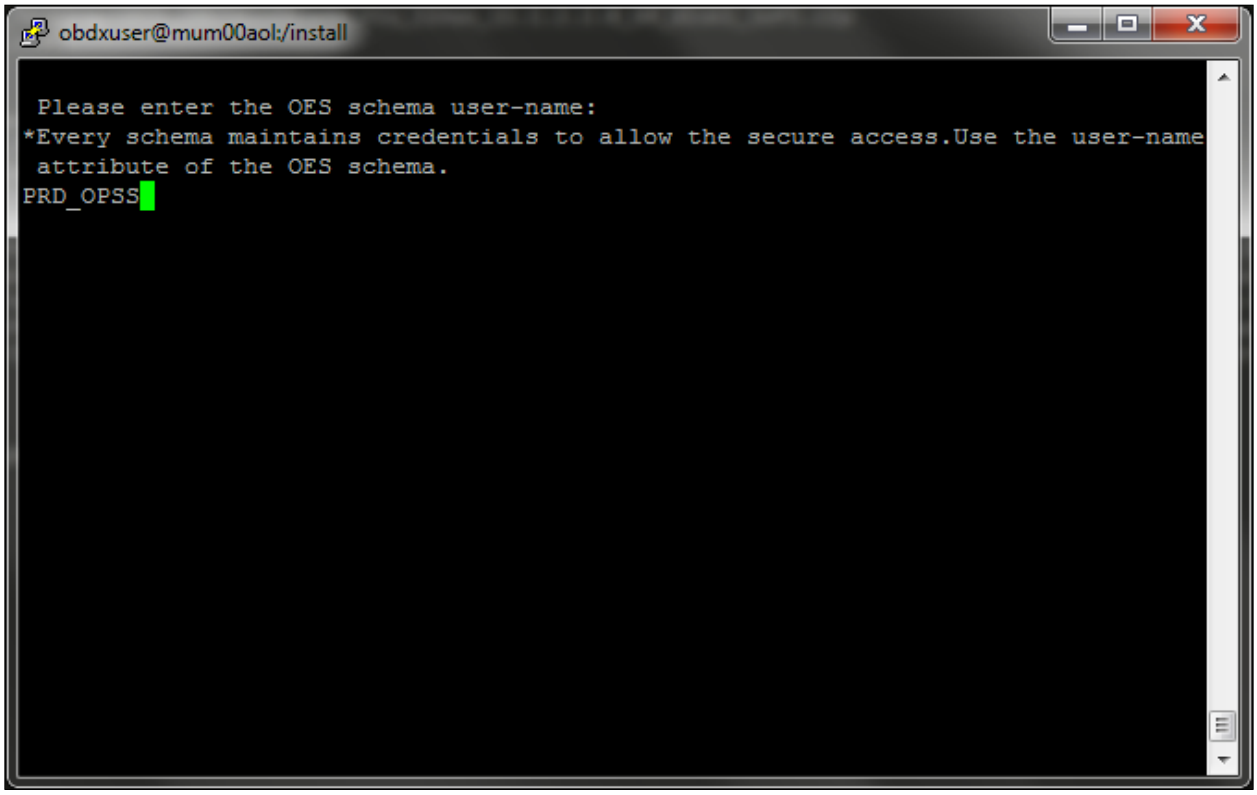
29. Please enter the port name for OPSS database of OES



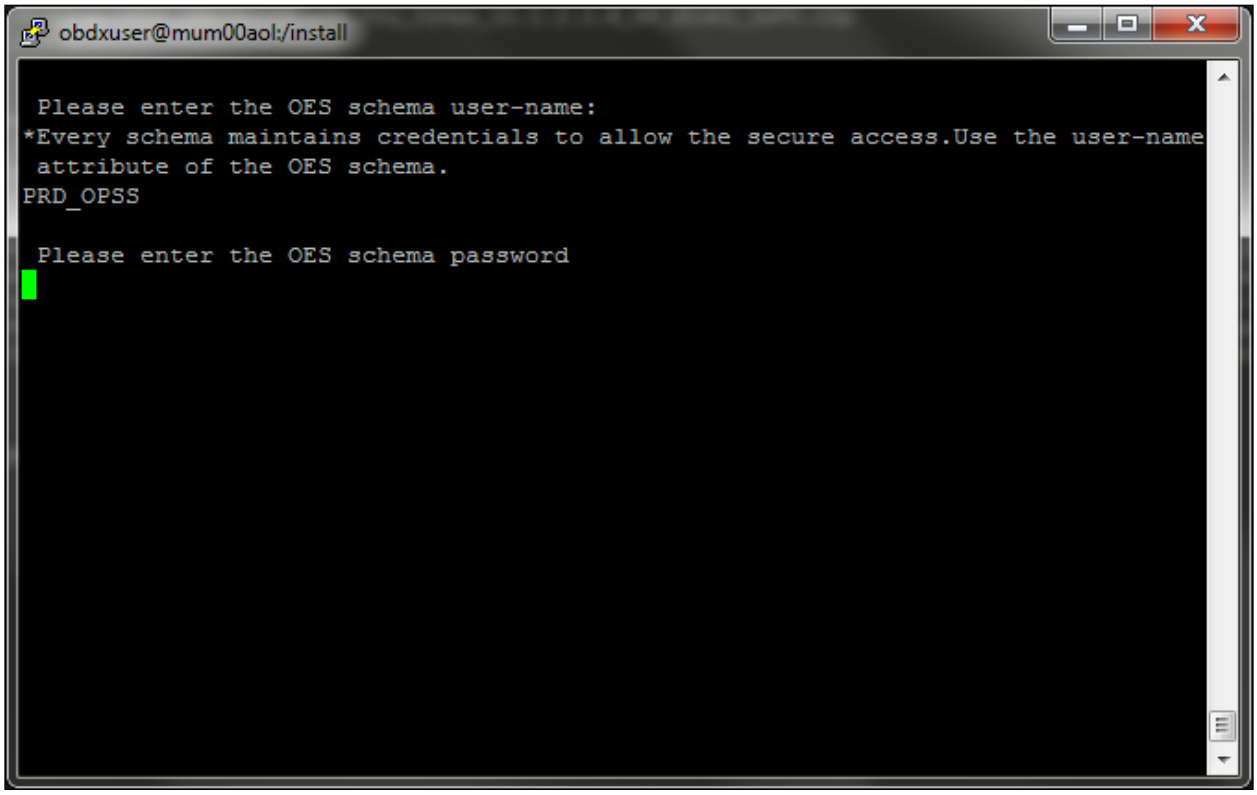
30. Please enter the SID of database where OPSS schema is present



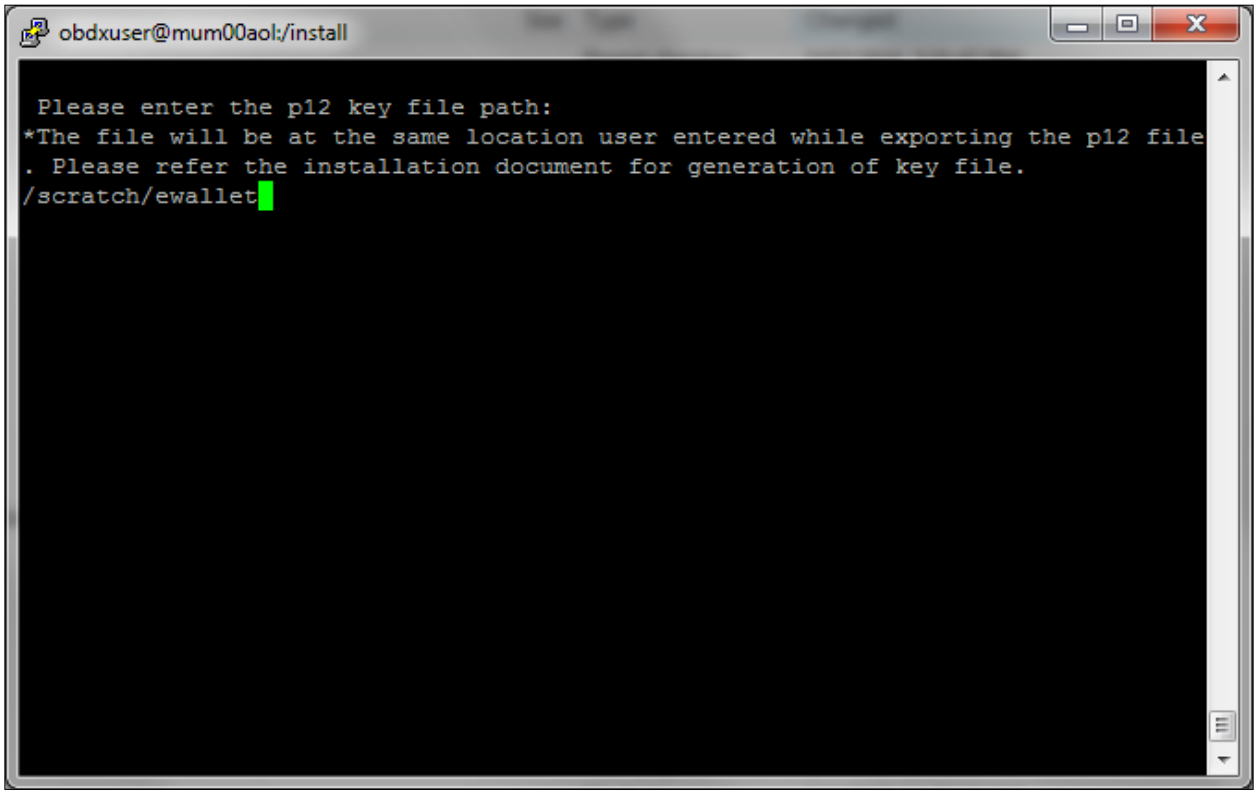
31. Please enter the schema name of OPSS



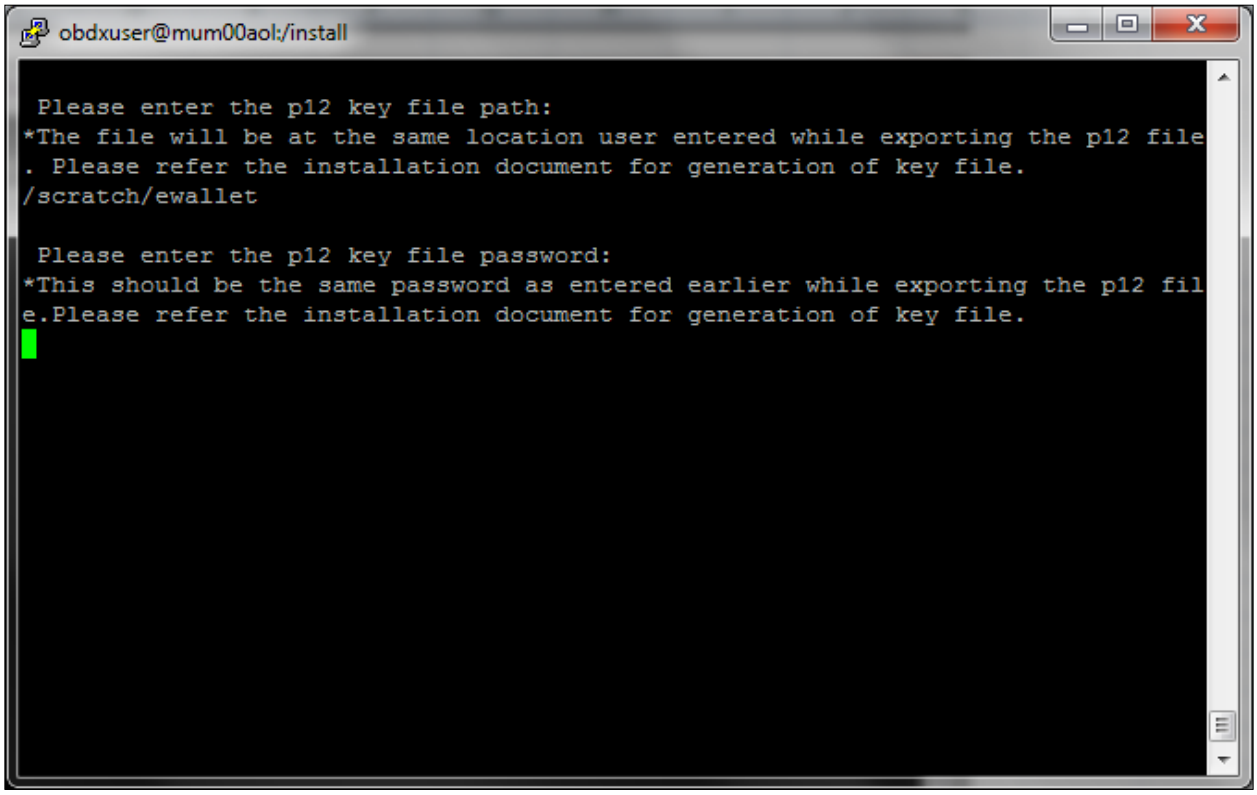
32. Please enter the password of OPSS schema



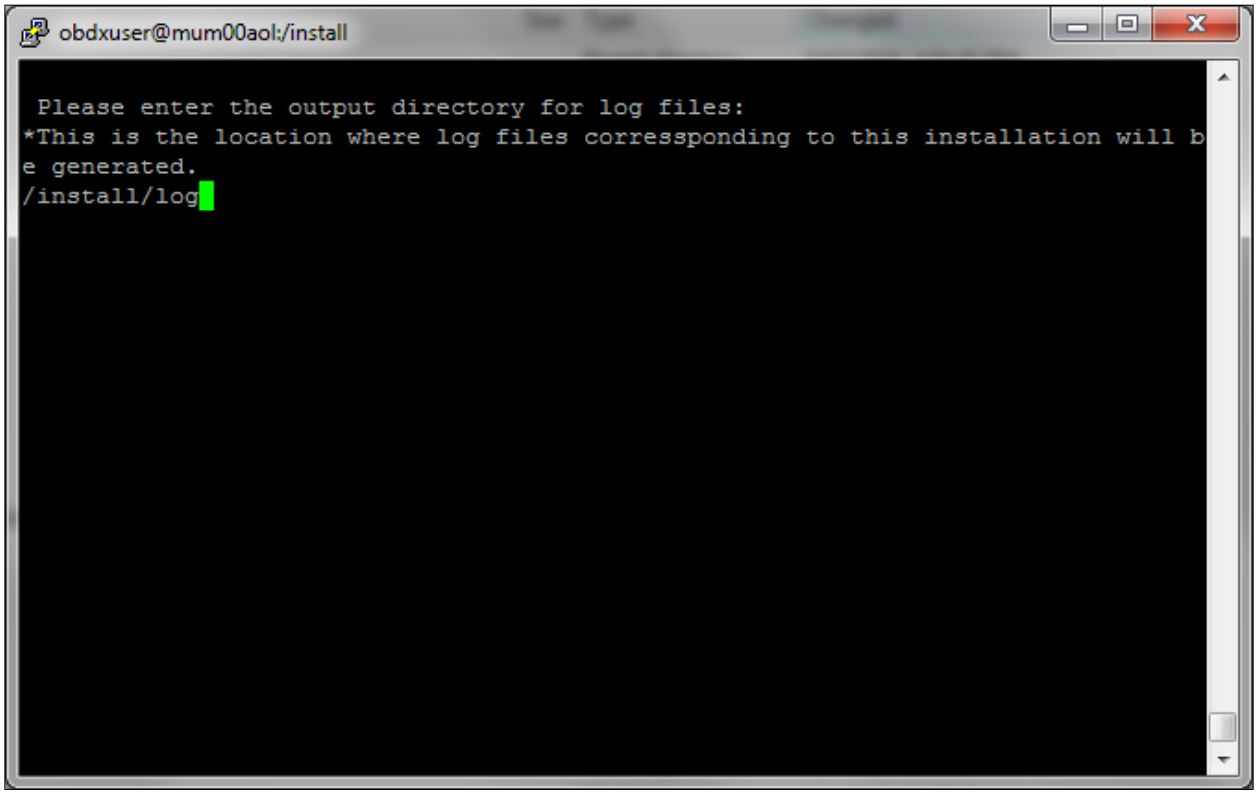
33. Please enter the p12 file path (this is the location where OES key will be exported)

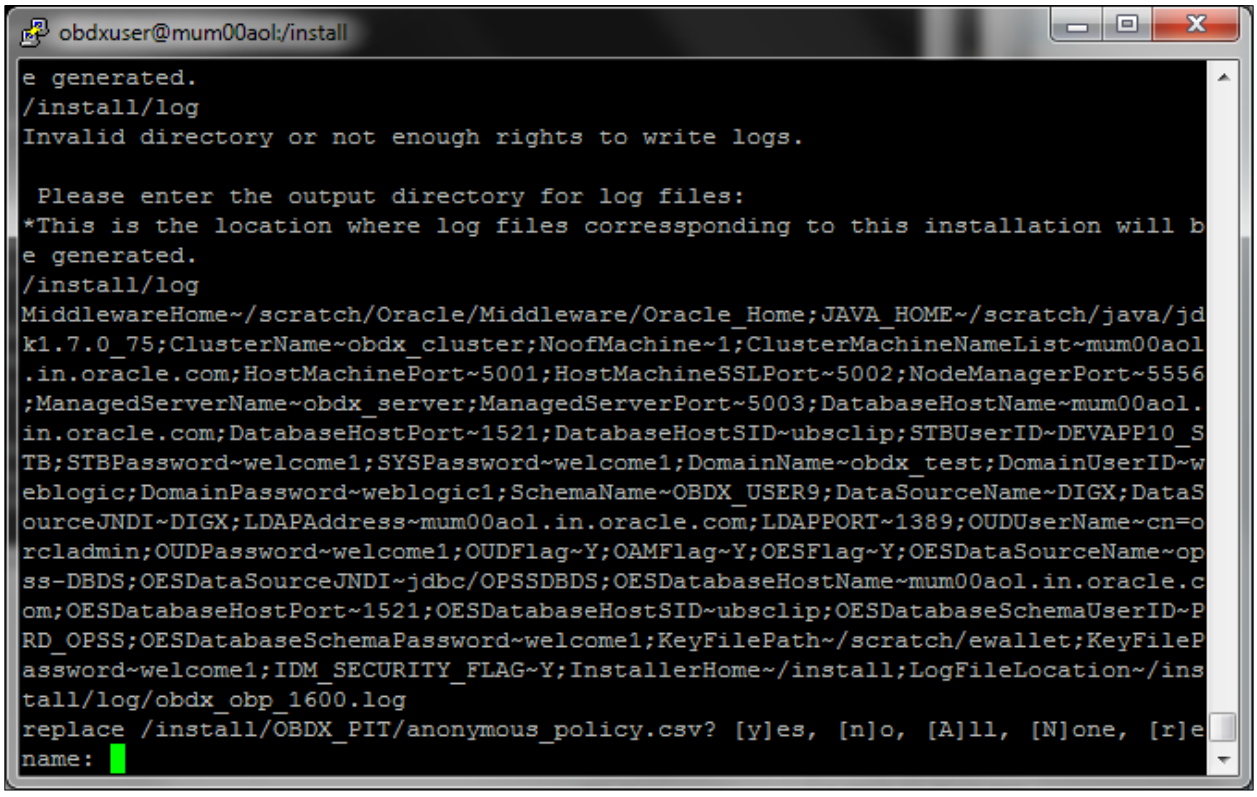


34. Please enter the preffered password of key file



35. Please enter the installer log file location

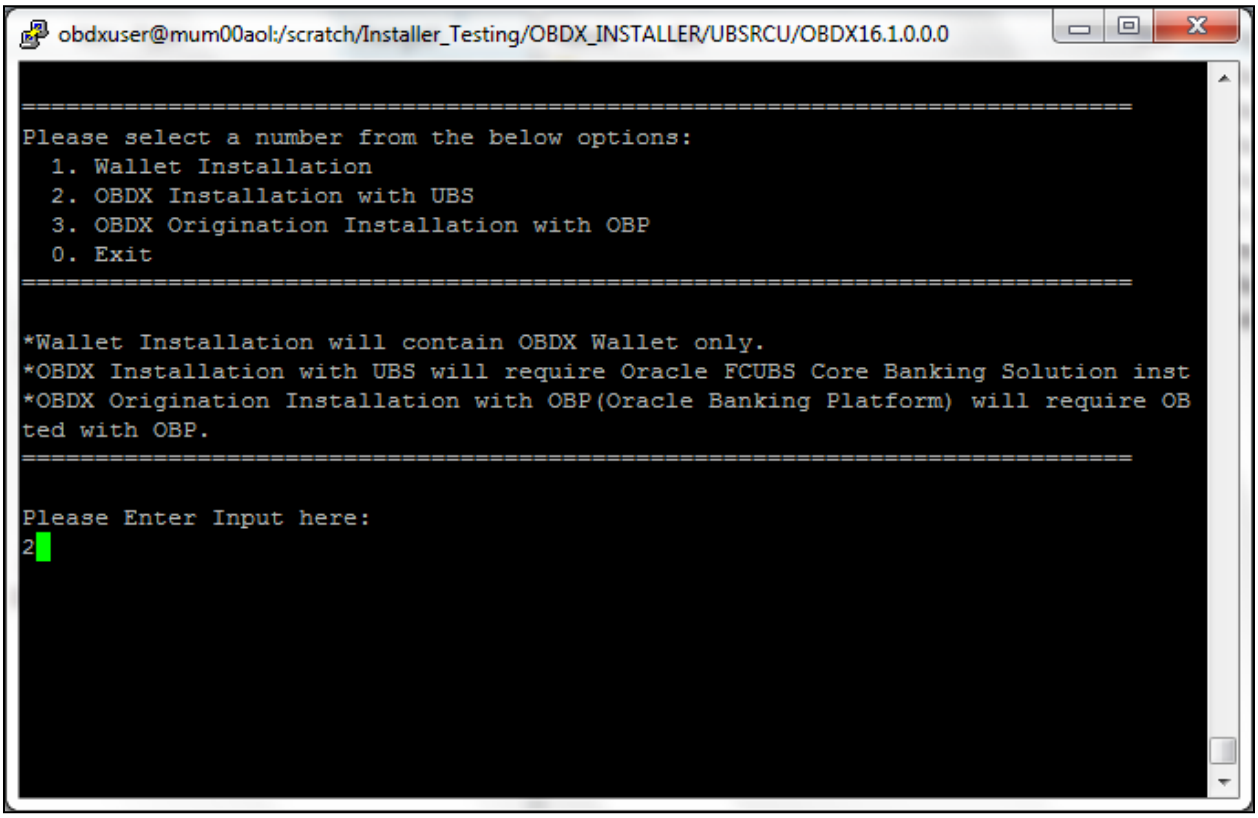


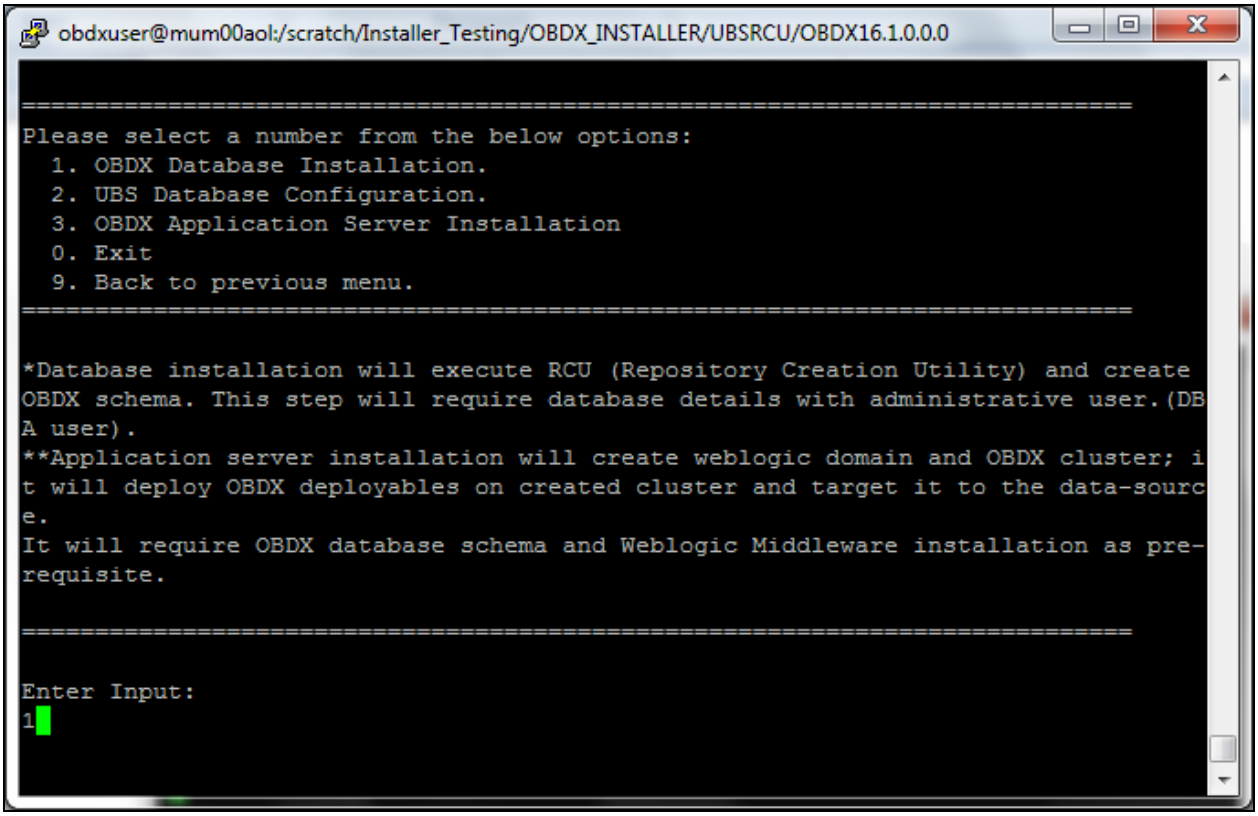
Installer will create the domain, cluster / Server & datasources and create security realms in weblogic for OUD. Installer will deploy all the OBDX deployable & extend the weblogic domain for JRF template.

## 4.4 OBDX Installation with UBS

Select OBDX Installation with UBS




Once you select the **Option** of OBDX installation with UBS, Installer will give you a choice to installer the database installation or Application Server Installation. (refer the below screen shot)


obdxuser@mum00aol:/scratch/Installer_Testing/OBDX_INSTALLER/UBSRCU/OBDX16.1.0.0.0
Please select a number from the below options:
1. OBDX Database Installation.
2. UBS Database Configuration.
3. OBDX Application Server Installation
0. Exit
9. Back to previous menu.
*Database installation will execute RCU (Repository Creation Utility) and create OBDX schema. This step will require database details with administrative user.(DBA user).
**Application server installation will create weblogic domain and OBDX cluster; it will deploy OBDX deployables on created cluster and target it to the data-source.
It will require OBDX database schema and Weblogic Middleware installation as pre-requisite.
Enter Input:
1

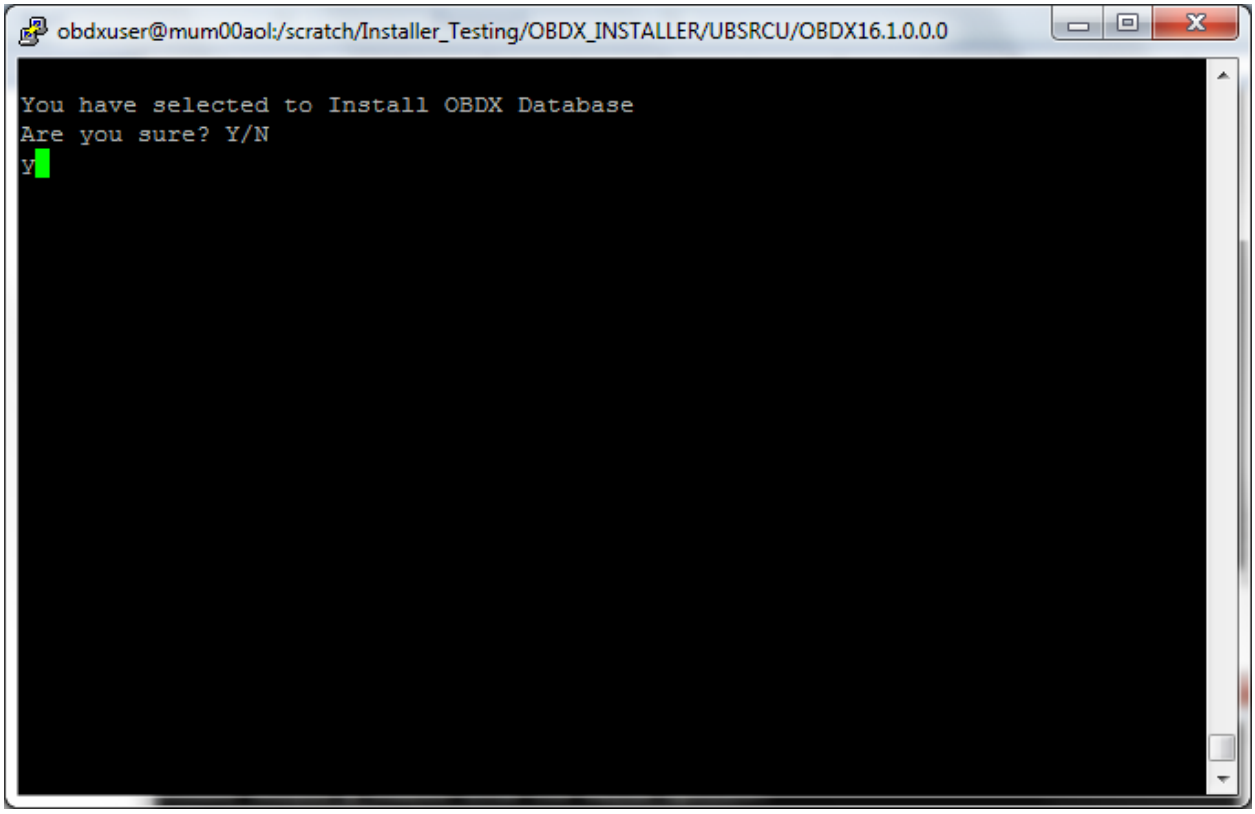
### 4.4.1 Database Schema Creation

We recommend you to install the database first for your OBDX environment & then process for Application Server Installation.

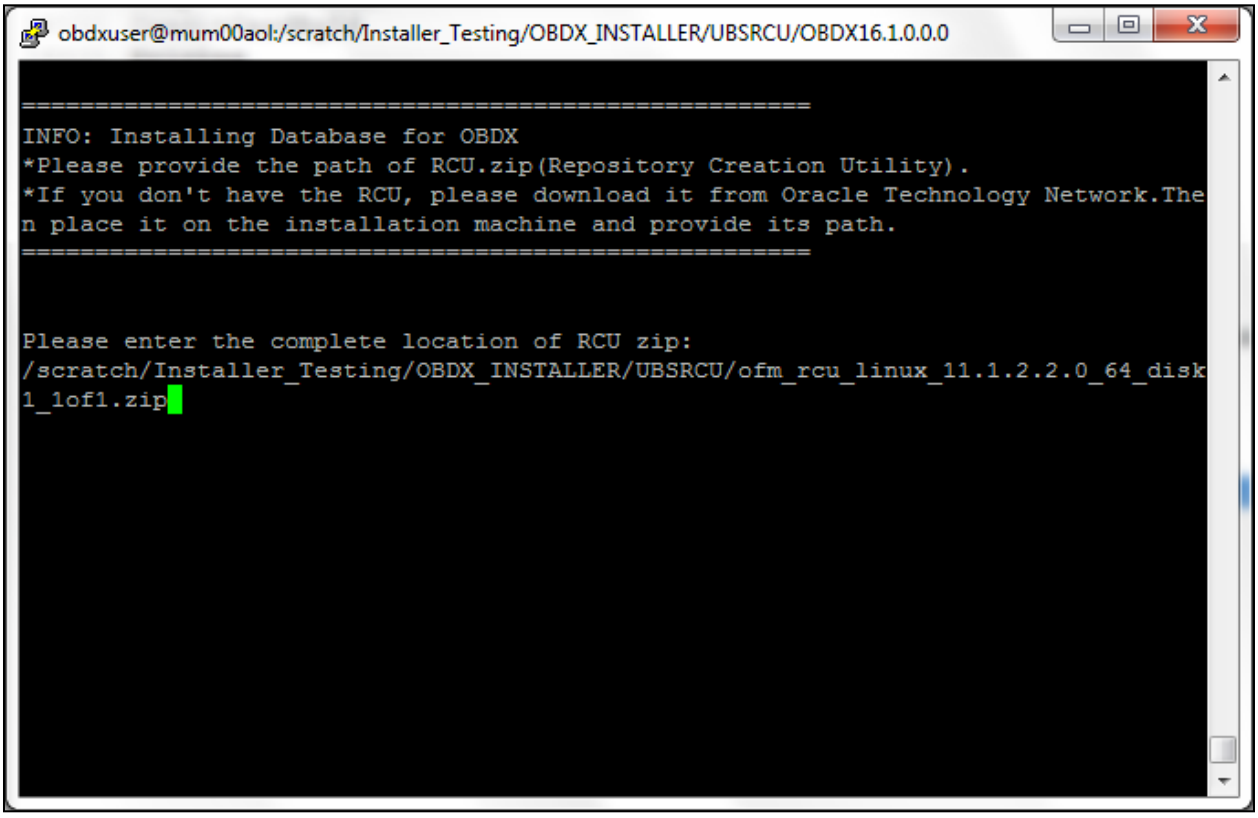
OBDX Database installation creates the OBDX schema in OBDX Database.

UBS Database configuration creates EXT_UBS schema in FCUBS Database.

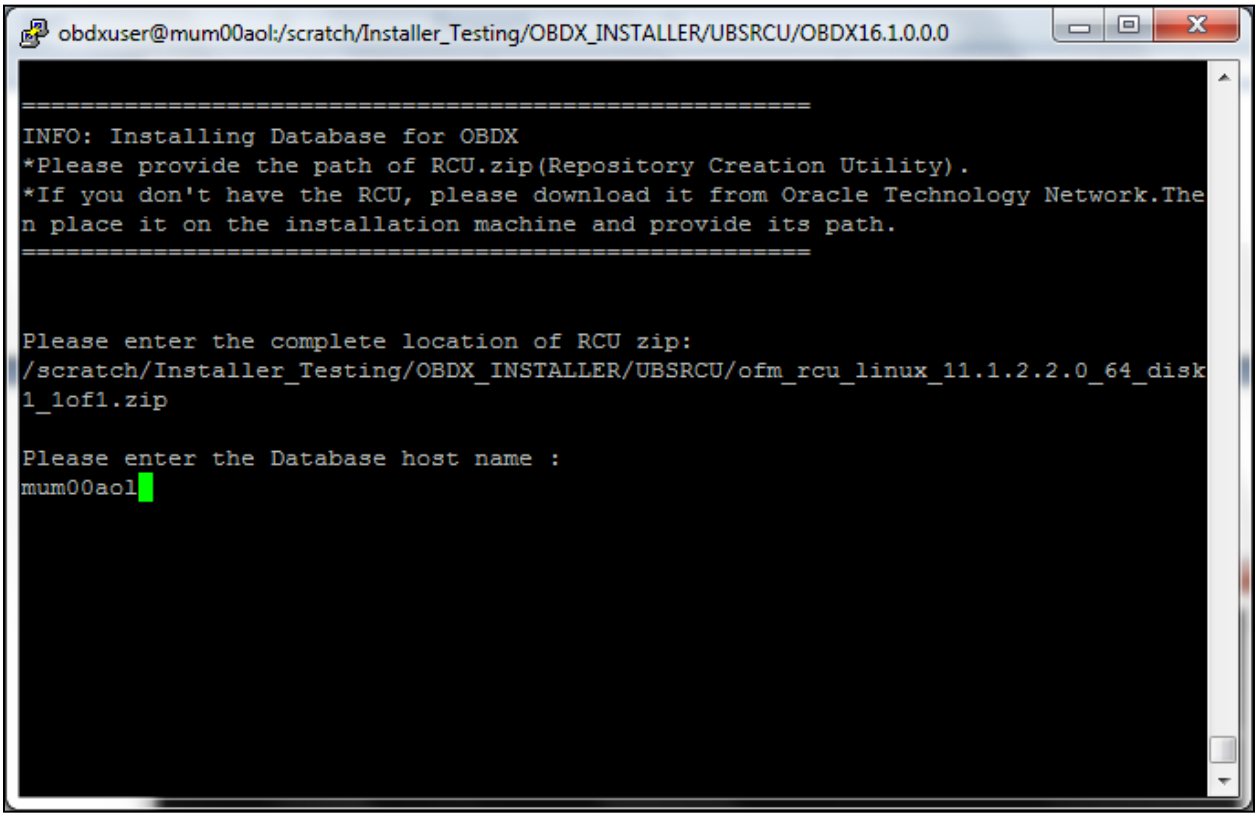
When you select the database installation, it will ask you to confirm your choice.



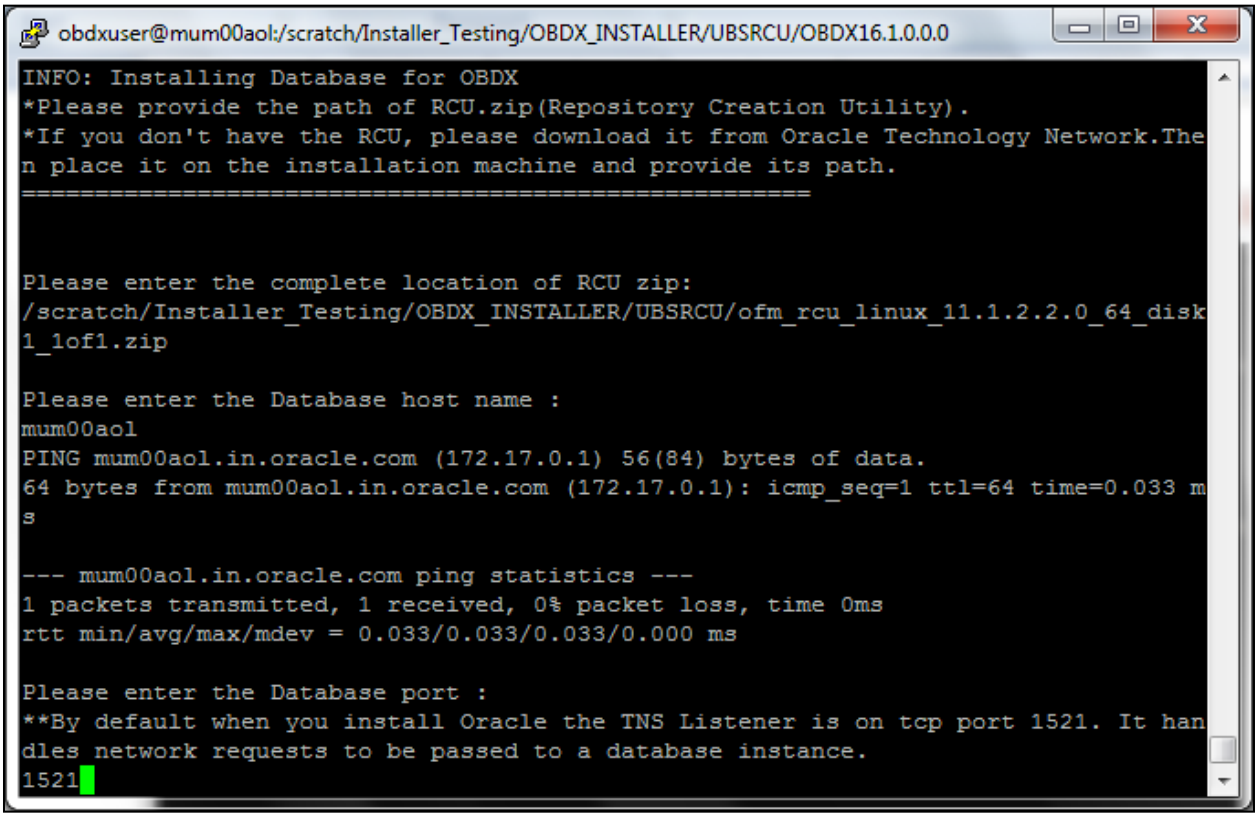
*You will need to provide the RCU.zip (Repository Creation Utility). This can be downloaded from Oracle Technology Network site and uploaded to Installer Directory.*



