

Oracle® Banking Enterprise Default Management

Management Pack Setup Guide

Release 2.11.0.0.0

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Oracle Banking Enterprise Default Management - Management Pack Setup Guide, Release 2.11.0.0.0

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Preface

The Management Pack Setup Guide provides the steps to set up the Oracle Banking management pack.

This document consists of details on how to add OEM agents on participating Hosts and Databases and to deploy the OBP EM plugin. It covers procedures to create aggregate services and deploy standalone web service war on OEM Weblogic domain. It also provides details on how to create and deploy SEED data to run the OBP plugin.

This preface contains the following topics:

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

Audience

This guide is intended for users who want to monitor servers using Oracle Enterprise Manager (EM).

Documentation Accessibility

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

Access to Oracle Support

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

Organization of the Guide

This document contains:

[Chapter 1 About This Guide](#)

This chapter provides details about the applicability of this guide.

[Chapter 2 Add OEM Agents on Participating Hosts and Databases](#)

This chapter provides steps to add OEM agents on participating host and databases.

[Chapter 3 Deploy OBP EM plugin](#)

This chapter details the procedure to deploy OBP EM plugin.

[Chapter 4 Create Services and Aggregate Service](#)

This chapter provides steps on how to create services and aggregate services, It has the script for creation of monitoring view in enterprise manager.

[Chapter 5 Deploy Standalone Web Service War on OEM Weblogic Domain](#)

This chapter contains the steps to deploy standalone web service war on OEM Weblogic domain.

Chapter 6 Create and Deploy SEED Data to Run OBP Plugin

This chapter provides steps on how to create and deploy seed data to run the OBP plugin.

Related Documents

For more information, see the following documentation:

- For installation and configuration information, see the Oracle Banking Enterprise Default Management Localization Installation Guide - Silent Installation guide.
- For the complete list of licensed products and the third-party licenses included with the license, see the Oracle Banking Enterprise Default Management Licensing Guide.
- For information related to setting up a bank or a branch, and other operational and administrative functions, see the Oracle Banking Enterprise Default Management Administrator Guide.
- For information related to customization and extension, see the Oracle Banking Enterprise Default Management Extensibility Guides for HOST, SOA, and UI.
- For a comprehensive overview of security, see the Oracle Banking Enterprise Default Management Security Guide.
- For recommendations of secure usage of extensible components, see the Oracle Banking Enterprise Default Management Secure Development Guide.

Conventions

The following text conventions are used in this document:

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

1 About This Guide

This guide is applicable for the following products:

- Oracle Banking Platform
- Oracle Banking Enterprise Default Management

References to Oracle Banking Platform or OBP in this guide apply to all the above mentioned products. The chapters and sections that are not applicable for any of the products are listed in this chapter.

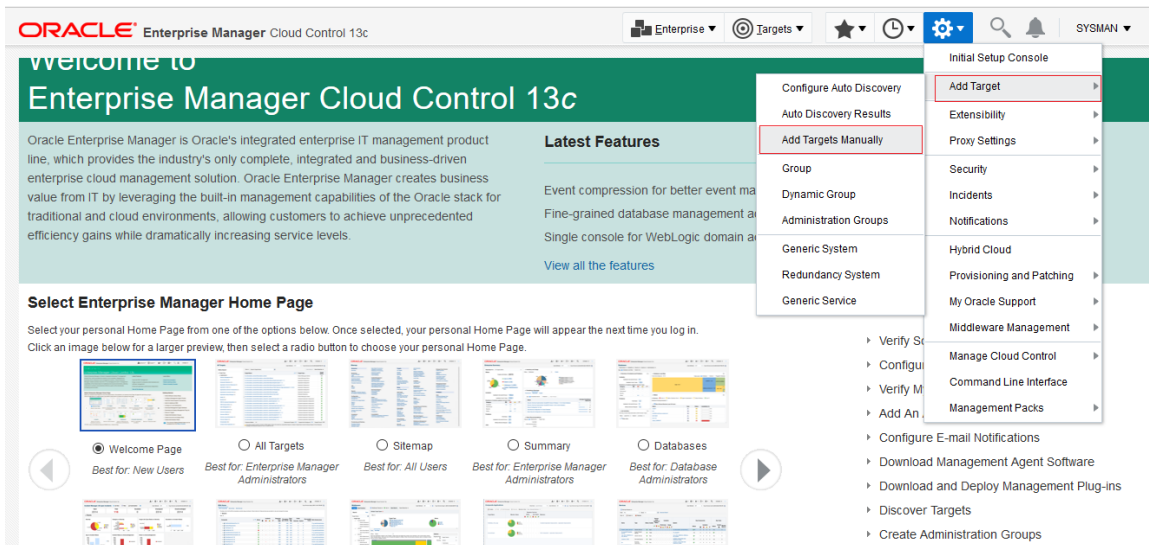
2 Add OEM Agents on Participating Hosts and Databases

We need to add targets to monitor participating host machine and databases as follows. For database we need to add database server machine as a target type host and then target type as database. Please find the following steps to add targets.

2.1 Add Target as Target Type “Host”

1. Log in to EM console.
2. Click “Setup” → “Add Target” → “Add Targets Manually”.

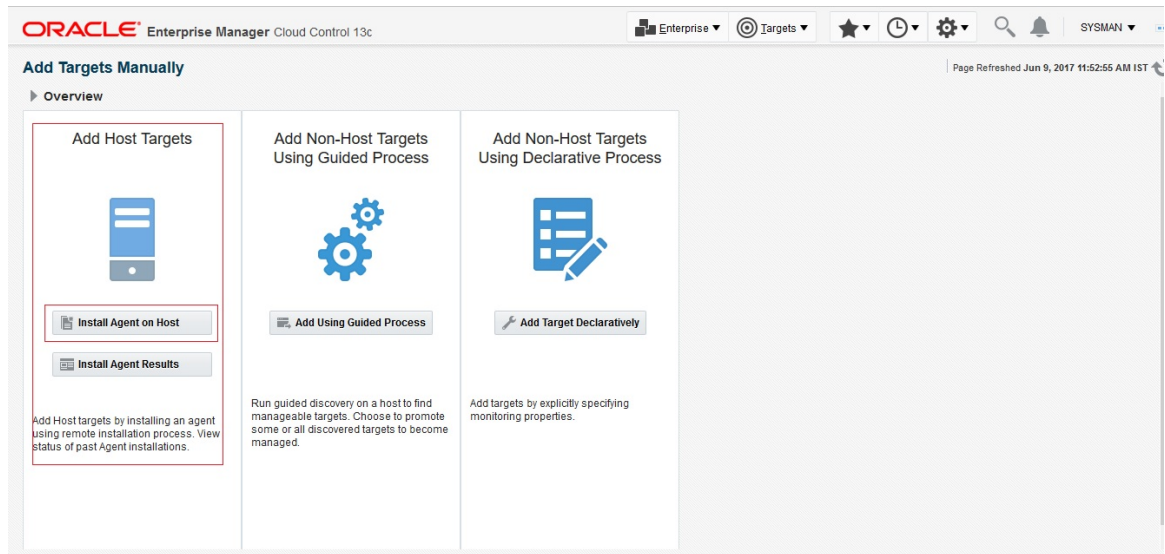
Figure 2–1 Adding Target



3. Log in to EM console. Click “Setup” → “Add Target” → “Add Targets Manually”.
4. Click “Install Agent on Host”.

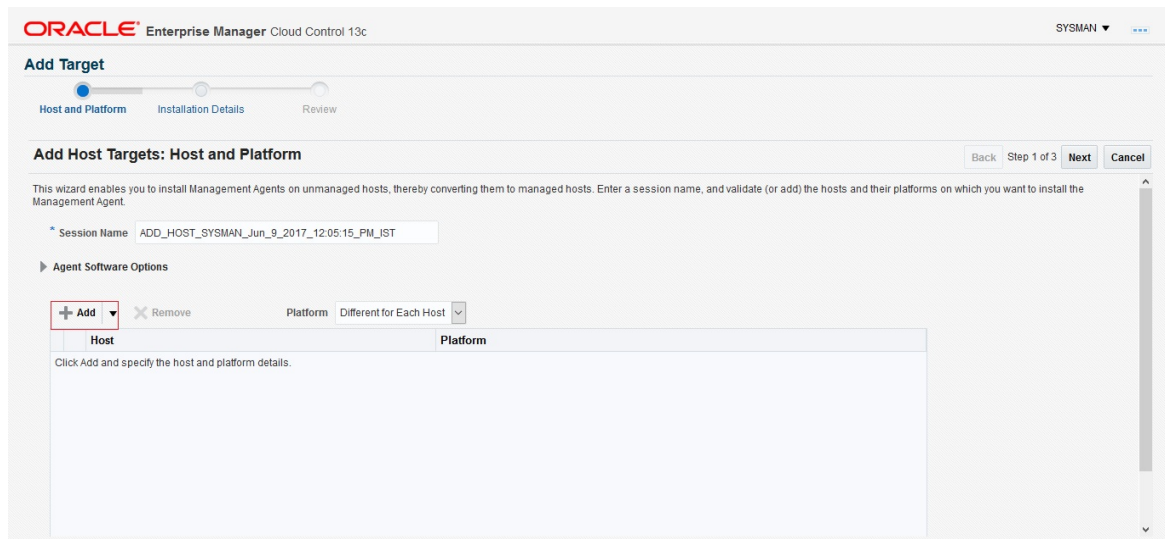
2.1 Add Target as Target Type “Host”

Figure 2–2 Install Agent on Host



5. Click “Add” to enter host name and platform.

Figure 2–3 Adding Host Targets



6. Enter Host Name or IP address and platform and then click “Next”.

Figure 2–4 Host Name or IP address and Platform

7. Enter agent installation details as follows:
 - a. Installation Base Directory: Specify the path of agent installation path.
 - b. Instance Directory: Will be populate after setting Installation Base Directory.
 - c. Privileged Delegation Setting: Check the “sudo” path of the machine and update accordingly.
8. After setting above parameters click “+” to set up Named Credential.

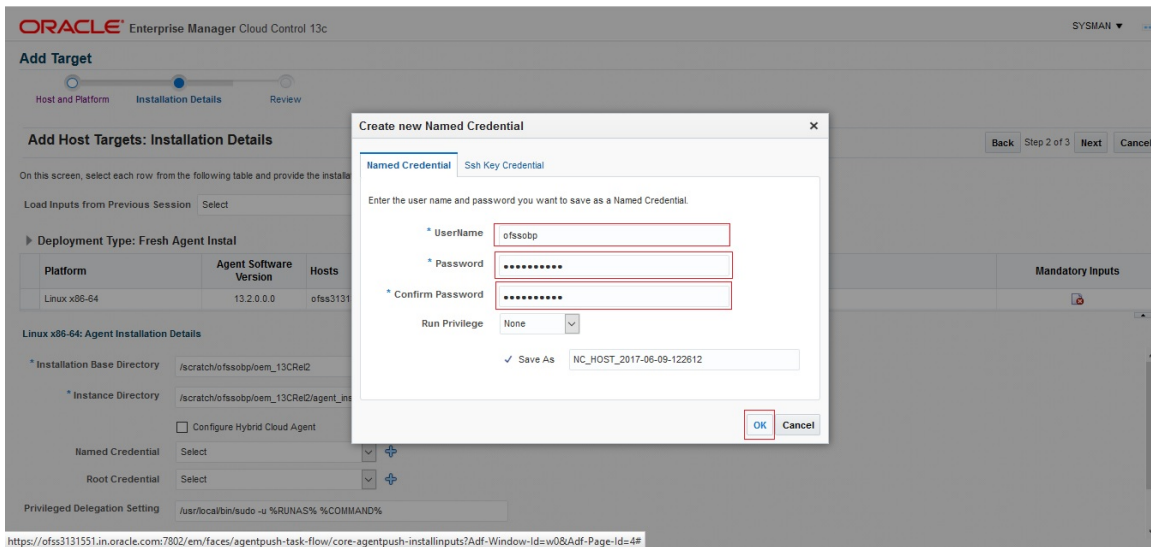
Figure 2–5 Installation Details added

We can setup Root Credential too as user need to run root.sh after finishing target addition

9. Set up Named Credential. Enter User credential and click “OK”.

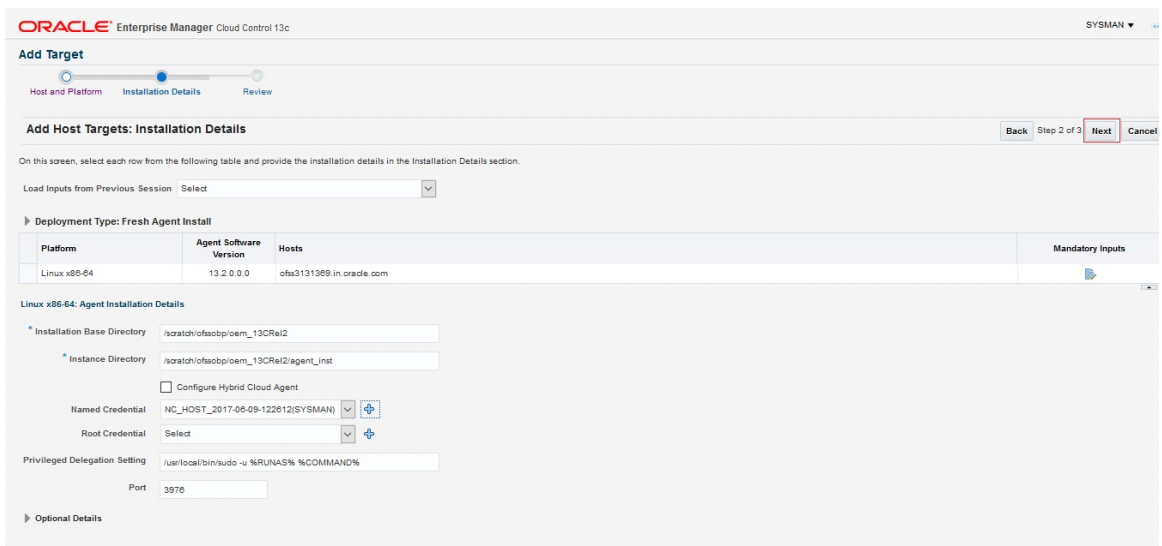
2.1 Add Target as Target Type “Host”