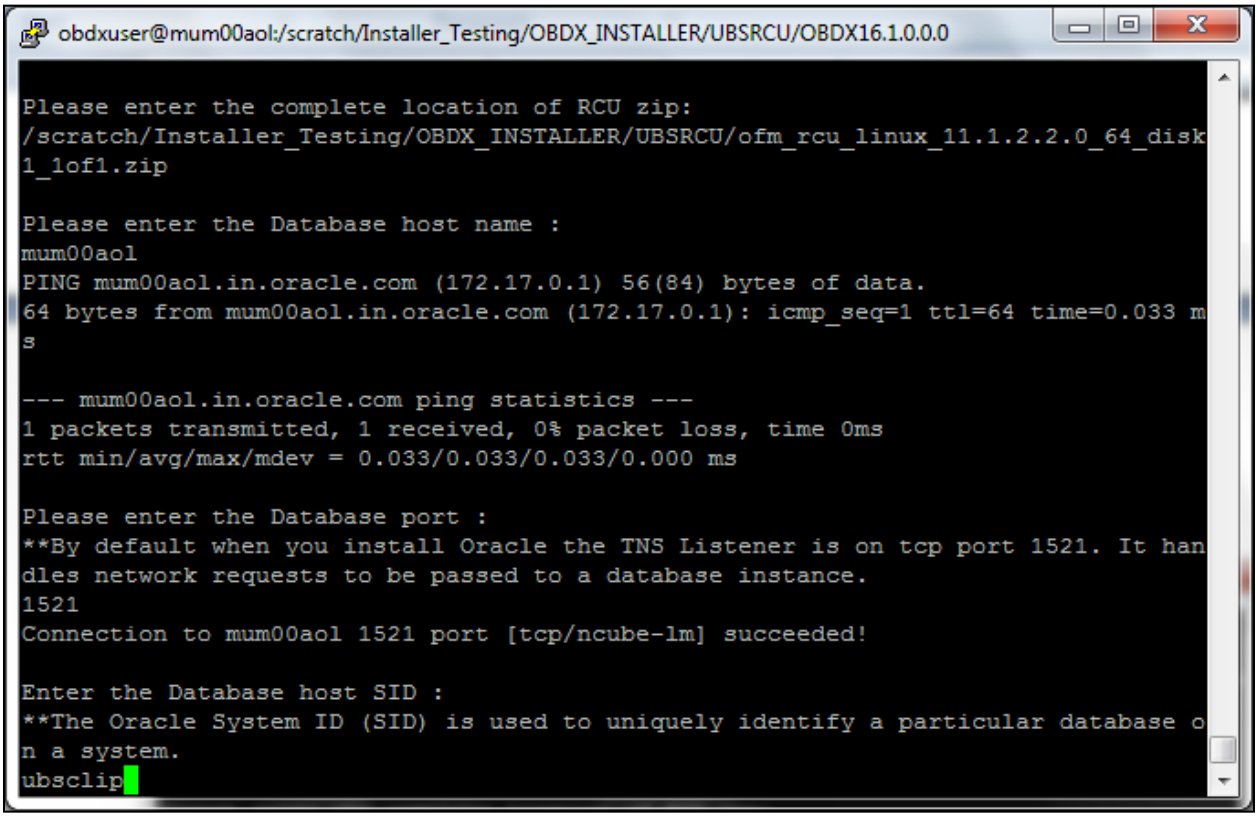
1. Enter database hostname



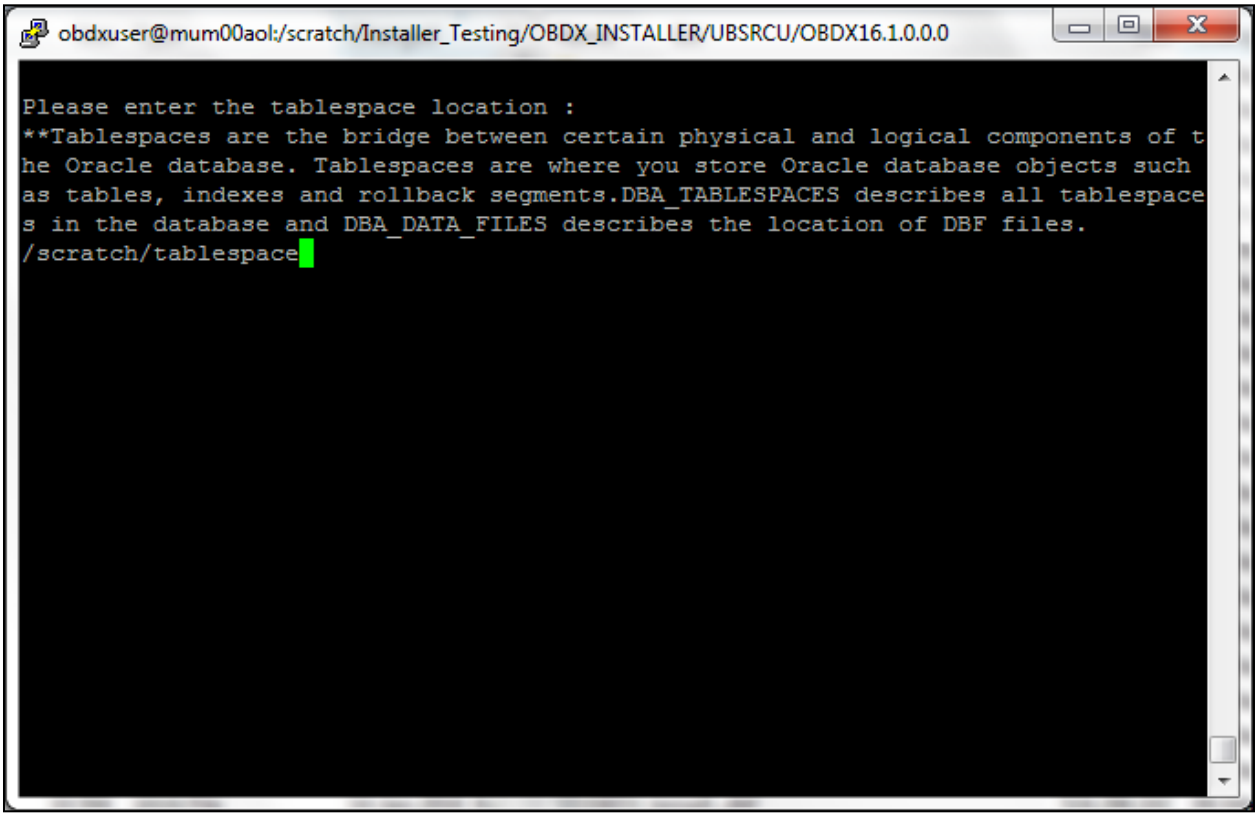
2. Enter database port



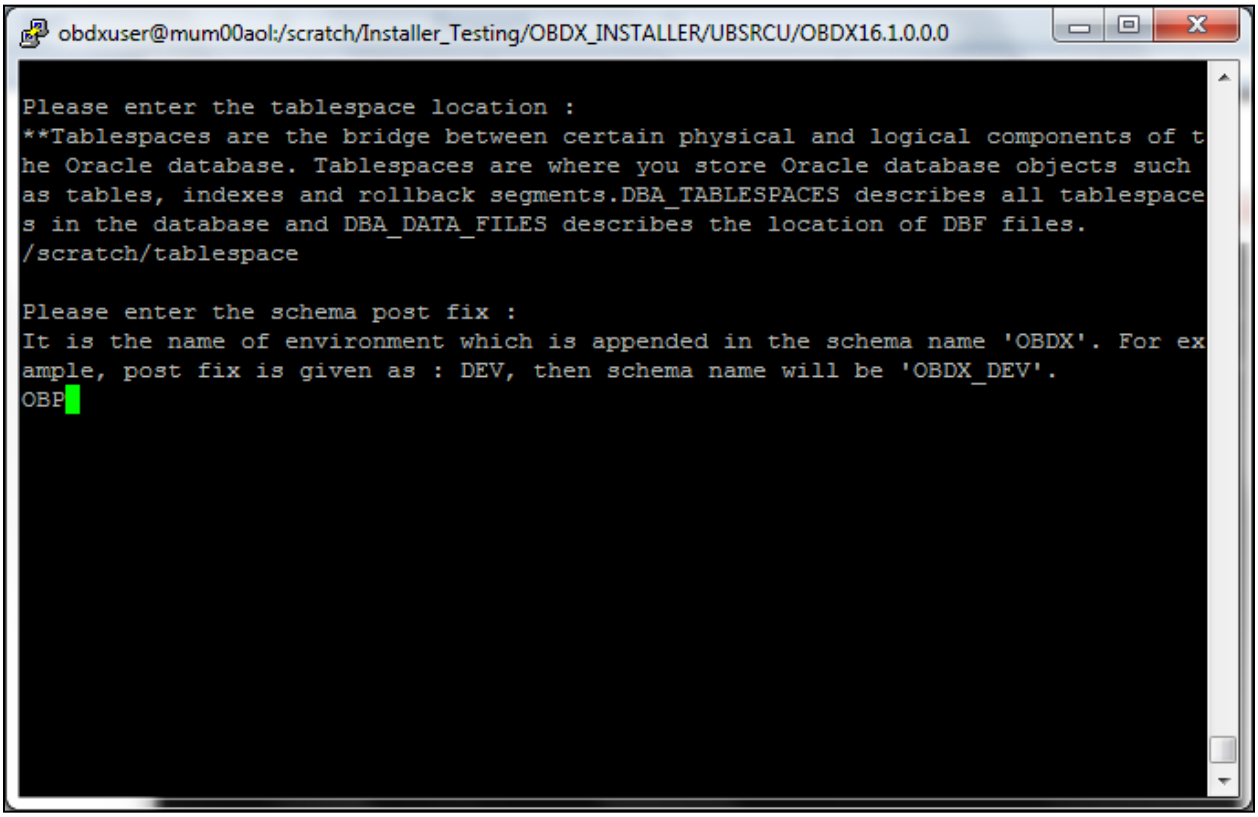
3. Enter database host SID



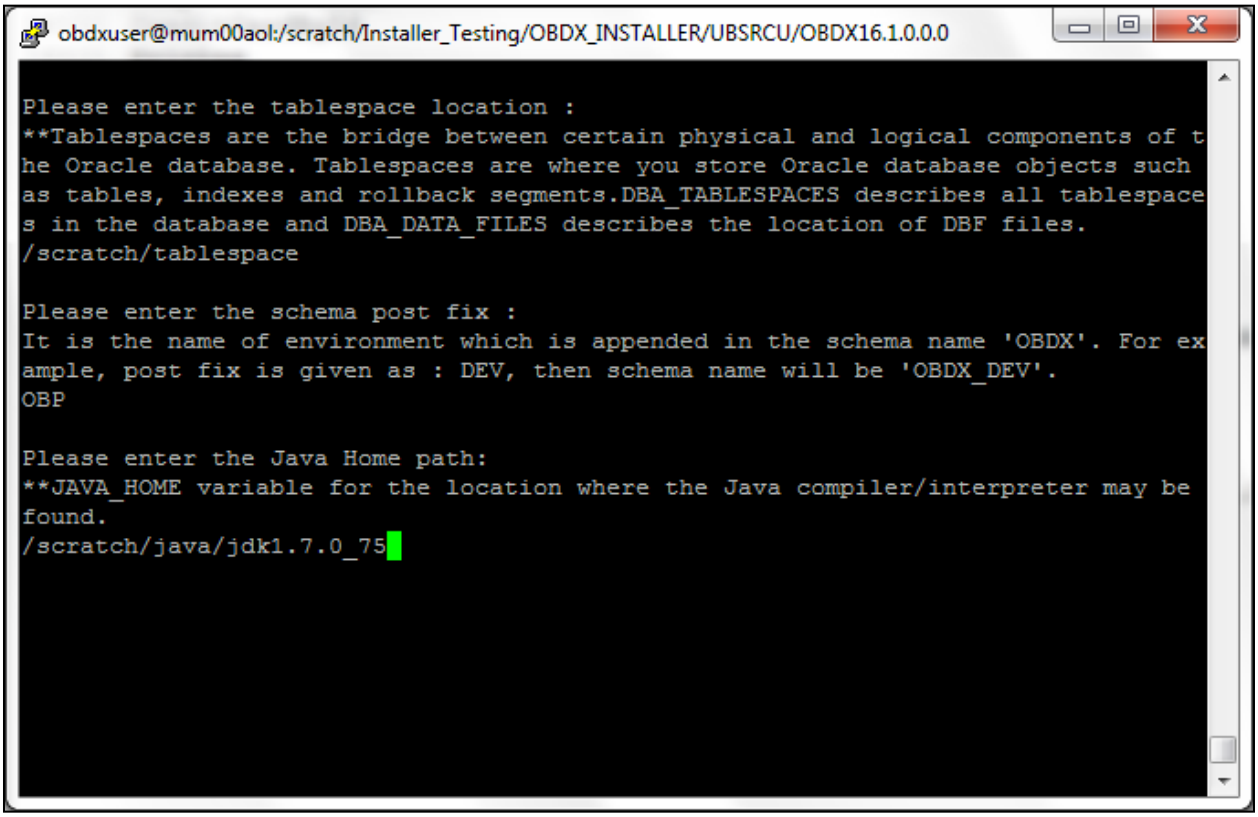
4. Enter tablespace location



5. Provide database schema postfix



6. Provide JDK path



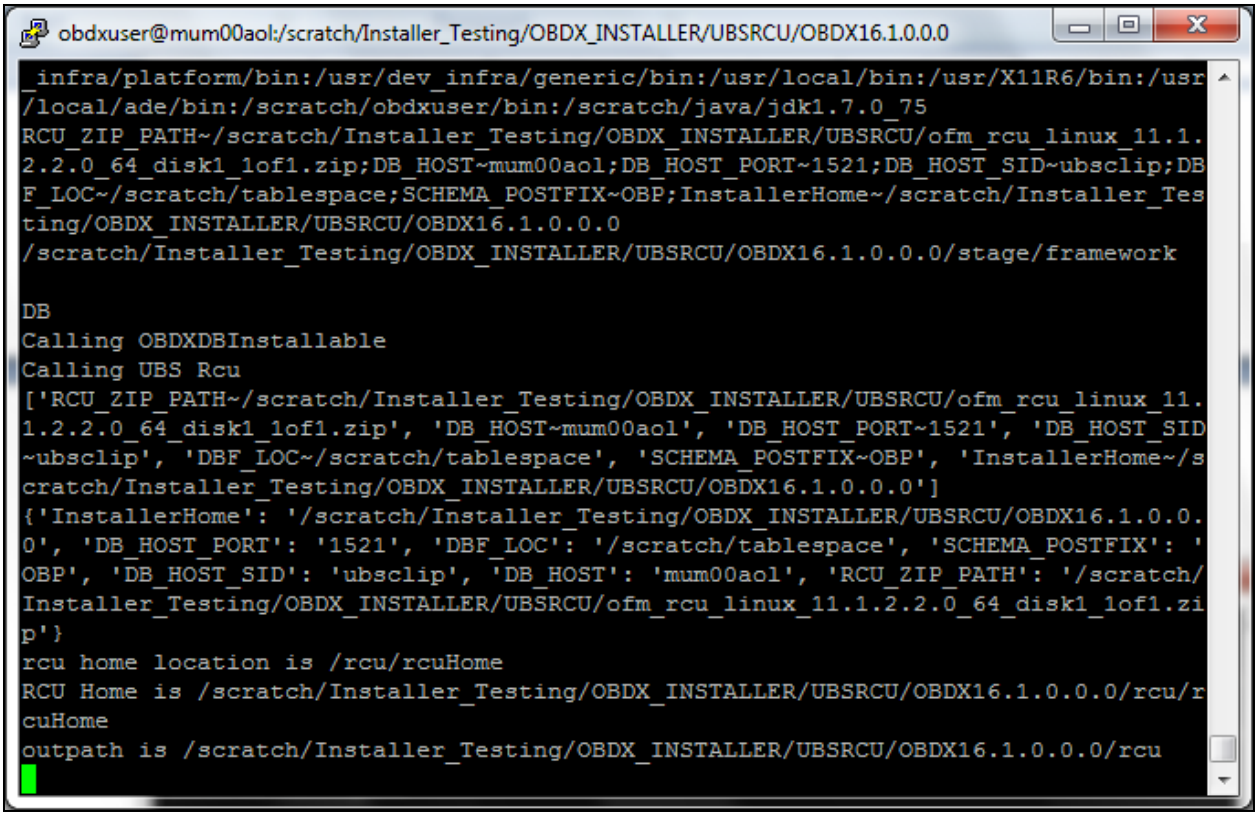

Please Enter the DBA UserName & Password for Database (Prefereably sys user)

While the installation in progress, To accept '**sys password**' and '**schema password**' respectively from the user the RCU utility will clear the screen.

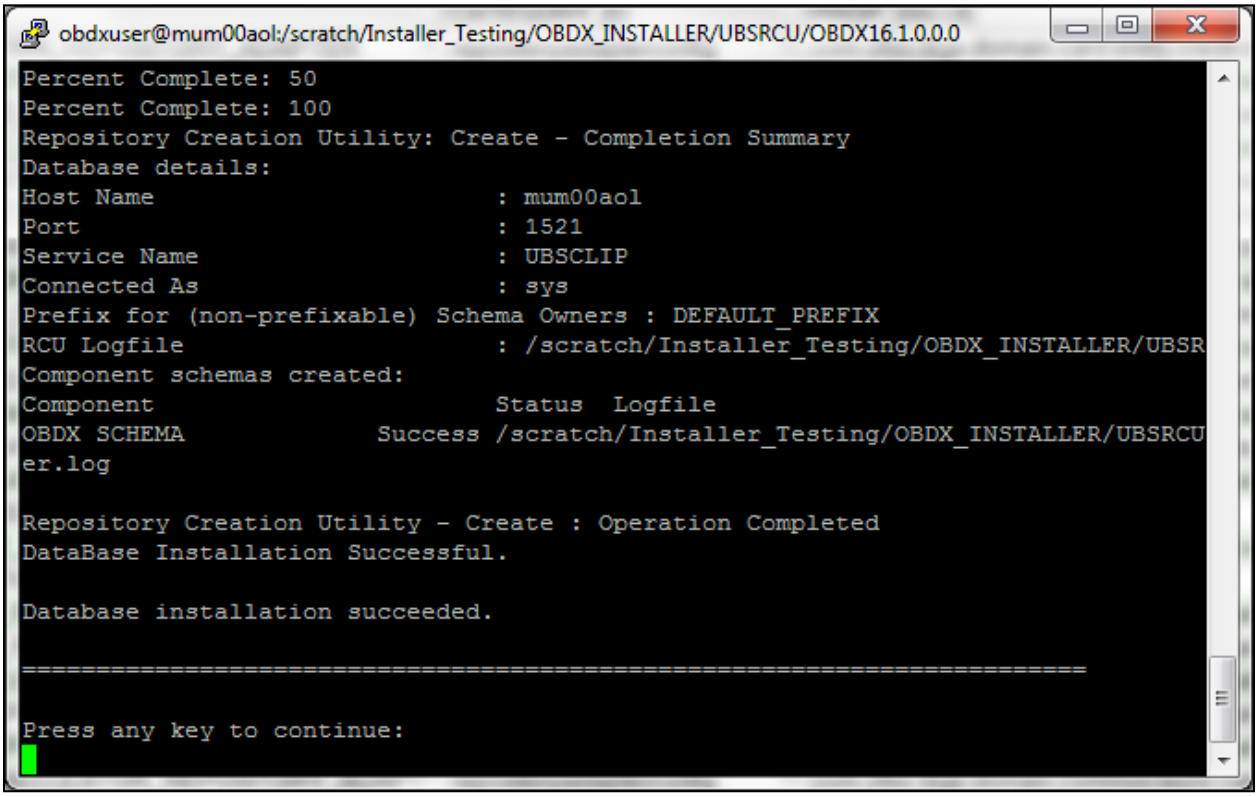
First time when the screen gets clear, the user has to enter '**sys password**'

Second time when the screen gets clear, the user has to enter '**schema password**'

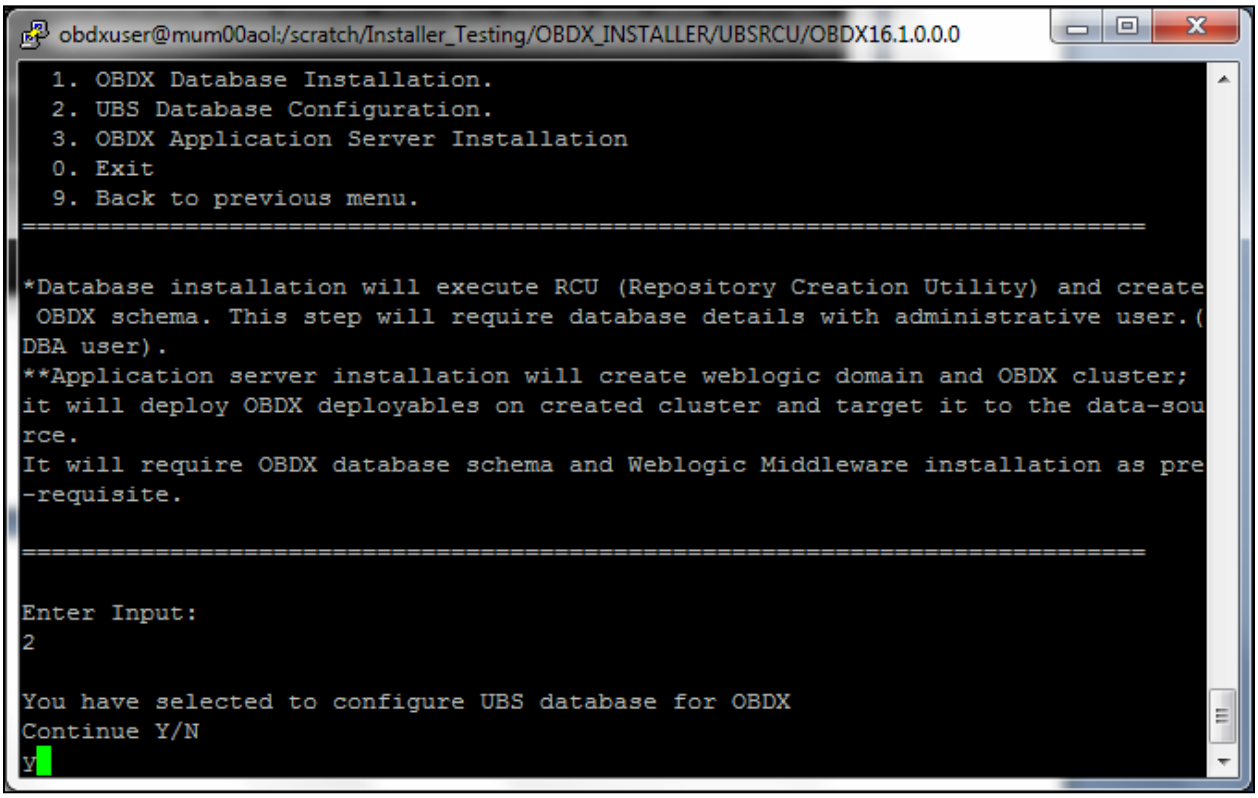
The Intallation utility will create the OBDX Schema as per the defined name with the post fix and import the seed data into this newly created schema.


obdxuser@mum00aol:/scratch/Installer_Testing/OBDX_INSTALLER/UBSRCU/OBDX16.1.0.0.0
_infra/platform/bin:/usr/dev_infra/generic/bin:/usr/local/bin:/usr/X11R6/bin:/usr
/local/ade/bin:/scratch/obdxuser/bin:/scratch/java/jdk1.7.0_75
RCU_ZIP_PATH~/scratch/Installer_Testing/OBDX_INSTALLER/UBSRCU/ofm_rcu_linux_11.1.
2.2.0_64_disk1_1of1.zip;DB_HOST~mum00aol;DB_HOST_PORT~1521;DB_HOST_SID~ubsclip;DB
F_LOC~/scratch/tablespace;SCHEMA_POSTFIX~OBP;InstallerHome~/scratch/Installer_Tes
ting/OBDX_INSTALLER/UBSRCU/OBDX16.1.0.0.0
/scratch/Installer_Testing/OBDX_INSTALLER/UBSRCU/OBDX16.1.0.0.0/stage/framework
DB
Calling OBDXDBInstallable
Calling UBS Rcu
['RCU_ZIP_PATH~/scratch/Installer_Testing/OBDX_INSTALLER/UBSRCU/ofm_rcu_linux_11.
1.2.2.0_64_disk1_1of1.zip', 'DB_HOST~mum00aol', 'DB_HOST_PORT~1521', 'DB_HOST_SID
~ubsclip', 'DBF_LOC~/scratch/tablespace', 'SCHEMA_POSTFIX~OBP', 'InstallerHome~/s
cratch/Installer_Testing/OBDX_INSTALLER/UBSRCU/OBDX16.1.0.0.0']
{'InstallerHome': '/scratch/Installer_Testing/OBDX_INSTALLER/UBSRCU/OBDX16.1.0.0.
0', 'DB_HOST_PORT': '1521', 'DBF_LOC': '/scratch/tablespace', 'SCHEMA_POSTFIX': '
OBP', 'DB_HOST_SID': 'ubsclip', 'DB_HOST': 'mum00aol', 'RCU_ZIP_PATH': '/scratch/
Installer_Testing/OBDX_INSTALLER/UBSRCU/ofm_rcu_linux_11.1.2.2.0_64_disk1_1of1.zi
p'}
rcu home location is /rcu/rcuHome
RCU Home is /scratch/Installer_Testing/OBDX_INSTALLER/UBSRCU/OBDX16.1.0.0.0/rcu/r
cuHome
outpath is /scratch/Installer_Testing/OBDX_INSTALLER/UBSRCU/OBDX16.1.0.0.0/rcu

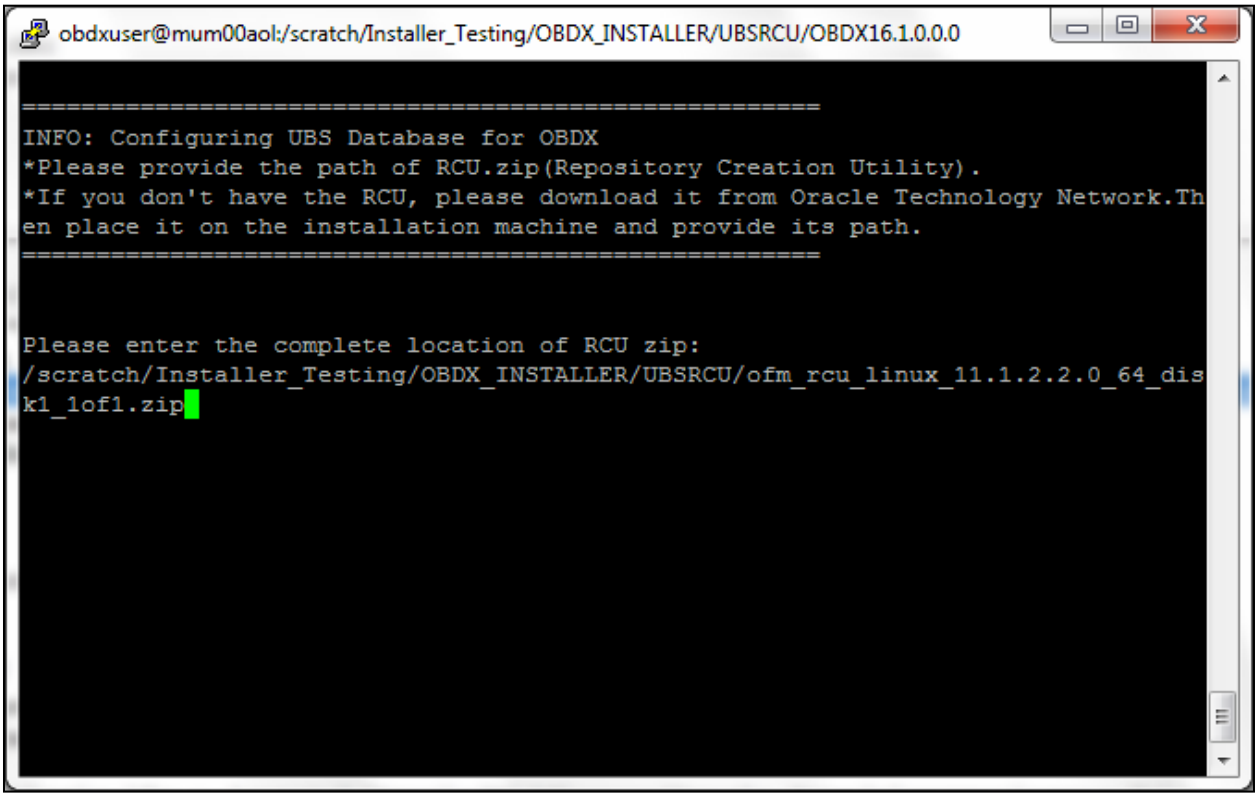
OBDX Schema has been created successfully & Day 0 Data has beed seeded.



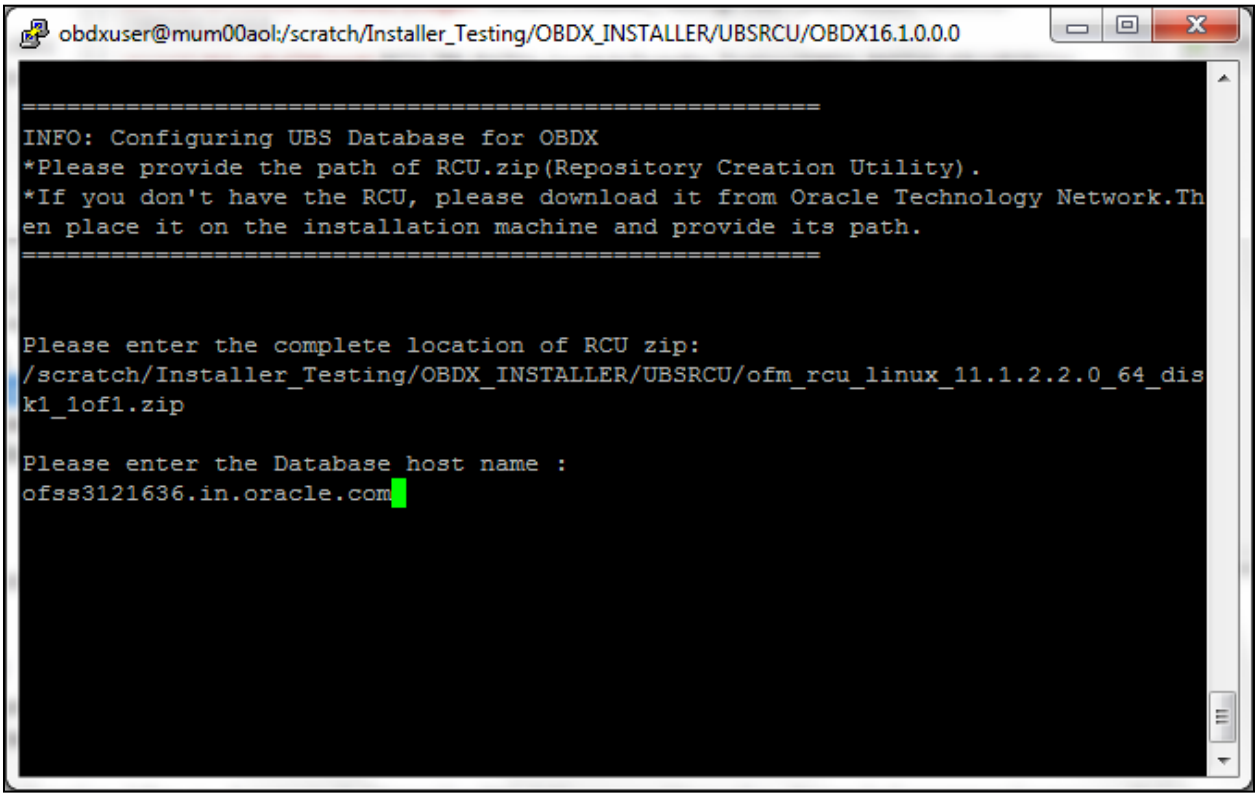
7. Select option to install UBS database schema



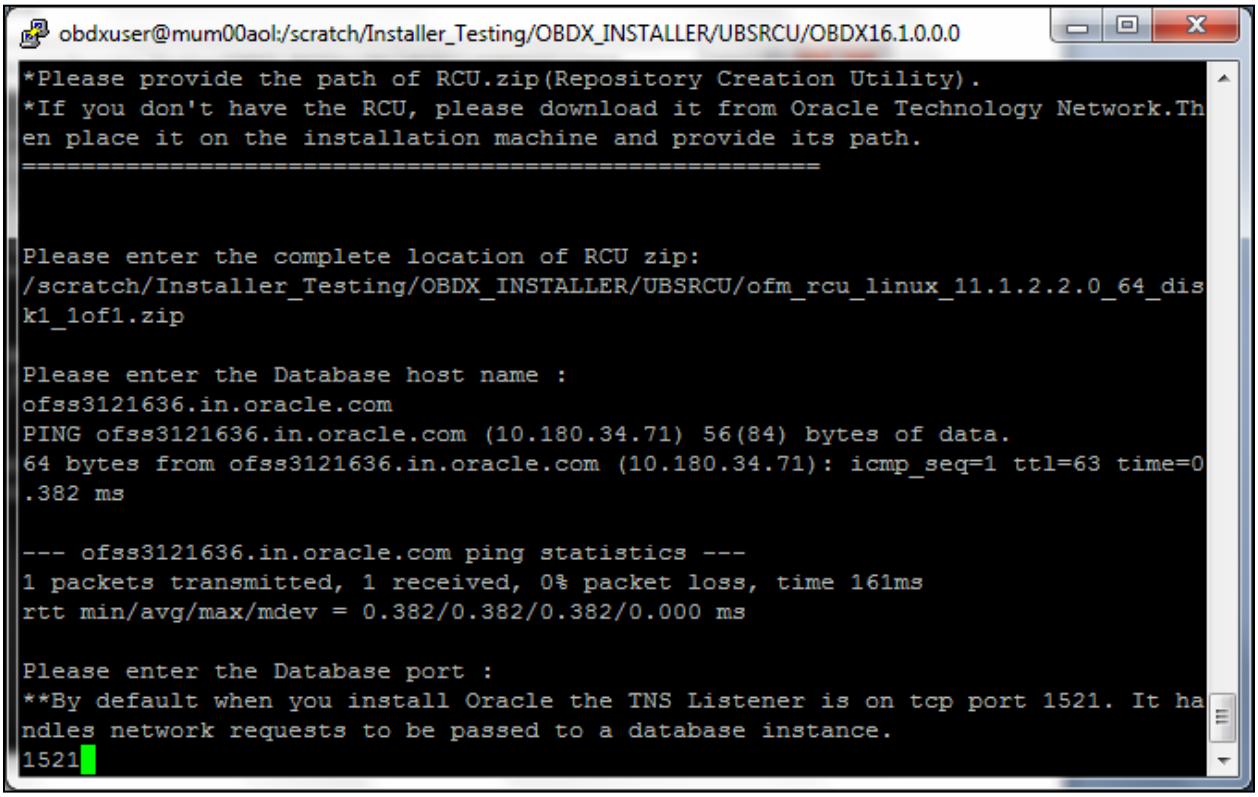
8. Enter location of RCU.zip



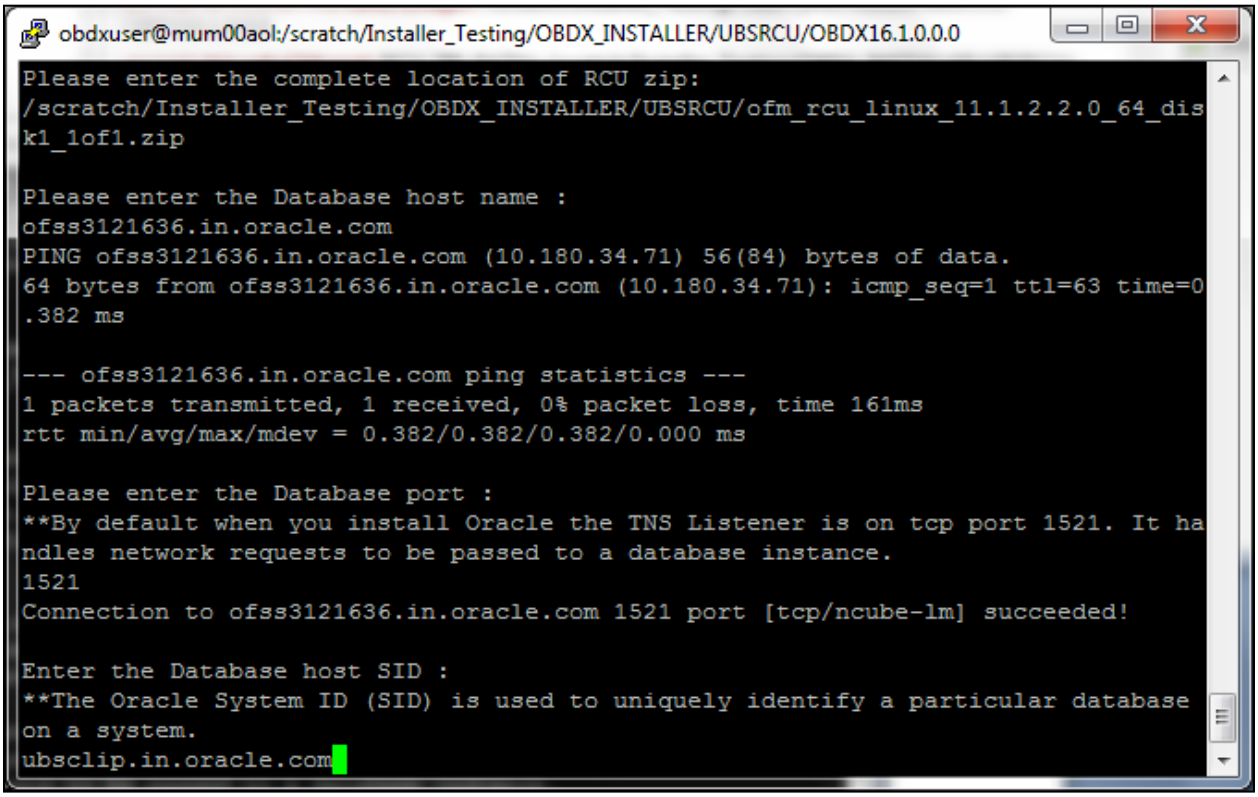
9. Enter UBS database host name



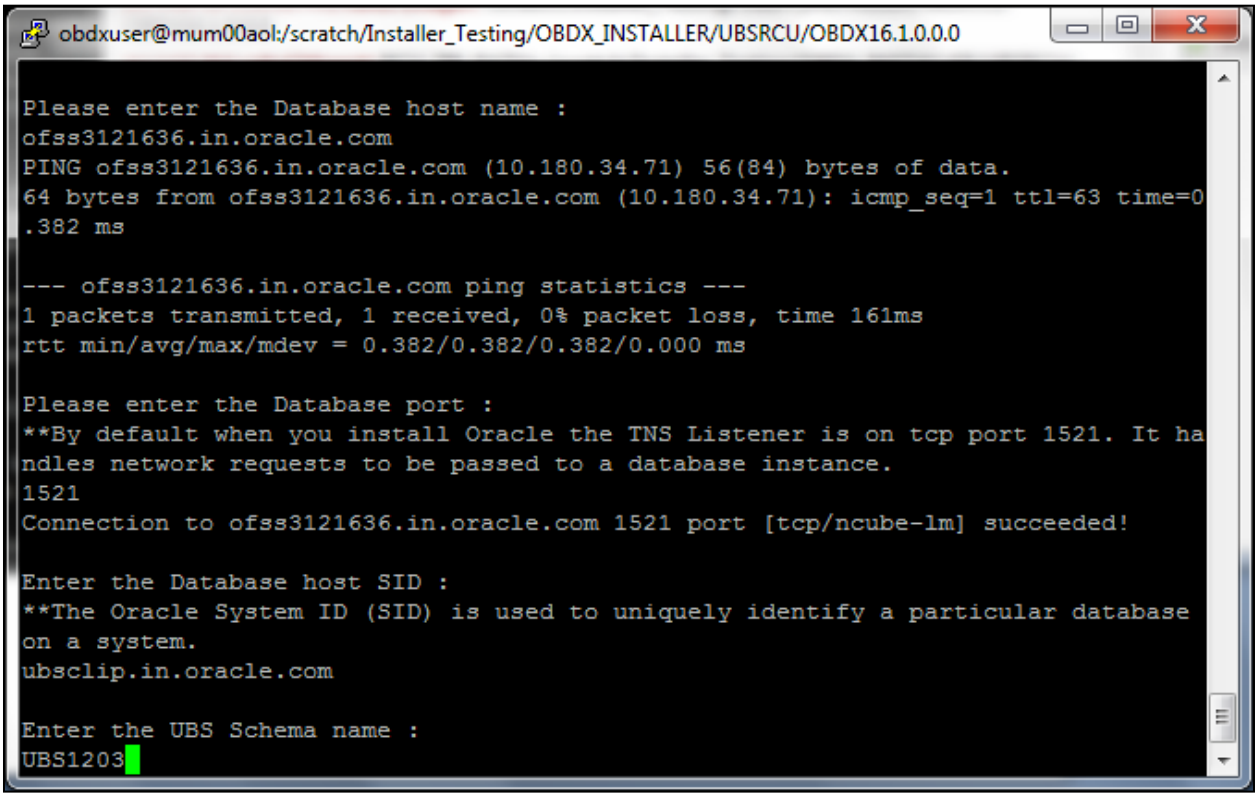
10. Enter database port



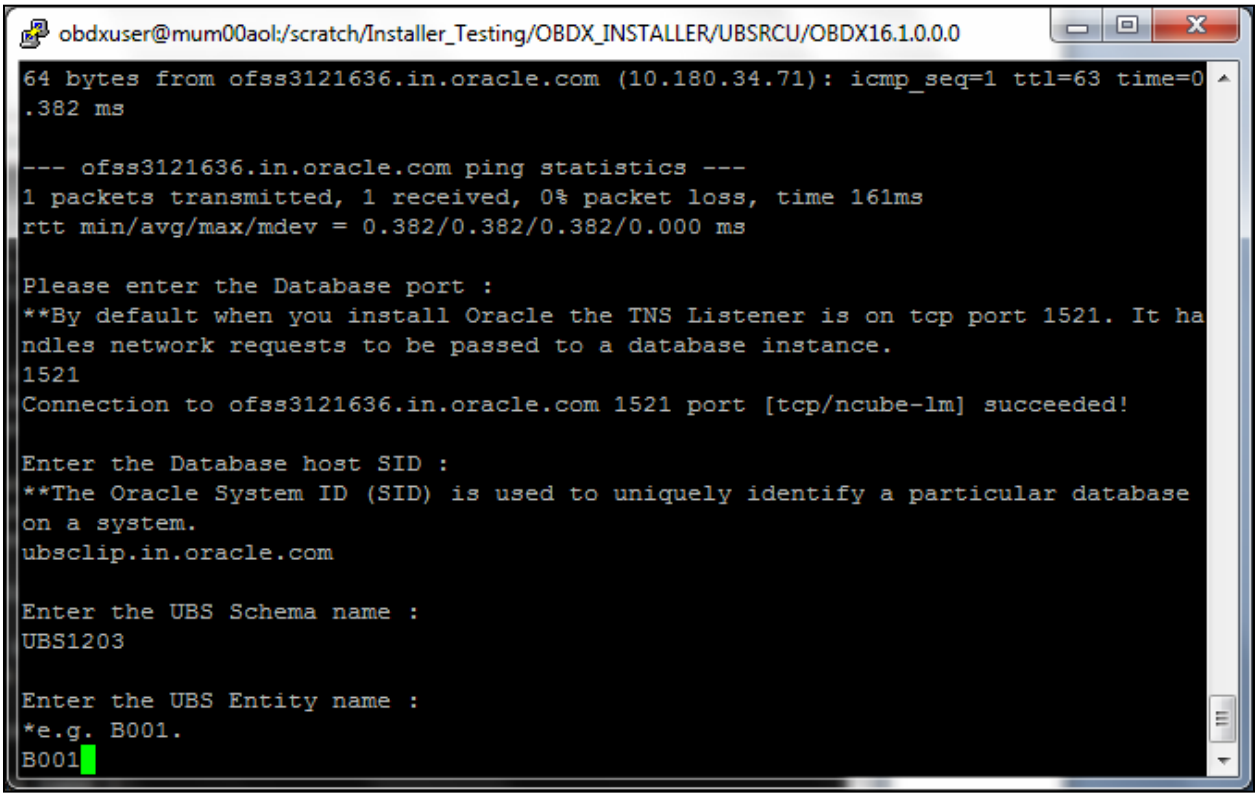
11. Enter database host SID



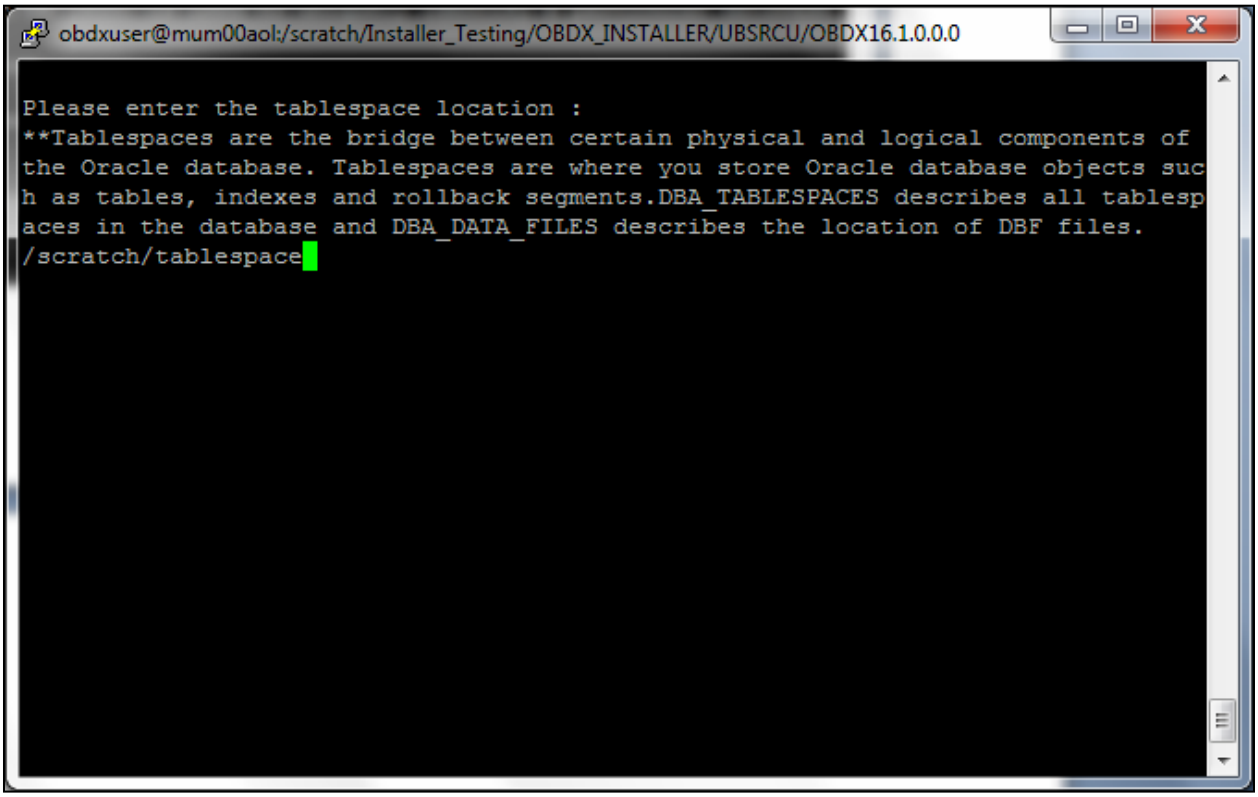
12. Enter UBS schema name



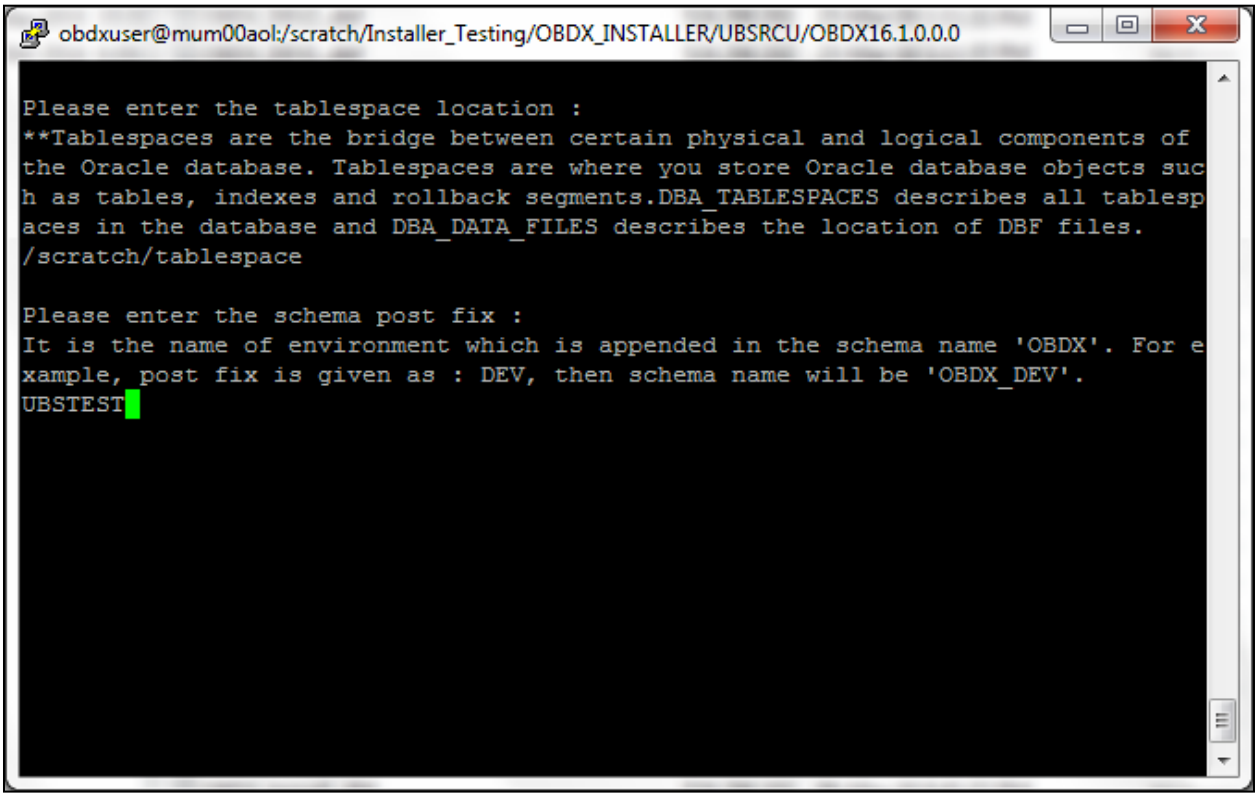
13. Provide UBS entity name



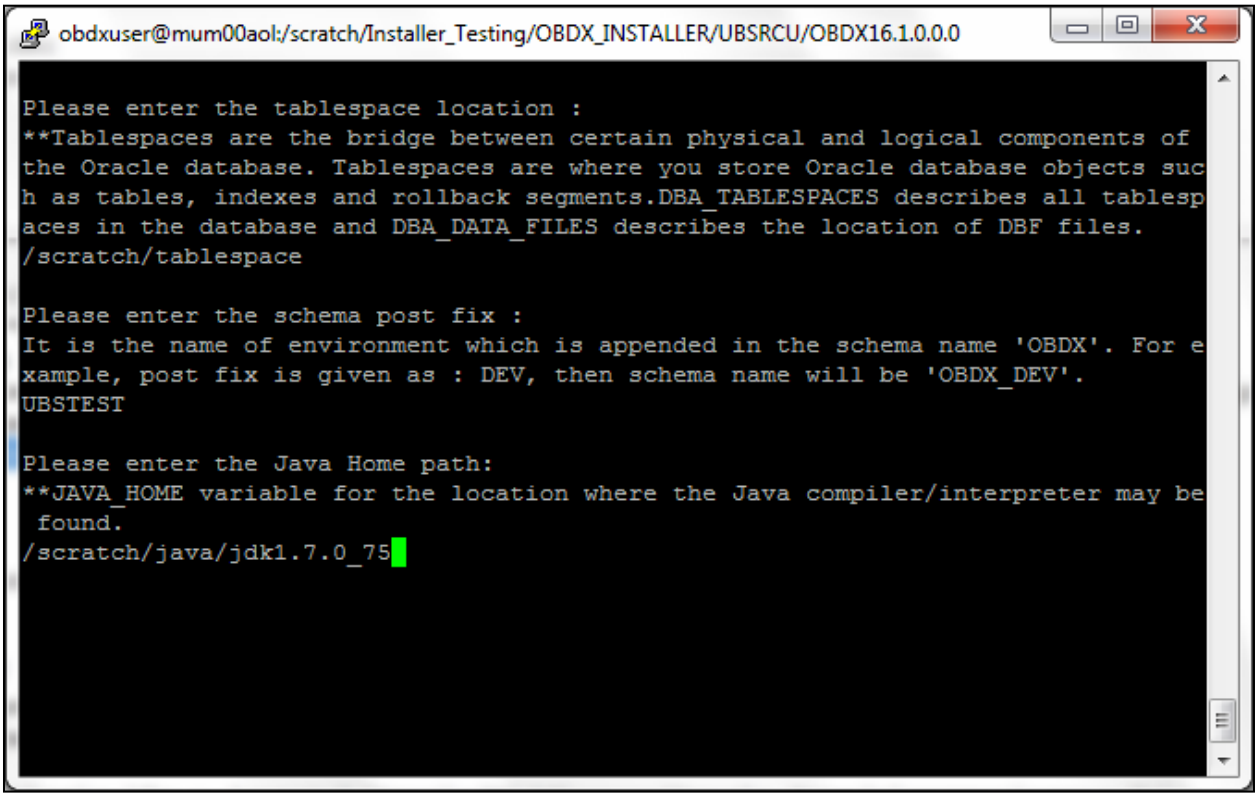
14. Enter tablespace location

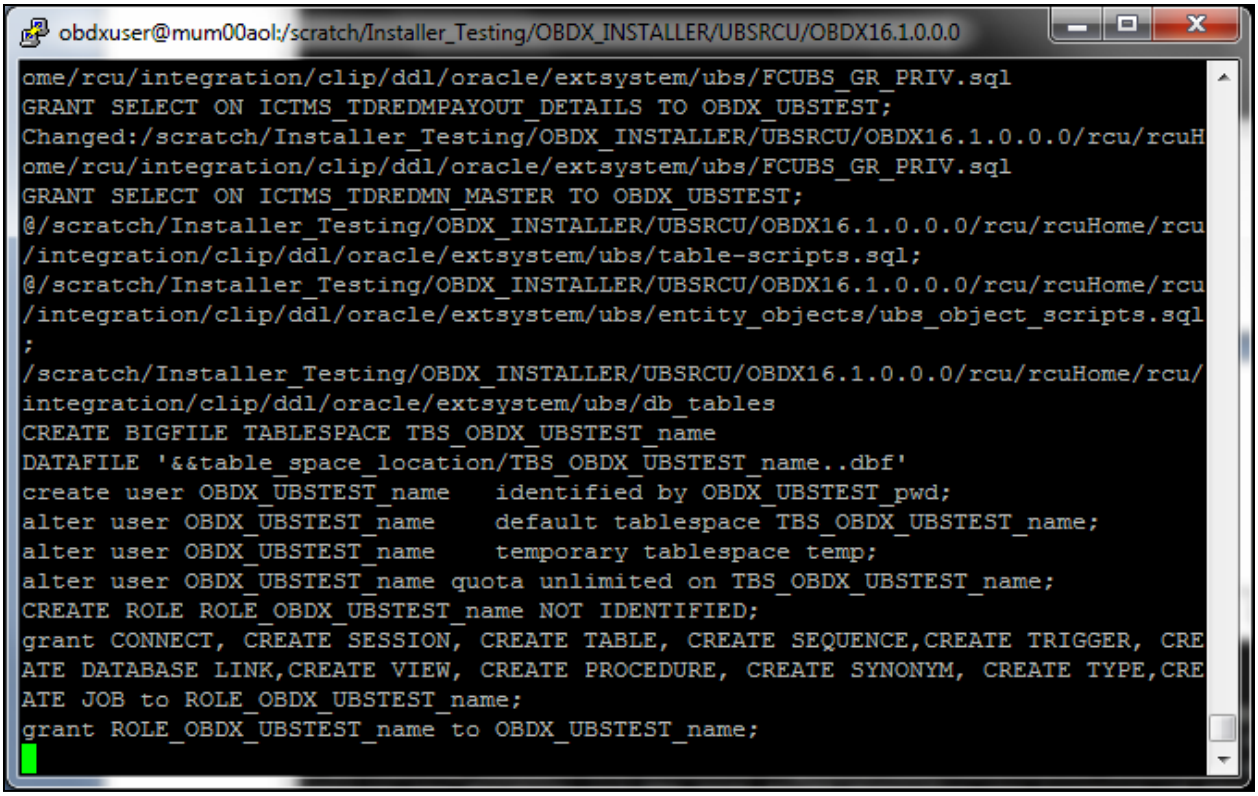


15. Enter postfix for schema

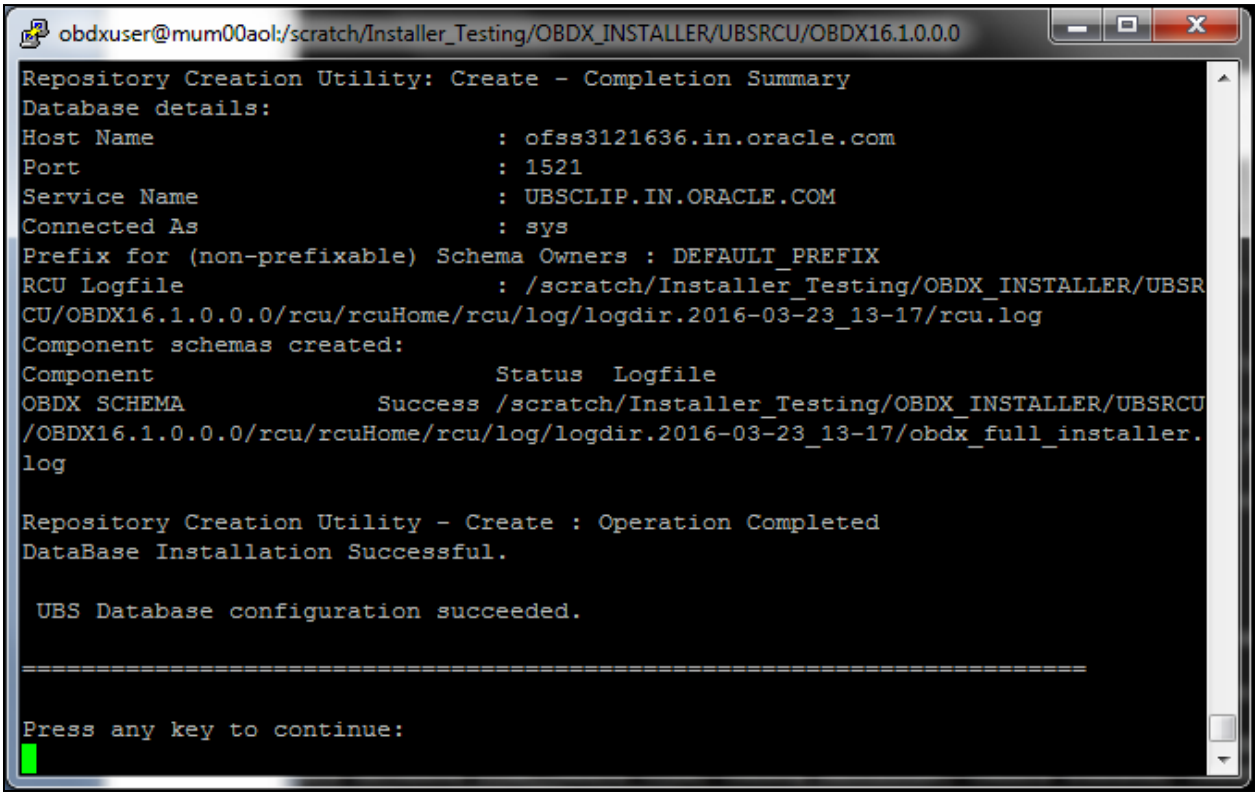


16. Enter JDK path

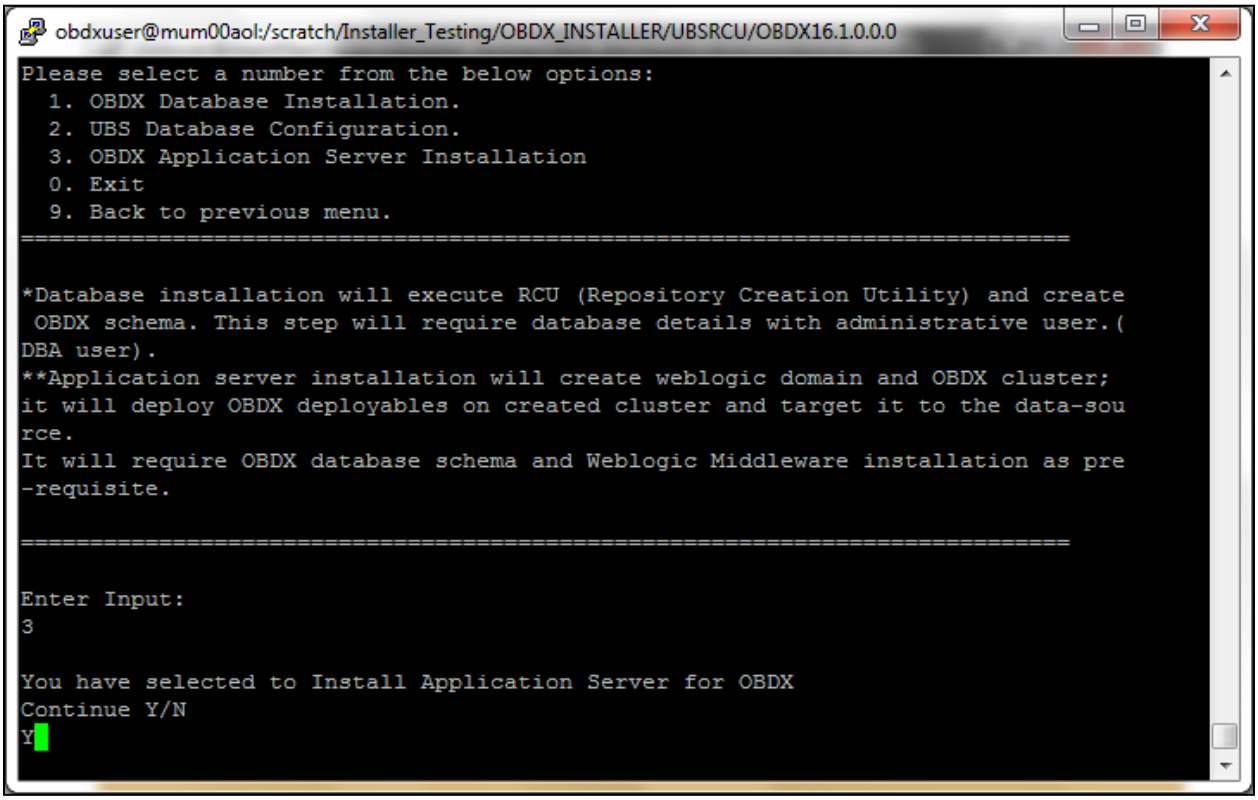




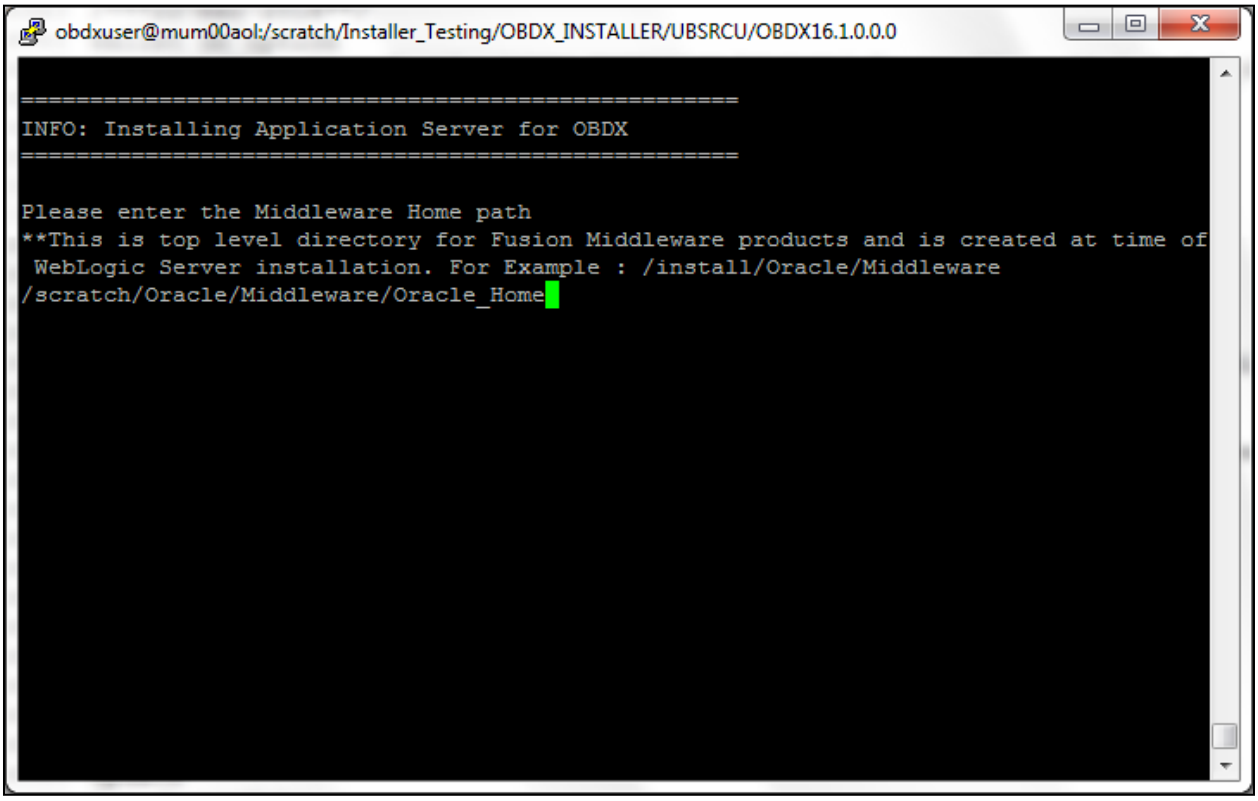

Ext Schema has been created and day 0 data has been seeded.



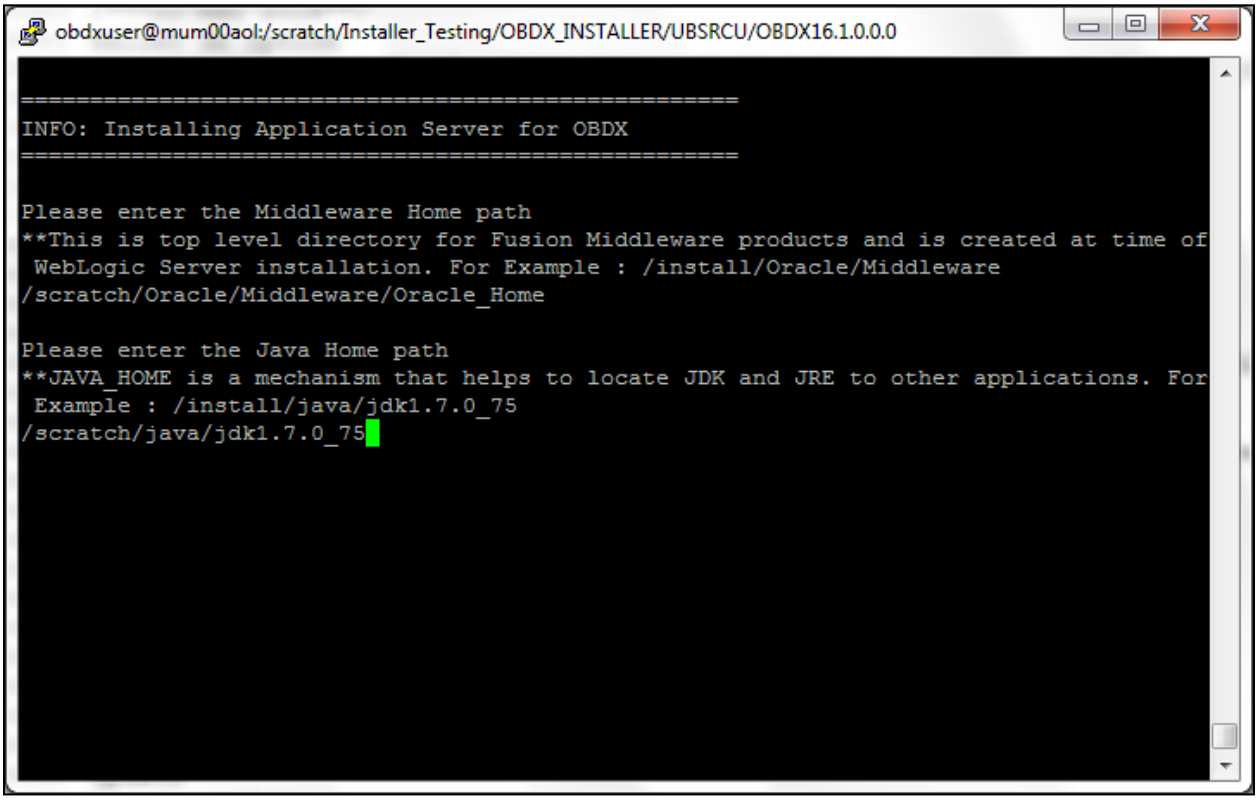
### 4.4.2 Application Server Installation (Recommended: Post Database Installation)



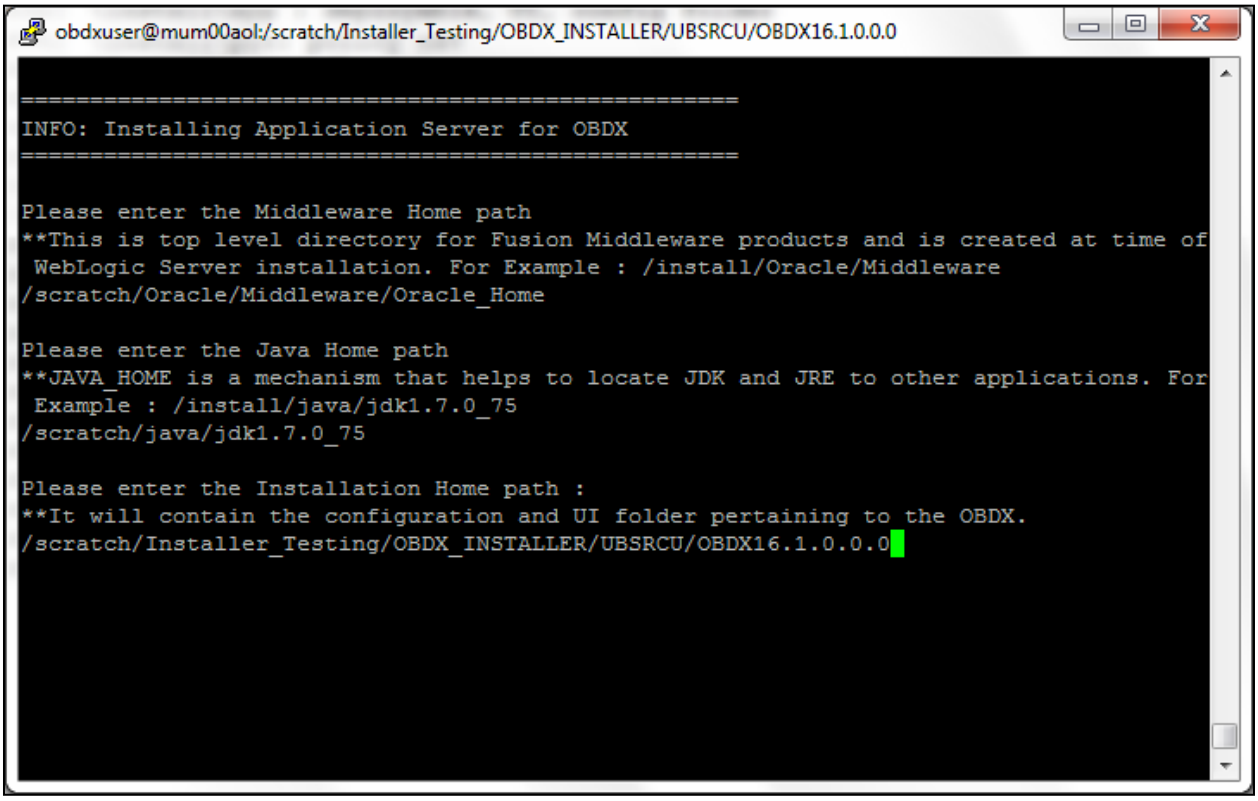
1. Enter Weblogic Middleware home path



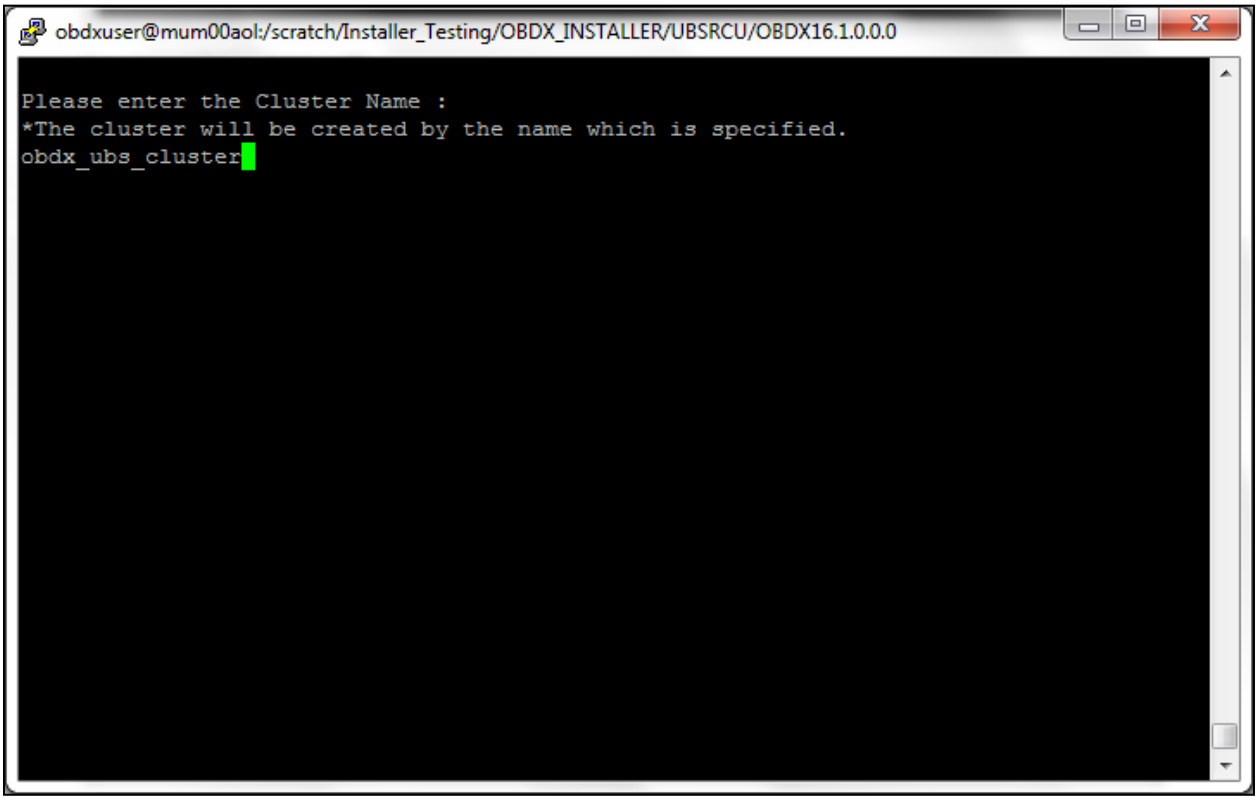
2. Enter JDK path



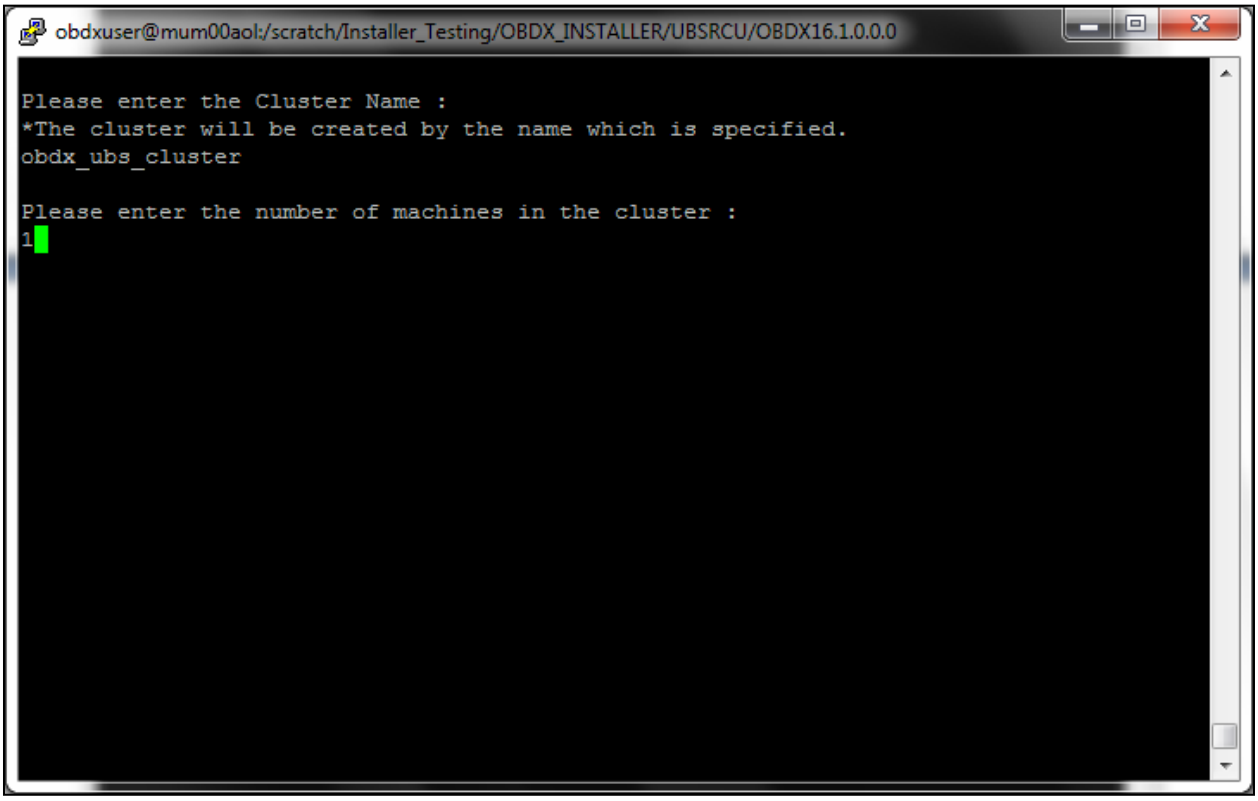
3. Provide Installation home path



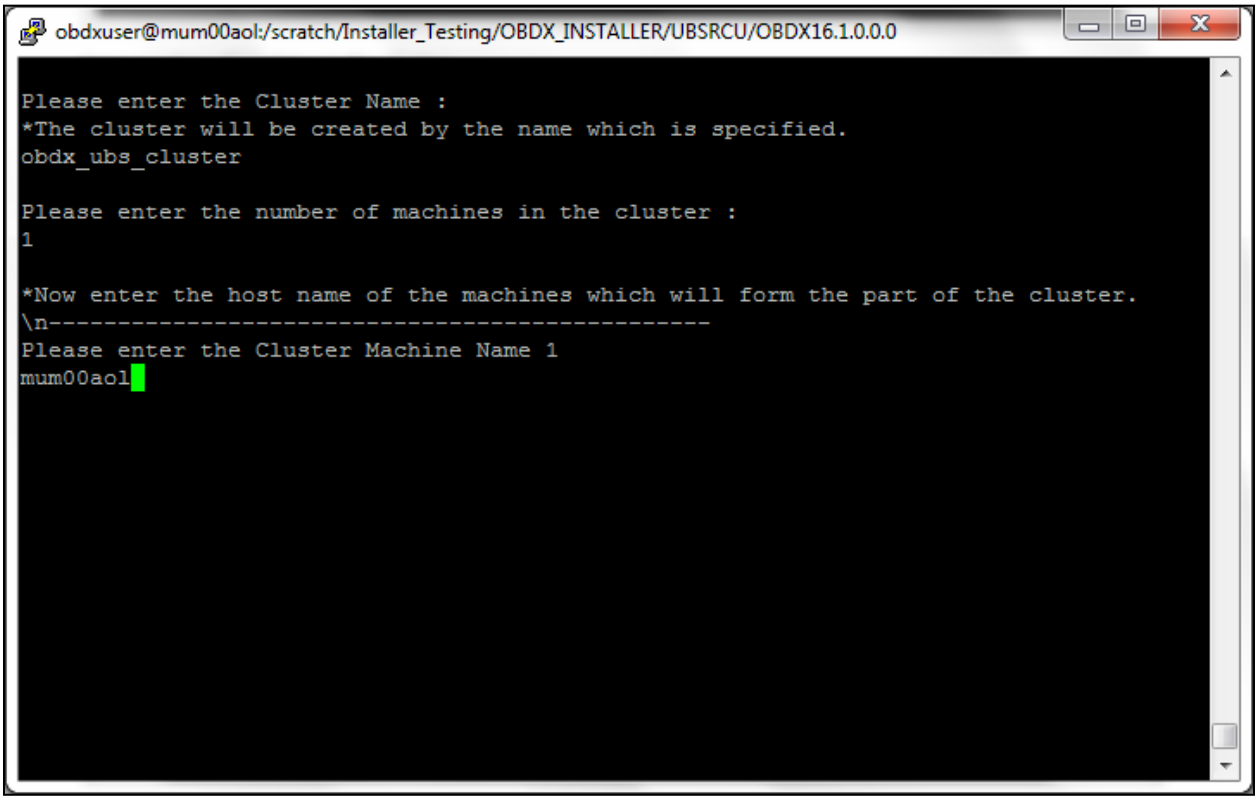
4. Enter cluster name



5. Enter number of machine in the cluster

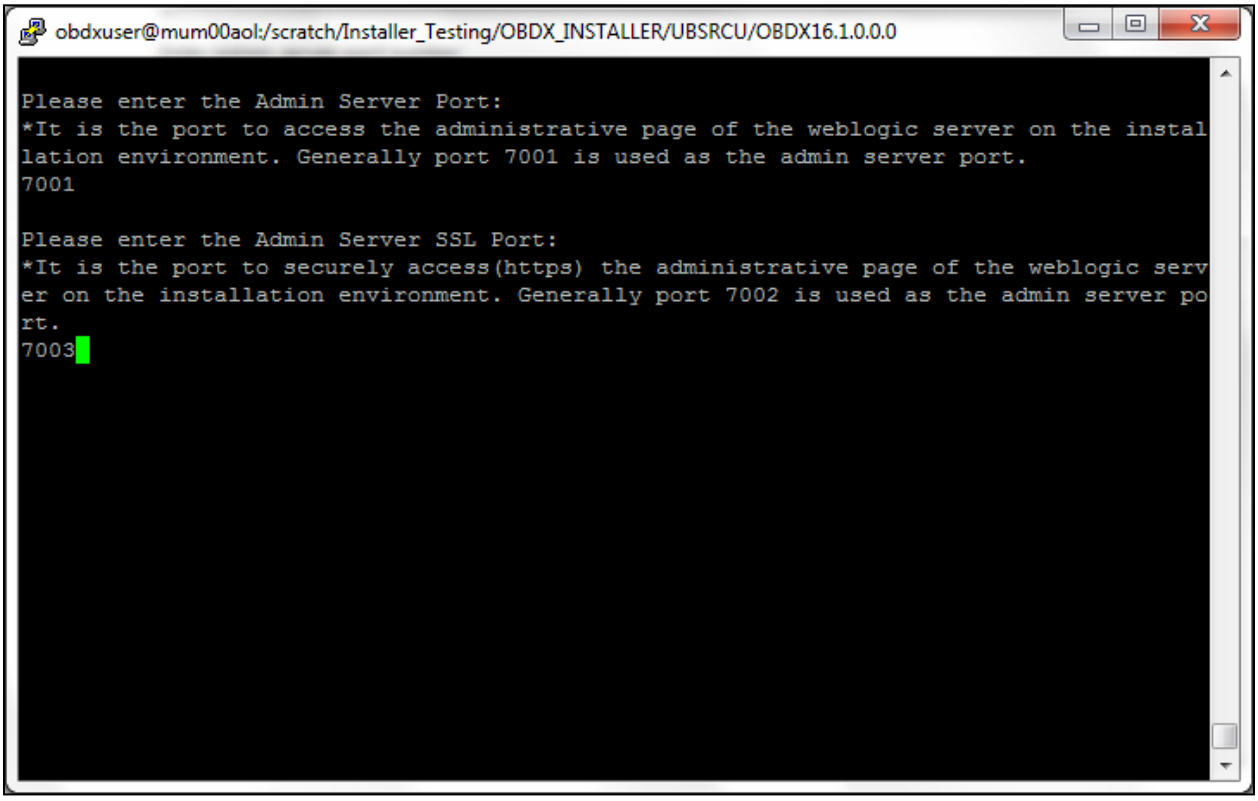


6. Enter host name of the machine

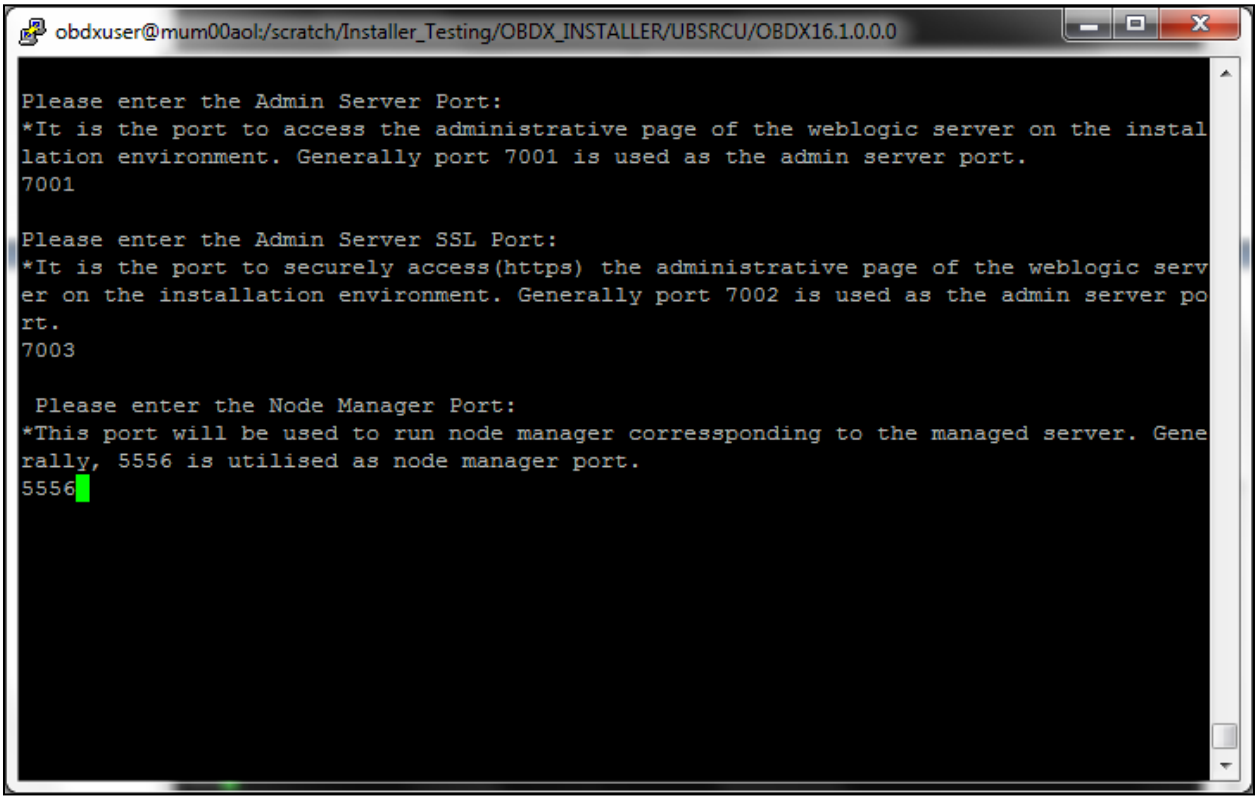


7. Enter Admin server port number

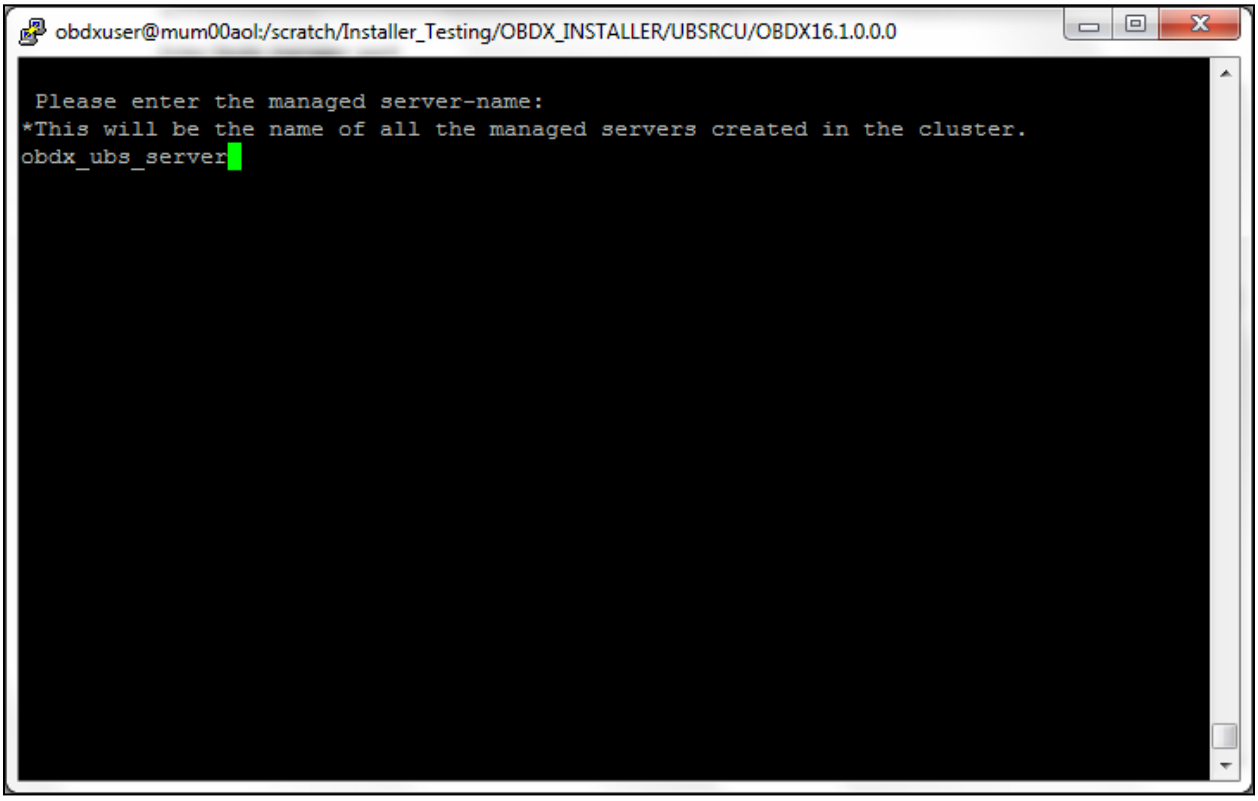
Admin server SSL port



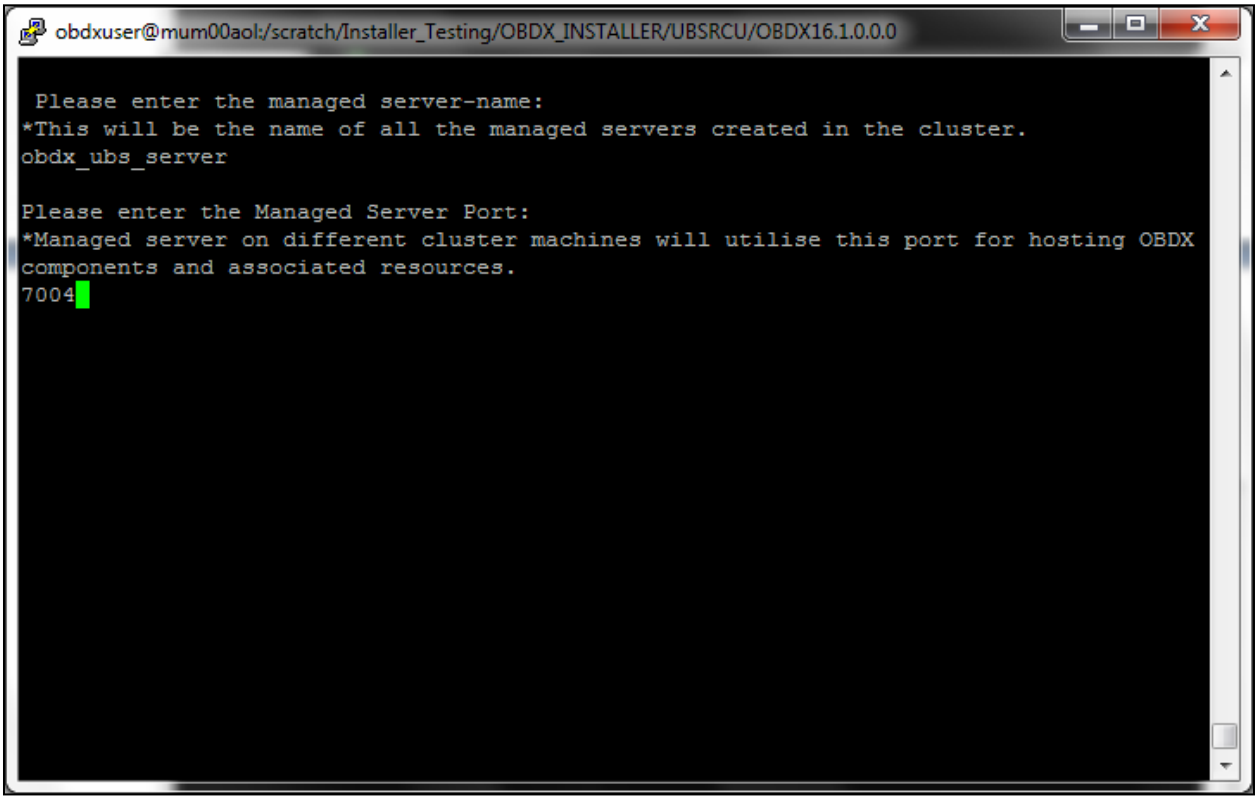
8. Enter Node manager port



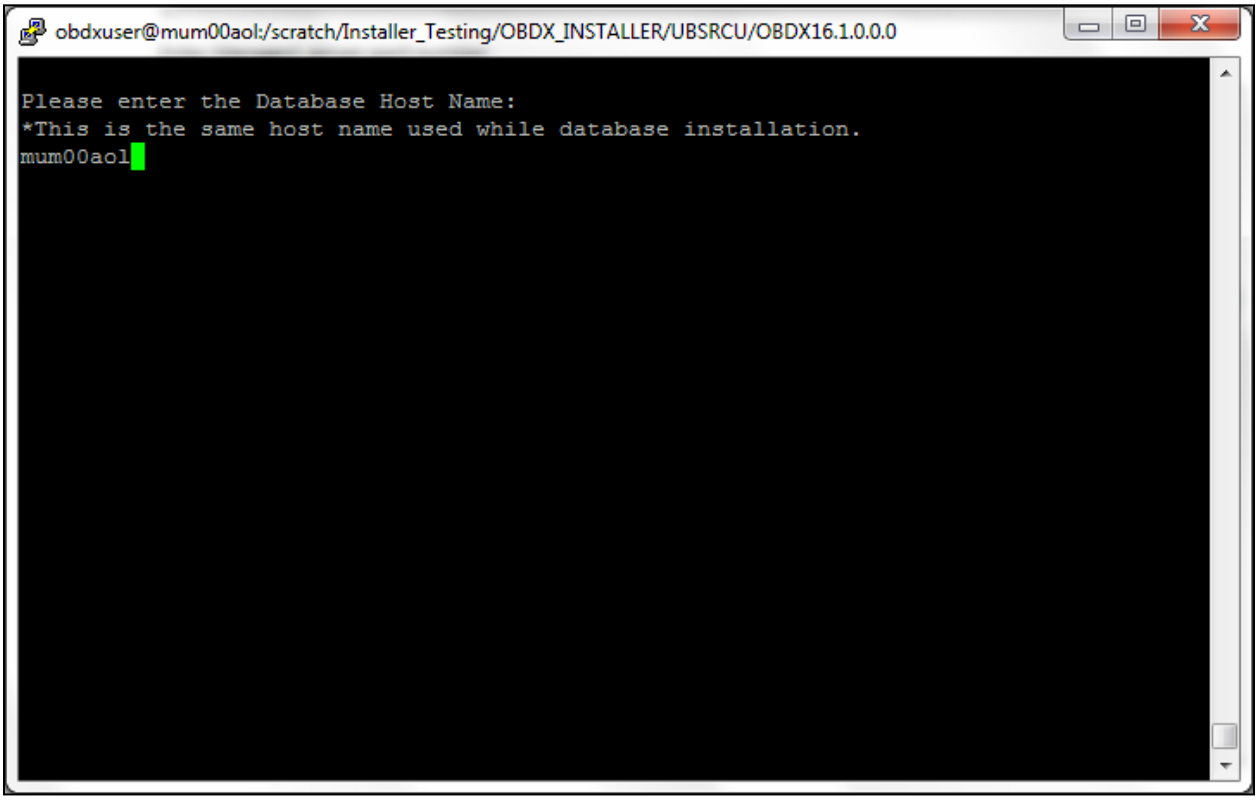
9. Enter Managed server name



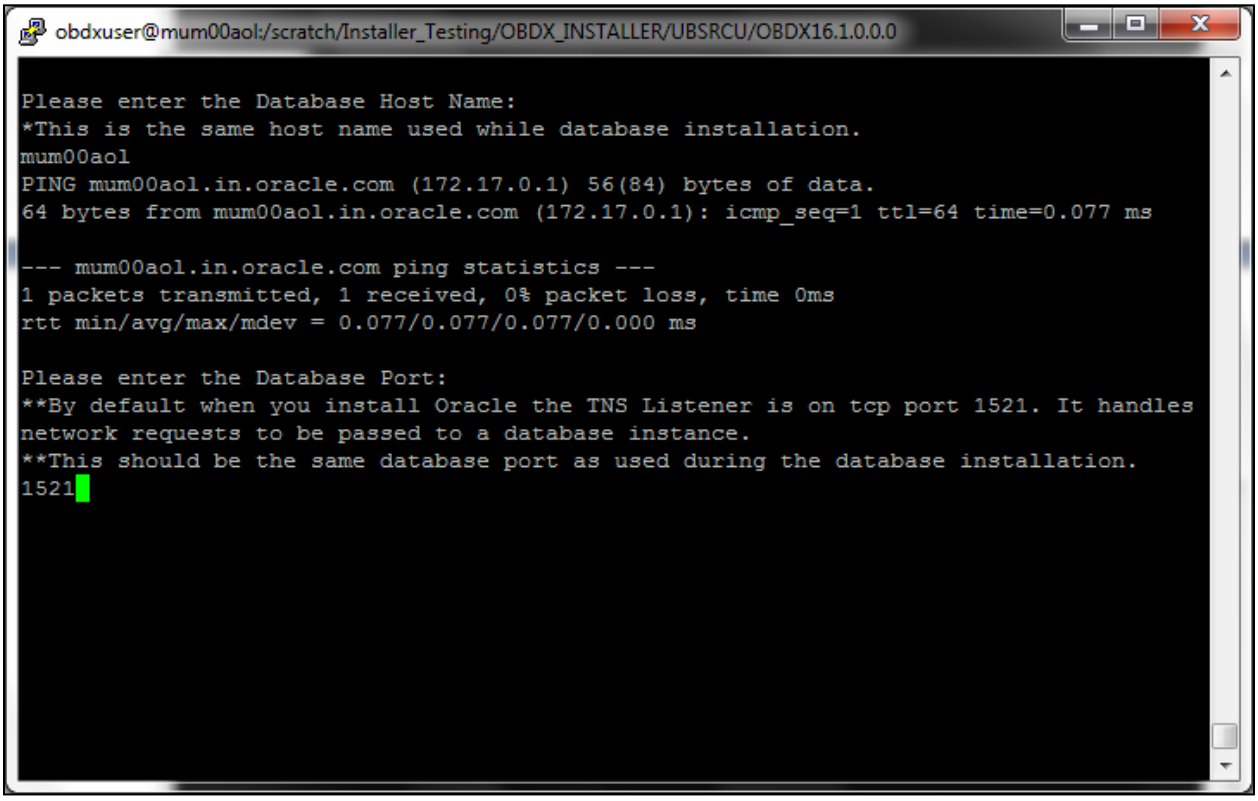
10. Enter Managed server port number



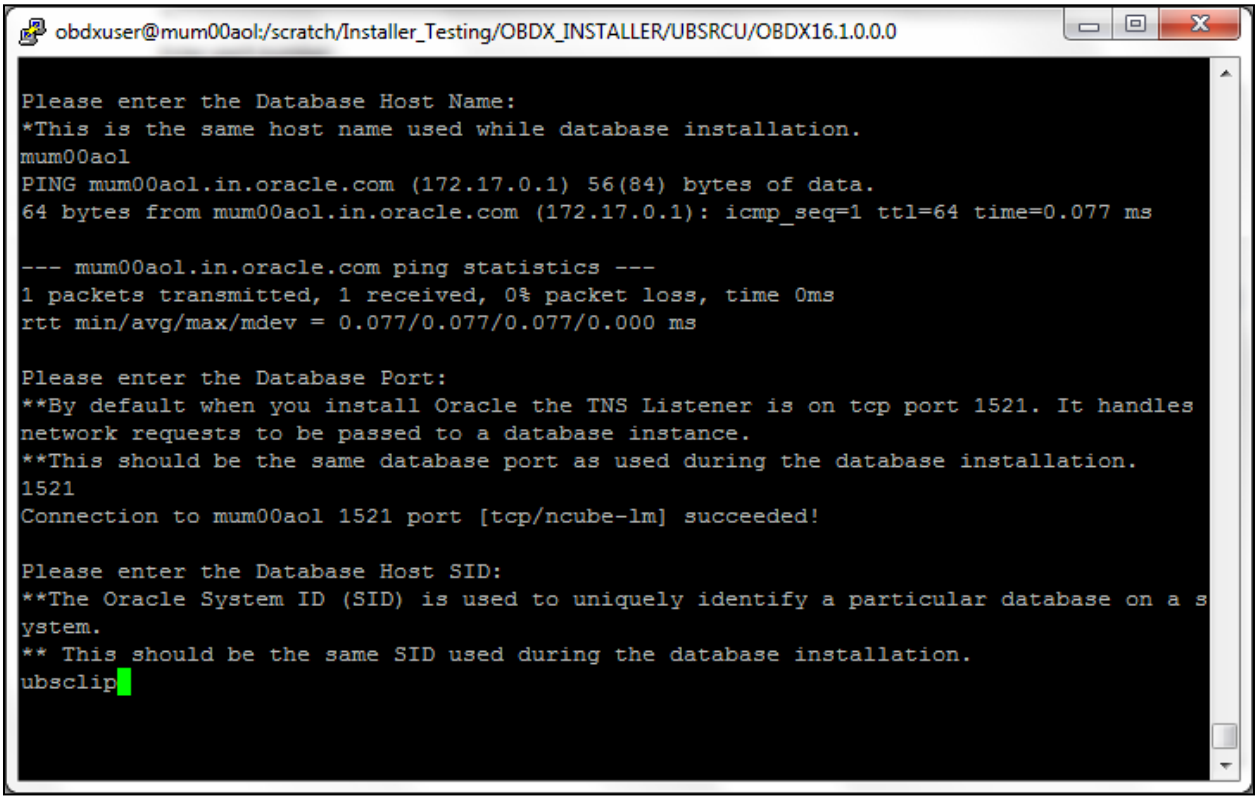
11. Provide OBDX database host name



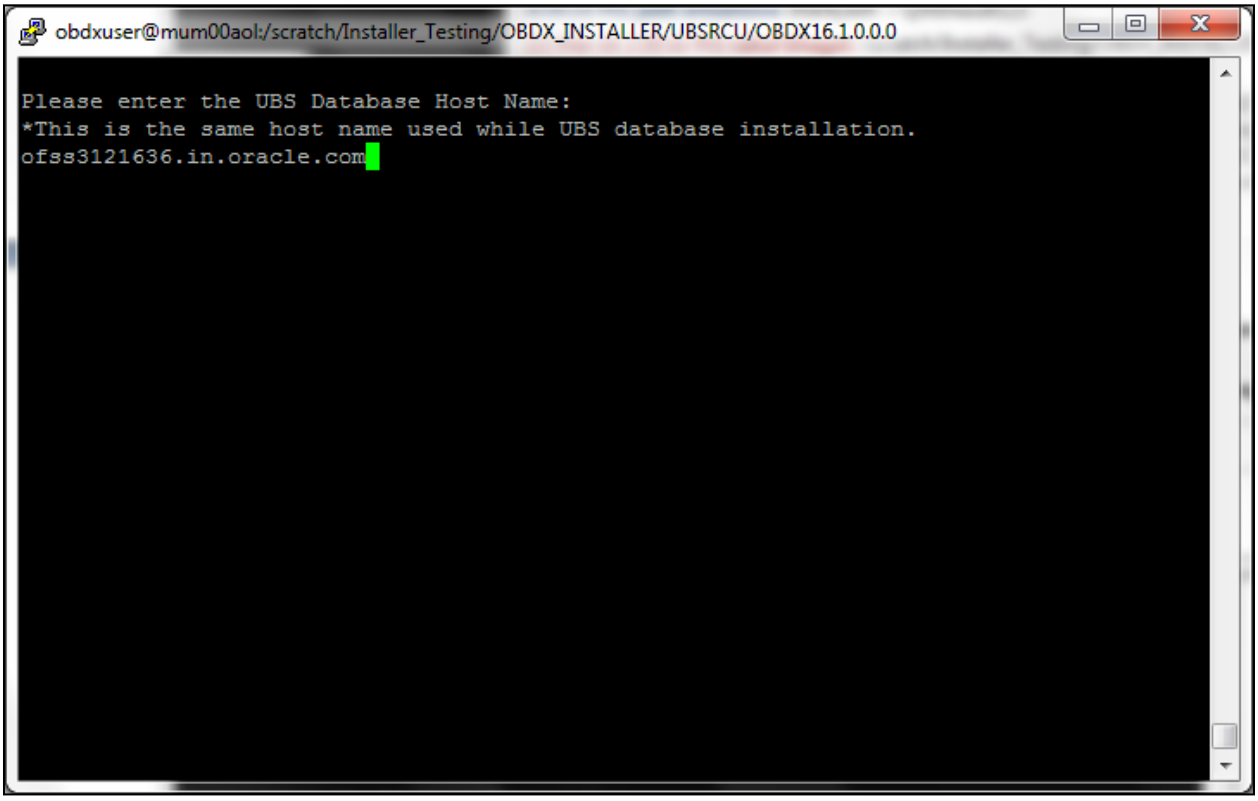
12. Enter port number



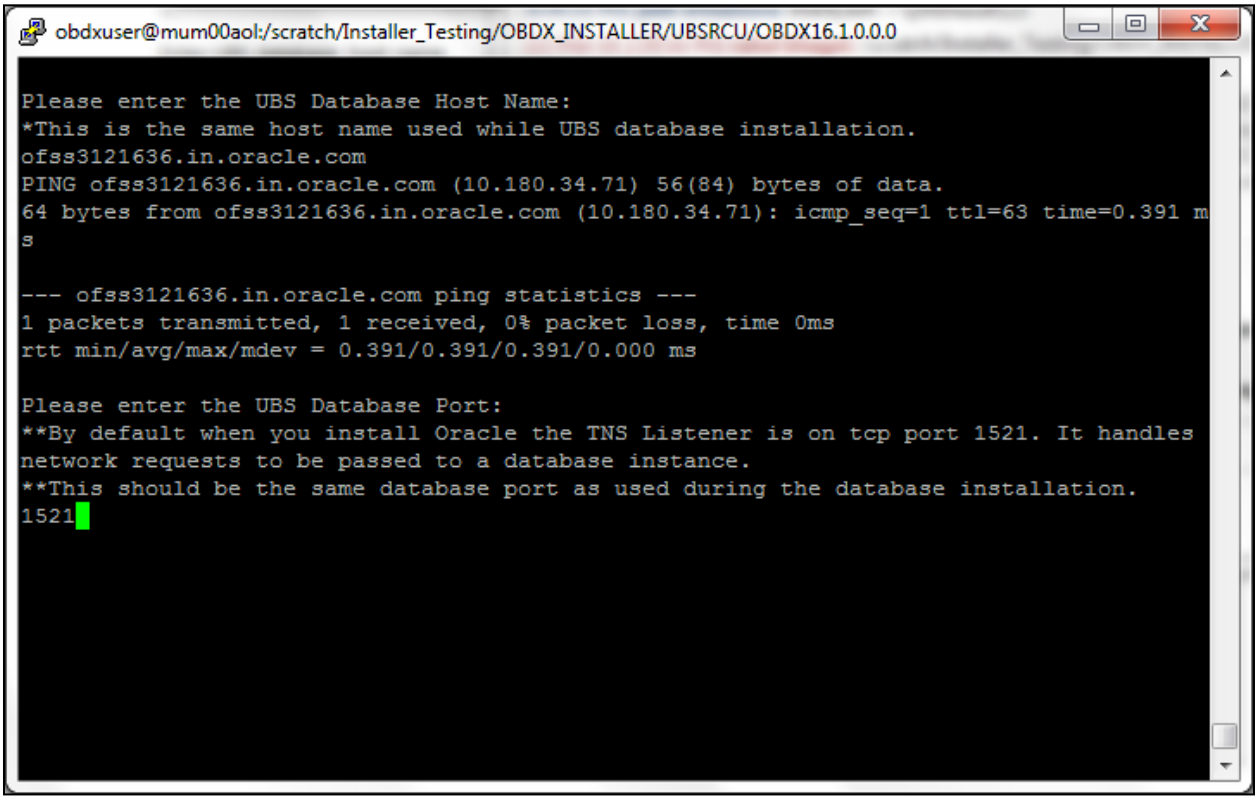
13. Enter SID


obdxuser@mum00aol:/scratch/Installer_Testing/OBDX_INSTALLER/UBSRCU/OBDX16.1.0.0.0
Please enter the Database Host Name:
*This is the same host name used while database installation.
mum00aol
PING mum00aol.in.oracle.com (172.17.0.1) 56(84) bytes of data.
64 bytes from mum00aol.in.oracle.com (172.17.0.1): icmp_seq=1 ttl=64 time=0.077 ms
--- mum00aol.in.oracle.com ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 0.077/0.077/0.077/0.000 ms
Please enter the Database Port:
**By default when you install Oracle the TNS Listener is on tcp port 1521. It handles network requests to be passed to a database instance.
**This should be the same database port as used during the database installation.
1521
Connection to mum00aol 1521 port [tcp/ncube-lm] succeeded!
Please enter the Database Host SID:
**The Oracle System ID (SID) is used to uniquely identify a particular database on a system.
** This should be the same SID used during the database installation.
ubsclip