Figure 2–6 Set up Named Credential



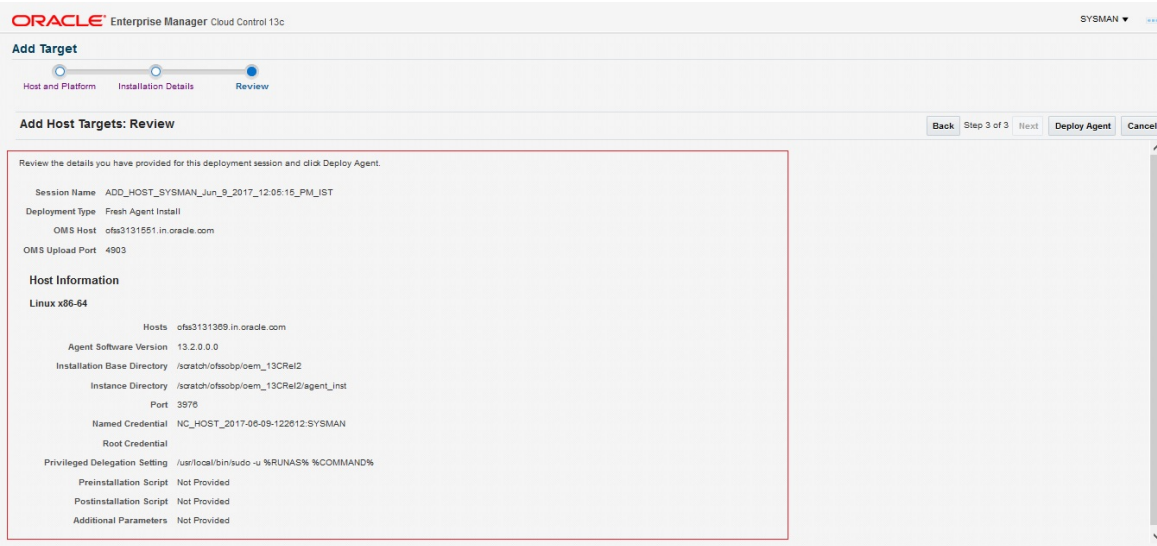
10. After setting all agents installation details click “Next”.

Figure 2–7 Agents Installation Details



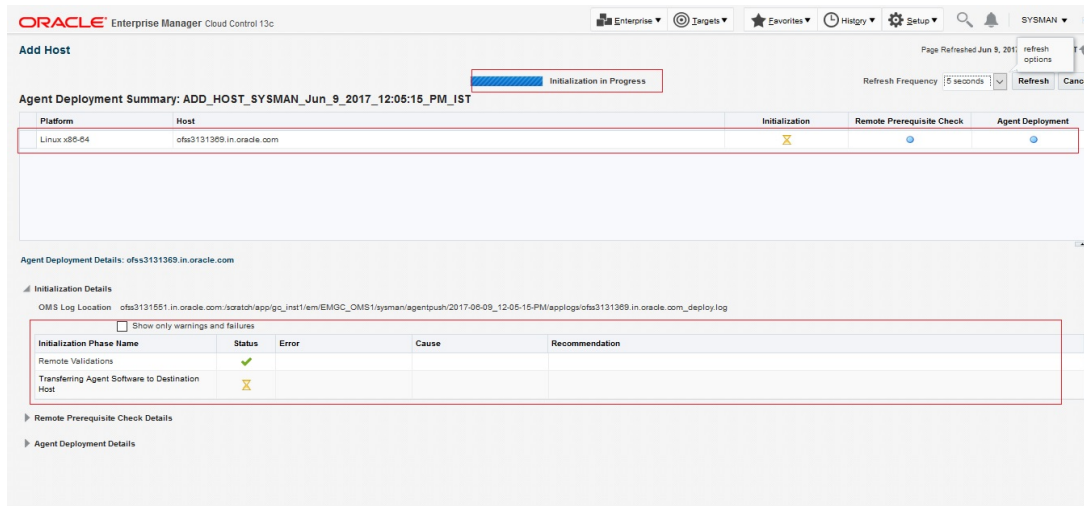
11. Review all parameters and click “Deploy Agent”.

Figure 2–8 Review All Parameters and Deploy



12. Review the deployment processing.
 - a. Initialization of Agent deployment.

Figure 2–9 Initialization of Agent Deployment



- b. Remote prerequisite check of agent deployment process.

2.1 Add Target as Target Type “Host”

Figure 2–10 Remote Prerequisite Check

The screenshot shows the Oracle Enterprise Manager Cloud Control 13c interface. At the top, there is a navigation bar with 'Enterprise', 'Targets', 'Favorites', 'History', 'Setup', and 'SYSMAN'. Below this, the page title is 'Add Host'. A progress bar indicates 'Remote Prerequisite Checks in Progress'. The main content area shows an 'Agent Deployment Summary' for 'ADD_HOST_SYSMAN_Jun_9_2017_12:05:15_PM_IST'. A table below the summary shows the deployment status for a Linux x86-64 host:

Platform	Host	Initialization	Remote Prerequisite Check	Agent Deployment
Linux x86-64	ofas3131369.in.oracle.com	✓	✗	ⓘ

Below the table, there are sections for 'Agent Deployment Details', 'Initialization Details', and 'Remote Prerequisite Check Details'. The 'Remote Prerequisite Check Details' section shows a table with columns for 'Prerequisite Check Name', 'Status', 'Error', 'Cause', and 'Recommendation'. The table contains one entry: 'Remote Prerequisite Check started on this host'.

c. Agent deployment.

Figure 2–11 Agent Deployment

The screenshot shows the Oracle Enterprise Manager Cloud Control 13c interface. At the top, there is a navigation bar with 'Enterprise', 'Targets', 'Favorites', 'History', 'Setup', and 'SYSMAN'. Below this, the page title is 'Add Host'. A progress bar indicates 'Agent Deployment in Progress'. The main content area shows an 'Agent Deployment Summary' for 'ADD_HOST_SYSMAN_Jun_9_2017_12:05:15_PM_IST'. A table below the summary shows the deployment status for a Linux x86-64 host:

Platform	Host	Initialization	Remote Prerequisite Check	Agent Deployment
Linux x86-64	ofas3131369.in.oracle.com	✓	⚠	✗

Below the table, there are sections for 'Agent Deployment Details', 'Initialization Details', and 'Remote Prerequisite Check Details'. The 'Agent Deployment Details' section shows a table with columns for 'Deployment Phase Name', 'Status', 'Error', 'Cause', and 'Recommendation'. The table contains five entries:

Deployment Phase Name	Status	Error	Cause	Recommendation
Installation and Configuration	✗			
Secure Agent	ⓘ			
Root.sh	ⓘ			
Collect Log	ⓘ			
Clean up	ⓘ			

d. Status of agent deployment. Need to run root.sh on target machine after login as root.

Figure 2–12 Status of Agent Deployment

ORACLE Enterprise Manager Cloud Control 13c

Enterprise Targets Favorites History Setup Setup SYSMAN

Add Host

Agent Deployment Summary: ADD_HOST_SYSMAN_Jun_9_2017_12:05:15_PM_IST

Agent Deployment Succeeded

Platform	Host	Initialization	Remote Prerequisite Check	Agent Deployment
Linux x86-64	ofss3131389.in.oracle.com	✓	⚠	✓

Agent Deployment Details: ofss3131389.in.oracle.com

Initialization Details

Remote Prerequisite Check Details

Agent Deployment Details

OMS Log Location: ofss3131389.in.oracle.com: /azratch/applog_int1/em/EMGC_OMS1/sysman/agentpush/2017-06-09_12-05-15-PM/applog/ofss3131389.in.oracle.com_deploy.log

Show only warnings and failures

Deployment Phase Name	Status	Error	Cause	Recommendation
Installation and Configuration	✓			
Secure Agent	✓			
Root.sh	ⓘ	The root.sh script was not run because the user did not have the privilege to run as root using the Privilege Delegation tool.		Manually run the following script(s) on the remote host as a root user • /azratch/obvobp/oem_13CRel/Agent_13.2.0.0/0/root.sh
Collected Log	✓			

2.2 Add Target as Target Type “Database”

1. Add Database Host machine following above steps.
2. Log in to EM console.
3. Click “Setup” -> “Add Target” -> “Add Targets Manually”.
4. Select “Add Using Guided Process” from “Add Non-Host Targets Using Guided Process” panel.

Figure 2–13 Add Using Guided Process

ORACLE Enterprise Manager Cloud Control 13c

Enterprise Targets Favorites History Setup Setup SYSMAN

Add Targets Manually

Overview

Add Host Targets

Install Agent on Host

Install Agent Results

Add Host targets by installing an agent using remote installation process. View status of past Agent installations.

Add Non-Host Targets Using Guided Process

Add Using Guided Process

Run guided discovery on a host to find manageable targets. Choose to promote some or all discovered targets to become managed.

Add Non-Host Targets Using Declarative Process

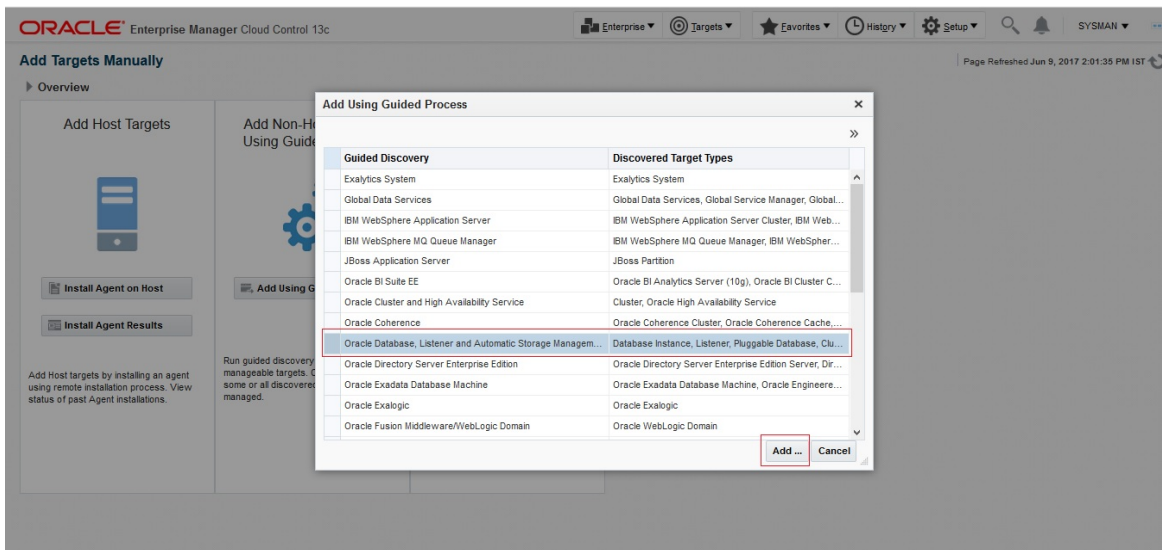
Add Target Declaratively

Add targets by explicitly specifying monitoring properties.

5. Select “Target Type” as Oracle Database, Listener and Automatic Storage Management from popup list and then click “Add”.

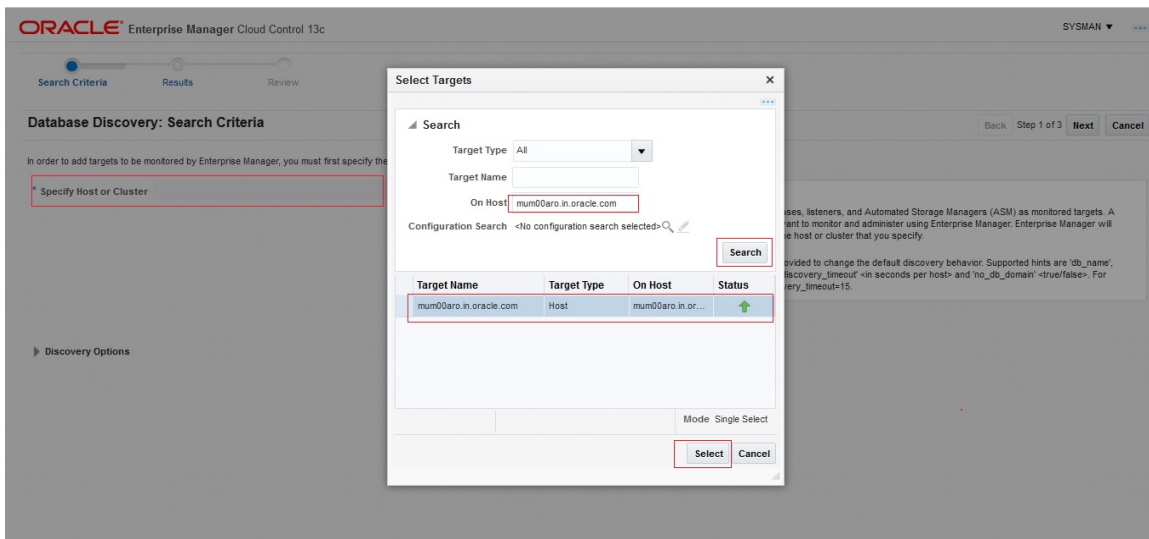
2.2 Add Target as Target Type “Database”