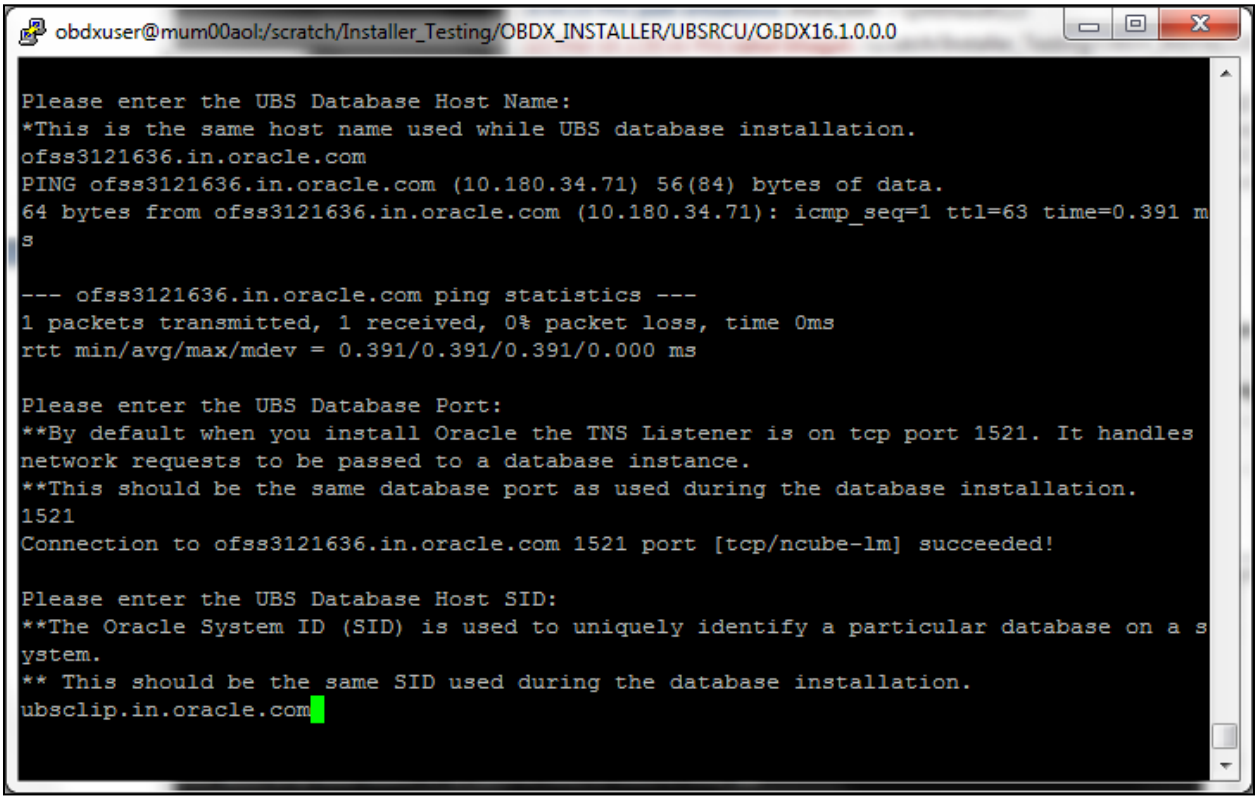
14. Enter UBS database host name



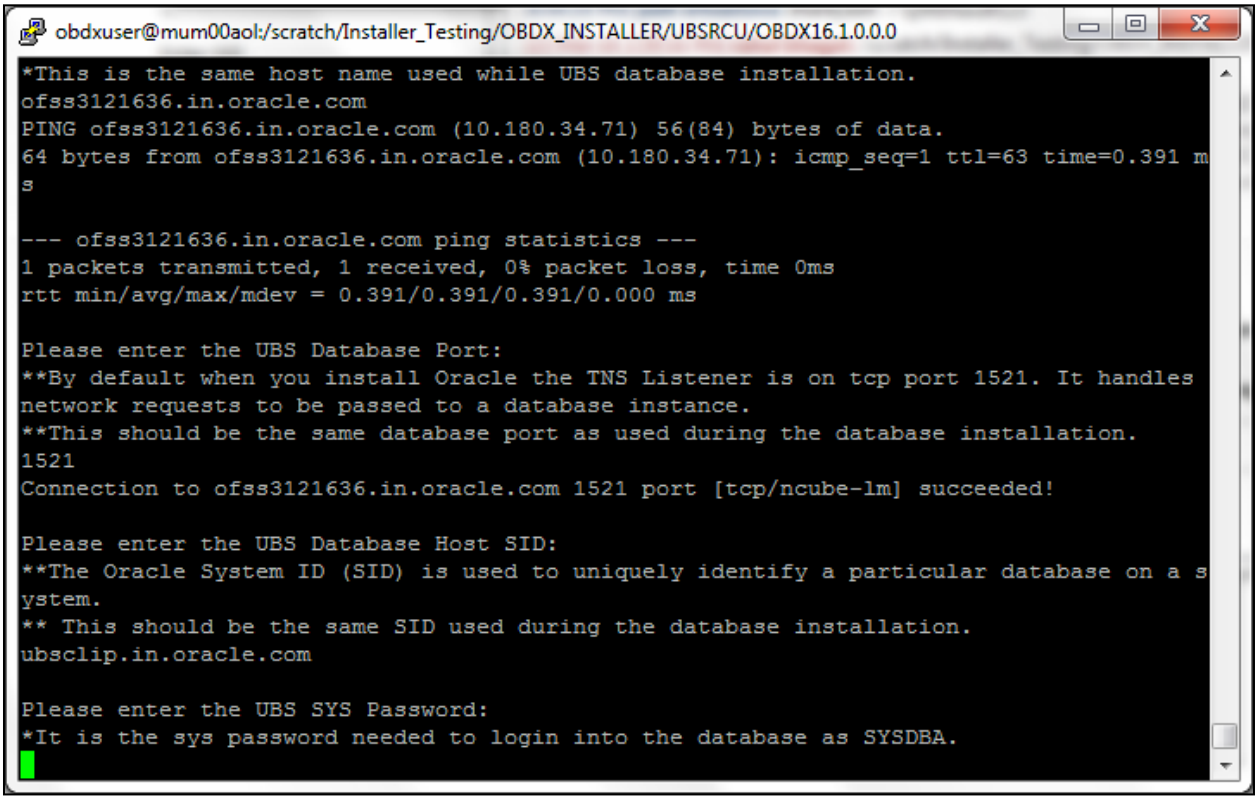
15. Enter port number



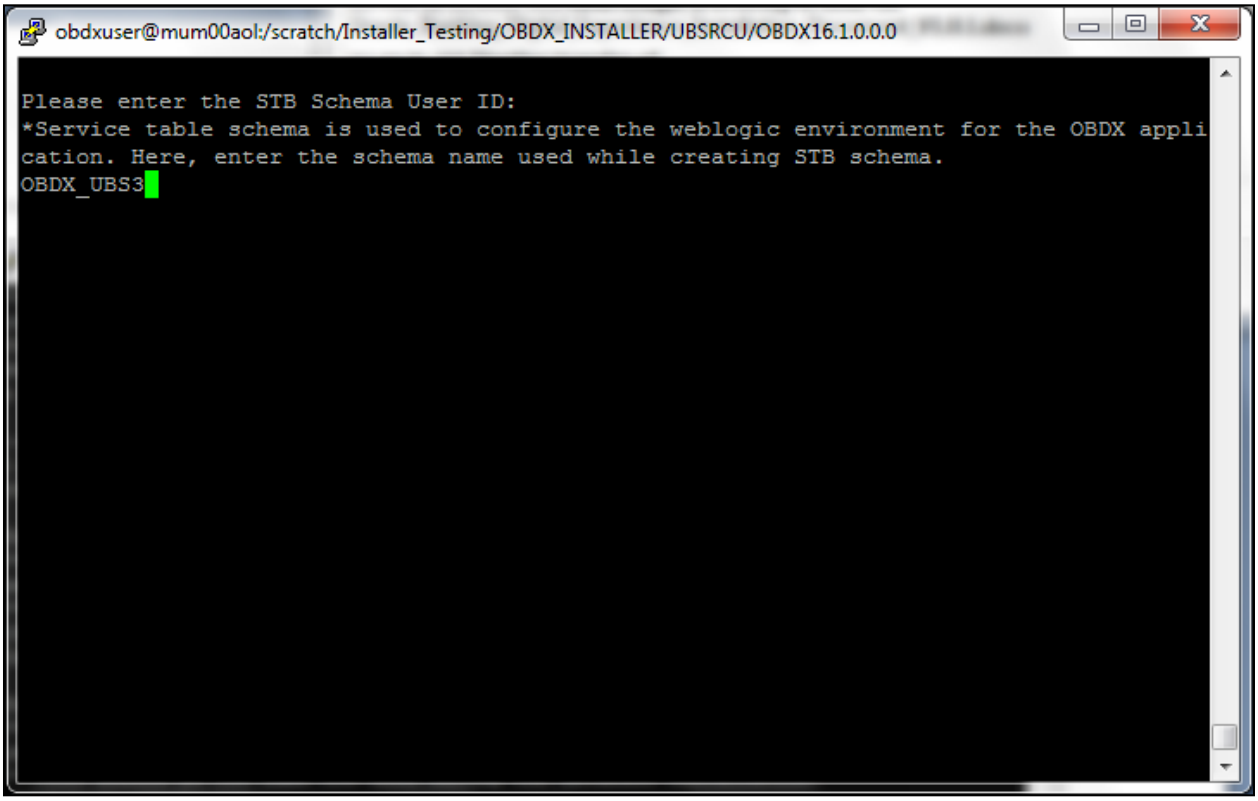
16. Enter SID


obdxuser@mum00aol:/scratch/Installer_Testing/OBDX_INSTALLER/UBSRCU/OBDX16.1.0.0.0
Please enter the UBS Database Host Name:
*This is the same host name used while UBS database installation.
ofss3121636.in.oracle.com
PING ofss3121636.in.oracle.com (10.180.34.71) 56(84) bytes of data.
64 bytes from ofss3121636.in.oracle.com (10.180.34.71): icmp_seq=1 ttl=63 time=0.391 m
s
--- ofss3121636.in.oracle.com ping statistics ---
1 packets transmitted, 1 received, 0% packet loss, time 0ms
rtt min/avg/max/mdev = 0.391/0.391/0.391/0.000 ms
Please enter the UBS Database Port:
**By default when you install Oracle the TNS Listener is on tcp port 1521. It handles
network requests to be passed to a database instance.
**This should be the same database port as used during the database installation.
1521
Connection to ofss3121636.in.oracle.com 1521 port [tcp/ncube-lm] succeeded!
Please enter the UBS Database Host SID:
**The Oracle System ID (SID) is used to uniquely identify a particular database on a s
ystem.
** This should be the same SID used during the database installation.
ubsclip.in.oracle.com