Figure 2–14 Target Type



6. Select database host machine by specifying Host and Cluster.

Figure 2–15 Host and Cluster



7. Select next after specifying Database host for Database discovery.

Figure 2–16 Database Host for Database Discovery

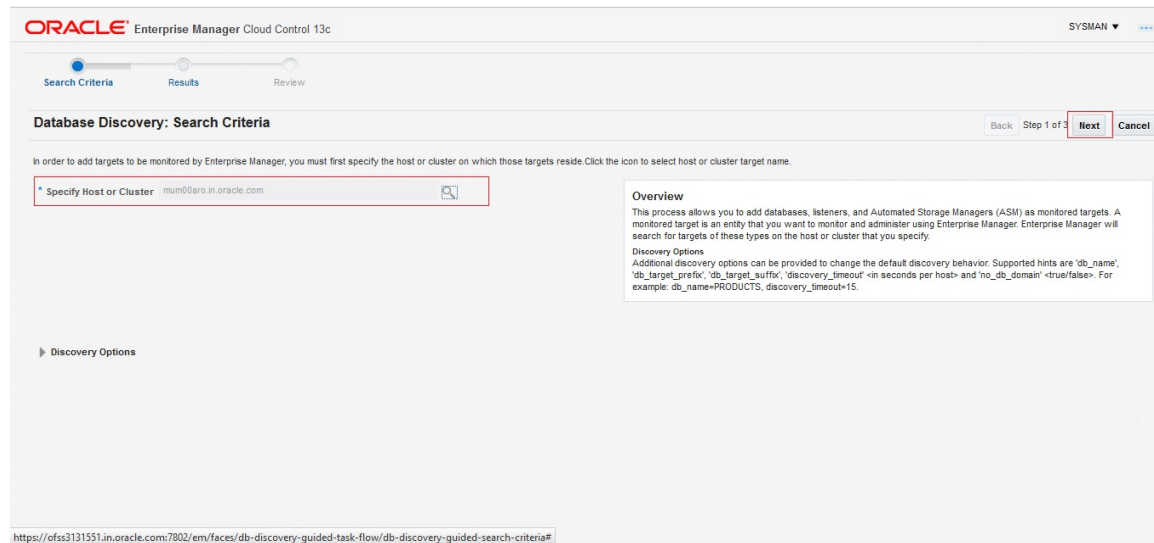
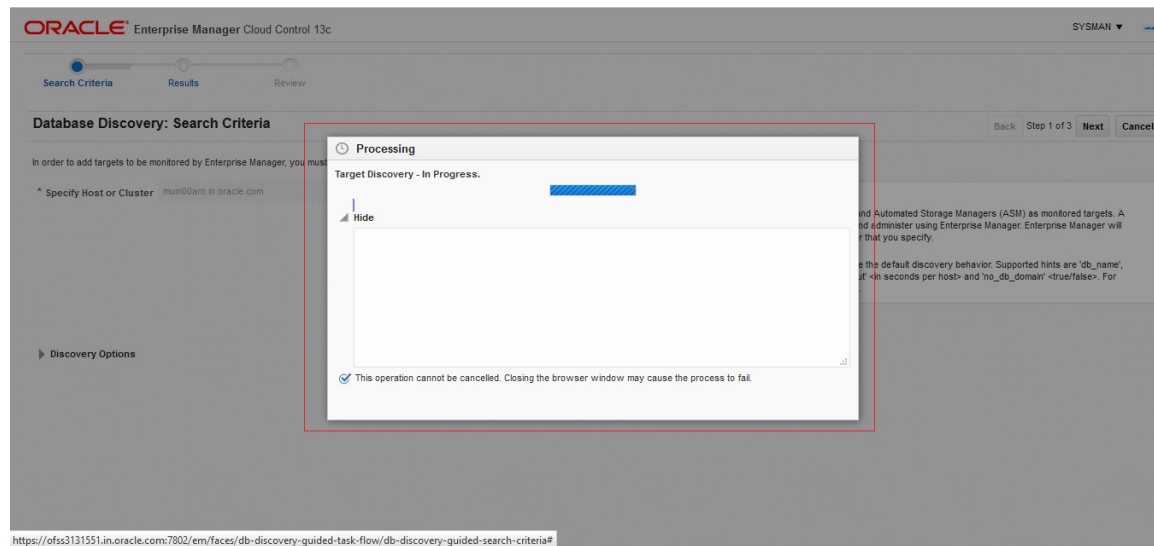


Figure 2–17 Target Discovery Progress



8. Select the Database by checking the check box. Specify the Monitoring Credentials and then click “Next”.

2.2 Add Target as Target Type “Database”

Figure 2–18 Specifying Monitoring Credentials

Database Discovery: Results Set Global Target Properties Specify Group for Targets Back Step 2 of 3 Next Cancel

Databases
The following databases have been discovered on this host. Provide monitoring credentials and save the targets to start monitoring the databases. You can specify common monitoring credentials for all the selected database targets using the 'Specify Common Monitoring Credentials' action. You can set Global Target Properties for all selected targets or add them to a Target Group while saving the targets for monitoring.

View Specify Common Monitoring Credentials Configure Test Connection

	Target Name	Monitor Username	Monitor Password	Role	Target Group
<input checked="" type="checkbox"/>	NCONT65A	dbanmp	*****	Normal	
<input checked="" type="checkbox"/>	NCONT65B	dbanmp	*****	Normal	

Listeners
The following listeners have been discovered on this host.

View Configure

	Target Name	Listener Name	Machine Name	Target Group
<input checked="" type="checkbox"/>	LISTENER_mum0aro.in.oracle.com	LISTENER	mum0aro.in.oracle.com	

9. Review the added Database and then click “Save”.

Figure 2–19 Review and Save

Database Discovery: Review Back Step 3 of 3 Next Save Cancel

Please review the targets below and click on 'Save' to start monitoring the targets.

Database Systems
Following Database systems will be created for the discovered databases and related targets.

Target Name	Target Type	Host
└─ NCONT65A_sys	Database System	
NCONT65A	Database Instance	mum0aro.in.oracle.com
└─ NCONT65B_sys	Database System	

Other Targets
Following targets will not be part of any database system

Target Name	Target Type	Host
LISTENER_mum0aro.in.oracle.com	Listener	mum0aro.in.oracle.com