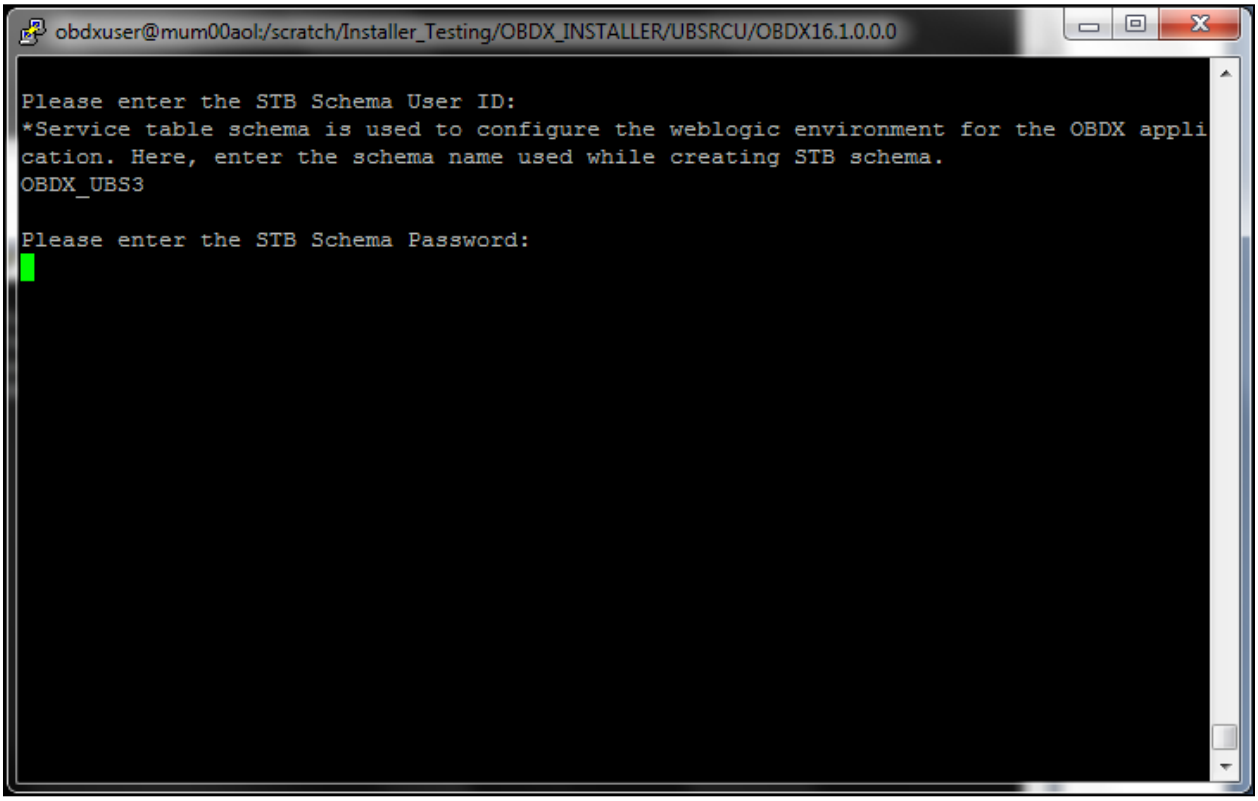
17. Enter UBS sys password



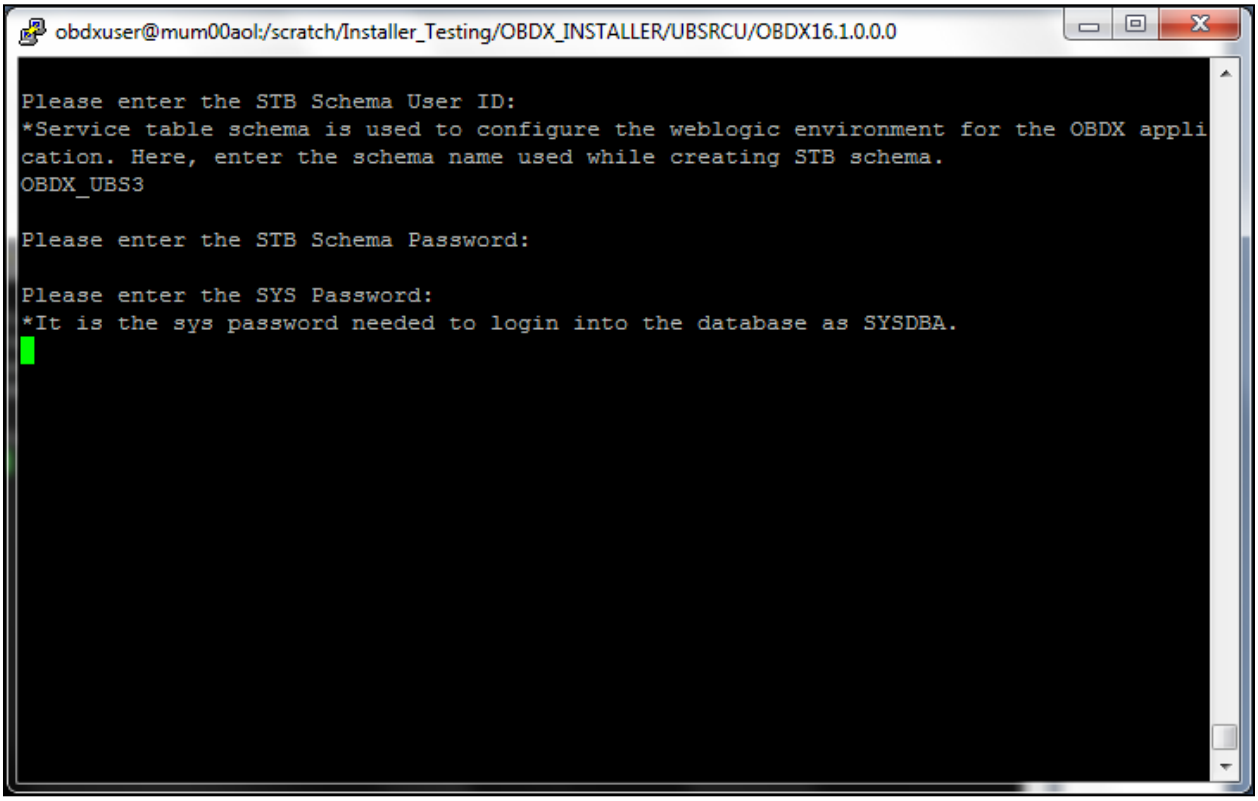
18. Enter STB schema user id



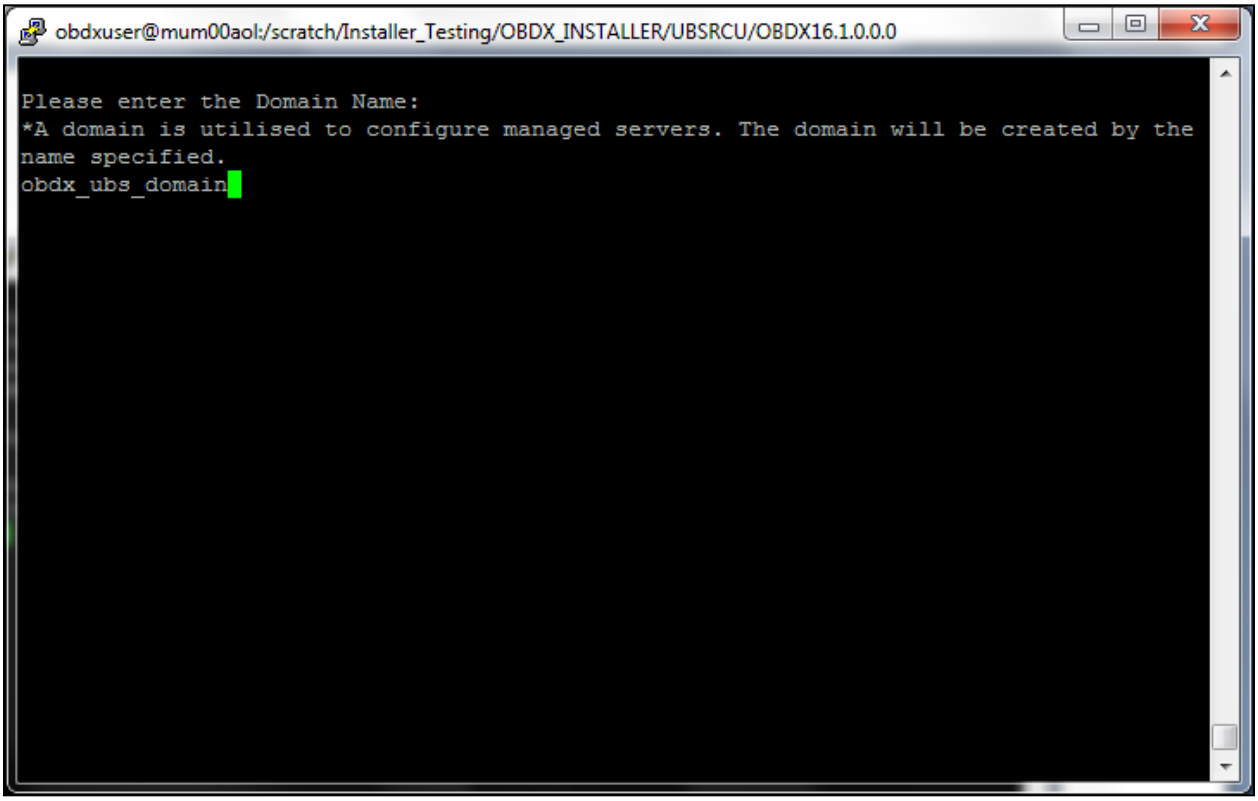
19. Enter STB password



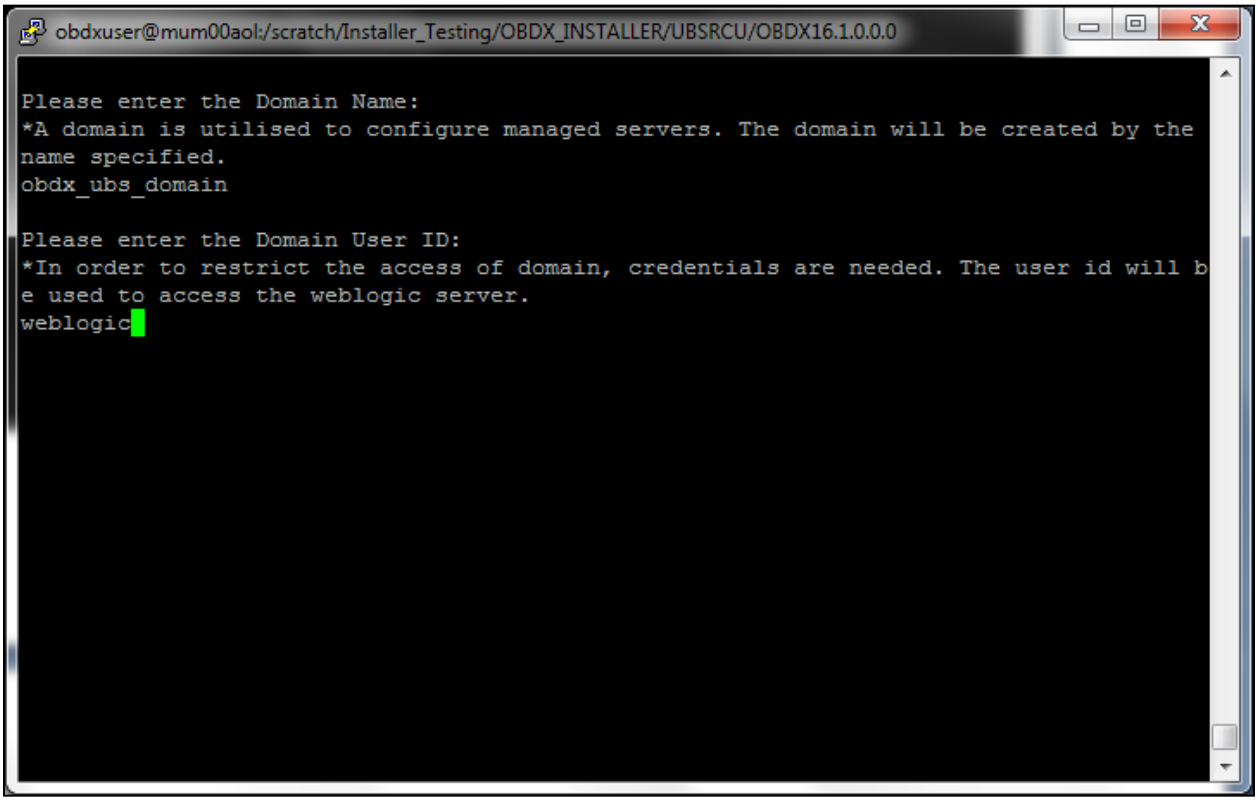
20. Enter sys password



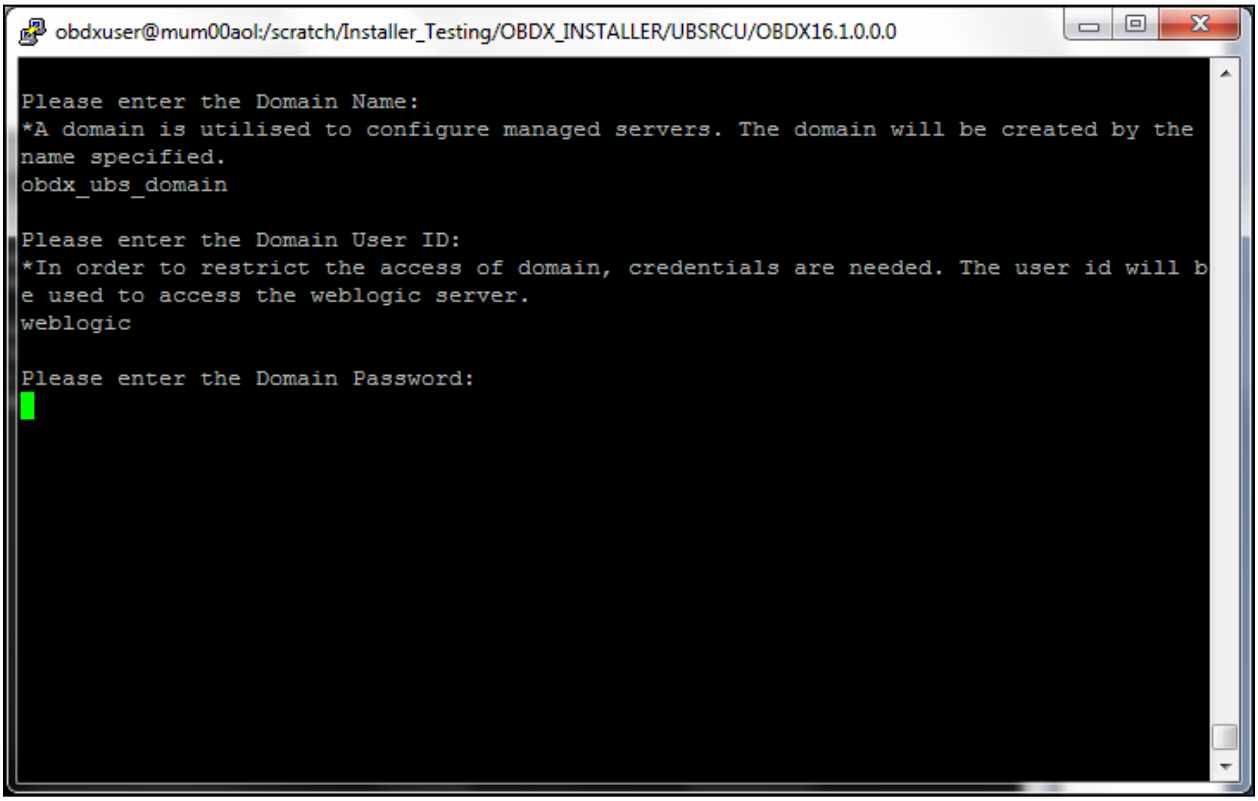
21. Enter domain name



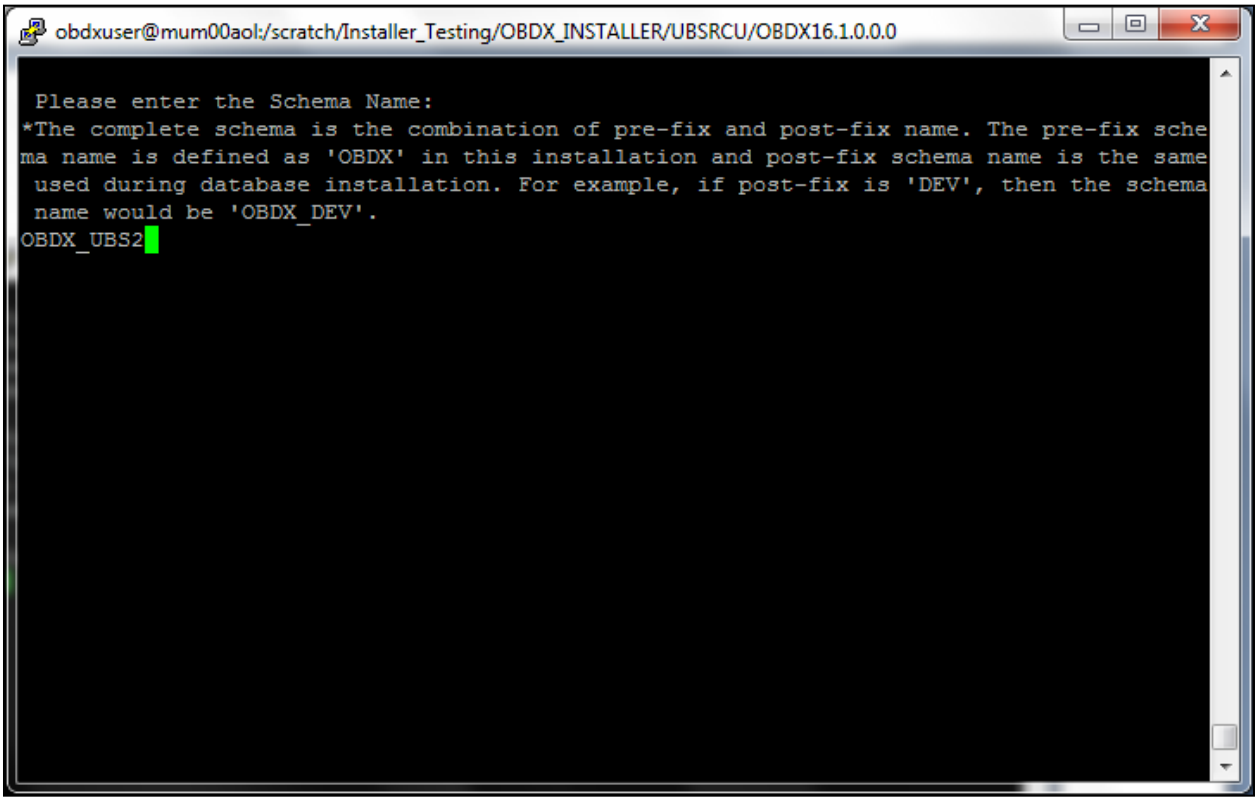
22. Enter domain user id



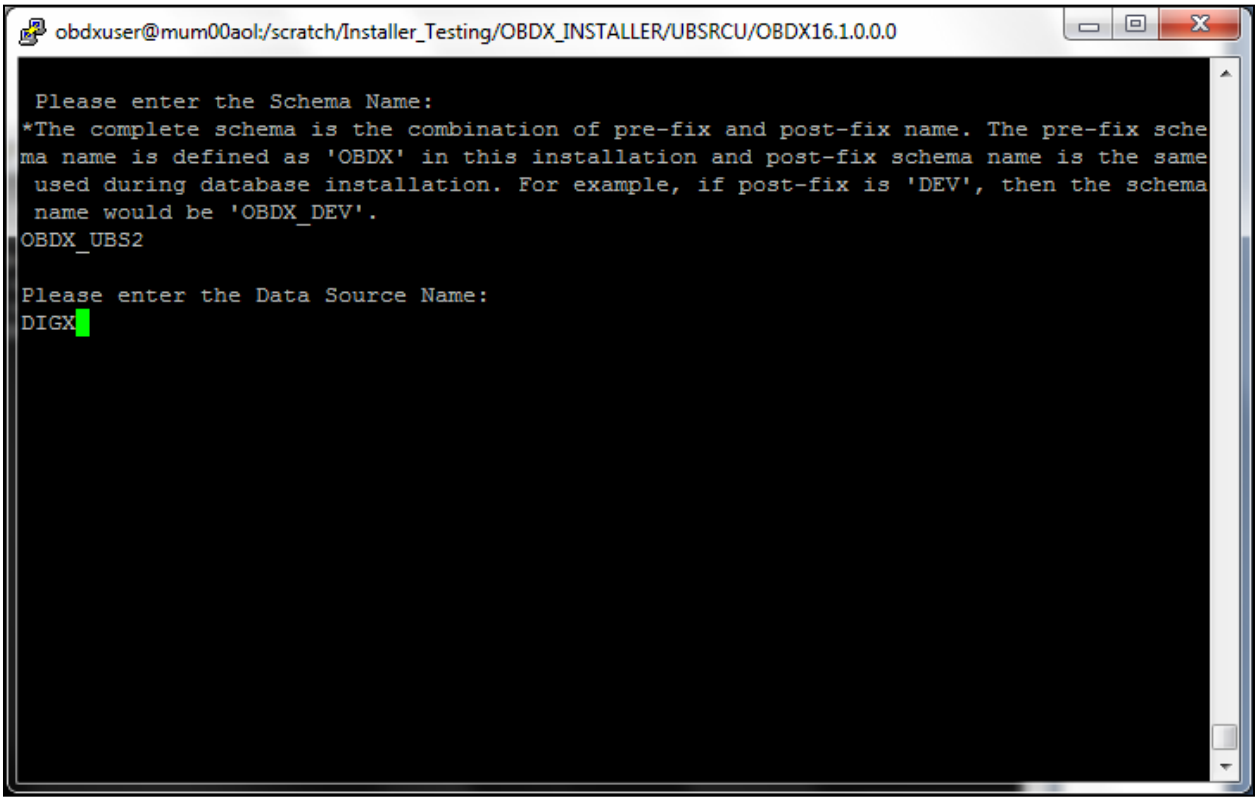
23. Enter domain password



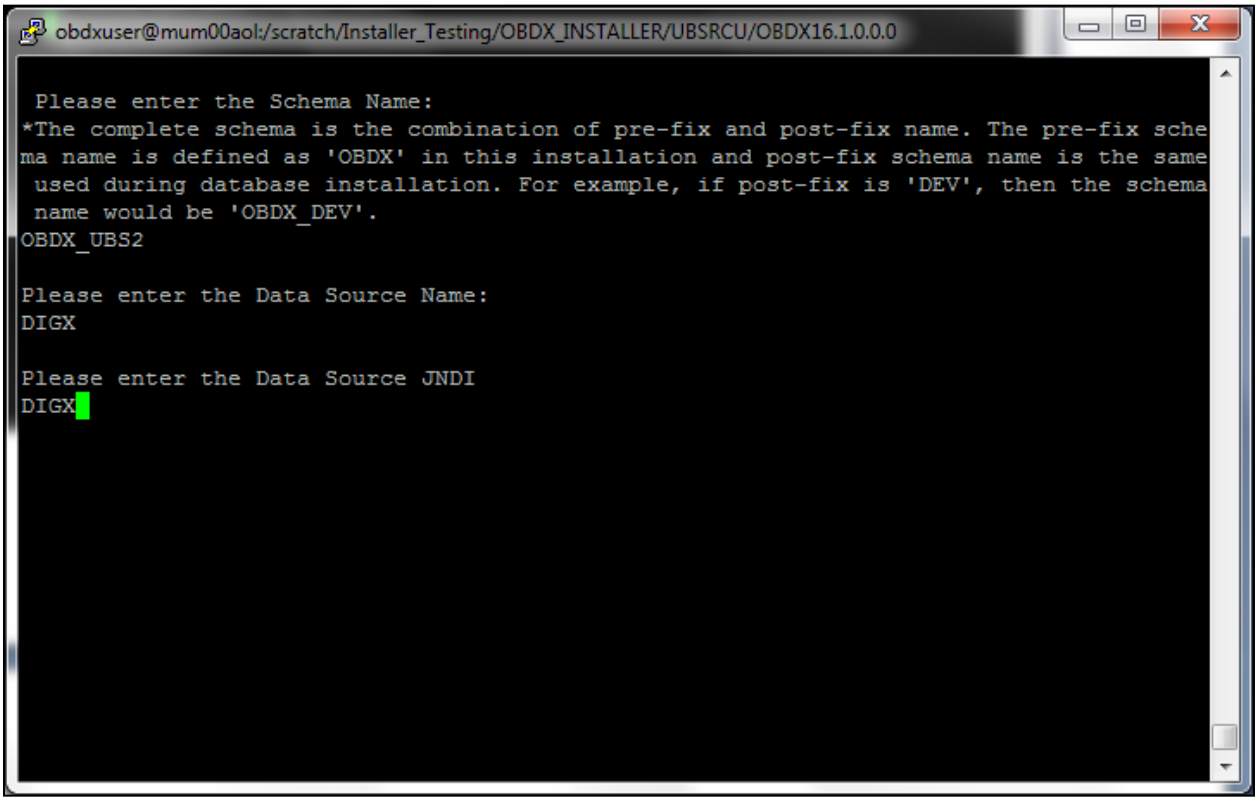
24. Enter OBDX schema name



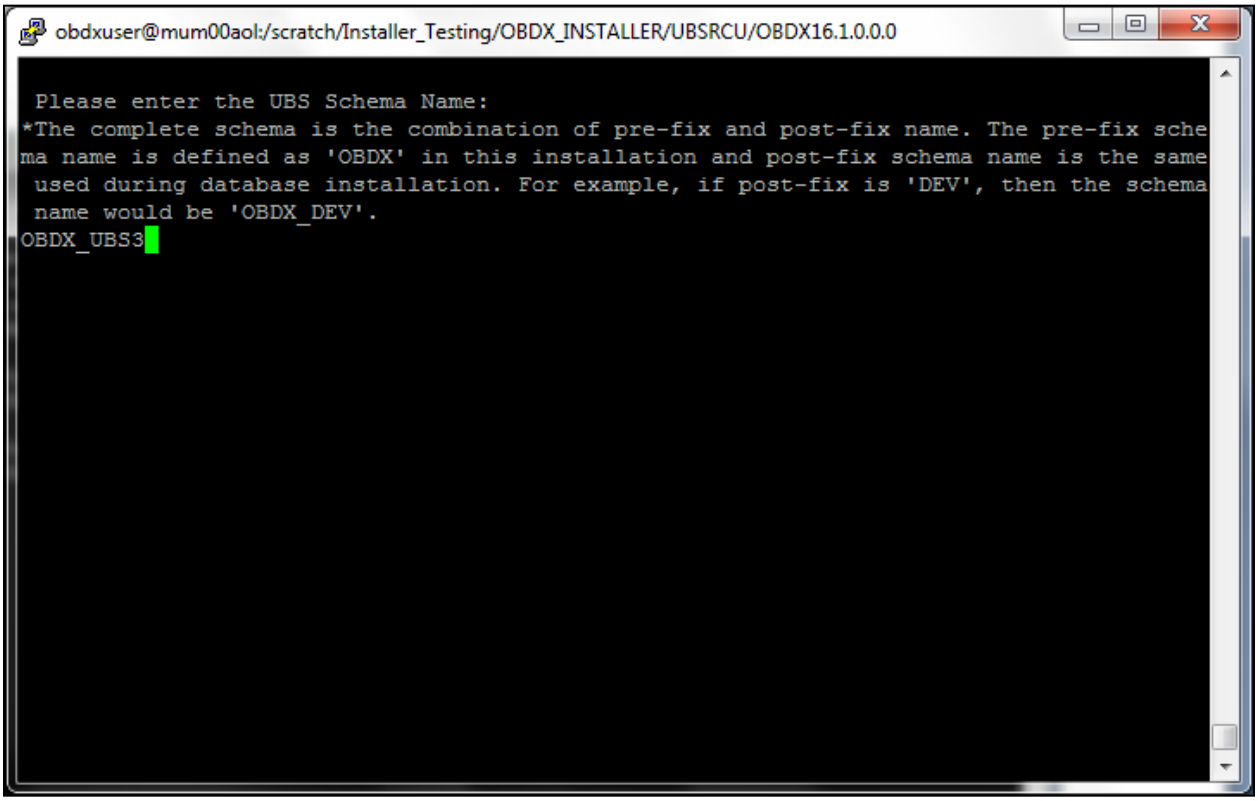
25. Enter OBDX datasource name



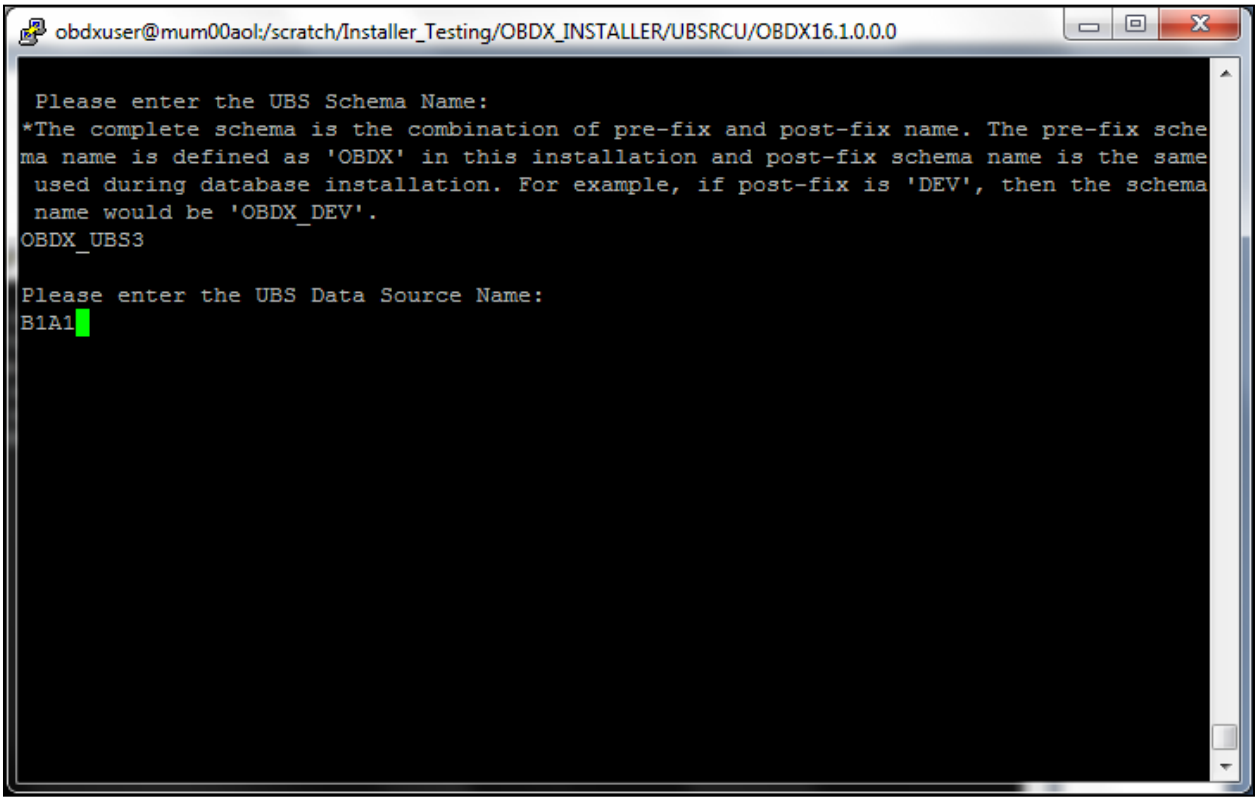
26. Enter JNDI name



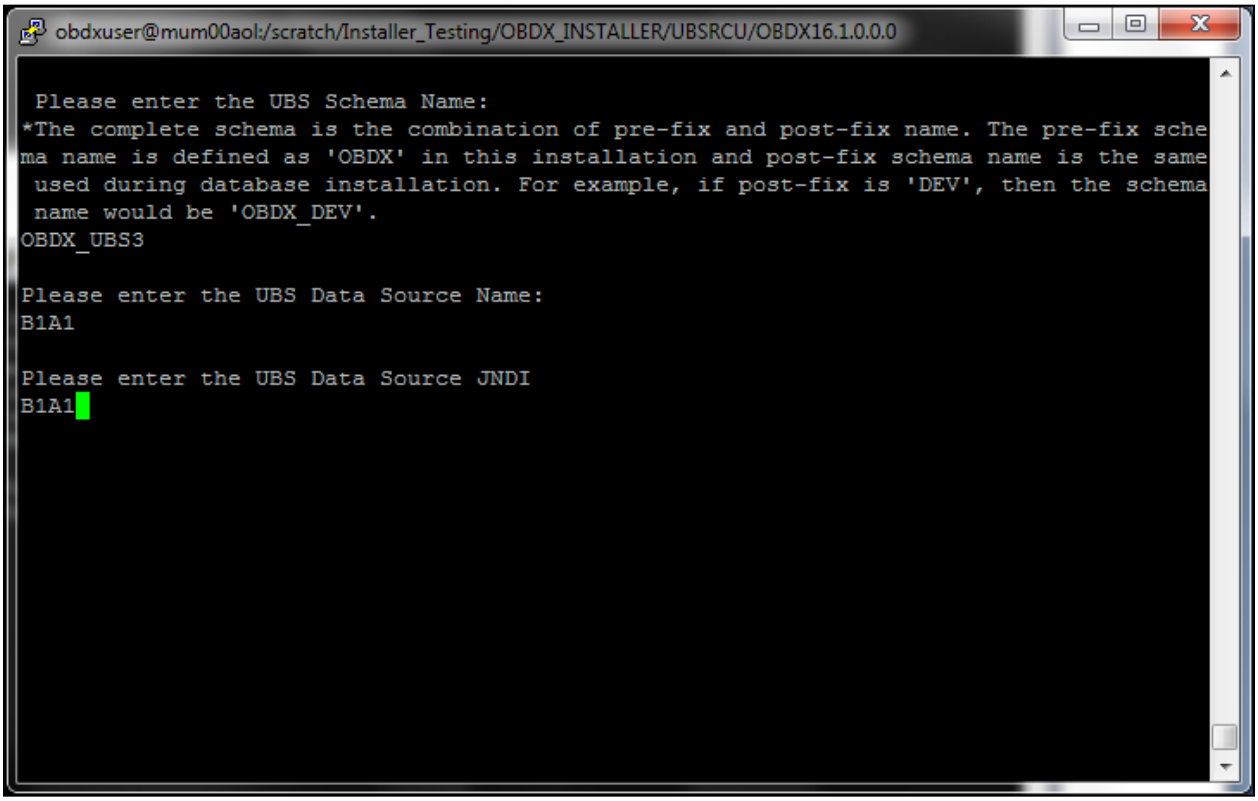
27. Enter Ext UBS schema name



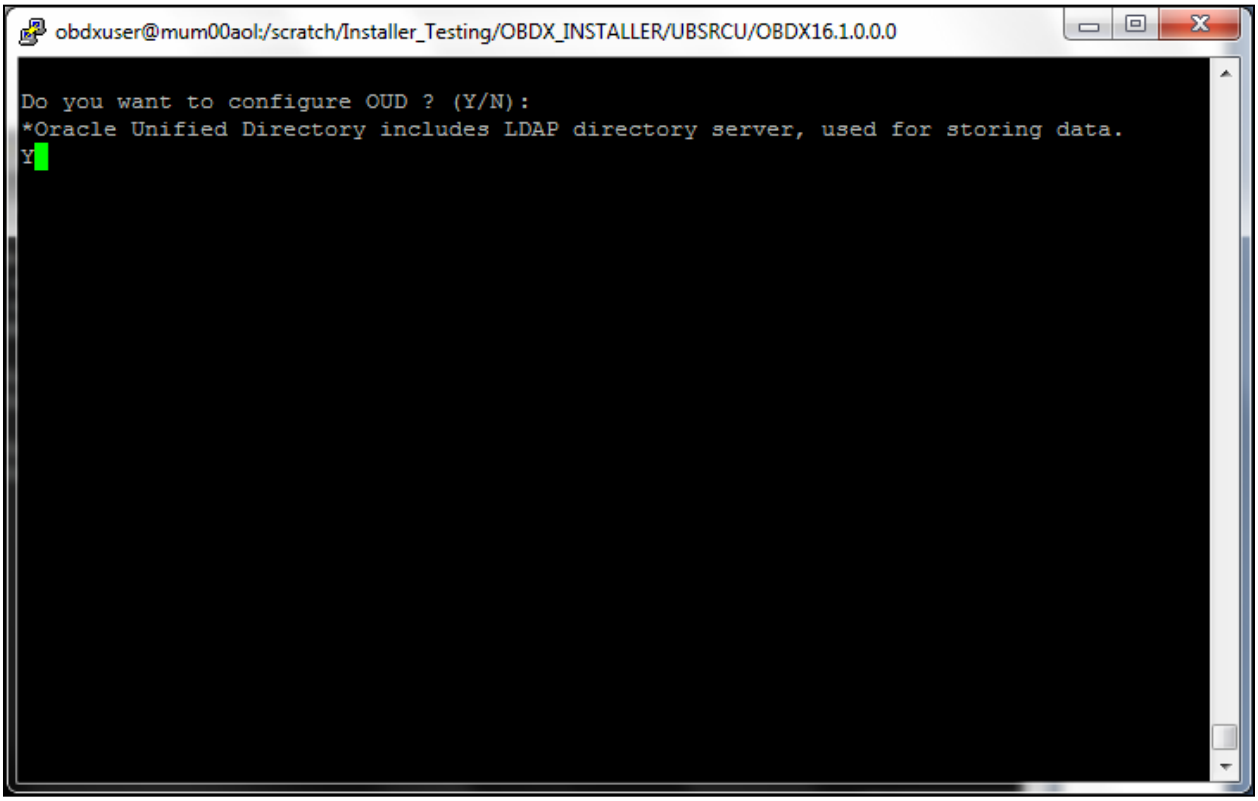
28. Enter datasource for EXT UBS schema



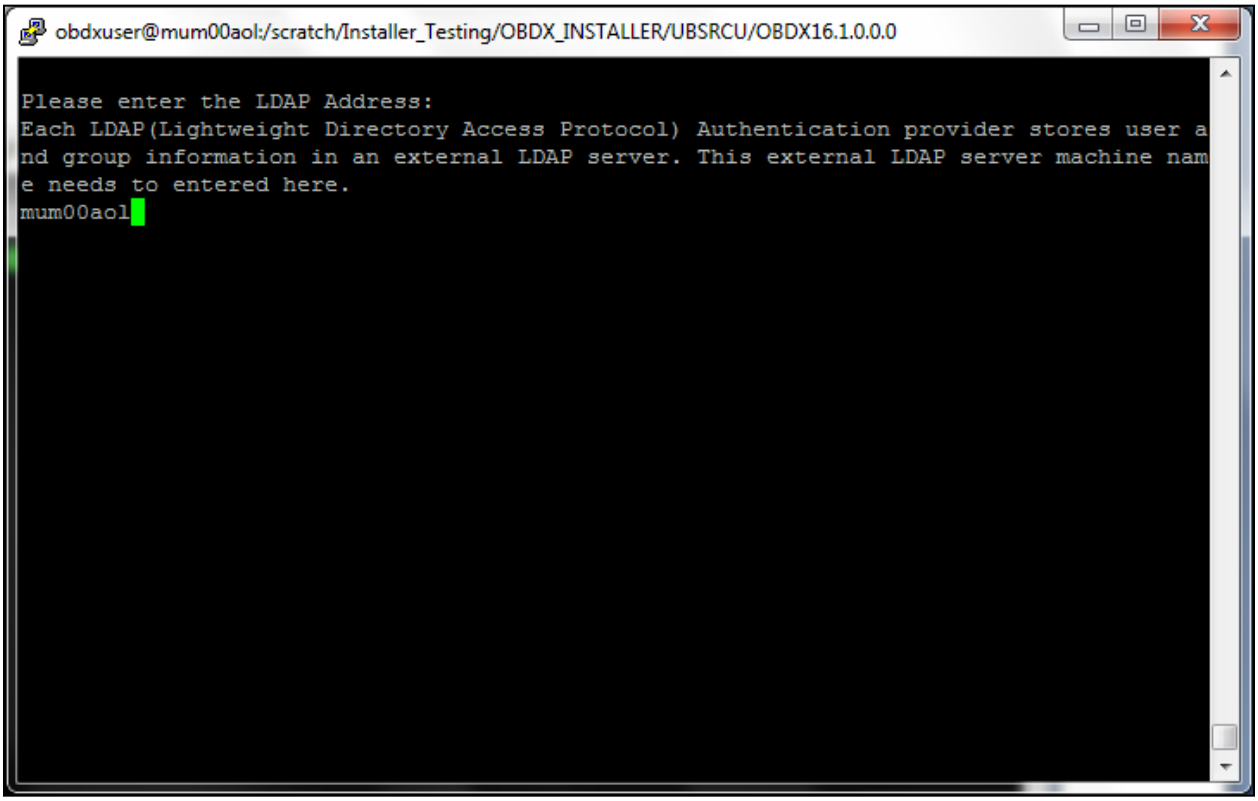
29. Enter datasource JNDI



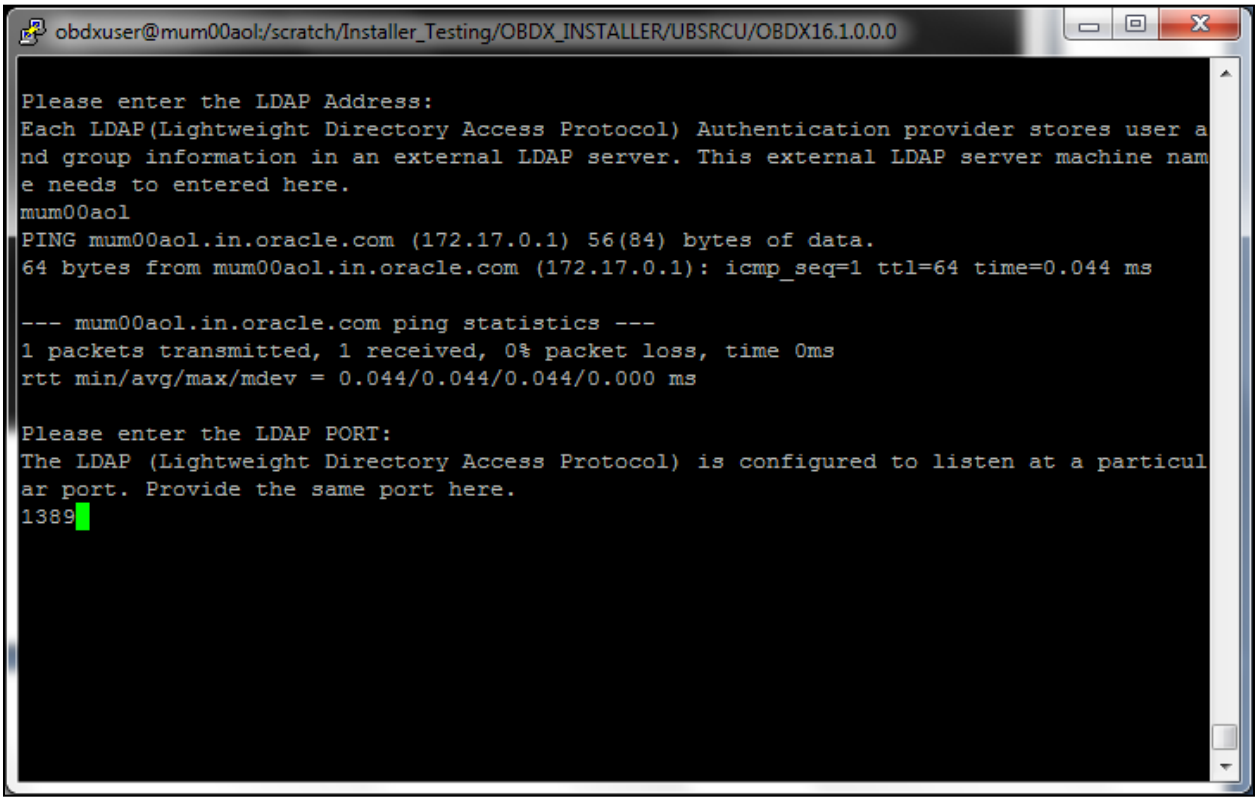
30. Enter choice If you want to configure OUD



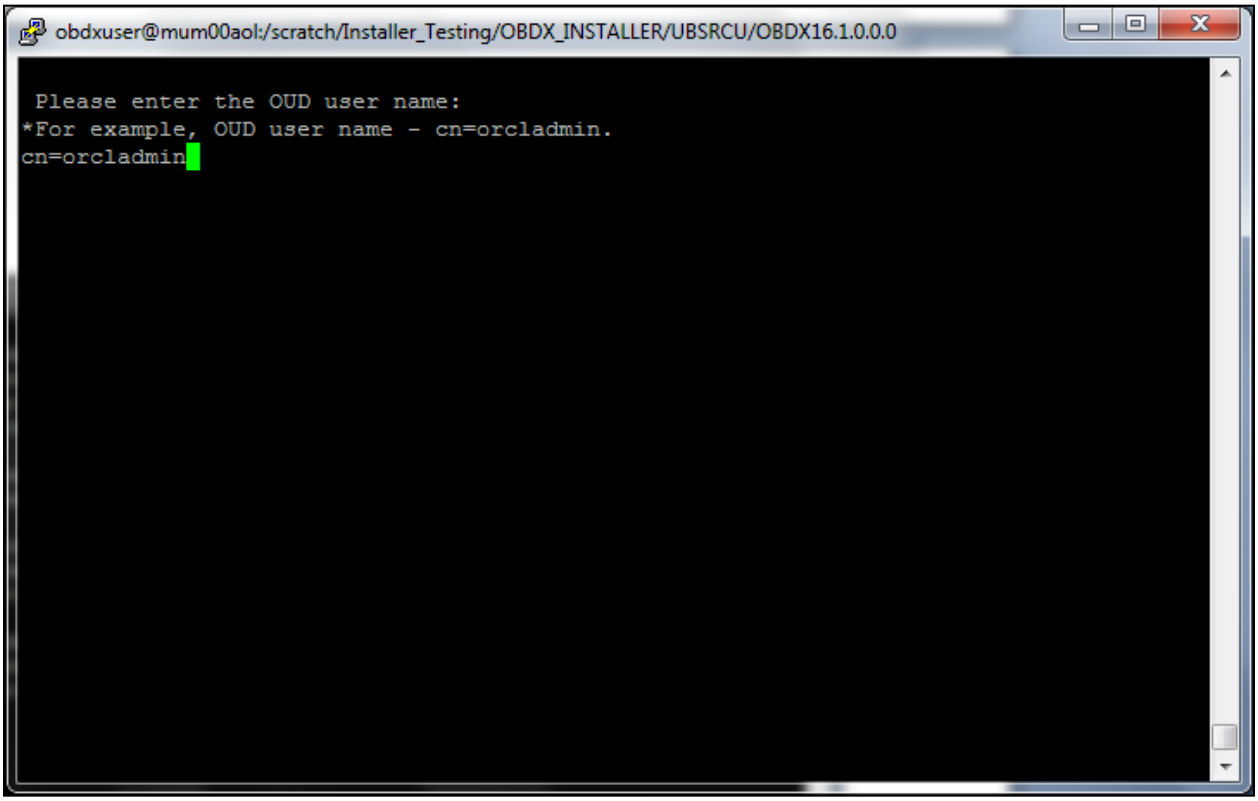
31. If yes please provide LDAP address



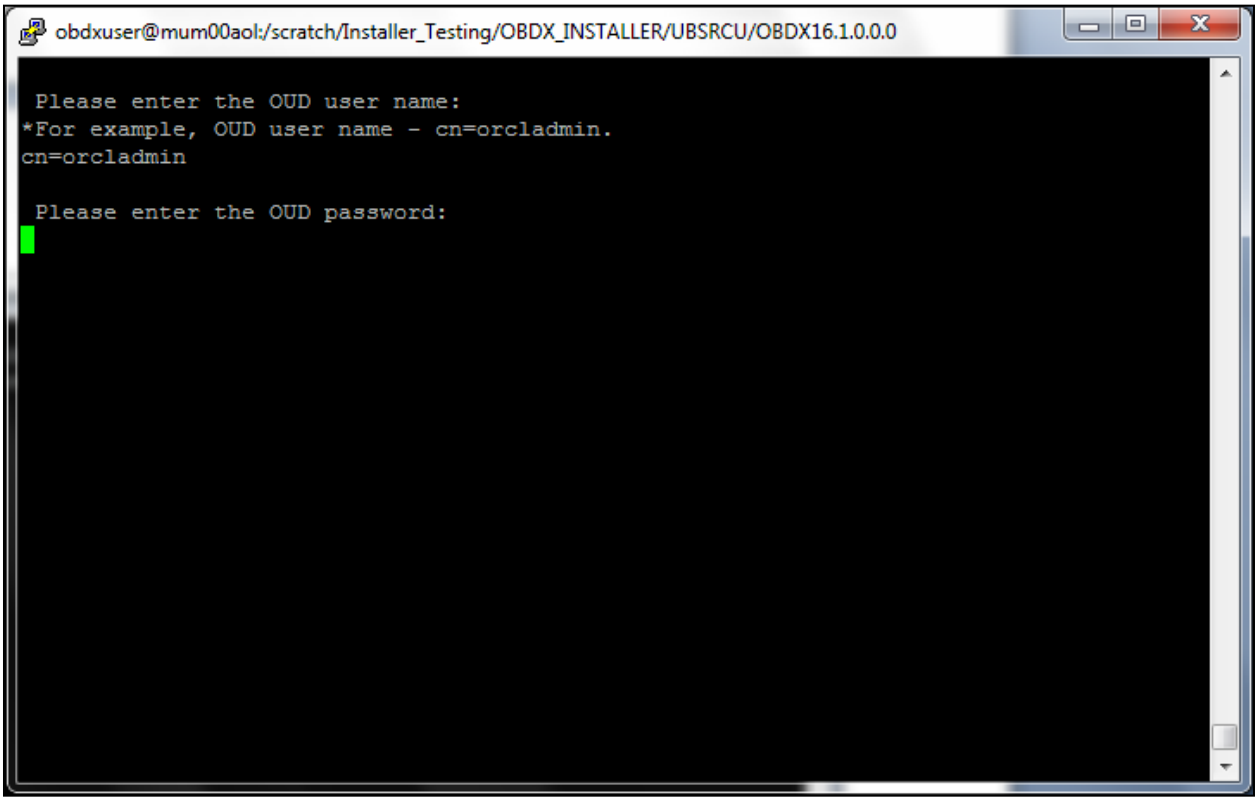
32. Enter LDAP port



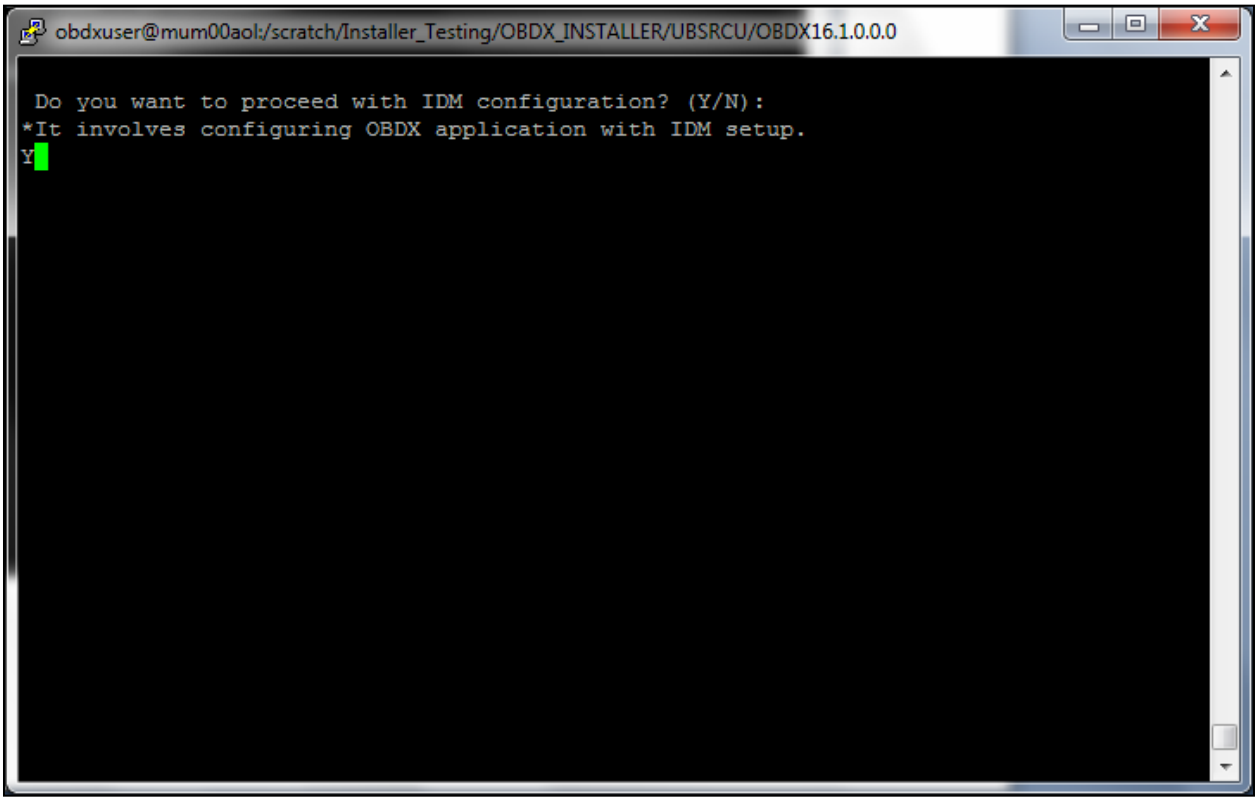
33. Enter OUD username



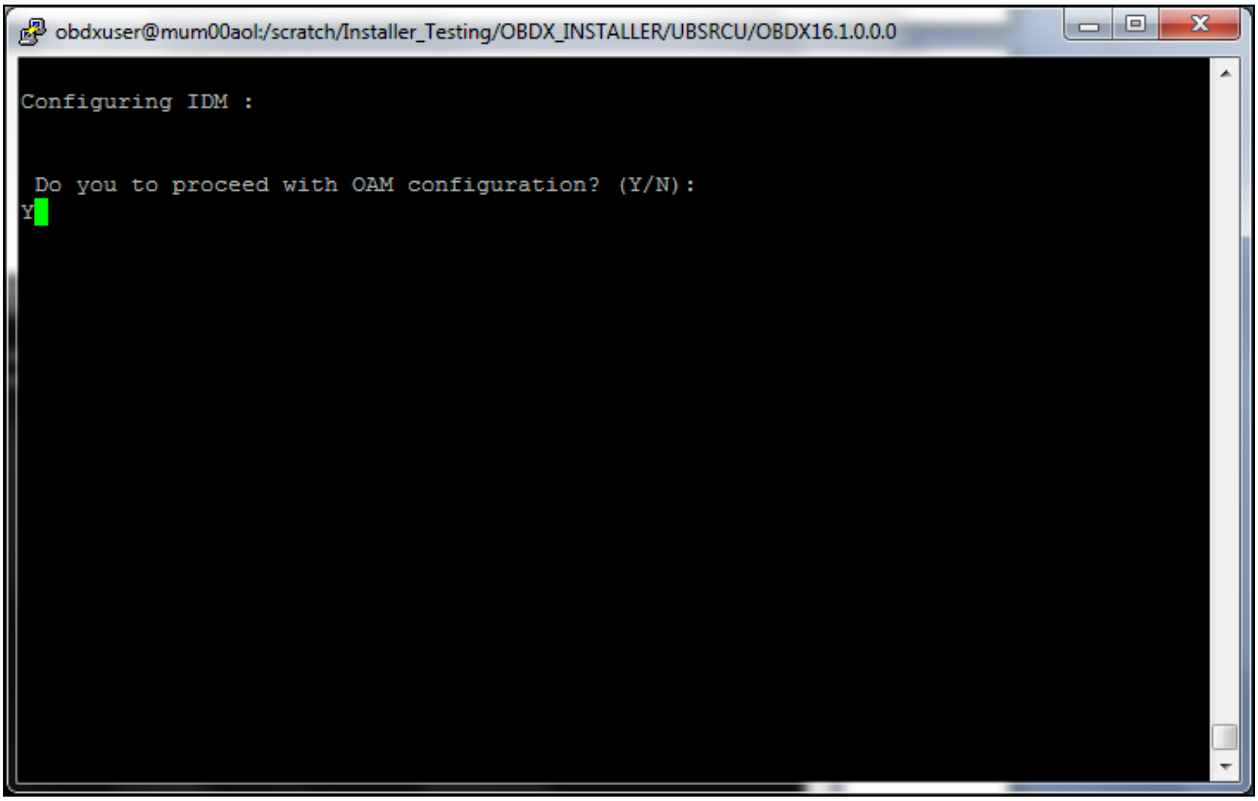
34. Enter OUD password



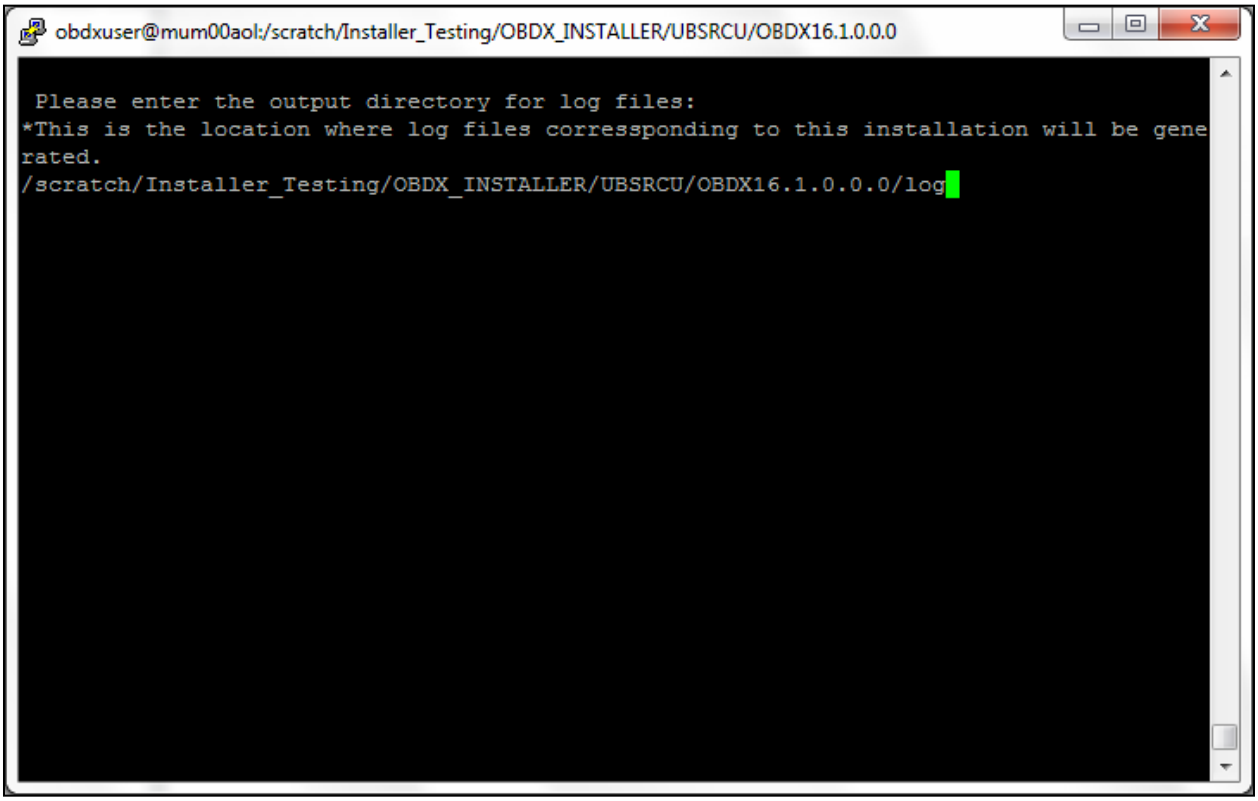
35. Enter choice if you want to configure IDM



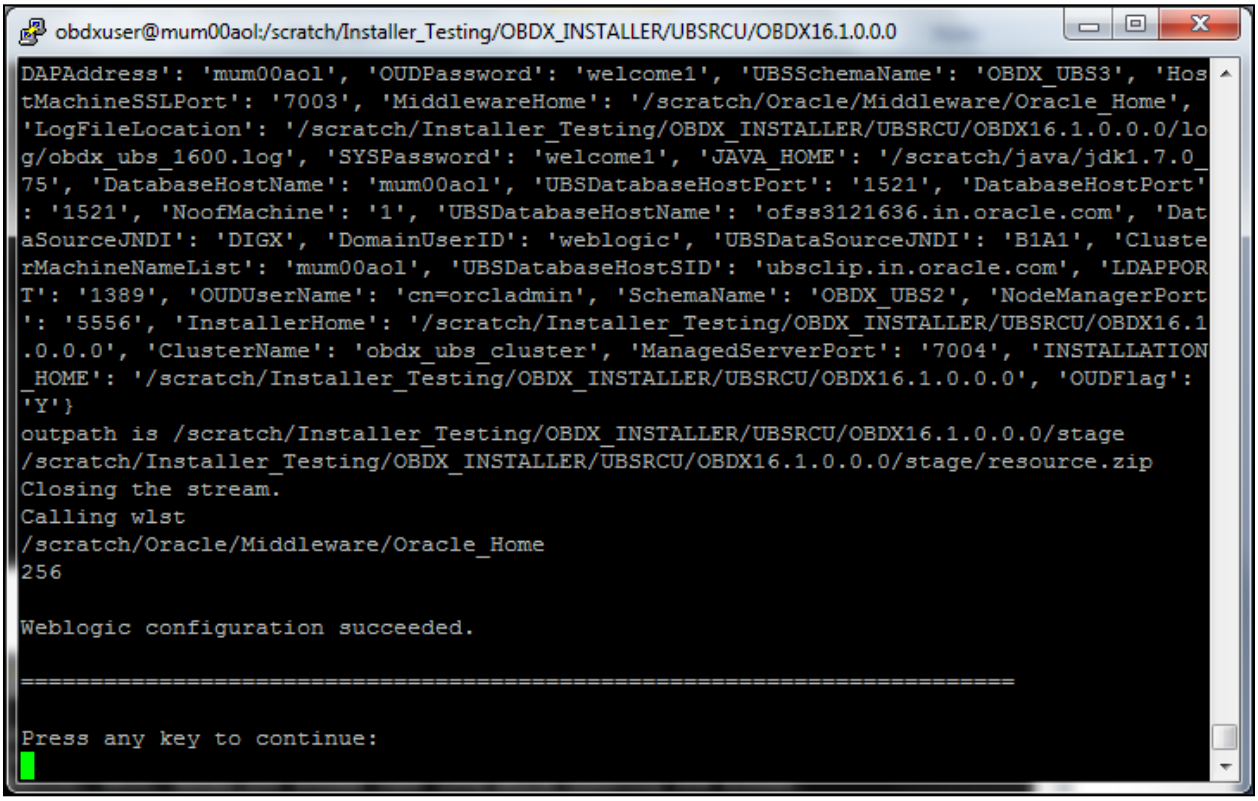
36. If yes then please select if you want to configure OAM also



37. Enter log output directory path



Application server installation is done.



# 5. POST INSTALLATION STEPS

There are some configurations that need to be carried out post the installation of OBDX Database schema and the OBDX Application Server.

## 5.1 External System Configuration

Config directory must be created under the product installation directory, there will be property placed in this directory as ExtSystemsConfig.properties.

You need to update following properties on this file –

- SESSION_BANK_CODE
- SESSION_SUPERVISOR_USER_ID
- SESSION_TARGET_UNIT
- SESSION_TRANSACTION_BRANCH
- HEADER_APPLICATION_BRANCH
- HEADER_DATA_ENTRY_BRANCH
- HEADER_INITIATED_BY

## 5.2 WSDL URL Pointing

OBDX System connects to external systems i.e. OBP or FCUBS consuming SOAP web-services. The WDSL of these SOAP services are maintained in OBDX Database table “digx_fw_config_out_ws_cfg_b” (column as URL). This URL is required to change as default entry contains different hostname & port no.

Please open the WSDL update script present in installer directory in any text editor,

- Find & replace the hostname (OBP / FCUBS Services host name).
- Find & replace the port number (OBP / FCUBS Services port no).
- Execute the script on DIGX Database.
- Commit the changes.

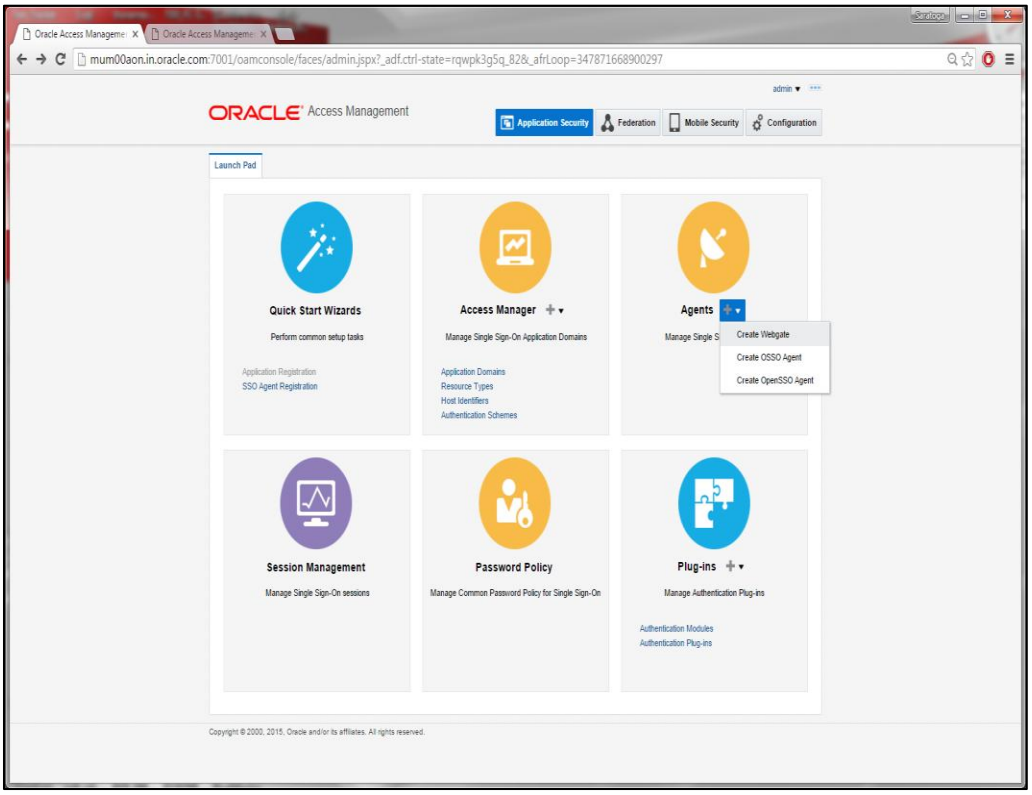
*WSDL URL can be verified by hitting the WSDL URL in a browser with changed hostname & port no.

**DB entry in table digx_fw_config_out_ws_cfg_b (column process) will have a prefix as FCUBS for FCUBS services; otherwise the services will be of OBP system.

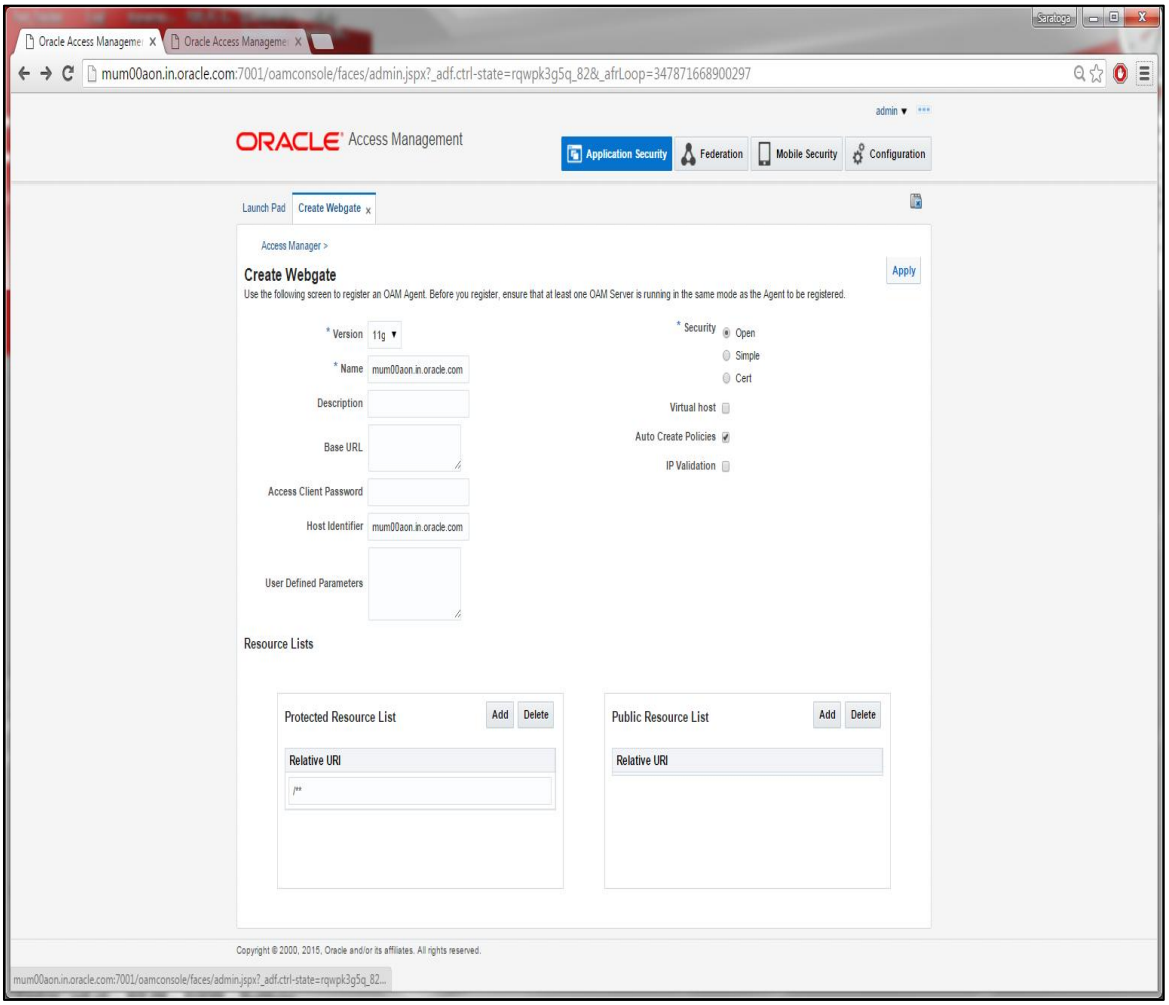
## 5.3 URL Protection in OAM Console

To create a Webgate Agent

1. Login into OAM Console. E. g. http://ofss310686:7001/oamconsole/faces/login.jspx



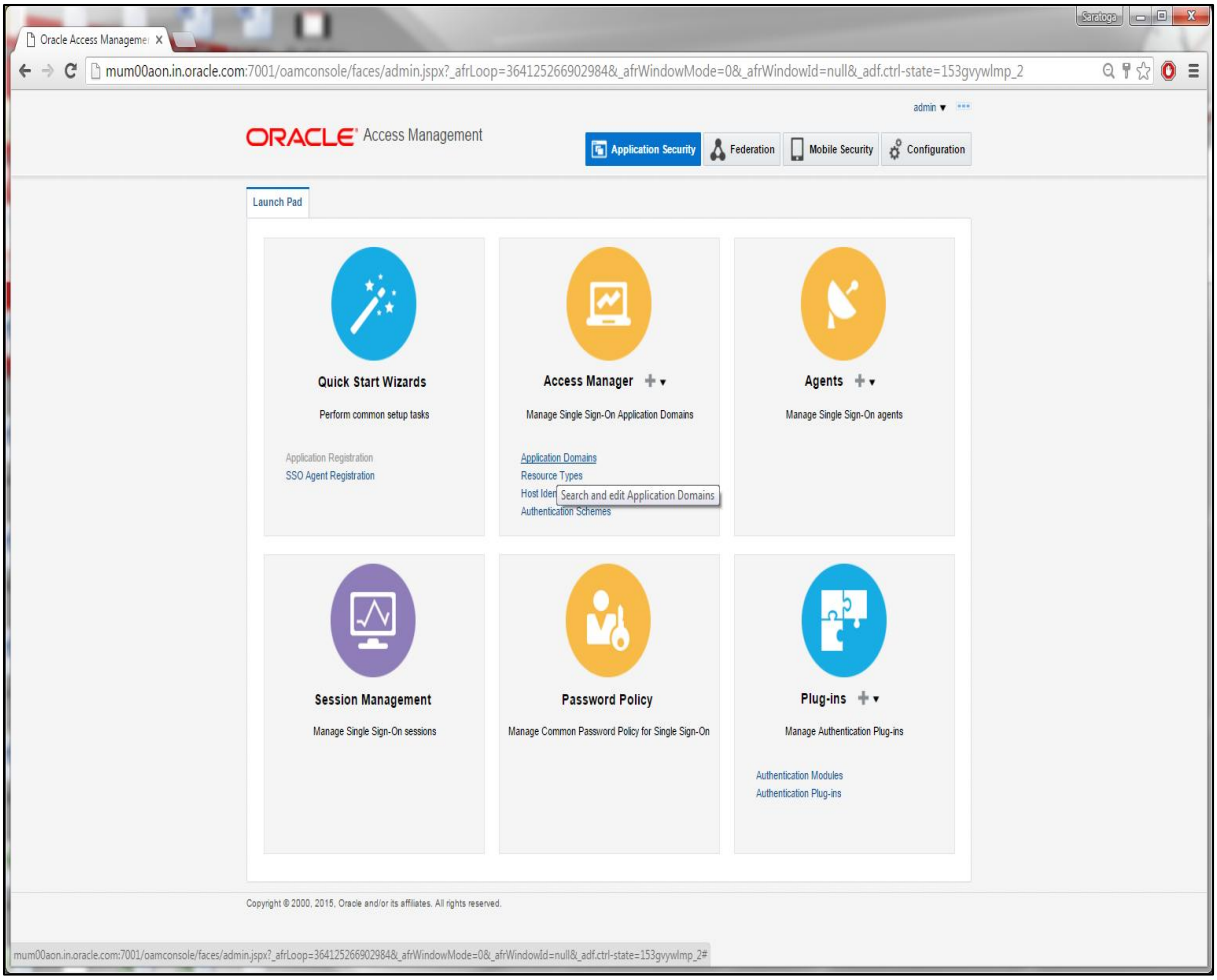
2. Click on the “+” sign next to Agents block and choose Create Webgate

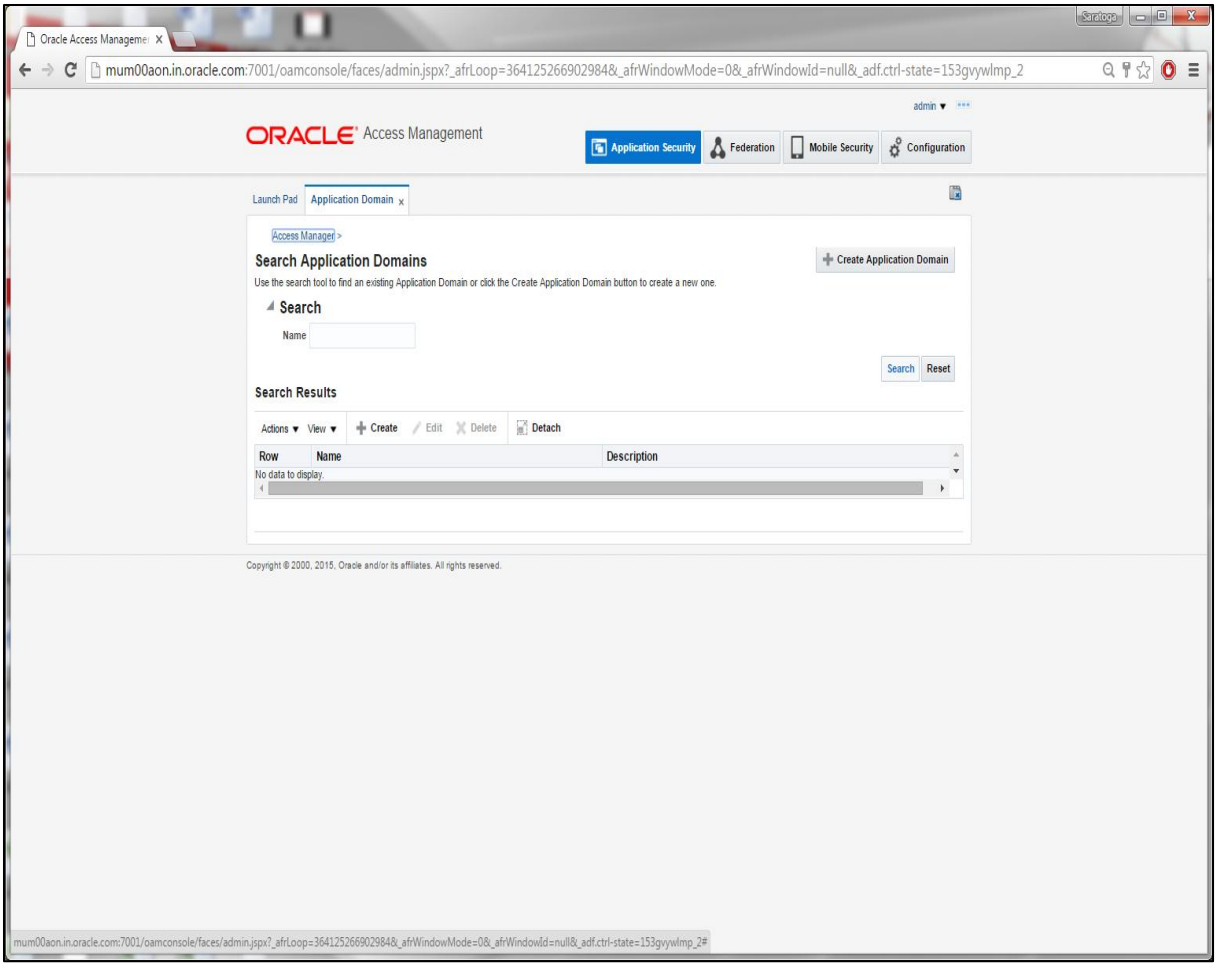



3. Select the Version as 11g
4. Enter the hostname in Name field
5. Click on Apply

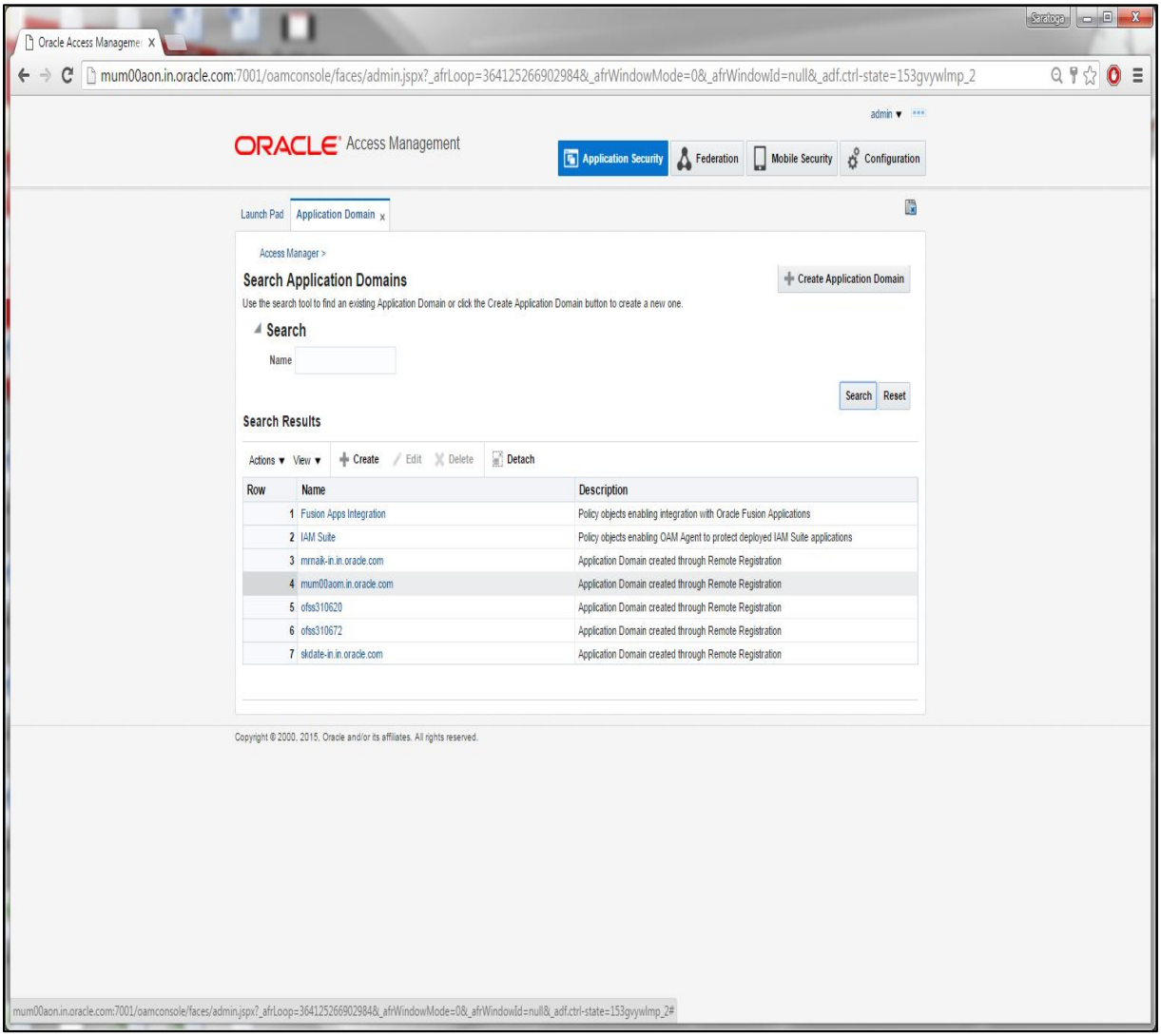
   This creates the 11g Webgate Agent for OAM.

   Now, to search for an application domain, go to Launch Pad
6. Click on Applications Domain in the Access Manager tab.

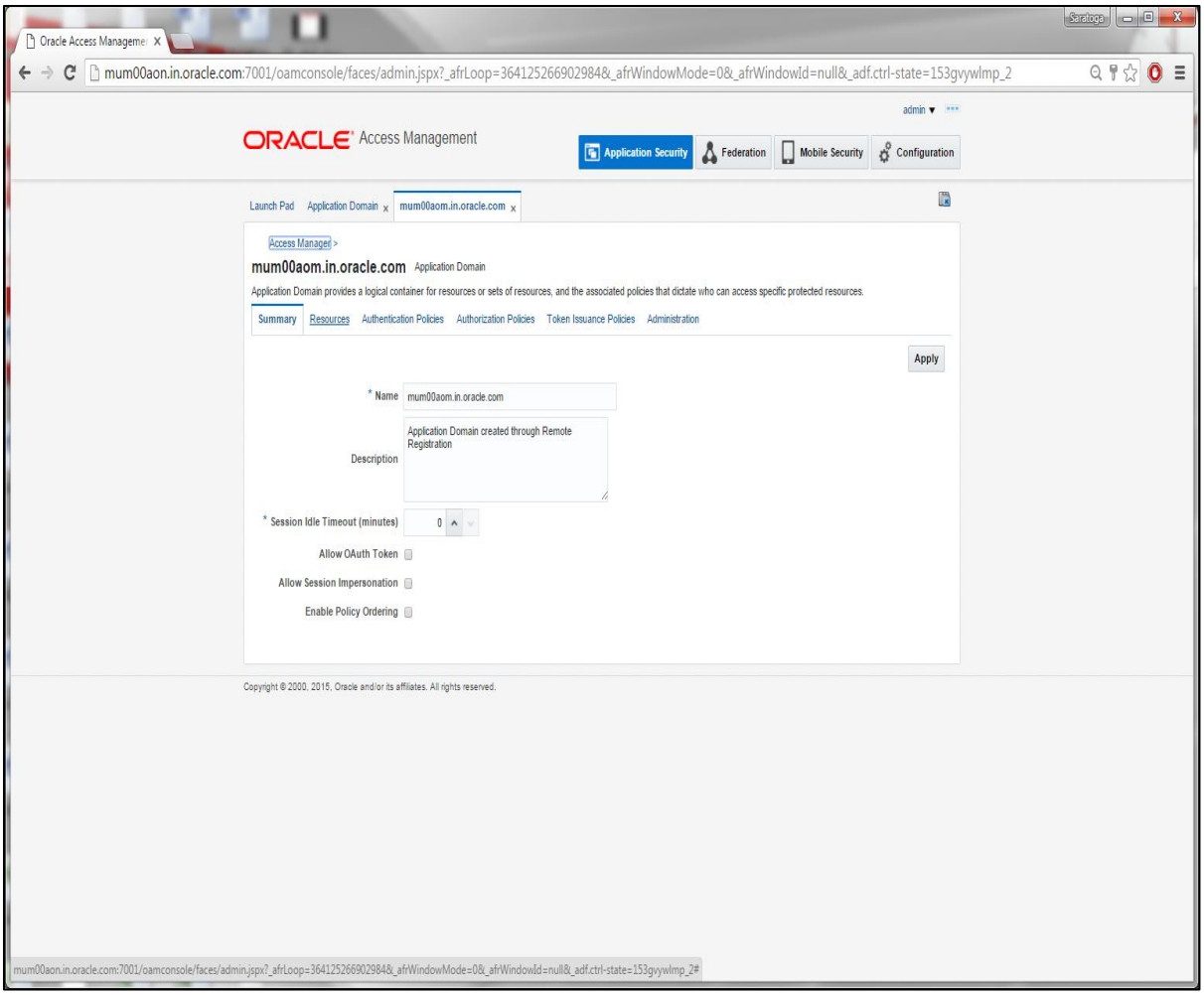

Oracle Access Manageme
mum00aon.in.oracle.com:7001/oamconsole/faces/admin.jspx?_afrLoop=3641252669029848_afrWindowMode=0&_afrWindowId=null&_adf.ctrl-state=153gvywlmp_2
admin
ORACLE Access Management
Application Security
Federation
Mobile Security
Configuration
Launch Pad
Quick Start Wizards
Perform common setup tasks
Application Registration
SSO Agent Registration
Access Manager
Manage Single Sign-On Application Domains
Application Domains
Resource Types
Host Iden
Search and edit Application Domains
Authentication Schemes
Agents
Manage Single Sign-On agents
Session Management
Manage Single Sign-On sessions
Password Policy
Manage Common Password Policy for Single Sign-On
Plug-ins
Manage Authentication Plug-ins
Authentication Modules
Authentication Plug-ins
Copyright © 2000, 2015, Oracle and/or its affiliates. All rights reserved.
mum00aon.in.oracle.com:7001/oamconsole/faces/admin.jspx?_afrLoop=3641252669029848_afrWindowMode=0&_afrWindowId=null&_adf.ctrl-state=153gvywlmp_2#


Oracle Access Manageme
mum00aon.in.oracle.com:7001/oamconsole/faces/admin.jspx?_afrLoop=364125266902984&_afrWindowMode=0&_afrWindowId=null&_adf.ctrl-state=153gvywlmp_2
admin
ORACLE Access Management
Application Security
Federation
Mobile Security
Configuration
Launch Pad
Application Domain
Access Manager
Search Application Domains
Create Application Domain
Use the search tool to find an existing Application Domain or click the Create Application Domain button to create a new one.
Search
Name
Search
Reset
Search Results
Actions
View
Create
Edit
Delete
Detach
Row
Name
Description
No data to display.
Copyright © 2000, 2015, Oracle and/or its affiliates. All rights reserved.
mum00aon.in.oracle.com:7001/oamconsole/faces/admin.jspx?_afrLoop=364125266902984&_afrWindowMode=0&_afrWindowId=null&_adf.ctrl-state=153gvywlmp_2#

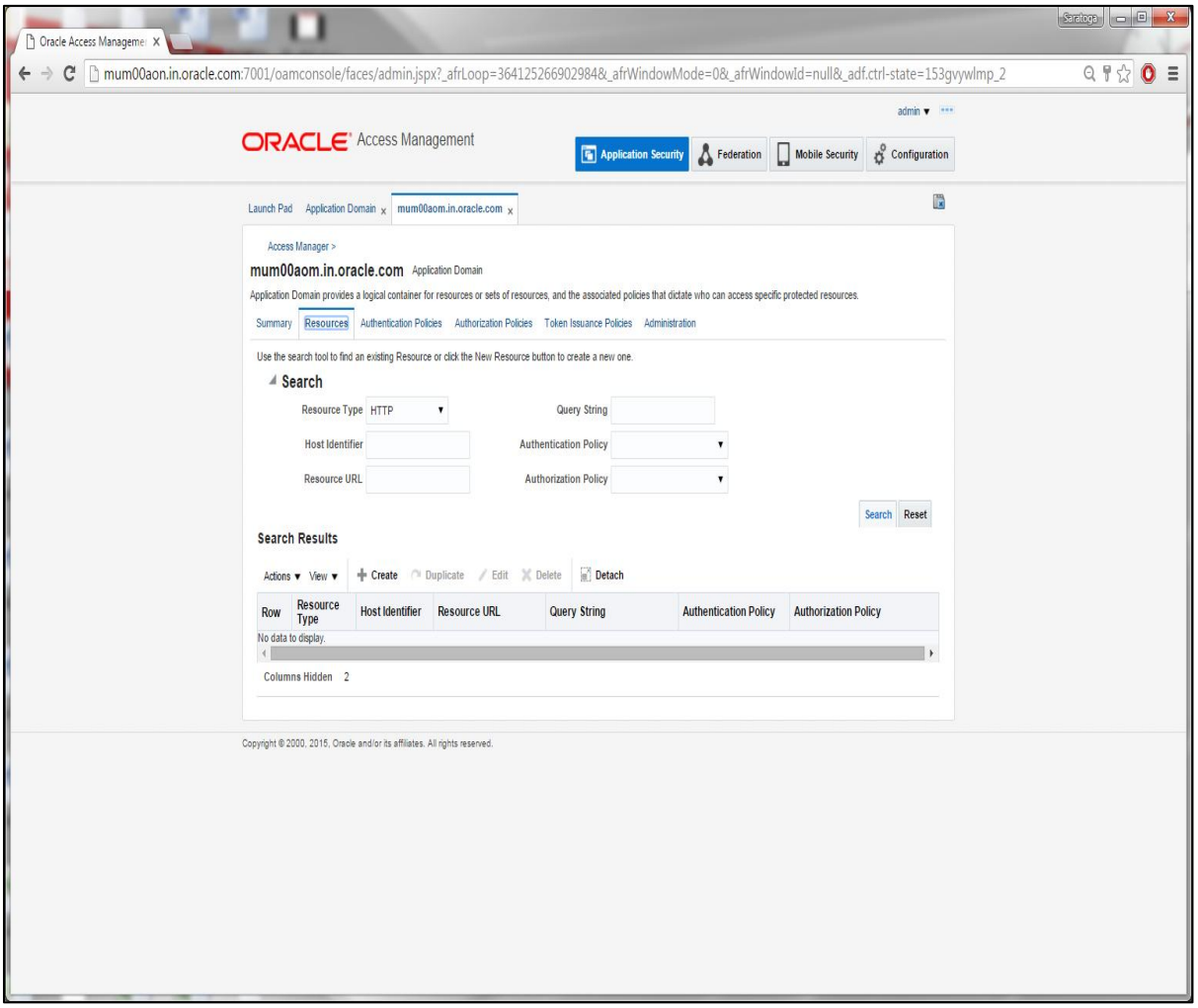
7. Click on Search



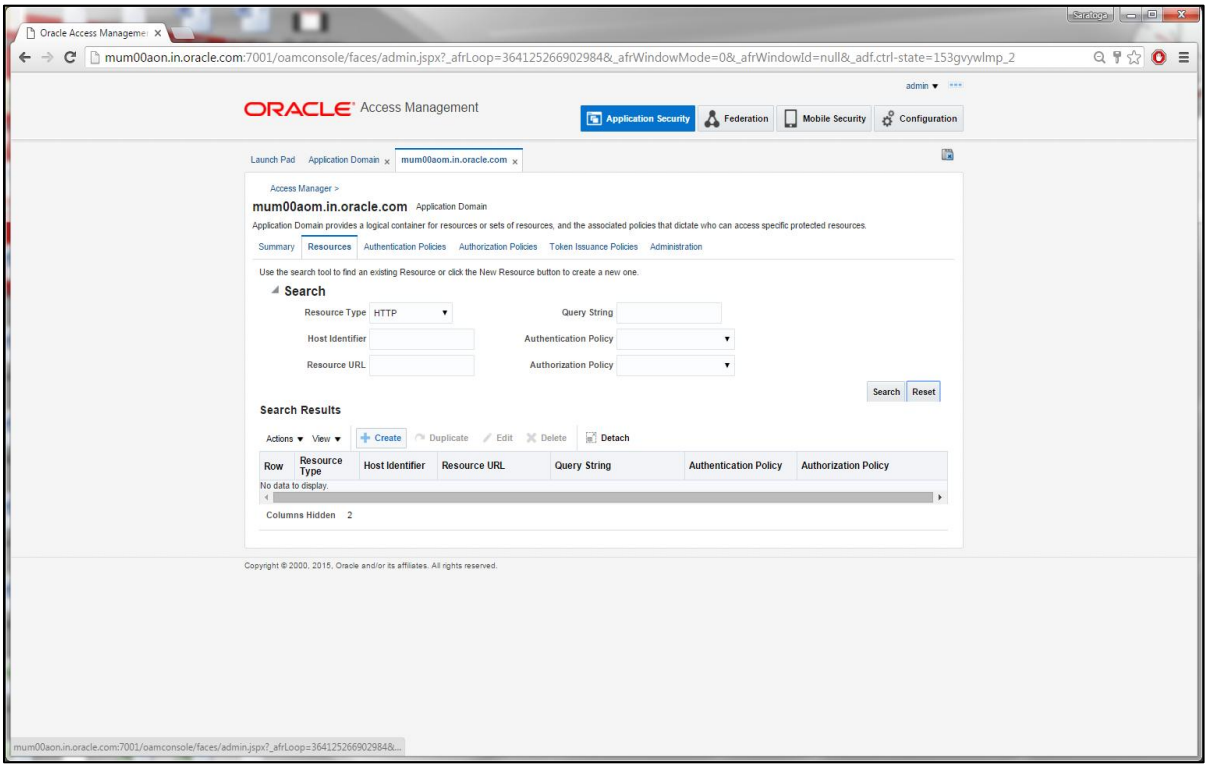
8. Click on the Domain Name you want to configure



9. Click on Resources Tab



10. Click on Search



11. Click on Create Icon (Highlighted in the above screen)

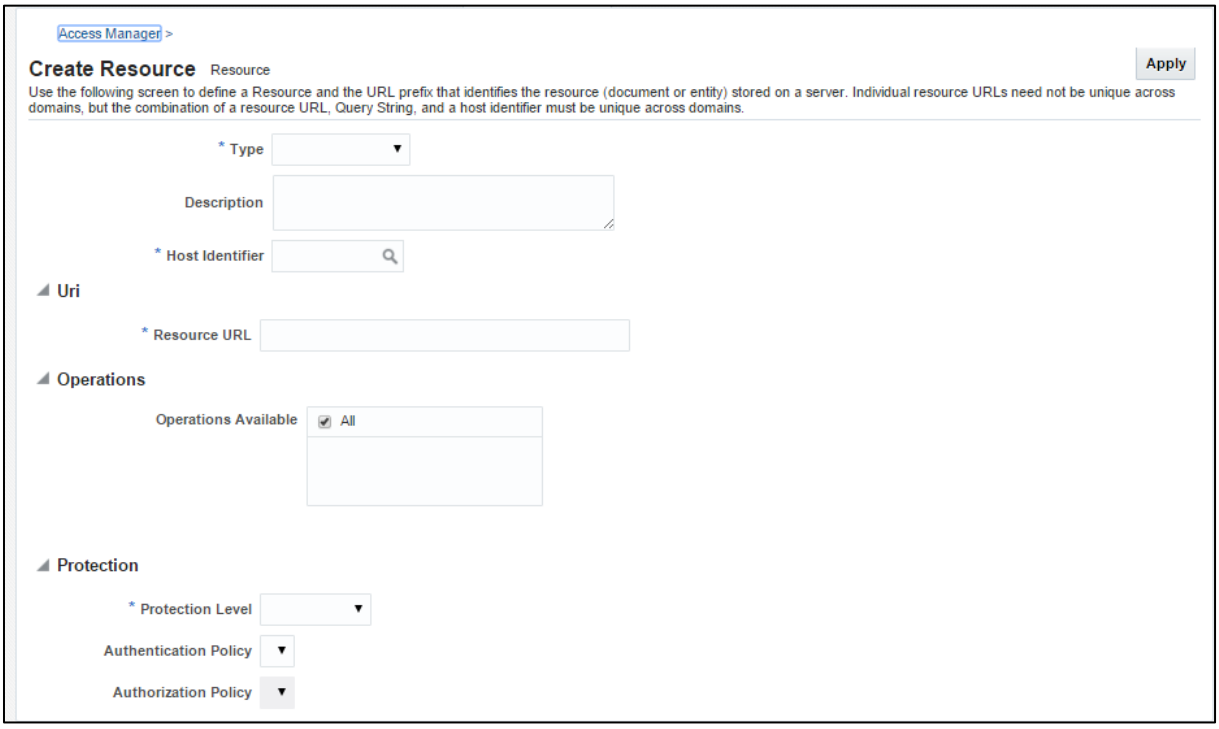



Figure describes elements that comprise a resource definition.

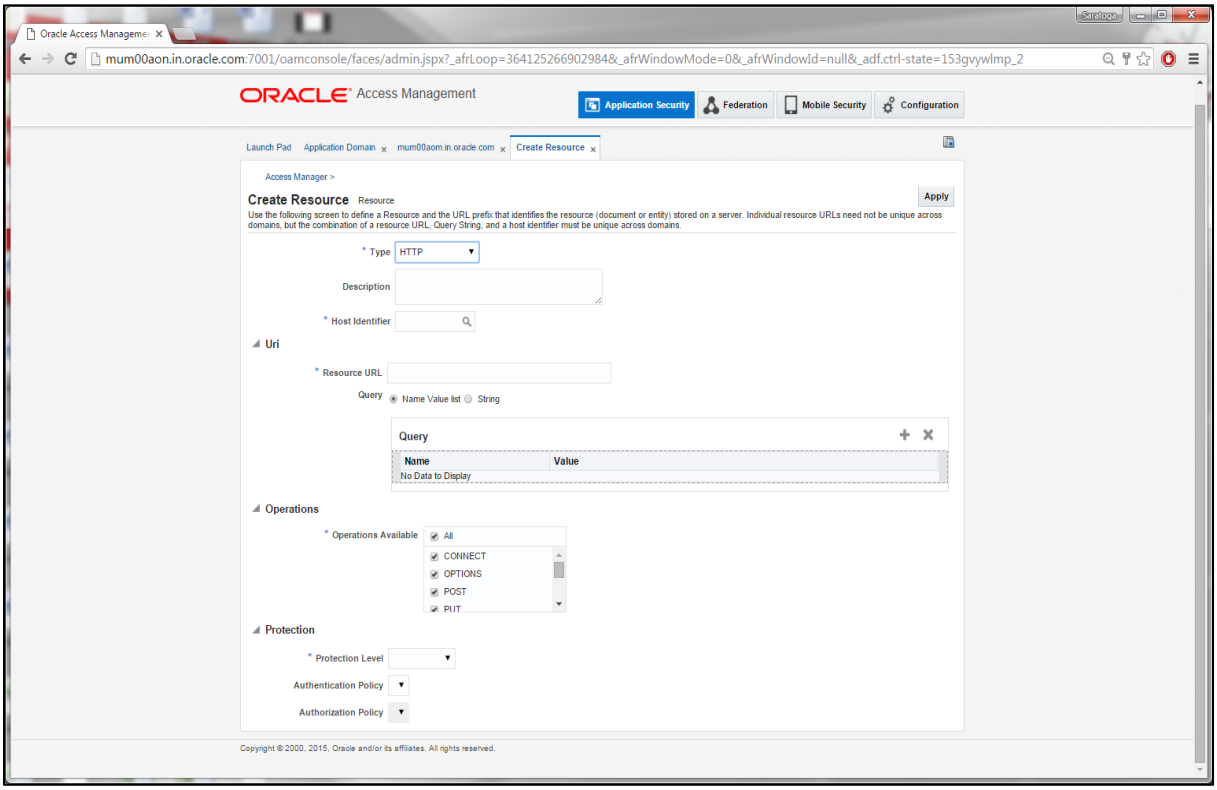
Resource Definition Elements

| Elements | Description |
|---|---|
| **Type** | The HTTP type is the default; it covers resources that are accessed using either the HTTP or HTTPS protocol. Policies that govern a particular resource apply to all operations. |
| **Description** | An optional unique description for this resource. |
| **Host Identifier** | A list of host identifiers is available, which contains all identifiers that were defined as a shared component. You must choose a host identifier to assign this resource.<br>**p_Image**The combination of the host identifier and URL string that make up a resource definition must be unique across all application domains. |

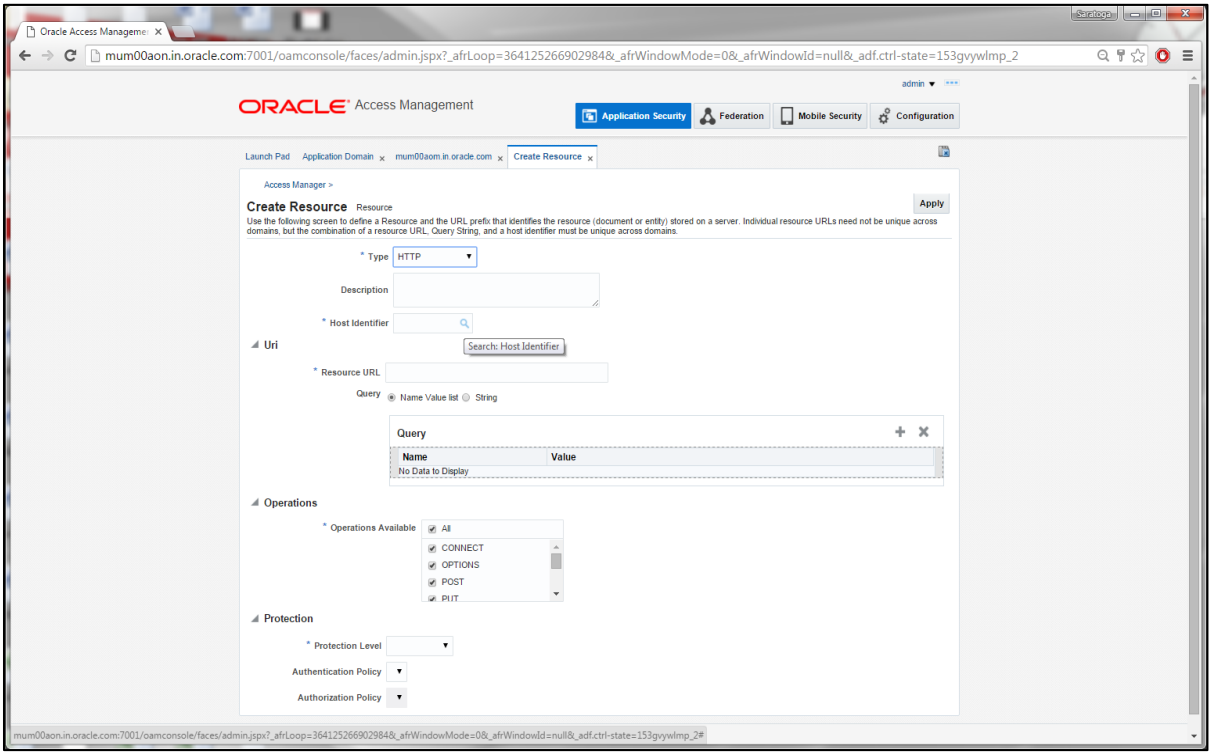
| | |
|---|---|
| **Resource URL** | The URL value must be expressed as a single relative URL string that represents a path component of a full URL composed of a series of hierarchical levels separated by the '/' character. The URL value of a resource must begin with / and must match a resource value for the chosen host identifier.<br><br>Based on its contents, a URL is matched in response to an incoming request as a literal or a wild card pattern. The special characters available to define a pattern, if included, are:<br><br>The asterisk (*) is allowed only at the lowest, terminating level of the path. The asterisk matches zero or more characters.<br><br>An ellipsis (…) is allowed at any level of the path except the terminating level. The ellipses represent a sequence of zero or more intermediate levels. |

| | |
|---|---|
| **Protection Level** | Choose the appropriate protection level from the following:<br><br>Protected (the default)<br><br>Protected resources are associated with a protected-level Authentication policy that uses a variety of authentication schemes (LDAP, for example). Authorization policies are allowed for protected resources.<br><br>Responses, constraints, auditing, and session management are enabled for protected resources using a policy that protects the resource.<br><br>Unprotected<br><br>Unprotected resources are associated with an unprotected-level Authentication policy (level 0) that can use a variety of authentication schemes (LDAP, for example).<br><br>Authorization policies are allowed for unprotected resources, and a basic one is needed to allow such access. However, an elaborate policy with constraints and responses is irrelevant.<br><br>Responses, constraints, and auditing are enabled for Unprotected resources using a policy that protects the resource. Only Session Management is not enabled. Access to Unprotected resources incurs an OAM Server check from Webgate, which can be audited.<br><br>Excluded (these are public)<br><br>Only HTTP resource types can be excluded. Typically security insensitive files like Images (*.jpg, *.png), protection level Excluded resources do not require an OAM Server check for Authentication, Authorization, Response processing, Session management, and Auditing. Excluded resources cannot be added to any user-defined policy in the console.<br><br>The Webgate does not contact the OAM Server while allowing access to excluded resources; therefore, such access is not audited. Most regular resource validations apply to Excluded resources. However, excluded resources are not listed when you add resources to a policy.<br><br>There is no Authentication or Authorization associated with the resource.<br><br>**Note:** If a resource protection level is modified from "Protected" to "Excluded" and a policy exists for that resource, modification will fail until the resource is first disassociated with the policy. |
| **Authentication Policy** | A list of Authentication policies based on the specified resource protection level becomes available. Only policies within this domain, and that match the specified protection level, are listed. |
| **Authorization Policy** | A list of authorization policies defined in the domain become available from which you can choose. |

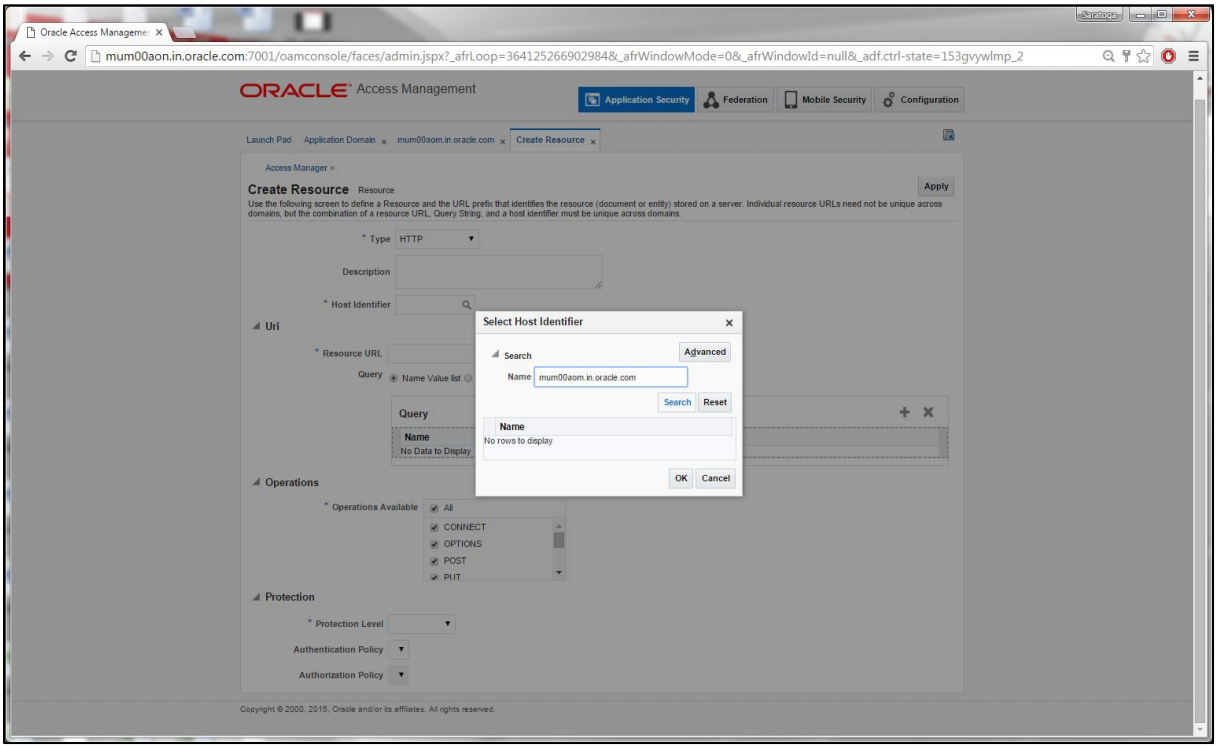
**Examples of values to be entered for creating the Resource are as follows:**



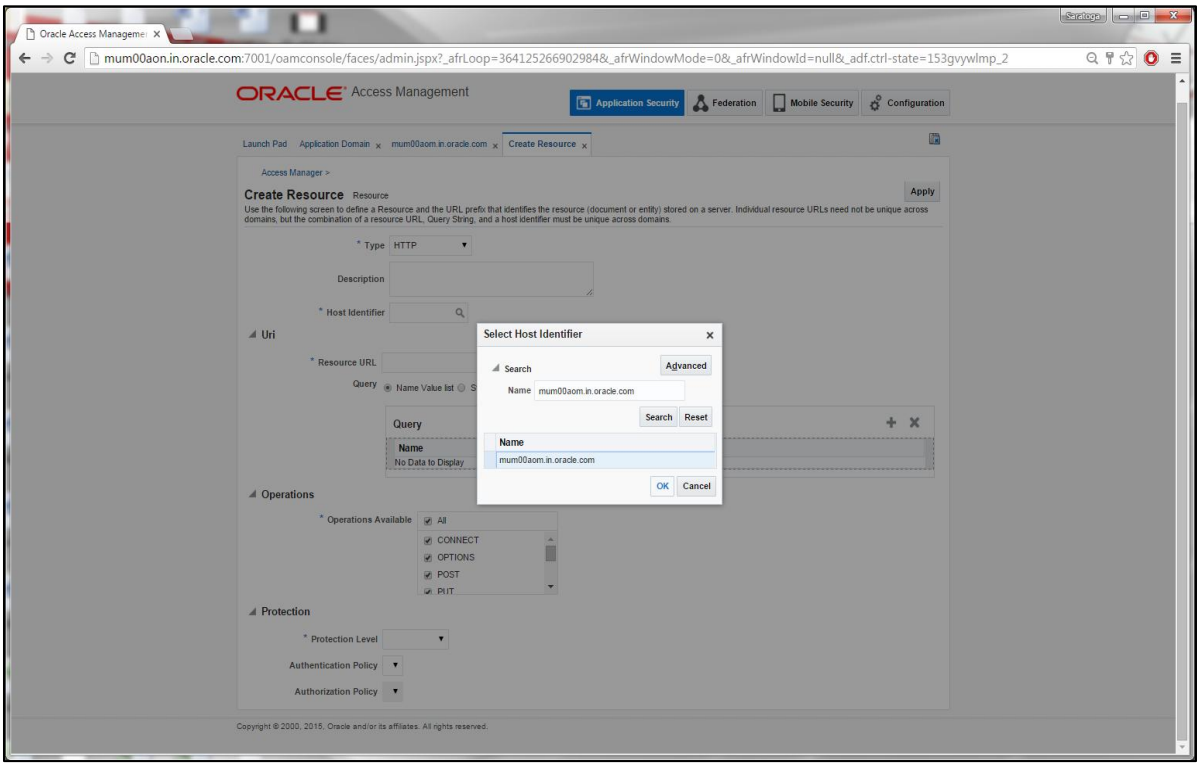

12. Select Type “HTTP”



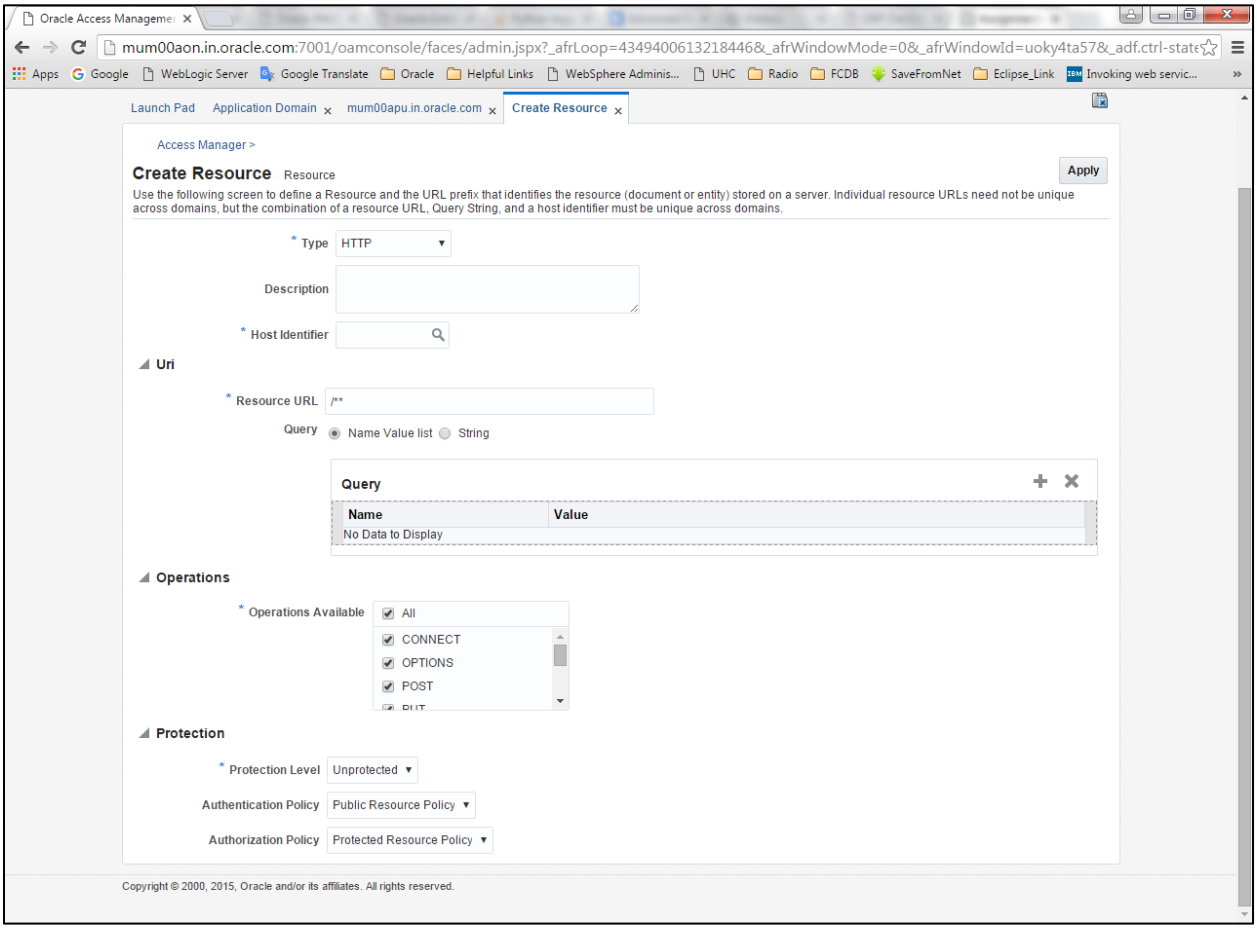
13. Click on Search Host Identifier




14. Enter the hostname and click on Search



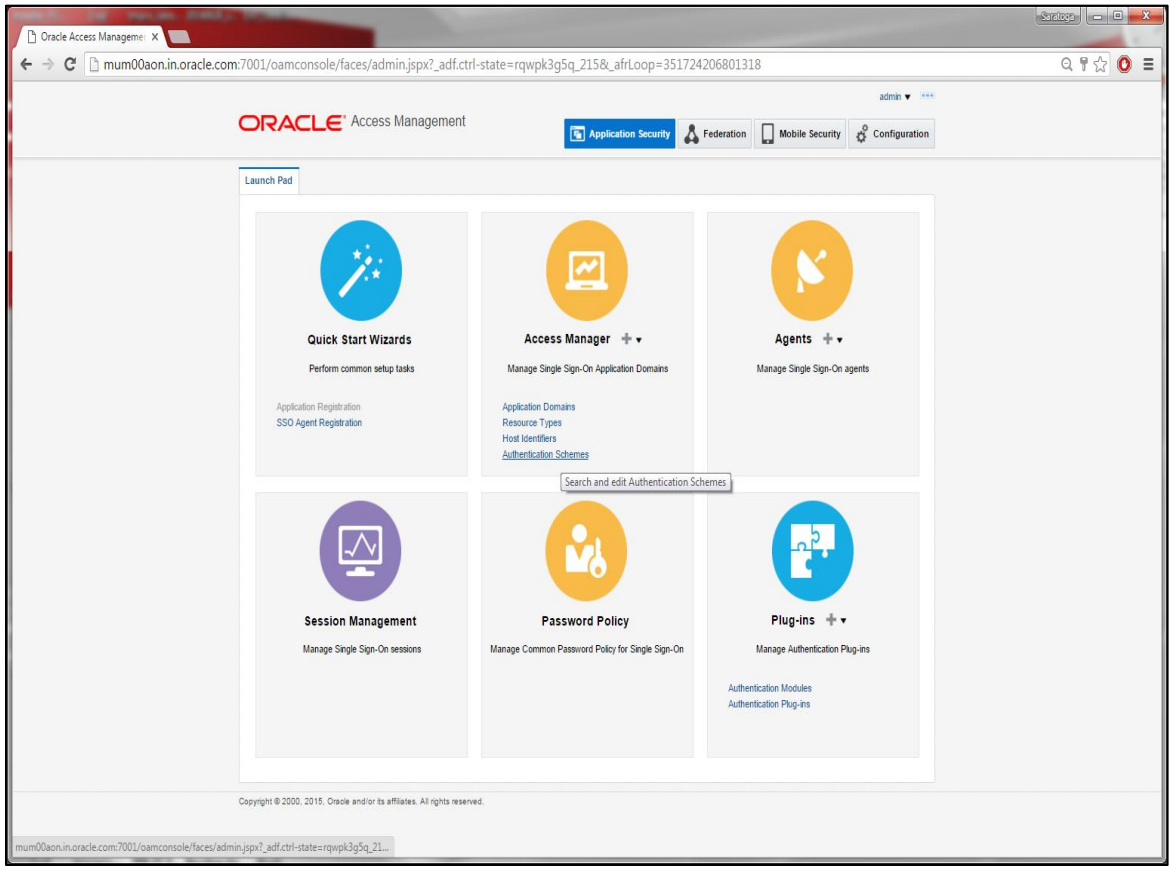
15. Select the hostname and click on OK



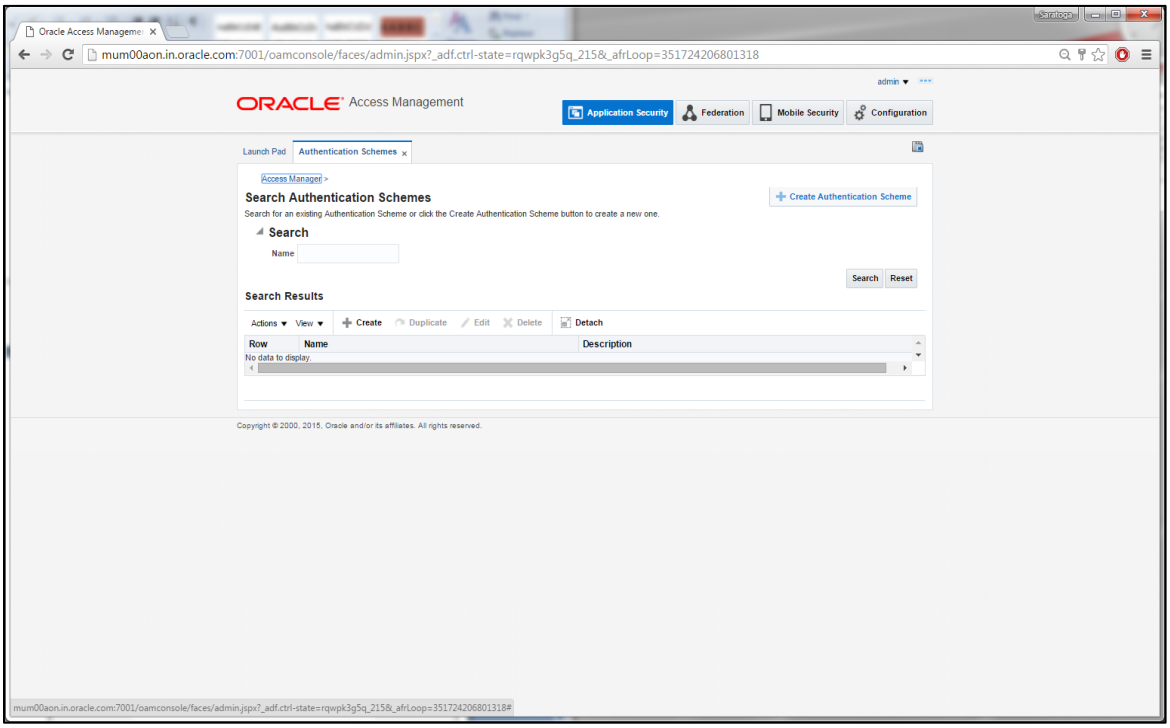

16. Enter the “Resource URL” (e.g. /**)
17. Select “Protection Level” as “Unprotected”
18. Select “Authentication policy” as “Public Resource Policy”
19. Select “Authorization Policy” as “Protected Resource Policy”
20. Click on Apply
21. Repeat the process to protect other URLs:
    - /us/pages/alerts.html
    - /us/pages/payments.html
    - /us/pages/loans.html
    - /us/pages/demand-deposits.html
    - /us/pages/term-deposits.html
    - /pages/authorization.html
    - /pages/my-applications.html