10. Added Databases can be viewed by clicking “Targets” and then “Databases”.

Figure 2–20 Confirmation

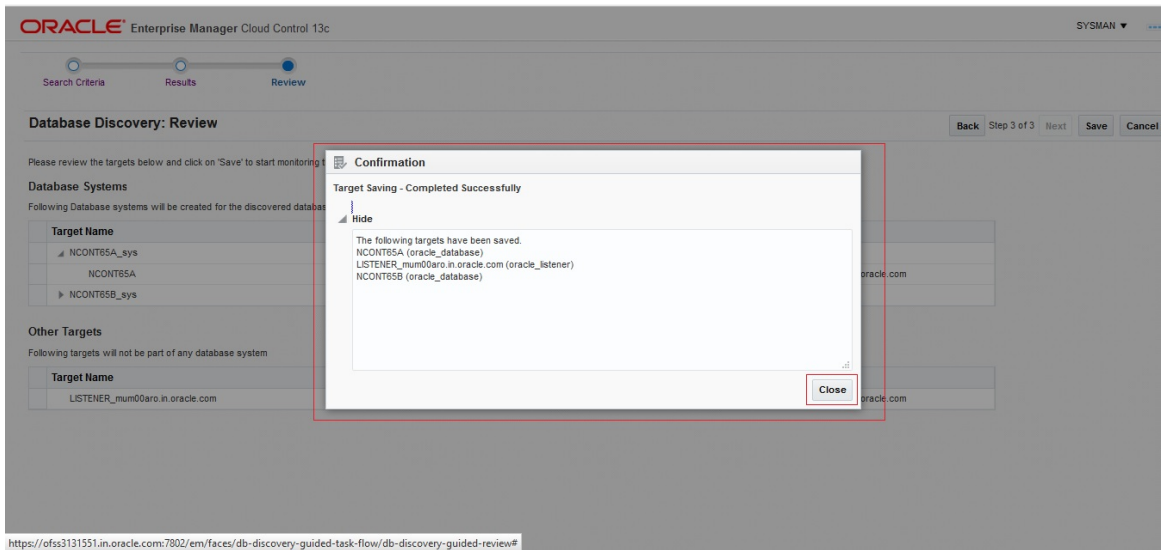


Figure 2–21 Added Database

The screenshot shows the Oracle Enterprise Manager Cloud Control 13c interface displaying a table of databases. The table has the following columns: Name, Type, Status, Target Version, Incidents, Average Compliance Score, and Member Status Summary. The rows are NCONT65A, NCONT65B, NGPDEV, and NGPTEST. The NCONT65A and NCONT65B rows are highlighted with a red border.

Name	Type	Status	Target Version	Incidents	Average Compliance Score	Member Status Summary
NCONT65A	Database Instance	↑	12.1.0.2.0	0 0 0	N/A	0 0 0 0
NCONT65B	Database Instance	↑	12.1.0.2.0	0 0 0	N/A	0 0 0 0
NGPDEV	Database Instance	↑	11.2.0.4.0	0 0 0	N/A	0 0 0 0
NGPTEST	Database Instance	↑	11.2.0.4.0	0 0 0	N/A	0 0 0 0

2.3 Validate Time Zone of Oracle Management Agent and Oracle Management Server

Time zone for all Oracle management agents for all the targets and Oracle Management Server should be same. If we have different time zone of Oracle Management Server and Oracle Management agents we need to following steps.

1. On the Oracle Management Agents server set the TZ to the correct time zone.

```
$export TZ=<OMS>
```

```
$echo $TZ
```

2.4 Add Targets as Target Type “Middleware”

2. Create blackout.

```
$agent_home/bin/emctl start blackout `hostname` -nodeLevel
```

3. Shutdown agent.

```
$agent_home/bin/emctl stop agent
```

4. Reset agentTZ.

```
$agent_home/bin/emctl resetTZ agent
```

5. Update agent target time zone in em repository.

Login to em repository database with sysman

```
SQL>exec mgmt_target.set_agent_tzrgn('<AGENT_TARGET_NAME>','US/Central');
```

```
SQL>commit;
```

6. Start agent.

```
$agent_home/bin/emctl start agent
```

```
$agent_home/bin/emctl upload agent
```

7. Stop Blackout.

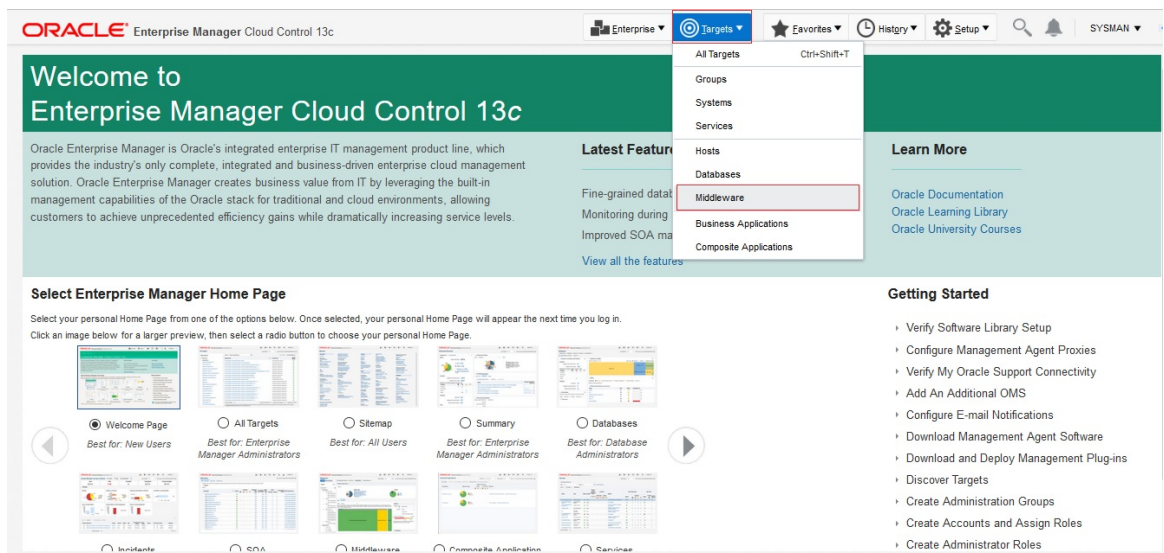
```
$agent_home/bin/emctl stop blackout `hostname`
```

2.4 Add Targets as Target Type “Middleware”

We need to add all middleware targets to monitor participating “Weblogic” domain. This is required for OBP host, OBP UI, OBP SOA and OBP OID.

1. Log in to EM console. Click “Targets” → “Middleware”.

Figure 2–22 Selecting Middleware



2. Click “Add” -> “Oracle Fusion Middleware/Weblogic Domain”.

Figure 2–23 Adding Oracle Fusion Middleware/Weblogic Domain

Target Name	Target Type	Status	Member Status Summary
Oracle Fusion Middleware/WebLogic Domain	Oracle Fusion Middleware/WebLogic Domain	-	5 - 2
Oracle GlassFish Domain	Oracle GlassFish Domain	-	7 - 1
Standalone Oracle Coherence Cluster	Standalone Oracle Coherence Cluster	-	9 - 2
Standalone Oracle HTTP Server	Standalone Oracle HTTP Server	-	2 7 - 1
Oracle Directory Server Enterprise Edition	Oracle Directory Server Enterprise Edition	-	4 1 - 1 1
IBM WebSphere Application Server	IBM WebSphere Application Server	-	3 - - 2
JBoss Application Server	JBoss Application Server	-	
Traffic Director (11g)	Traffic Director (11g)	-	

3. Enter the details of the server for which the middleware is being created

Administration Server Host = Enter the Hostname or IP of the middleware host

Port = Weblogic Admin Server port

Username/password = Weblogic Administration User and Password

Unique Domain Identifier = User can enter anything which reflect unique identification of particular domain. Please note that Unique Domain Identifier for OBP UI and OBP Host are require for Step 6 seed creation.

Agent: It is automatically detected after entering the ‘Administration Server Host’

Figure 2–24 Agent is Automatically Detected

Add Oracle Fusion Middleware/Weblogic Domain: Find Targets

To discover a WebLogic Domain, a Management Agent uses JMX protocol to make a 1343s connection to the domain's Administration Server. If only SSL communication is allowed, expand the Advanced section and modify the JMX protocol from the default 13 to 13s.