- Custom LoginScheme to show custom login page

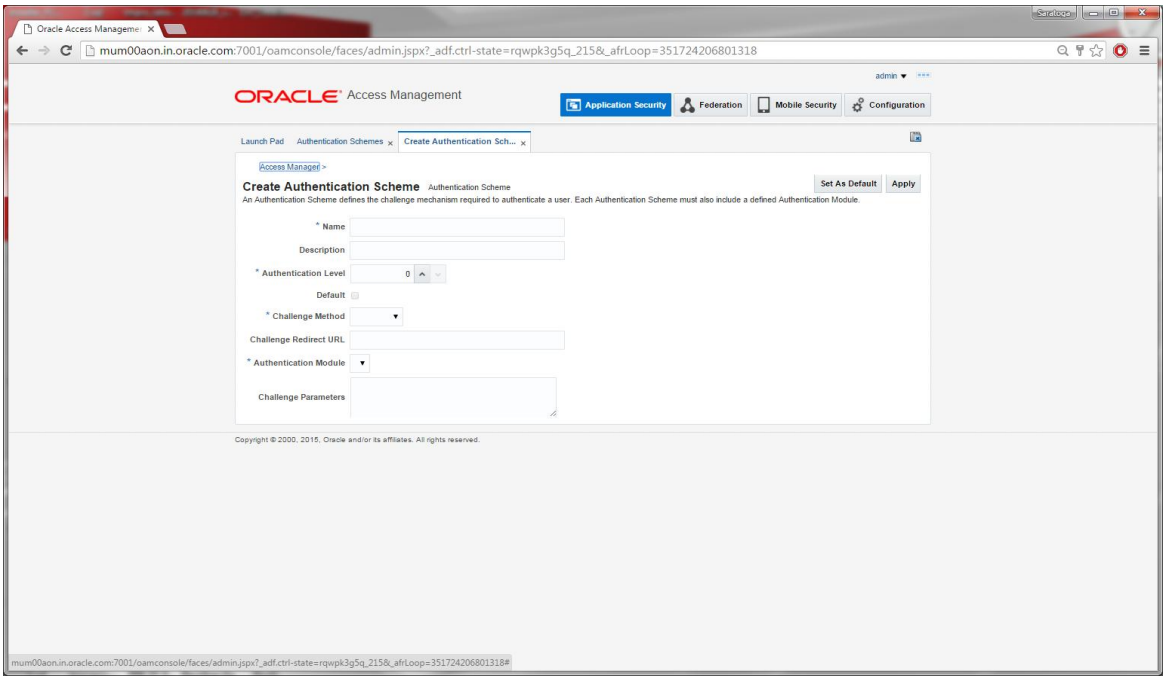
- To add a Custom Login Page

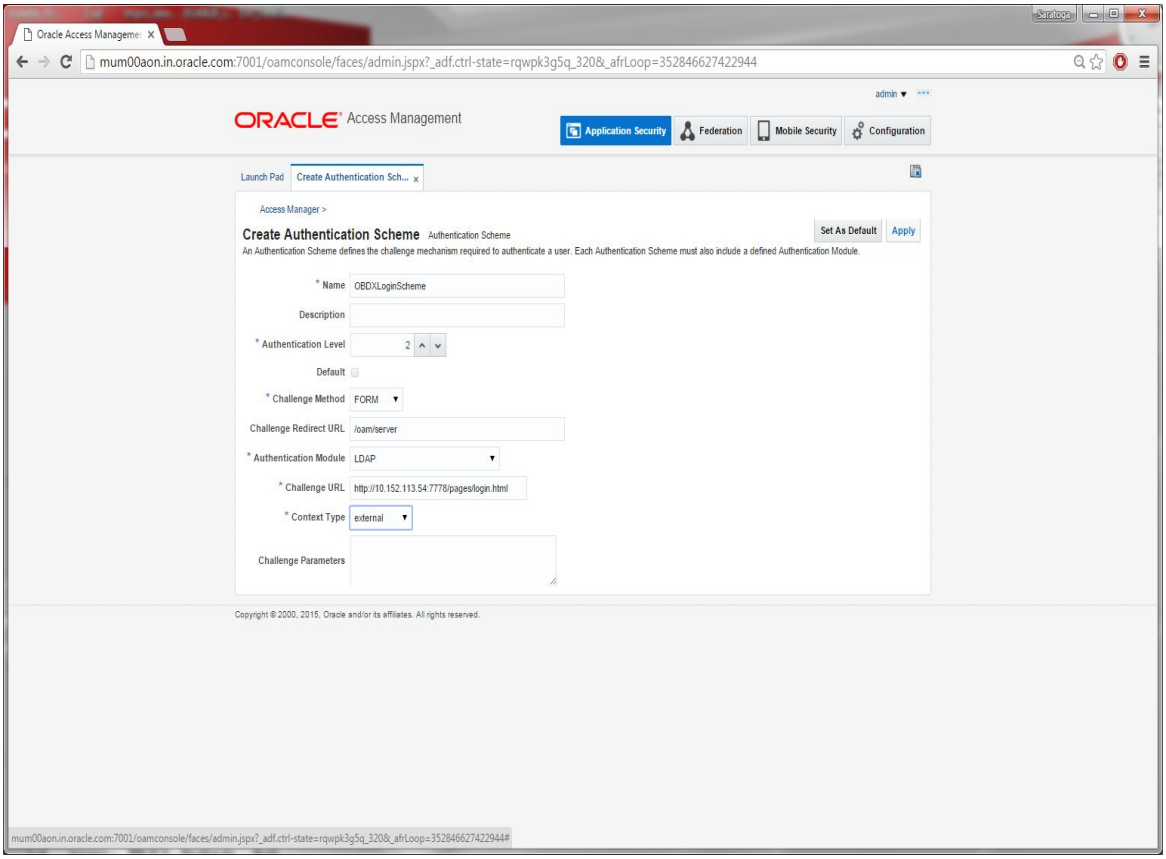


22. Click on Authentication Schemas from the Access Manager block.

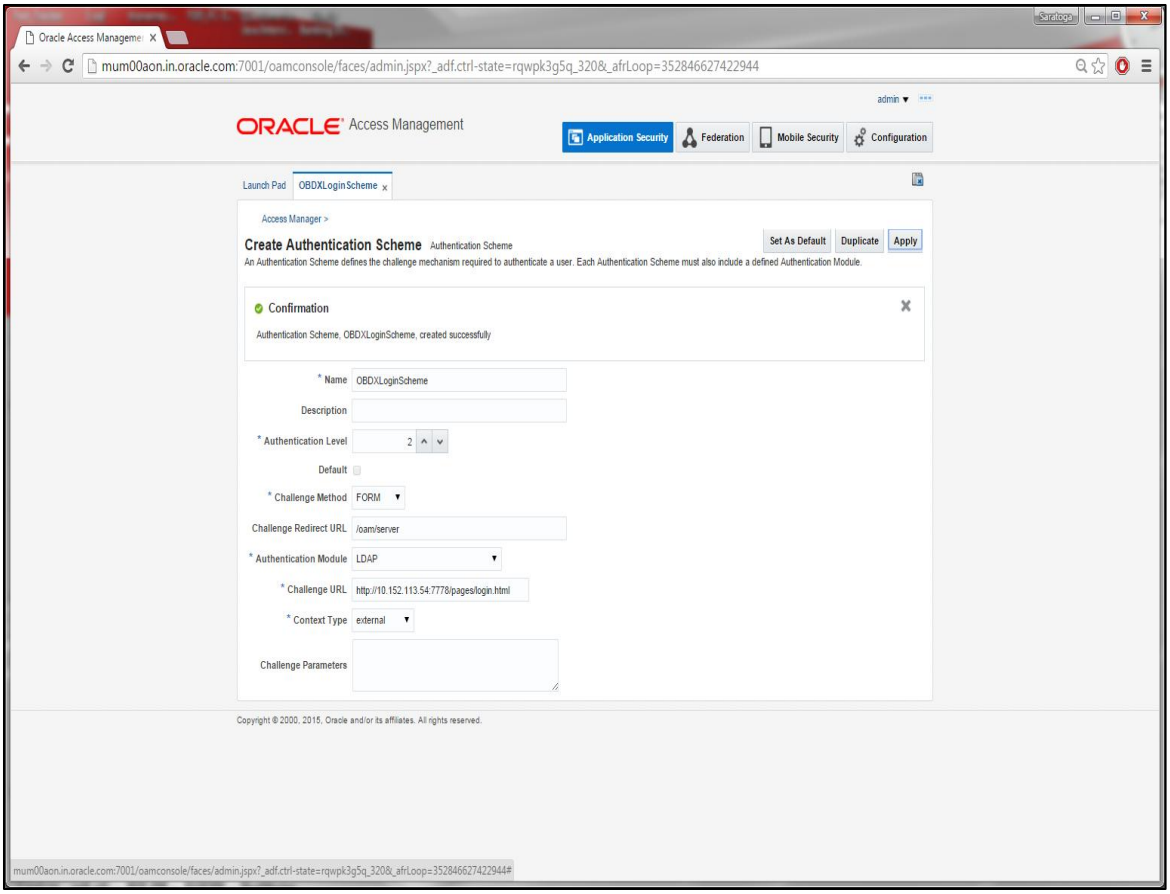



23. Click on Create Authentication Scheme

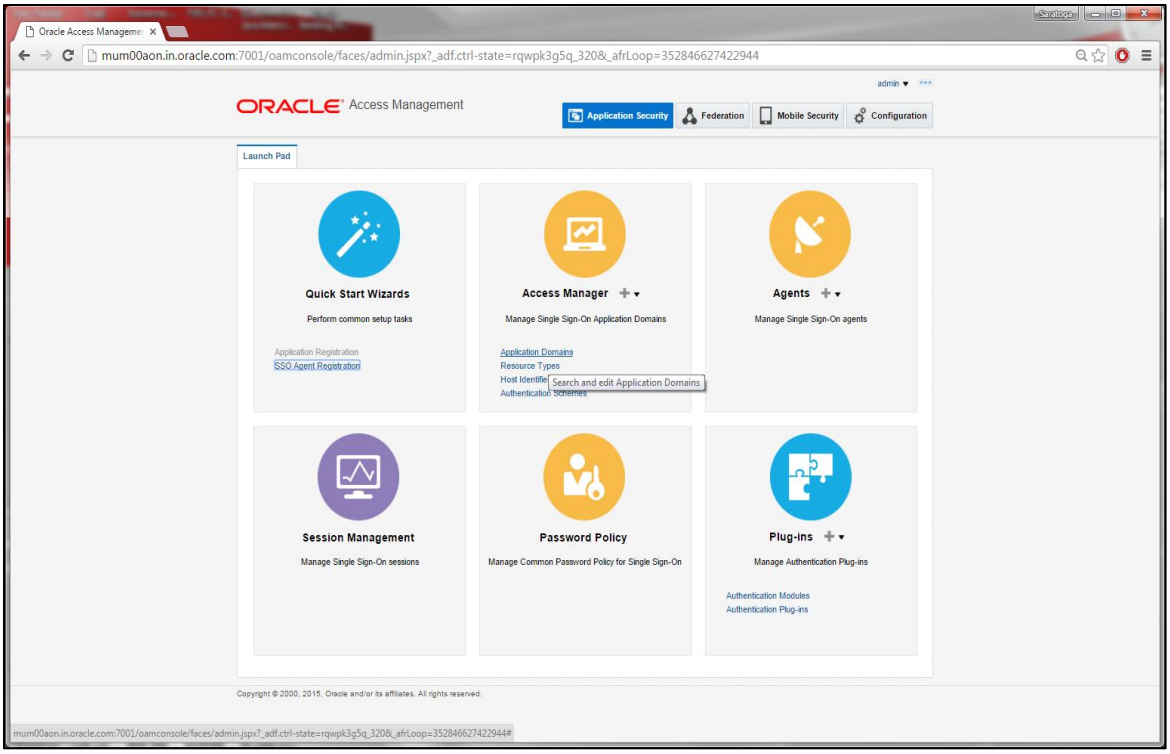




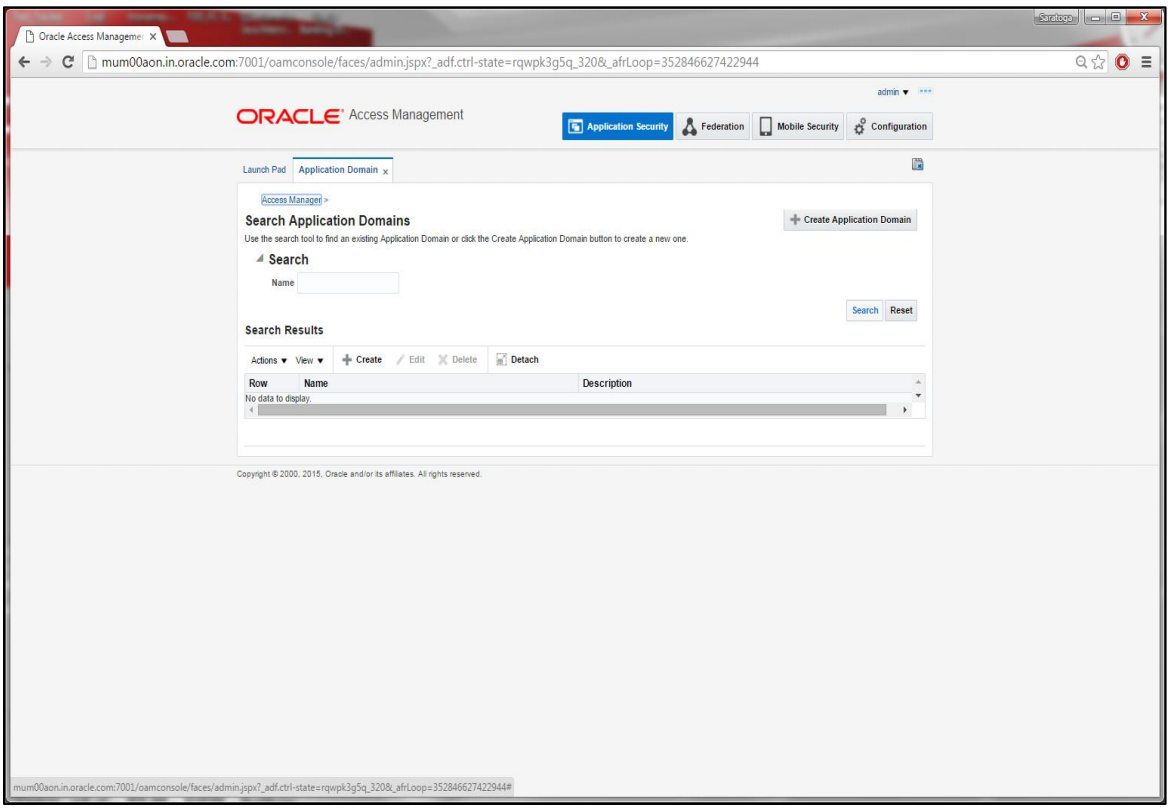

24. Add the Name (e.g. OBDXLoginScheme)
25. Select the Authentication Level as 2
26. Choose the Challenge Method as FORM
27. Enter the Challenge Re-direct URL (e.g. /oam/server)
28. Select the Authentication Module as LDAP
29. Enter the Challenge URL which is the URL of the re-directed login page (e.g. http://10.152.113.54:7778/pages/login.html)
30. Select the Context Type as external
31. After adding all the inputs, click on Apply.



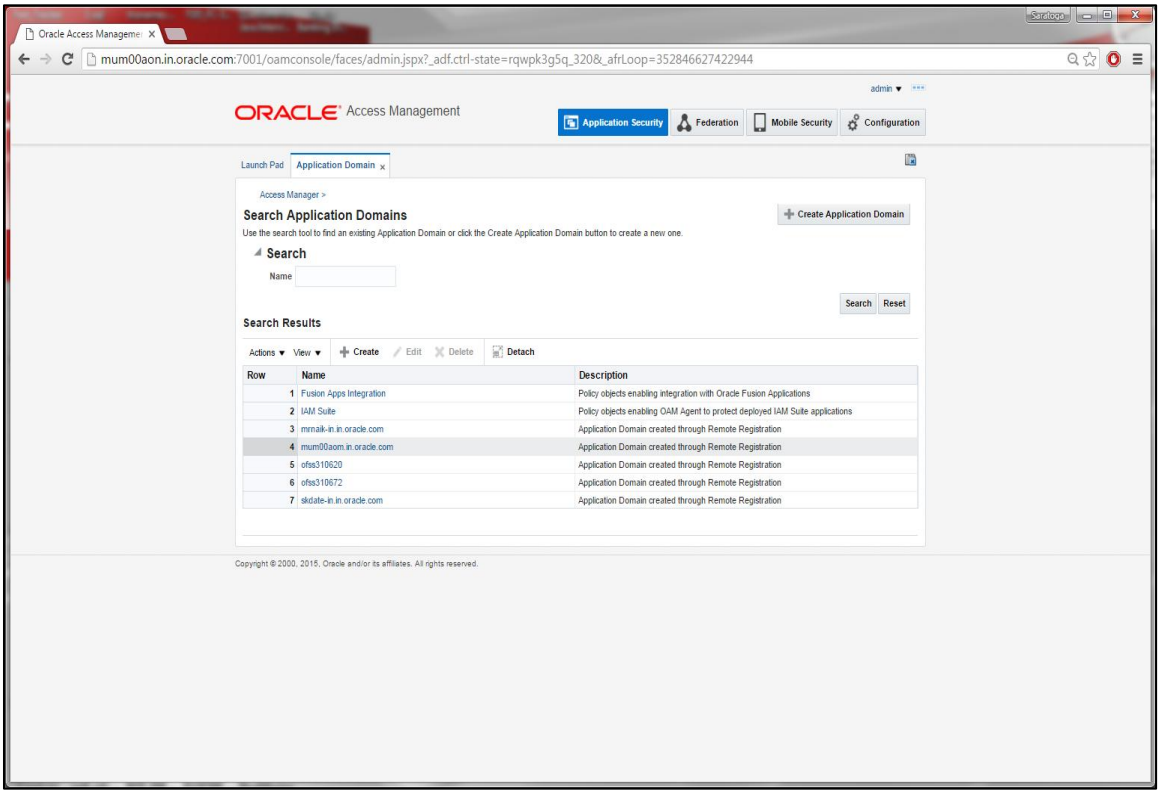

Confirmation Message is displayed



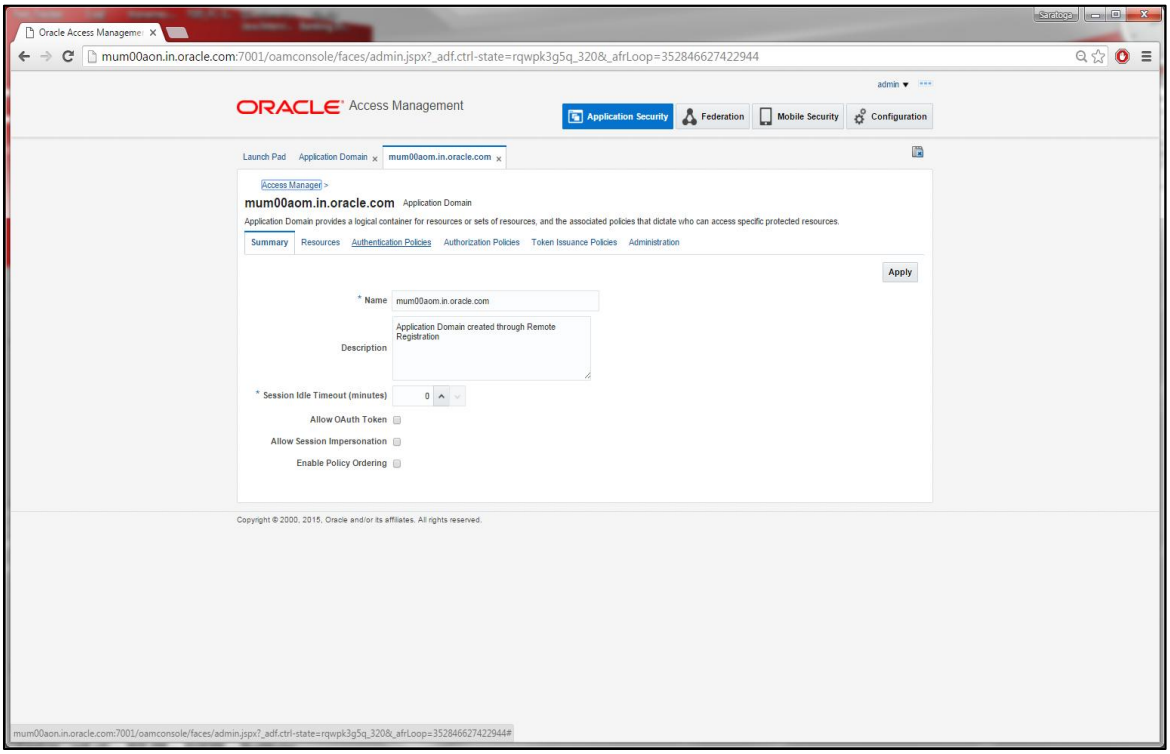

32. Now to add the Scheme to a particular resource, go to Application Domains



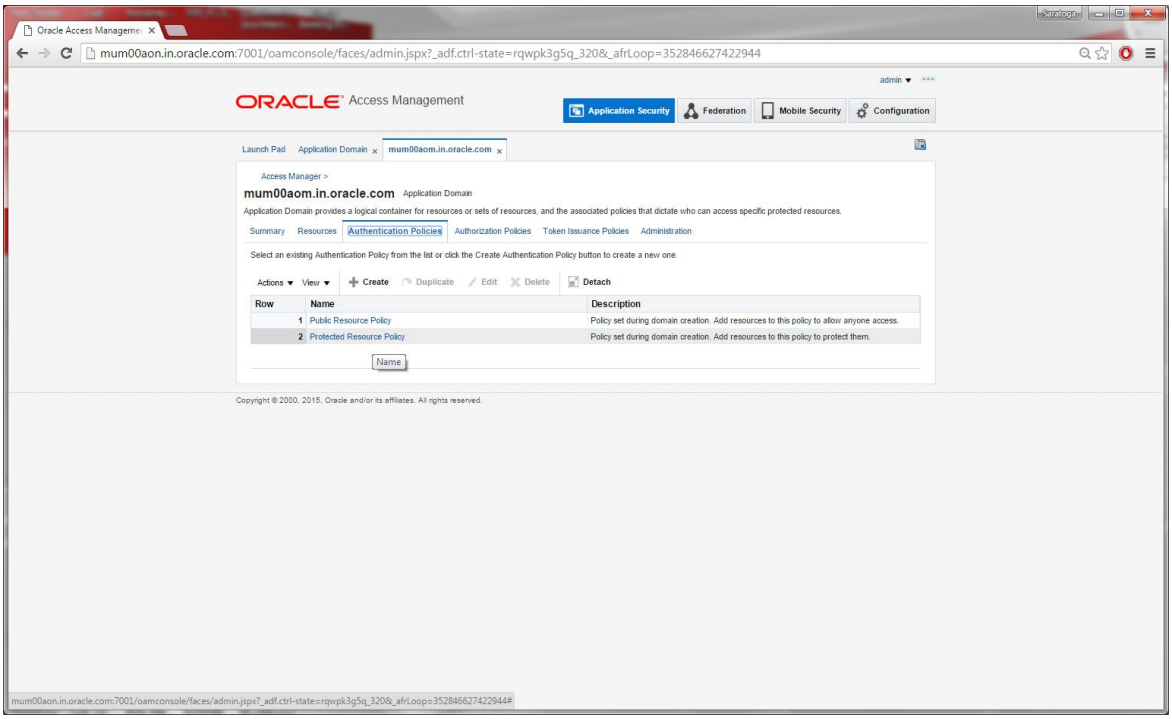
33. Click on Search



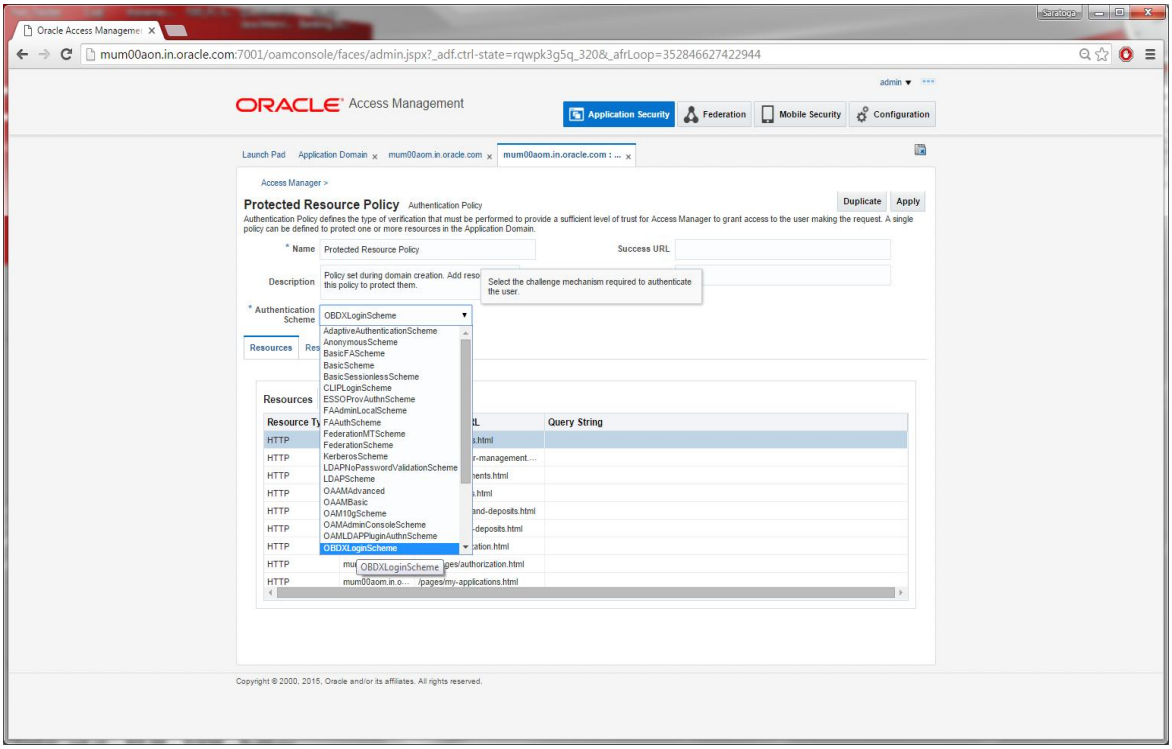

34. Click on the Domain Name



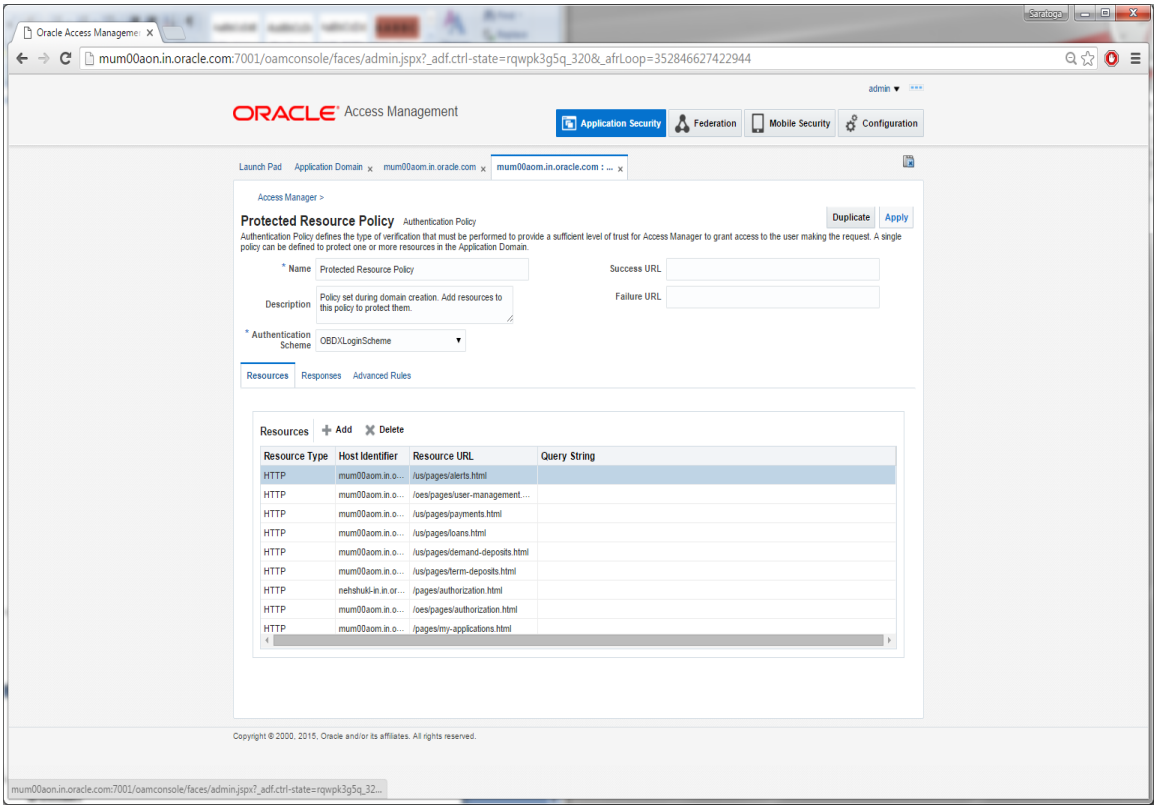
35. Click on the Authentication Policies




36. Click on the Protected Resource Policy



37. Select the OBDXLogicScheme from the drop-down




38. Click on the Apply

Following inputs are to be posted to the OAM Server after creating the LoginScheme and adding it to the Resource:

Username and Password

Request-Id from the re-directed URL

These two inputs will be posted to **auth_cred_submit** on the OAM Server.

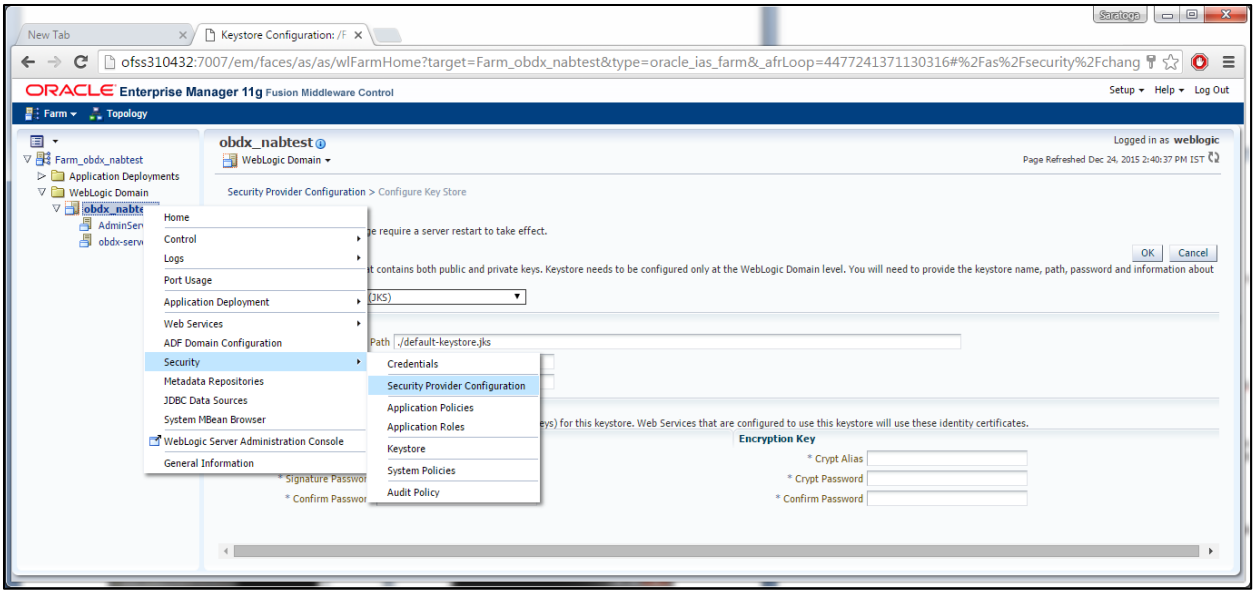
Also, in-case of any error re-direct to login-failure URL. Get the p_error_code from the URL and perform the error handling for it.

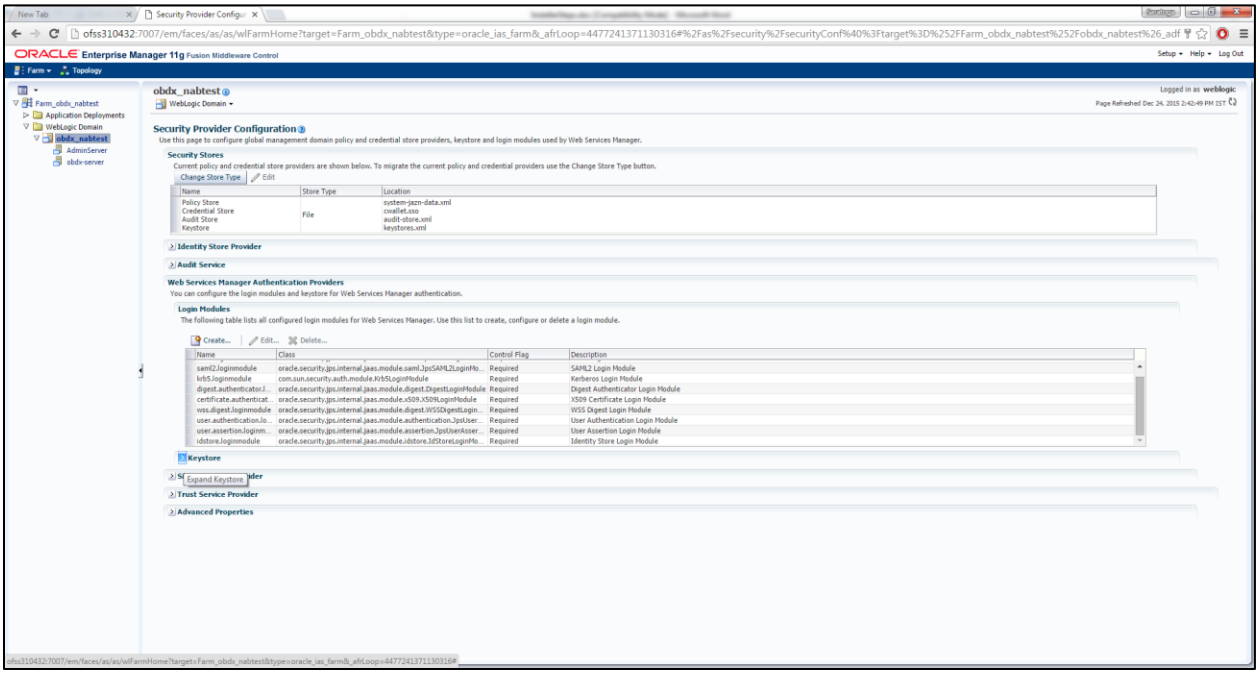
## 5.4 Integration with OBP (using OWSM Configurations)

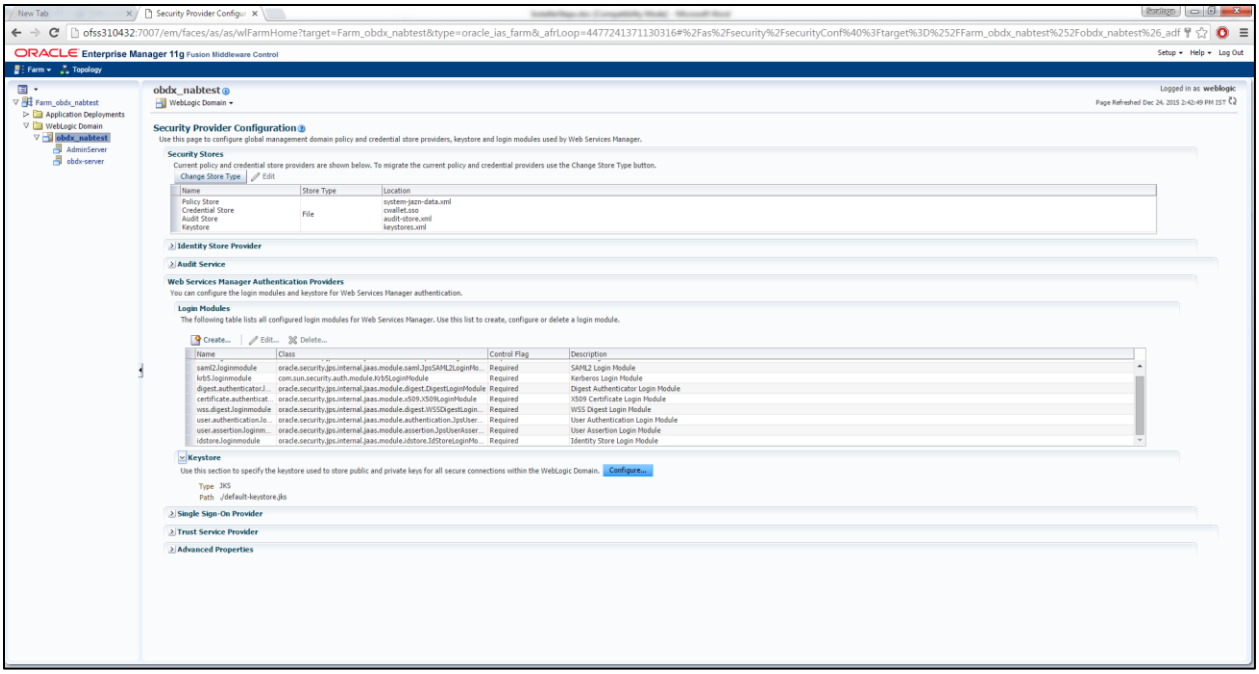
OBDX Application server Weblogic domain is required to configure the owsm security to access the OBP webservices. This step is not required for OBDX wallets / FCUBS flavors.

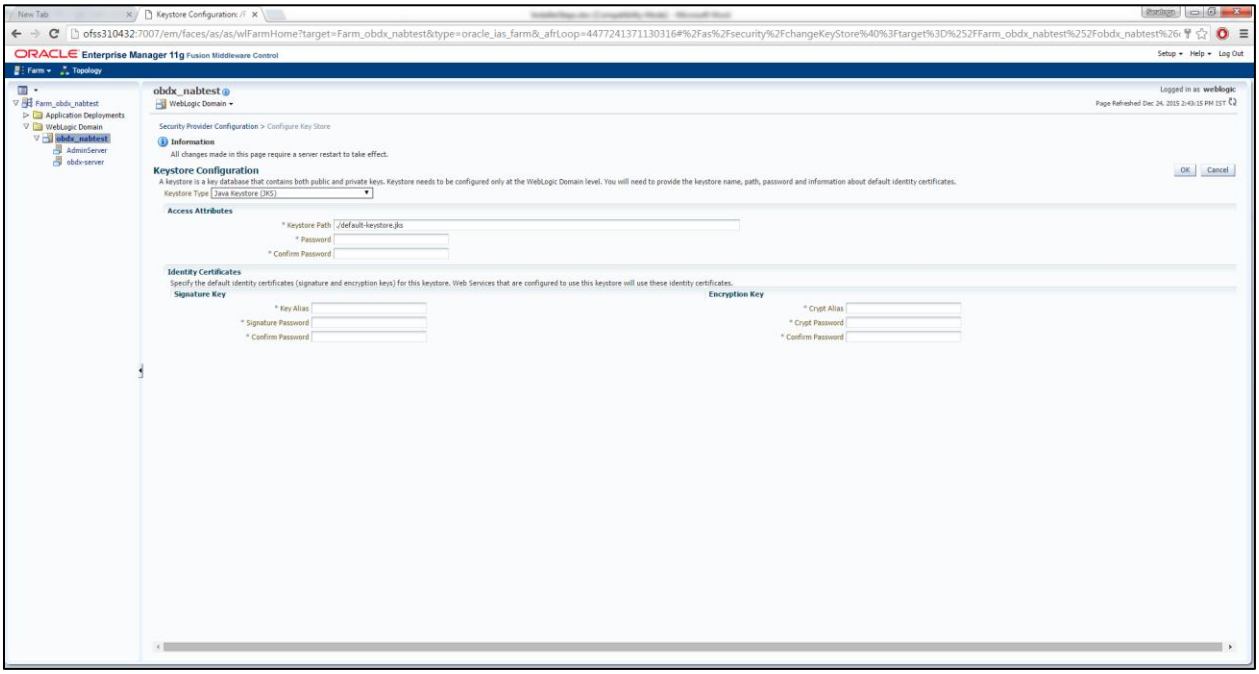
Please follow the below steps to perform the post installation steps:

- Copy the default-keystore.jks in “<DomainName>/config/fmwconfig/”.
- Go to the em URL. For example, localhost:7001/em and follow the steps shown in the screenshot,


Keystore Configuration: /F
ofss310432:7007/em/faces/as/as/wlFarmHome?target=Farm_obdx_nabtest&type=oracle_ias_farm&_afrLoop=4477241371130316#%2Fas%2Fsecurity%2Fchang
ORACLE Enterprise Manager 11g Fusion Middleware Control
Setup
Help
Log Out
Farm
Topology
Farm_obdx_nabtest
Application Deployments
WebLogic Domain
obdx_nabtest
AdminServer
obdx-server
obdx_nabtest
WebLogic Domain
Logged in as weblogic
Page Refreshed Dec 24, 2015 2:40:37 PM IST
Security Provider Configuration > Configure Key Store
Home
Control
Logs
Port Usage
Application Deployment
Web Services
ADF Domain Configuration
Security
Metadata Repositories
JDBC Data Sources
System MBean Browser
WebLogic Server Administration Console
General Information
Credentials
Security Provider Configuration
Application Policies
Application Roles
Keystore
System Policies
Audit Policy
OK
Cancel
Path
./default-keystore.jks
Encryption Key
* Crypt Alias
* Crypt Password
* Confirm Password


ofss310432:7007/em/faces/as/as/wlFarmHome?target=Farm_obdx_nabtest&type=oracle_ias_farm&_afrLoop=4477241371130316#%2Fas%2Fsecurity%2FsecurityConf%40%3Ftarget%3D%252FFarm_obdx_nabtest%252Fobdx_nabtest%26_adf
ORACLE Enterprise Manager 11g Fusion Middleware Control
obdx_nabtest
Security Provider Configuration
Use this page to configure global management domain policy and credential store providers, keystore and login modules used by Web Services Manager.
Security Stores
Current policy and credential store providers are shown below. To migrate the current policy and credential providers use the Change Store Type button.
Change Store Type
Edit
Identity Store Provider
Audit Service
Web Services Manager Authentication Providers
You can configure the login modules and keystore for Web Services Manager authentication.
Login Modules
The following table lists all configured login modules for Web Services Manager. Use this list to create, configure or delete a login module.
Create...
Edit...
Delete...
Keystore
Trust Service Provider
Advanced Properties

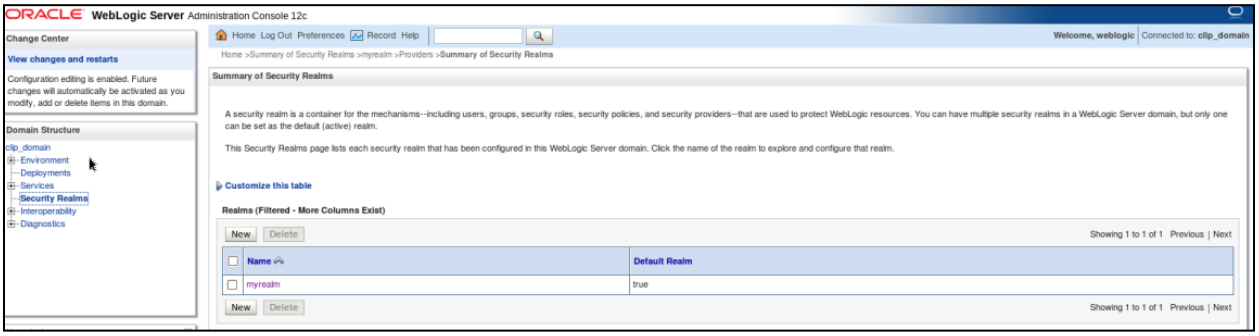

ORACLE Enterprise Manager 11g Fusion Middleware Control
obdx_nabtest
Security Provider Configuration
Security Stores
Identity Store Provider
Audit Service
Web Services Manager Authentication Providers
Login Modules
Keystore
Single Sign-On Provider
Trust Service Provider
Advanced Properties


ORACLE Enterprise Manager 11g Fusion Middleware Control
obdx_nabtest
Keystore Configuration
Access Attributes
Identity Certificates
Signature Key
Encryption Key

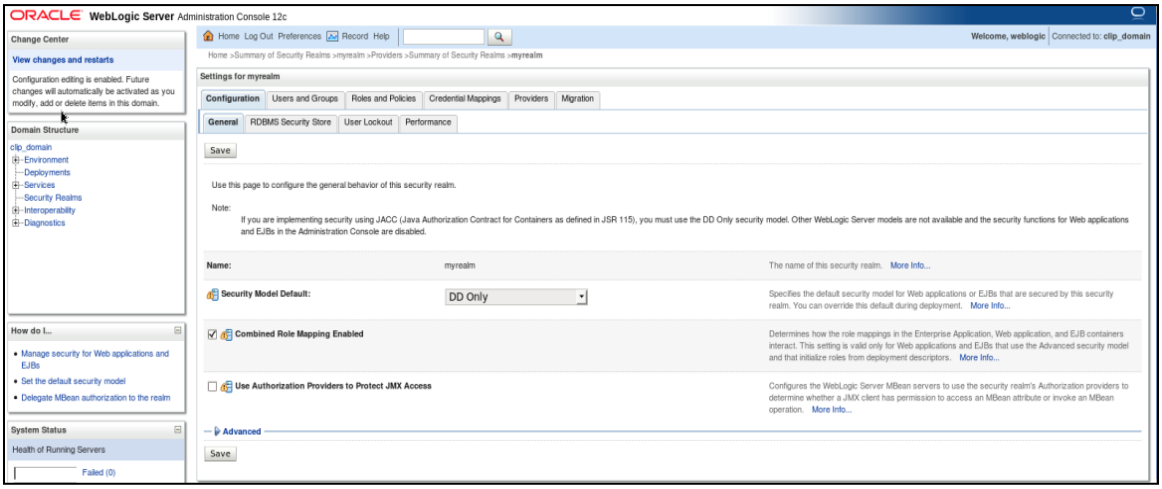
## 5.5 LDAP Provider Configuration in OBP

** This configuration is applicable only in OBP integration.

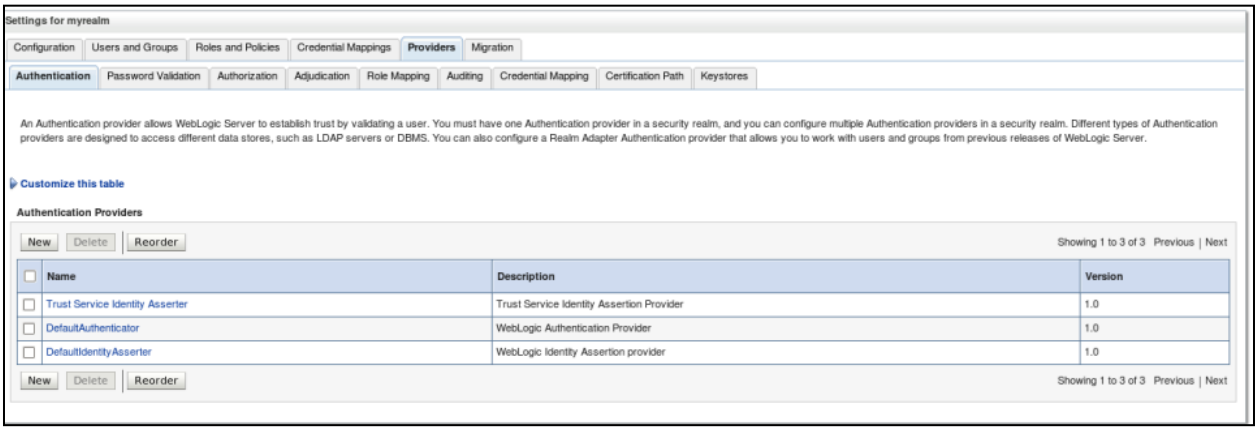
- Login into OBP Host Weblogic Admin console
- Click Security Realms




- Click myrealm



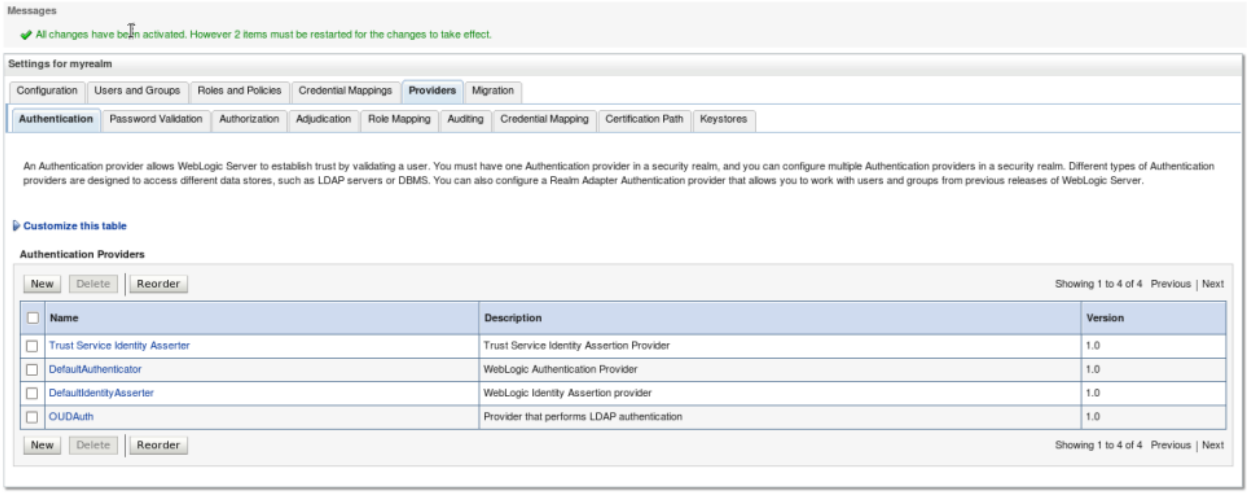

- Click Providers



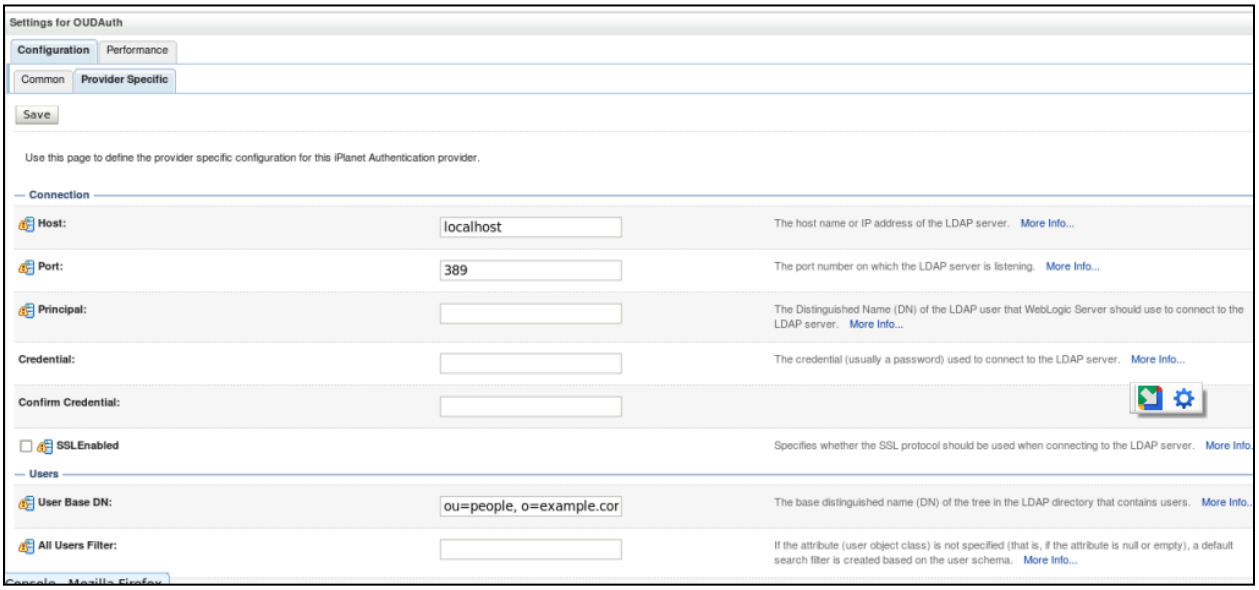
- Add new Authentication Providers


- Enter authentication provider name e.g. OUDAuth & select Type as 'IPlanetAuthenticator'

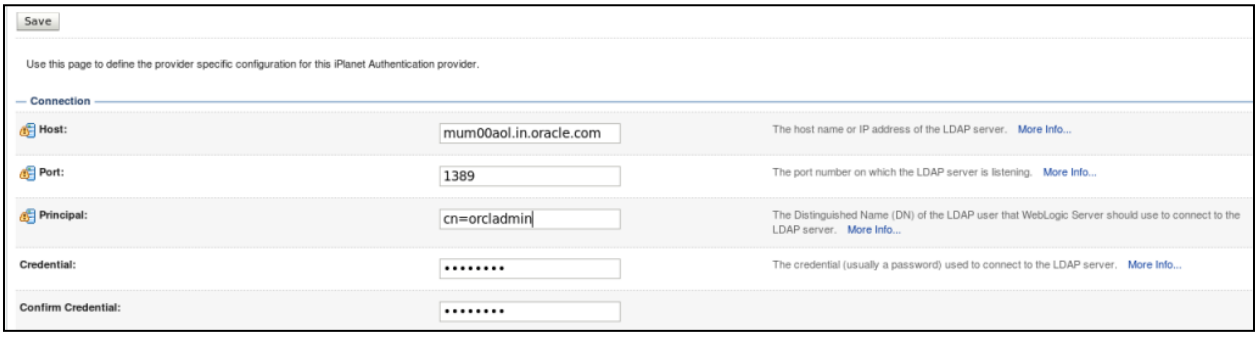

- Click Ok



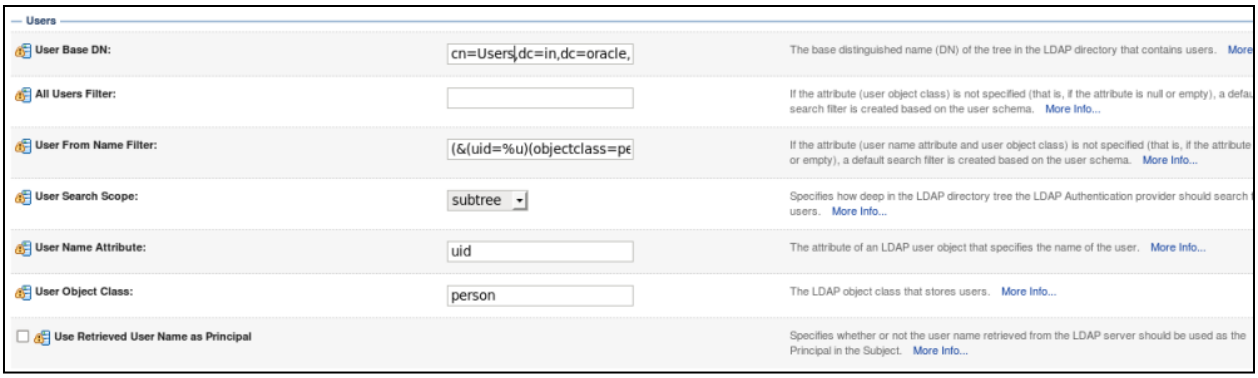
- Select OUDAuth and go to Provider Specific tab.



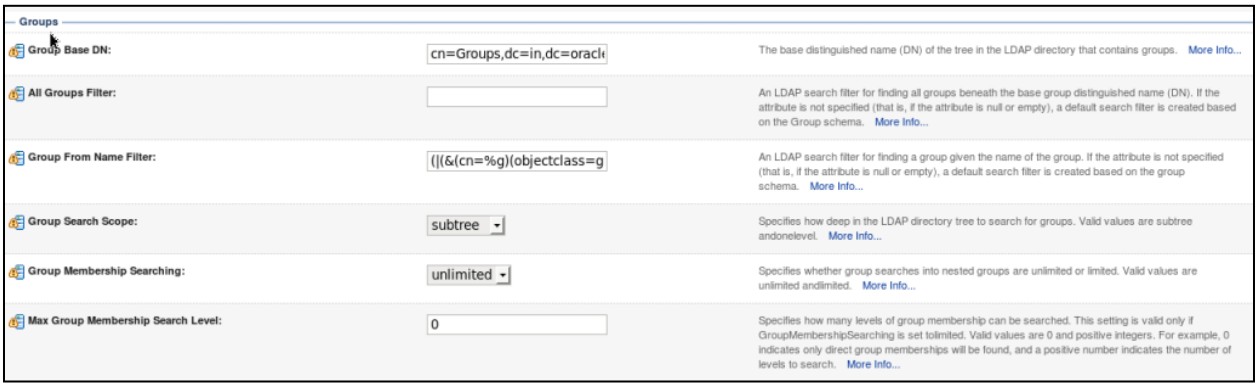

- Enter details for section ‘Connection’
- Host: LDAP server address
- Port: LDAP server port
- Principal: e.g. ‘cn=orcladmin’
- enter password



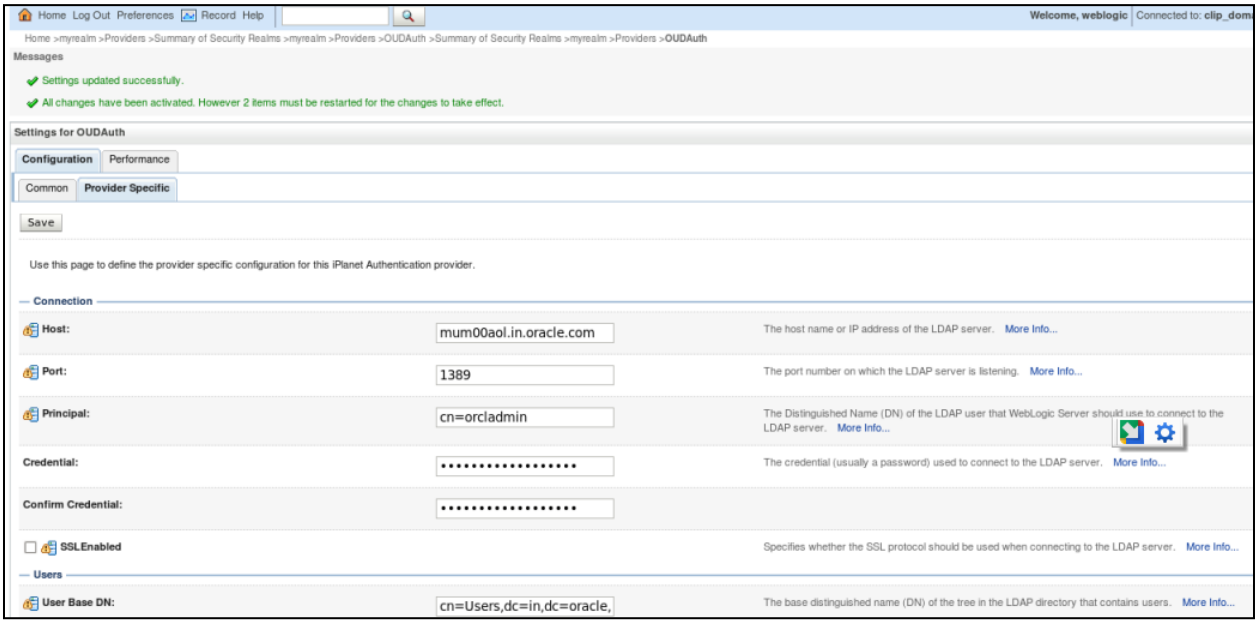
- Enter details for section ‘Users’
    a. User Base DN: ‘cn=Users,dc=in,dc=oracle,dc=com’




- Enter details for section ‘Groups’
- User Base DN: ‘cn=Groups,dc=in,dc=oracle,dc=com’



- Click on Save




## 5.6 Advanced Configuration in OBP SOA Domain

- Please verify whether property "**-Dfacade.security.check=false**" in setDomainEnv.sh of OBP SOA domain is set or not. If not add the property in EXTRA_JAVA_PROPERTIES as below in setDomainEnv.sh of OBP SOA domain.
    - EXTRA_JAVA_PROPERTIES="-Dweblogic.configuration.schemaValidationEnabled=false -Duser.home=${OBP_ORACLE_HOME}/config ${ORACLE_MEM_ARGS} ${EXTRA_JAVA_PROPERTIES} **-Dfacade.security.check=false**"
- *Please note that this configuration is applicable in OBP integration only & the above changes has to be done in OBP SOA domain.

### 5.6.1 Keystore XML movement in OBP

- Please take a backup of the keystores.xml file generated for the newly created domain in weblogic.
    - e.g. location for keystores.xml file
    - /home/Oracle/Middleware/Oracle_Home/user_projects/domains/obdx_domain/config/fmwconfig
- Now copy the keystores.xml file from the pre installed IDM domain to the newly created domain in weblogic.
    - e.g. path for keystores.xml file in IDM domain
    - /home/fmw_10.3.6/Middleware/user_projects/domains/idm_domain/config/fmwconfig
- Restart All the servers of OBDX domain.

# 6. Verification Steps

1. Database setup verification:
    - Check whether the user , role and tablespace corresponding to the installation schema is properly created. It can be determined by looking for the schema objects in the sys dba user.
        - Tablespace Verification

          select * from dba_tablespaces
        - User Verification

          select * from dba_users
        - Role Verification

          select * from dba_roles
    - Check if database objects are created through DDL scripts. Verify it by looking for various tables inside the objects of the created schema.
        - Table objects

          select * from user_tables
        - View objects

          select * from user_views
        - Synonym objects

          select * from user_synonyms
    - Check for the seeding of the data in the tables through select SQL queries.

      For example, select * from digx_fw_config_all_b.
2. Application Health Check:
    - Check for the status of managed servers created under the cluster. By default, post installation managed server are not started. Therefore, start the managed server first and check for their running status. Below other steps should be verified post this step only.
    - Check whether different data sources are created corresponding to the installation option. For instance, OBP and Wallet installation will have only DIGX data source whereas UBS installation will have both B1A1 and DIGX data sources. Also, verify the data source by testing it through the weblogic admin console itself.
    - Check for the status of the deployments. Once the managed server is up, all the deployments should be in the active status.
3. Sanity Testing:
    - Start hitting the urls if above steps has been verified.

      For example, managed server is ofssxz and managed server port is 7002, then the url for fetching the gender list would be http://ofssxyz:7002/digx/v1/enumerations/gender.

# 7. Appendix

### a. Export encryption key

- On the OES domain go to path  fmw_home/oracle_common/common/bin
- ./wlst.sh this take to wlst prompt (Don't Connect to wlst)
- Then execute the below command

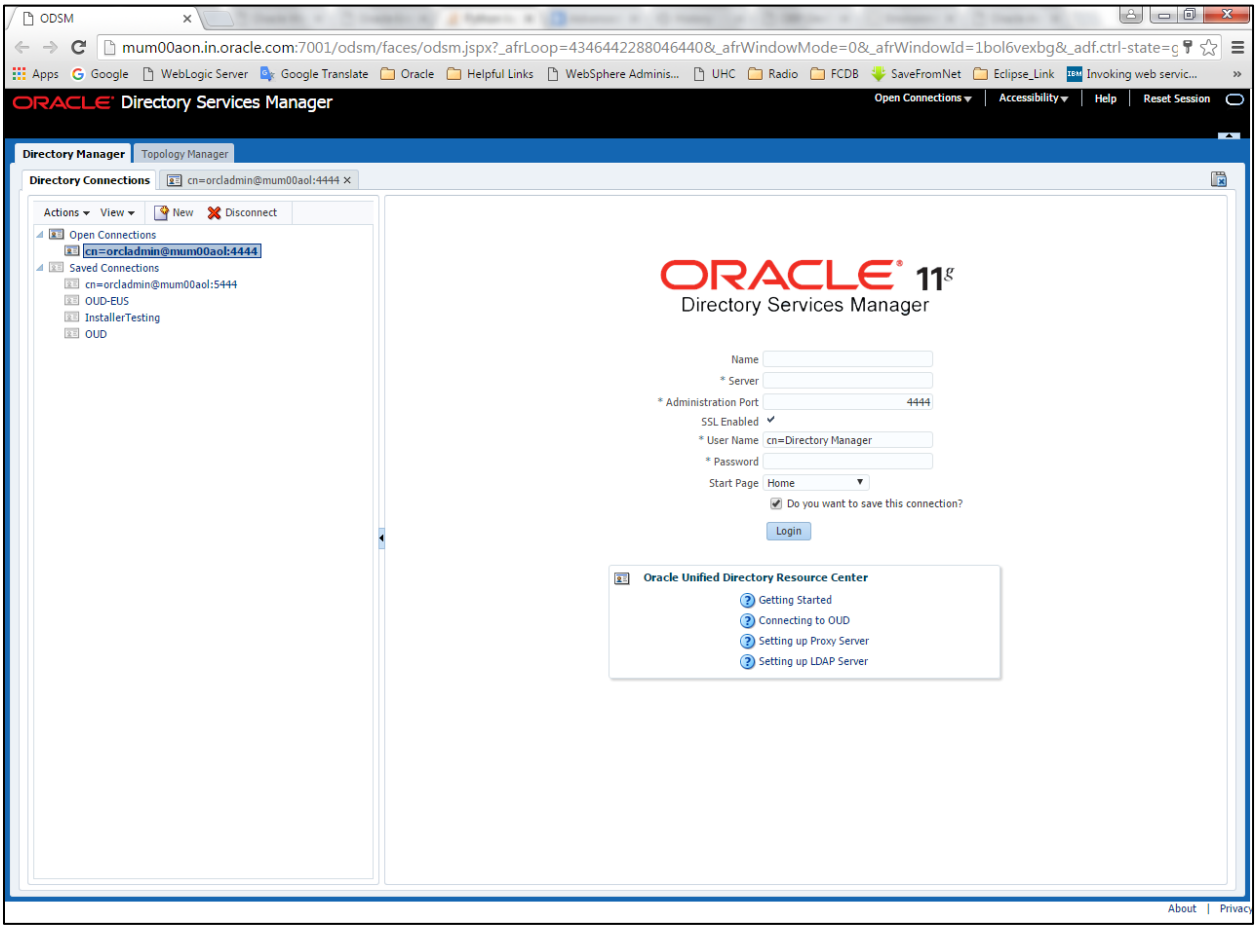
```
exportEncryptionKey(jpsConfigFile="/install/app/product/fmw_ps2/user_projects/
domains/apmps2_domain/config/fmwconfig/jps-config.xml",
keyFilePath="/install/app/cwallet" ,keyFilePassword="welcome1")
```

- After this command is run the master key from the bootstrap wallet of apmps2_domain is exported in to the ewallet.p12
- Sample command to check the contents of the wallet

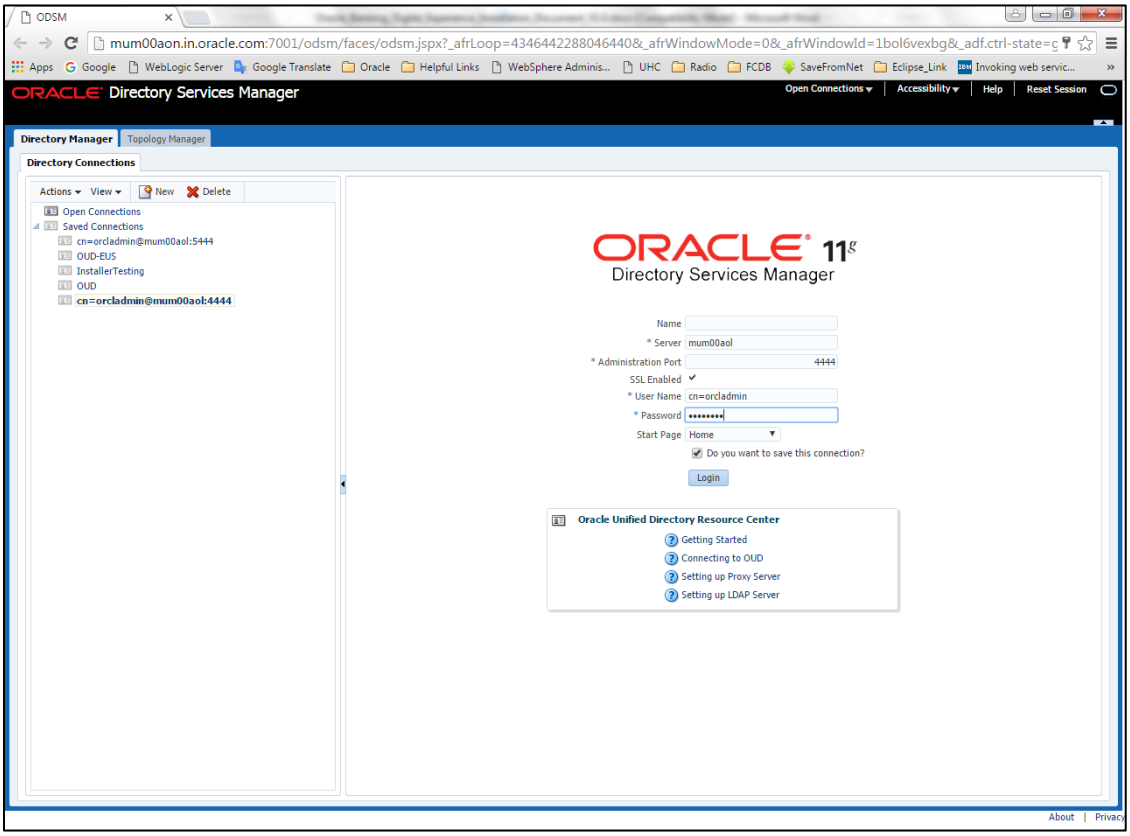
/install/app/product/fmw_oes/oracle_common/bin/orapki wallet display -wallet /install/app/product/fmw_oes/user_projects/domains/obp_domain/config/fmwconfig/bootstrap/cwallet.sso

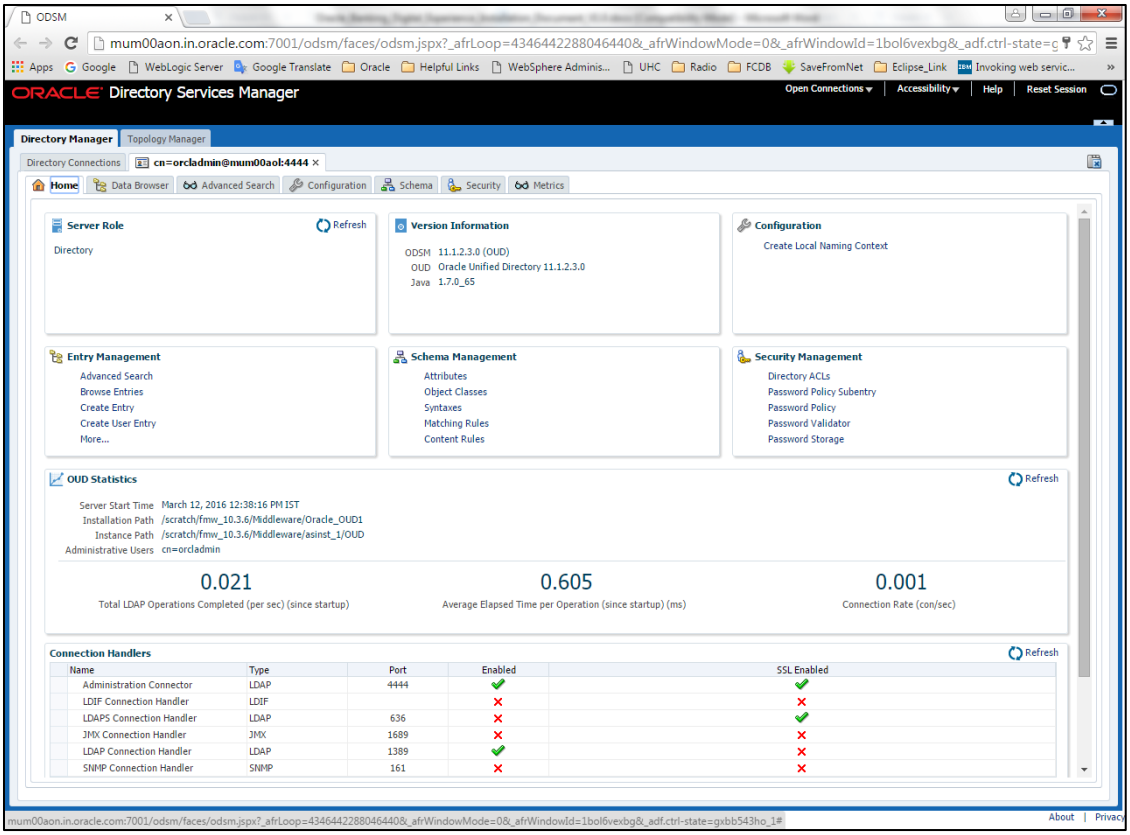
### b. Create fcPerson Object and its attribute

- Open ODSM console

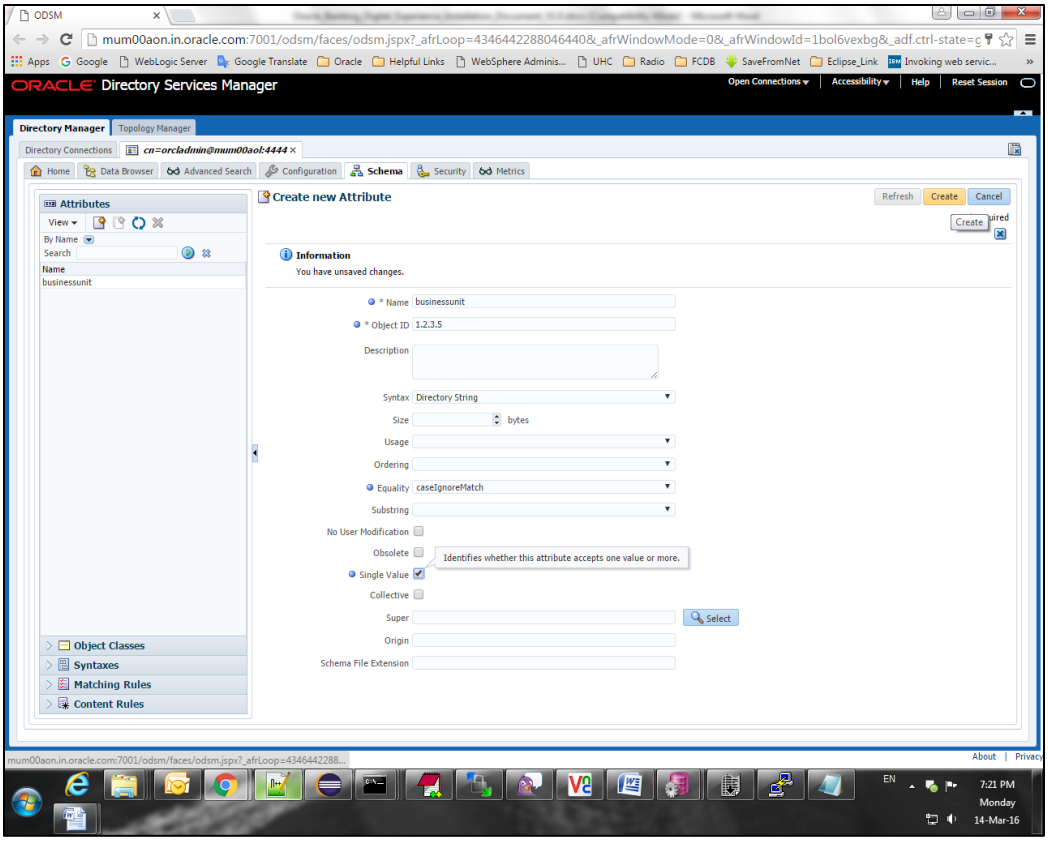


- Connect to OUD

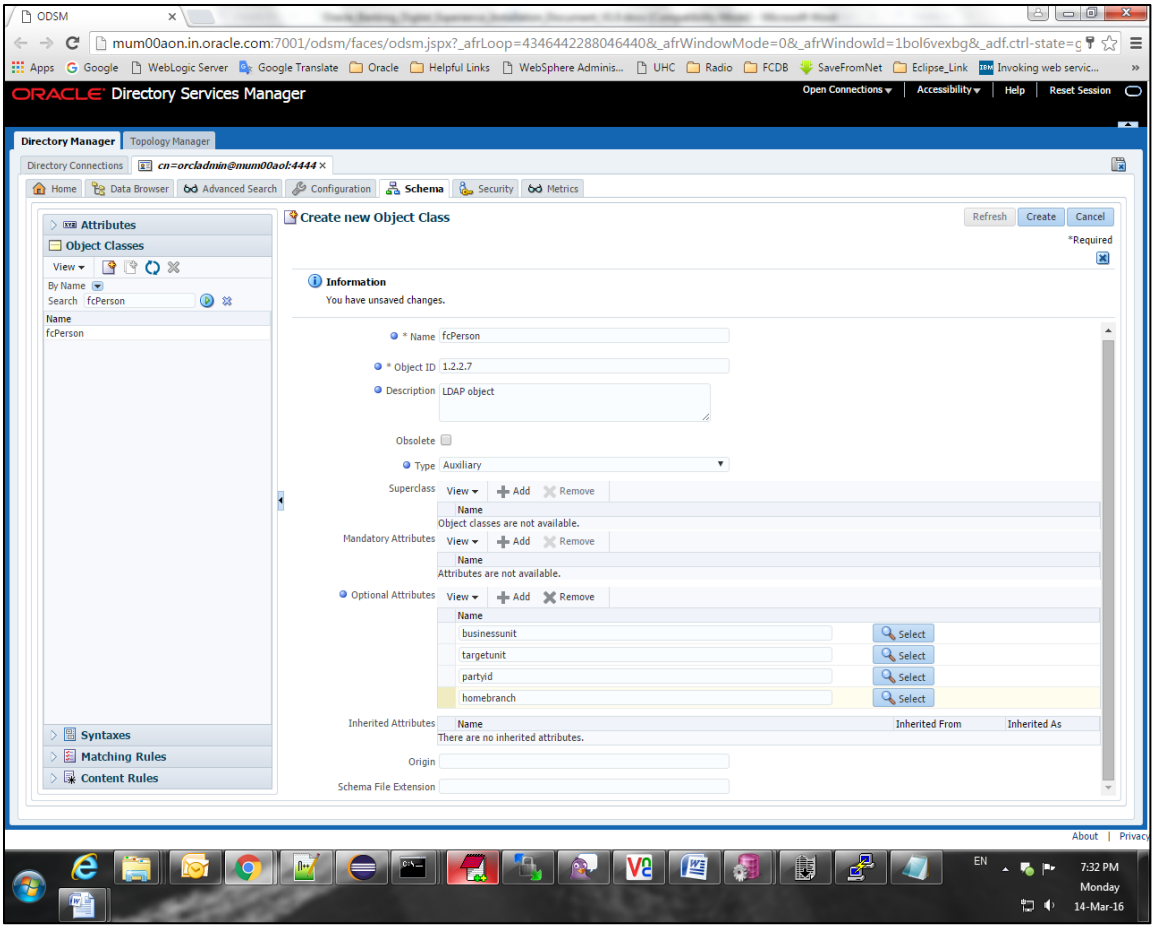





- Select tab – Schema : Create new attribute under Attributes section
    i. create attribute ‘businessunit’




- Give Object ID a unique numerical sequence.
- Select ‘caseIgnoreMatch’ for Equality dropdown.
- Check Single Value checkbox.
- Click create
    i. Now create other attributes ‘targetunit’, ‘homebranch’, ‘partyid’ same as above.
    ii. Create new LDAP Object class named ‘fcPerson’ under Object classes




ii. Add the created attributes in Optional Attributes section.

iii. Click Create button.

## 7.1 UI Deployment in OHS (Oracle Http Server)

UI deployable will be available in Installer directory in zip format. *(This task is performed by installer but its details are mentioned below for verification purpose.)*

Please follow the below instructions for UI deployment: -

- Extract UI deployable zip in any directory on OHS server VM, for example we extract the UI in "/install/obdx" directory,
- Go to {$WT_HOME}/instances/{$instance_name}/config/OHS/{$ohs_server_name} and open "httpd.conf" file & add below tags at the end of file, save it.

*<IfModule mod_deflate.c>*

*SetOutputFilter DEFLATE*

*SetEnvIfNoCase Request_URI \.(?:gif|jpe?g|png)$ no-gzip dont-vary*

*SetEnvIfNoCase Request_URI \.(?:exe|t?gz|zip|bz2|sit|rar)$ no-gzip dont-vary*

*SetEnvIfNoCase Request_URI \.(?:pdf|doc?x|ppt?x|xls?x)$ no-gzip dont-vary*

*SetEnvIfNoCase Request_URI \.avi$ no-gzip dont-vary*

*SetEnvIfNoCase Request_URI \.mov$ no-gzip dont-vary*

*SetEnvIfNoCase Request_URI \.mp3$ no-gzip dont-vary*

*SetEnvIfNoCase Request_URI \.mp4$ no-gzip dont-vary*

*</IfModule>*

*ExpiresActive On*

*<IfModule mod_expires.c>*

*ExpiresByType image/gif "access plus 3 months"*

*ExpiresByType image/jpeg "access plus 3 months"*

*ExpiresByType application/x-javascript "access plus 3 months"*

*ExpiresByType text/css "access plus 3 months"*

*ExpiresByType text/javascript "access plus 3 months"*

*ExpiresByType image/png "access plus 3 months"*

*ExpiresByType application/x-shockwave-flash "access plus 3 months"*

*ExpiresByType application/javascript "access plus 3 months"*

*ExpiresByType image/x-icon "access plus 3 months"*

*</IfModule>*

*AddDefaultCharset utf-8*

- Search for Tag "<IfModule alias_module>" & add the below alias according to your domain names, *i.e. "us", so URL will be like http://{ohs_host}:{ohs_port}/us/pages/{pageName}.html*

  *Alias /{domain_name}/framework "/install/obdx/ui/framework"*

  *Alias /{domain_name} "/install/obdx/ui/web/static-files"*

## 7.2 OHS Integration with Application Server

OBDX application server is required to integrate with Oracle Http Server (OHS). *(This task is performed by installer but its details are mentioned below for verification purpose.)*

- Go to {$WT_HOME}/instances/{$instance_name}/config/OHS/{$ohs_server_name} and open "httpd.conf" file & add below mentioned location tag . Please change the obdx server host name & server port no for below tag according to your environment.

  *<Location /digx>*

  *SetHandler weblogic-handler*

  *WebLogicCluster "{$obdx_server_host_name}":"{$obdx_server_port}"*

  *</Location>*

**Note :** JRF deployables must be targeted to all obdx servers including OPSS datasource.

## Library Mapping screenshot

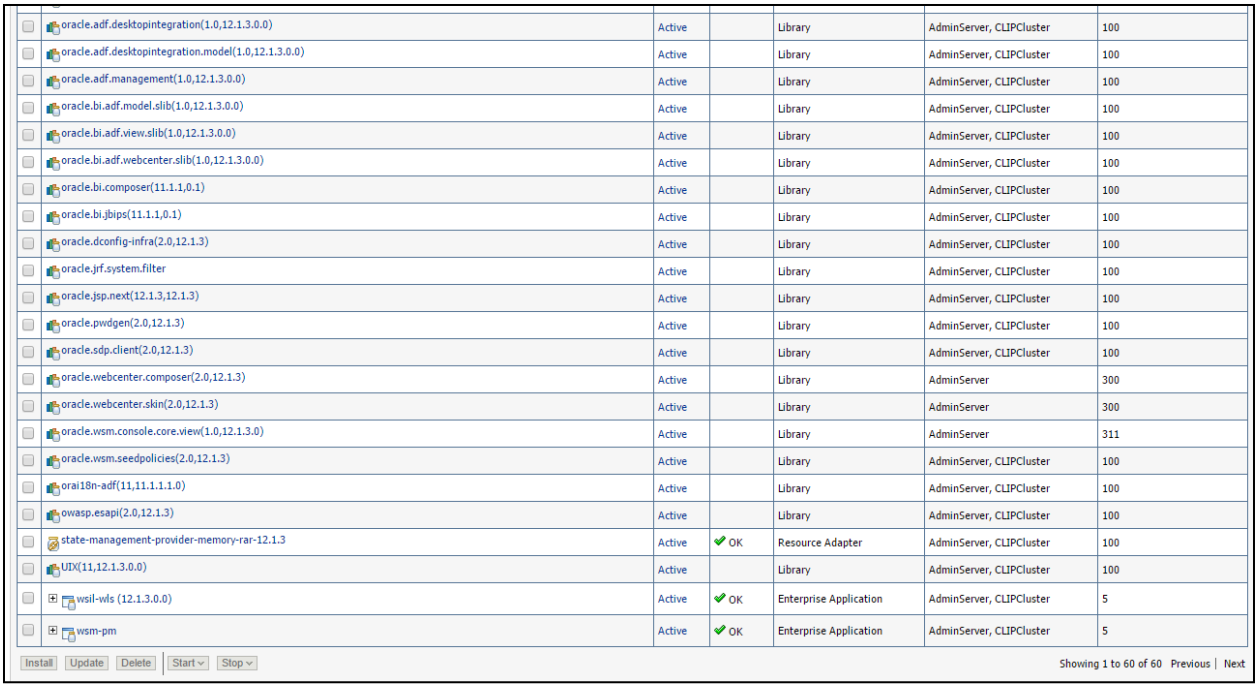
Customize this table

Deployments

Install | Update | Delete | Start | Stop

Showing 1 to 60 of 60 Previous | Next

| Name | State | Health | Type | Targets | Deployment Order |
|---|---|---|---|---|---|
| adf.oracle.businesseditor(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| adf.oracle.domain(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| adf.oracle.domain.webapp(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| coherence-transaction-rar | Active | OK | Resource Adapter | AdminServer, CLIPCluster | 100 |
| com.ofss.digx.appx.service.rest | Active | OK | Enterprise Application | CLIPCluster | 0 |
| DMS Application (12.1.3.0.0) | Active | OK | Web Application | AdminServer, CLIPCluster | 5 |
| em | Active | OK | Enterprise Application | AdminServer | 400 |
| emagentsdkimplpriv_jar(11.2.0.1.0,12.1.0.3.0) | Active | | Library | AdminServer | 100 |
| emagentsdkimpl_jar(11.2.0.1.0,12.1.0.3.0) | Active | | Library | AdminServer | 100 |
| emagentsdk_jar(11.2,12.1.0.3.0) | Active | | Library | AdminServer | 100 |
| emas | Active | | Library | AdminServer | 100 |
| emcore | Active | | Library | AdminServer | 100 |
| emcoreclient_jar | Active | | Library | AdminServer | 100 |
| emcorecommon_jar | Active | | Library | AdminServer | 100 |
| emcoreconsole_jar | Active | | Library | AdminServer | 100 |
| emcoreintsdk_jar(11.2.0.1.0,12.1.0.0.0) | Active | | Library | AdminServer | 100 |
| emcorepbs_jar | Active | | Library | AdminServer | 100 |
| emcoresdkimpl_jar(11.2.0.1.0,12.1.0.0.0) | Active | | Library | AdminServer | 100 |
| emcoresdk_jar(11.2.0.1.0,12.1.0.0.0) | Active | | Library | AdminServer | 100 |
| emcore_jar | Active | | Library | AdminServer | 100 |
| em_core_ppc_pojo_jar | Active | | Library | AdminServer | 100 |
| em_sdkcore_ppc_public_pojo_jar | Active | | Library | AdminServer | 100 |
| jax-rs(1.1,1.9) | Active | | Library | CLIPCluster | 100 |
| jsf(2.1,2.1.7-01-) | Active | | Library | AdminServer, CLIPCluster | 100 |
| jstl(1.2,1.2.0.1) | Active | | Library | AdminServer, CLIPCluster | 100 |
| log4j_jar(1.3,1.2.15) | Active | | Library | AdminServer | 100 |
| obdx.app.core.domain(16.1.0.0.0,20160328104410) | Active | | Library | CLIPCluster | 0 |
| obdx.app.core.patch(16.1.0.0.0,20160328104410) | Active | | Library | CLIPCluster | 0 |
| obdx.app.domain(16.1.0.0.0,20160328104410) | Active | | Library | CLIPCluster | 0 |
| obdx.app.wsdl.domain(16.1.0.0.0,20160328104410) | Active | | Library | CLIPCluster | 0 |
| obdx.externalsystem.ubs(16.1.0.0.0,20160328104410) | Active | | Library | CLIPCluster | 0 |
| obdx.thirdparty.app.domain(16.1.0.0.0,20160328104410) | Active | | Library | CLIPCluster | 0 |
| odl.clickhistory(1.0,12.1.3) | Active | | Library | AdminServer, CLIPCluster | 100 |
| odl.clickhistory.webapp(1.0,12.1.3) | Active | | Library | AdminServer, CLIPCluster | 100 |
| ohw-rcf(5,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| ohw-uix(5,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| oracle.adf.dconfigbeans(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| oracle.adf.desktopintegration(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| oracle.adf.desktopintegration.model(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| oracle.adf.management(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| oracle.bi.adf.model.slib(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |



| | | | | | | |
|---|---|---|---|---|---|---|
| | oracle.adf.desktopintegration(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | oracle.adf.desktopintegration.model(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | oracle.adf.management(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | oracle.bi.adf.model.slib(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | oracle.bi.adf.view.slib(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | oracle.bi.adf.webcenter.slib(1.0,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | oracle.bi.composer(11.1.1,0.1) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | oracle.bi.jbips(11.1.1,0.1) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | oracle.dconfig-infra(2.0,12.1.3) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | oracle.jrf.system.filter | Active | | Library | AdminServer, CLIPCluster | 100 |
| | oracle.jsp.next(12.1.3,12.1.3) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | oracle.pwdgen(2.0,12.1.3) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | oracle.sdp.client(2.0,12.1.3) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | oracle.webcenter.composer(2.0,12.1.3) | Active | | Library | AdminServer | 300 |
| | oracle.webcenter.skin(2.0,12.1.3) | Active | | Library | AdminServer | 300 |
| | oracle.wsm.console.core.view(1.0,12.1.3.0) | Active | | Library | AdminServer | 311 |
| | oracle.wsm.seedpolicies(2.0,12.1.3) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | orai18n-adf(11,11.1.1.1.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | owasp.esapi(2.0,12.1.3) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | state-management-provider-memory-rar-12.1.3 | Active | OK | Resource Adapter | AdminServer, CLIPCluster | 100 |
| | UIX(11,12.1.3.0.0) | Active | | Library | AdminServer, CLIPCluster | 100 |
| | wsil-wls (12.1.3.0.0) | Active | OK | Enterprise Application | AdminServer, CLIPCluster | 5 |
| | wsm-pm | Active | OK | Enterprise Application | AdminServer, CLIPCluster | 5 |

Install | Update | Delete | Start | Stop

Showing 1 to 60 of 60 Previous | Next

## 7.3 Generic Database Configurations

- Add an entry in **DIGX_CS_BANKS_ALL_B** table for the bank code to be used (Bank code also needs to be updated in **ExtSystemConfig.properties).**
- Add an entry in **flx_me_business_unit_b** table for business unit to be used(Business unit also needs to be updated in **ExtSystemConfig.properties**).
- Add an entry in **flx_me_market_entity_b** table for market entity to be used**.**
- Add an entry in **FLX_ME_ME_BU_MAPPING** table for market entity, business unit and bank code to be used**.**
- **WSDL URL** needs to be modified in **digx_fw_config_out_ws_cfg_b** table.
- Add an entry in **digx_fw_config_all_b** table as

  insert into digx_fw_config_all_b (PROP_ID, CATEGORY_ID, PROP_VALUE, FACTORY_SHIPPED_FLAG, PROP_COMMENTS, SUMMARY_TEXT, CREATED_BY, CREATION_DATE, LAST_UPDATED_BY, LAST_UPDATED_DATE, OBJECT_STATUS, OBJECT_VERSION_NUMBER)

  values ('**<CHANNEL mentioned in ExtSystemConfig.properties >**', 'ChannelDatePreferences', 'com.ofss.digx.app.ChannelDateManager', 'Y', 'Indicates the channel date configuration', '', 'ofssuser', sysdate, 'ofssuser', sysdate, 'A', 1);

## 7.4 Host Alert Configuration

**Note:** This configuration is required only in UBS mode.

OBDX (Oracle Banking Digital Experience) exposes a set of alert notification API in the form of SOAP web service to process the host alert. OBDX have built-in framework to process the UBS notification message. It consumes the host notification message's and invoke the respective alert notification web service APIs.

Following deployable should be deployed for processing host alerts:

Deployable

1. com.ofss.digx.appx.service.soap.ear

   Deployable contains the notification APIs to process the host alert.

2. obdx.externalsystem.ubs.notification.mdb

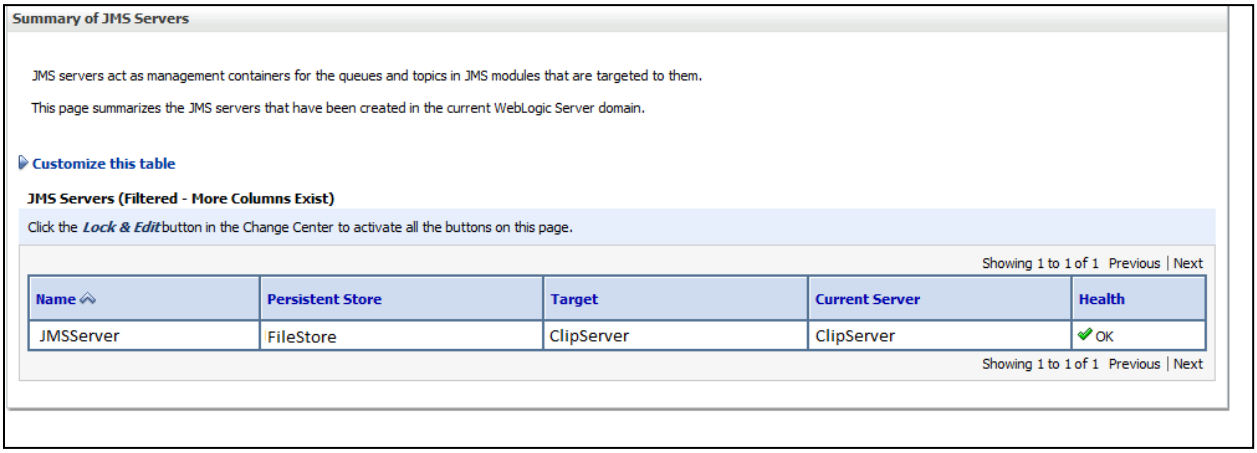
   Deployable contains the required libraries to consume host alert notification.

### Server Configuration

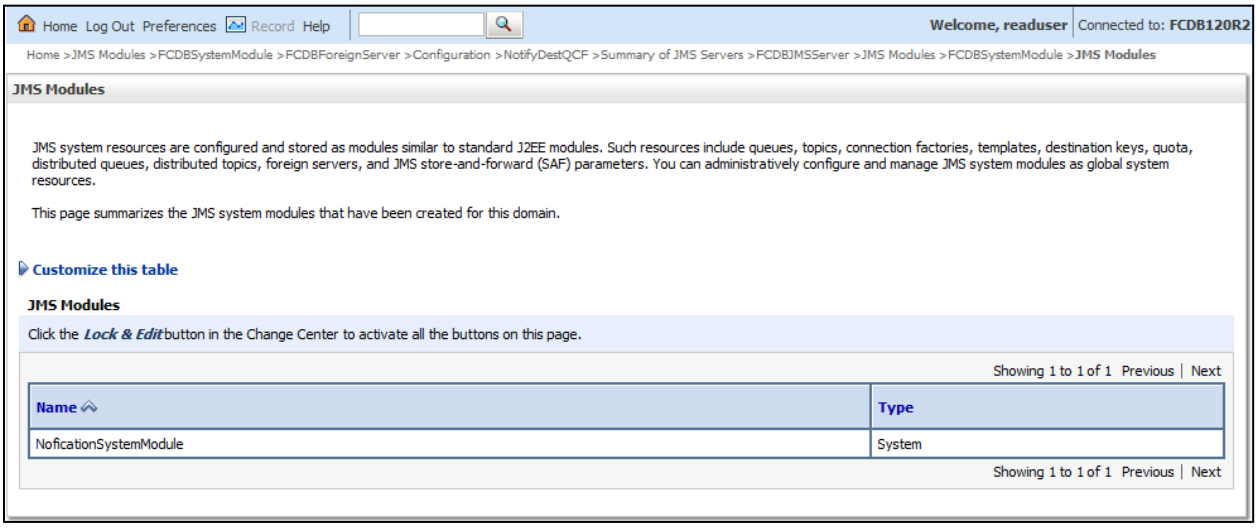
The JMS destination queue and connection factory are required to pick host alerts via queue.

For this following steps need to be followed:

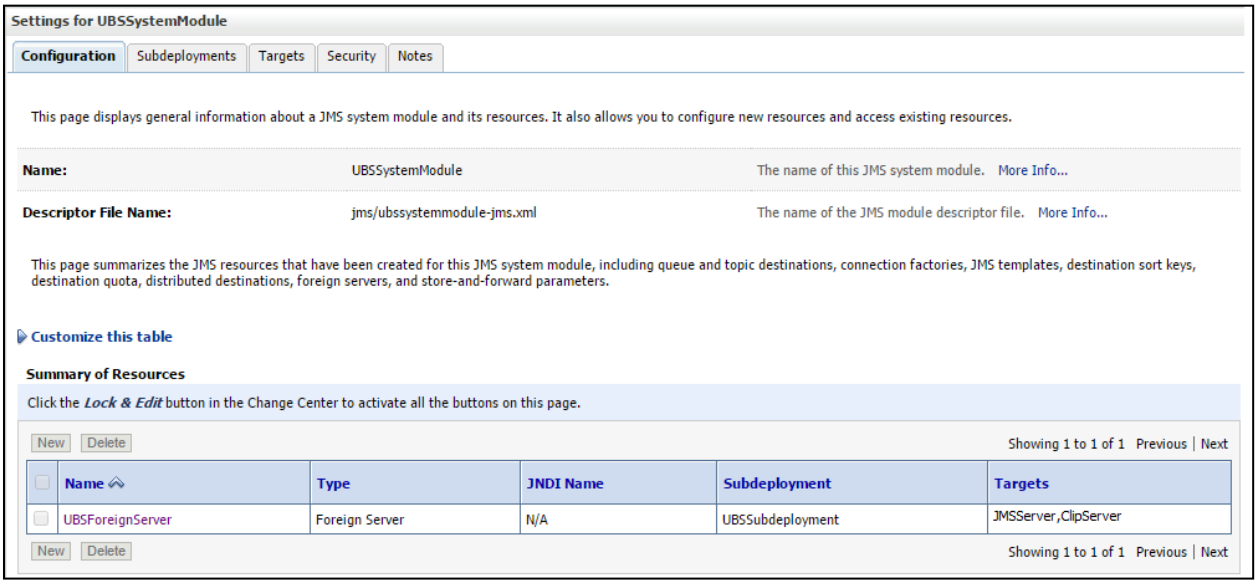
1. Create a JMS Server.



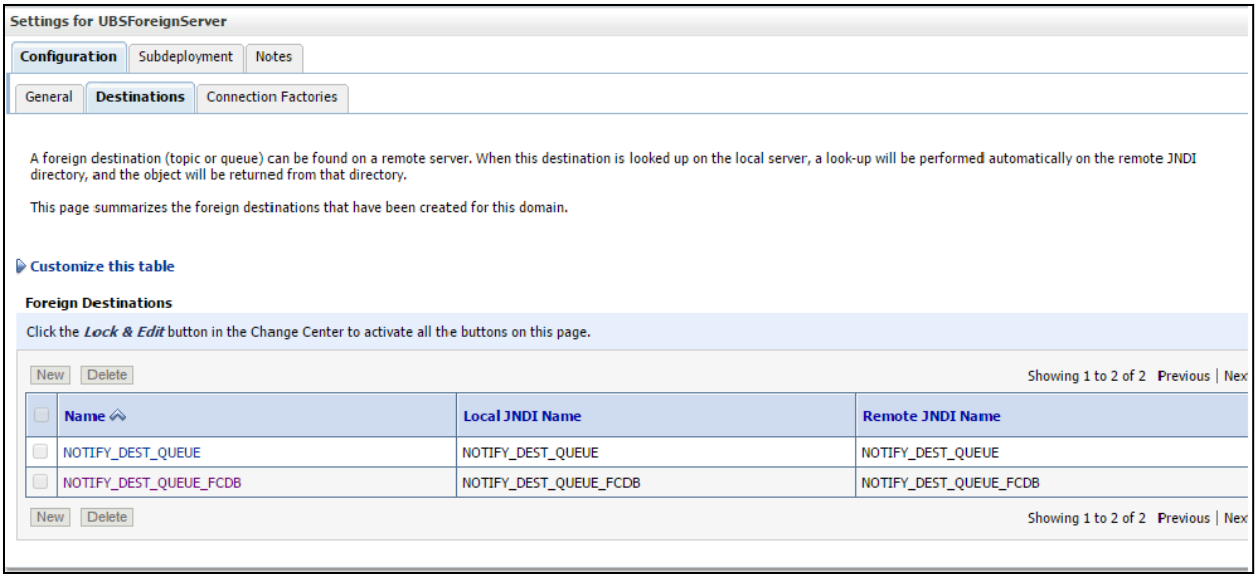
2. Create a JMS module.




3. In JMS module create a Foreign Server.




4. Create a destination in the foreign server. The remote JNDI Name should be the queue name provided by UBS on which the Notification alerts will be sent by the HOST.




5. Create a queue Connection factory. The remote JNDI Name should be the QCF name provided by HOST.