To change the Monitoring Agent or name of the Host, and for other advanced settings, click Continue. To discover and save targets with the default values, click Add Targets.

* Administration Server Host: ofsa3131369.in.oracle.com

* Port: 7001

* Username: weblogic

* Password: *****

Node Manager Username:

Node Manager Password:

* Unique Domain Identifier: OBP261_HOST_ofsa3131369_in_oracle_

* Agent: ofsa3131369.in.oracle.com:3976

Discover Application Versions

Advanced

2.4 Add Targets as Target Type “Middleware”

4. Click on continue, it will identify the targets for that server.

Figure 2–25 Identifying Targets for the Server

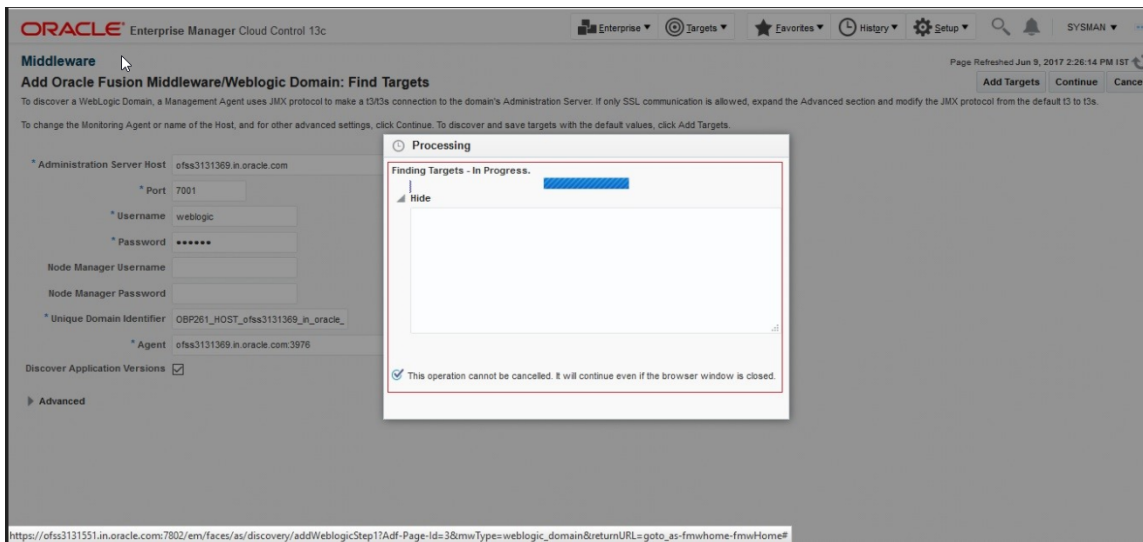
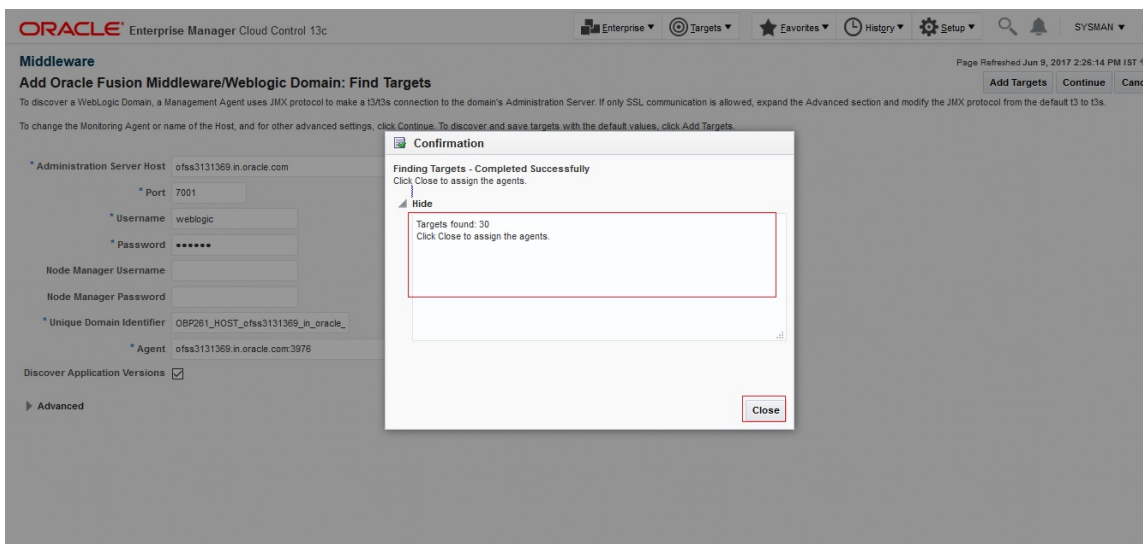


Figure 2–26 Targets Found



5. Close the box, click on “Add Targets”, the targets will be added after the search.

Figure 2–27 Add Targets

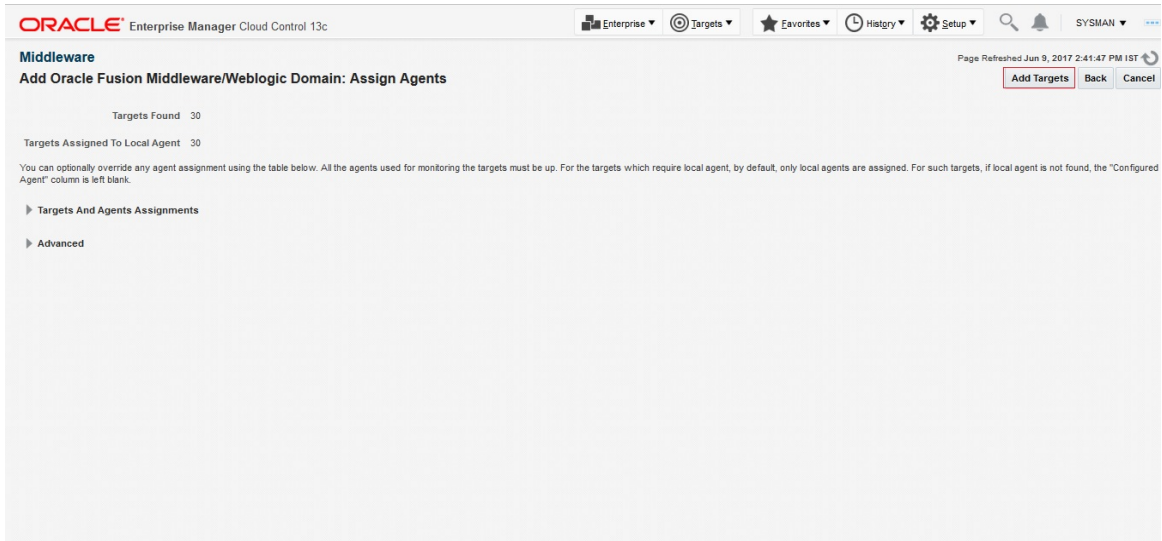
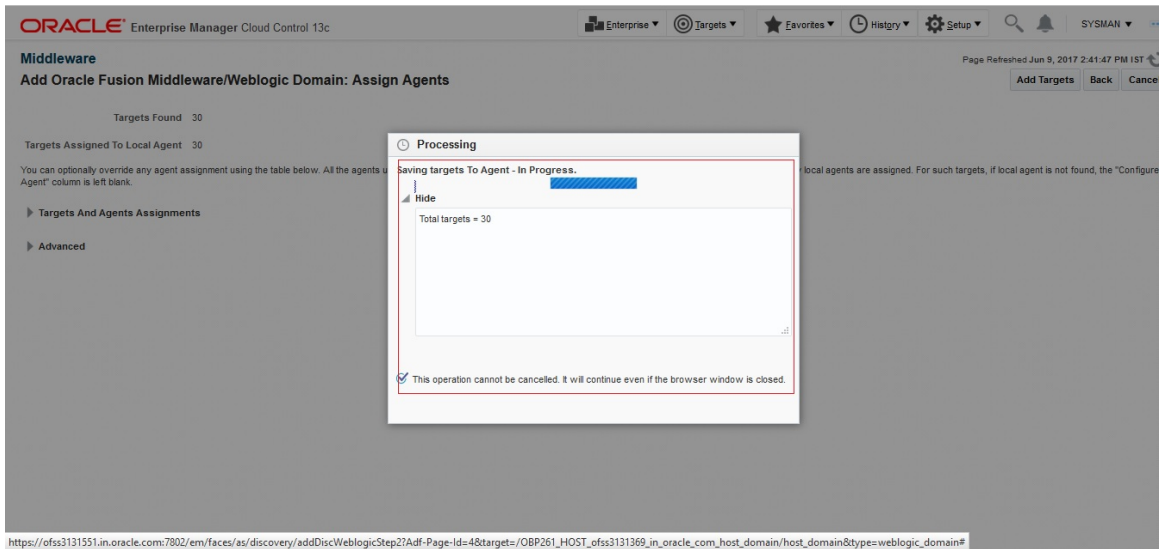


Figure 2–28 Saving Targets -In Progress



6. Click on the Finish button to complete the middleware creation for that server. Complete the addition of middleware for UI, SOA and OID servers similarly.

2.4 Add Targets as Target Type “Middleware”

Figure 2–29 Add Oracle Fusion Middleware/Weblogic Domain Results

ORACLE Enterprise Manager Cloud Control 13c

Enterprise Targets Favorites History Setup SYSMAN

Middleware

Add Oracle Fusion Middleware/Weblogic Domain: Results

Page Refreshed Jun 9, 2017 2:47:13 PM IST

30 targets have been successfully added to Enterprise Manager.

There may be a delay before these targets are visible and monitored. This is because saving the targets to the agents involve target promotion job that may also include pushing the monitoring plug-in to the agent. All the agents used for monitoring the targets must be up. If the targets of the farm or domain change in the future, use "Refresh WebLogic Domain" to add targets. If targets are later removed from the farm or domain, you can delete them from the "All Targets" page or the "Agents" page or the "Refresh WebLogic Domain" page. Click on "Target Management Best Practices" button to review a list of recommended best practices for managing the newly added targets.

Targets Details

Target Name	Target Type	Host	Configured Agent	Status
host_domain	Oracle WebLogic Domain	ofsa3131369.in.oracle.com	ofsa3131369.in.oracle.com:3976	Successfully saved target to agent.
AdminServer	Oracle WebLogic Server	ofsa3131369.in.oracle.com	ofsa3131369.in.oracle.com:3976	Successfully saved target to agent.
opss-rest	Application Deployment	ofsa3131369.in.oracle.com	[Inherited From Parent]	Successfully saved target to agent.
com.ofss.fc.app.connector	Domain Application Deployment	ofsa3131369.in.oracle.com	ofsa3131369.in.oracle.com:3976	Successfully saved target to agent.
com.ofss.fc.dms	Domain Application Deployment	ofsa3131369.in.oracle.com	ofsa3131369.in.oracle.com:3976	Successfully saved target to agent.
com.ofss.fc.messaging	Domain Application Deployment	ofsa3131369.in.oracle.com	ofsa3131369.in.oracle.com:3976	Successfully saved target to agent.
com.ofss.fc.middleware	Domain Application Deployment	ofsa3131369.in.oracle.com	ofsa3131369.in.oracle.com:3976	Successfully saved target to agent.
com.ofss.fc.reports	Domain Application Deployment	ofsa3131369.in.oracle.com	ofsa3131369.in.oracle.com:3976	Successfully saved target to agent.
com.ofss.fc.webservices	Domain Application Deployment	ofsa3131369.in.oracle.com	ofsa3131369.in.oracle.com:3976	Successfully saved target to agent.
opss-rest	Domain Application Deployment	ofsa3131369.in.oracle.com	ofsa3131369.in.oracle.com:3976	Successfully saved target to agent.
mds-owsm	Metadata Repository	ofsa3131369.in.oracle.com	ofsa3131369.in.oracle.com:3976	Successfully saved target to agent.
defaultCoherenceCluster	Oracle Coherence Cluster	ofsa3131369.in.oracle.com	ofsa3131369.in.oracle.com:3976	Successfully saved target to agent.
ORA-MDS-local-cache_ADFApplication	Oracle Coherence Cache	ofsa3131369.in.oracle.com	[Inherited From Parent]	Successfully saved target to agent.
ORA-MDS-local-cache_ADFApplication	Oracle Coherence Cache	ofsa3131369.in.oracle.com	[Inherited From Parent]	Successfully saved target to agent.

Figure 2–30 Entry on Dashboard Page

ORACLE Enterprise Manager Cloud Control 13c

Enterprise Targets Favorites History Setup SYSMAN

Middleware

Targets Best Practices

Middleware Features Add Save Search Saved Searches Simple Search

Auto Refresh Off Page Refreshed Jun 9, 2017 2:50:00 PM IST

Search Reset

Target Name

Target Type

- Oracle WebLogic Server (16)
- Metadata Repository (8)
- Oracle Coherence Cache (9)
- Oracle WebLogic Cluster (7)
- Oracle WebLogic Domain (7)
- Oracle Coherence Cluster (3)
- Other (44)

Status

- Up (39)
- N/A (17)
- Down (6)
- Unknown (1)

Table Heat Map

View Add Remove Configure Show Hierarchy

Target Name	Target Type	Status	Member	Status	Summary
EMGC_GCDomain/GCDomain	Oracle WebLogic Domain	-	5	-	2
INTG25_HOST_ofsa310554_in_oracle_com_host_domain/host_domain	Oracle WebLogic Domain	-	7	-	1
INTG25_SOA_ofsa3121247_in_oracle_com_base_domain/base_domain	Oracle WebLogic Domain	-	9	-	2
INTG25_UI_ofsa310558_in_oracle_com_ui_domain/ui_domain	Oracle WebLogic Domain	-	2	7	1
IOBP261_HOST_ofsa3131369_in_oracle_com_host_domain/host_domain	Oracle WebLogic Domain	-	7	-	1
INTG25_OD_ofsa310453_in_oracle_com_ODDomain	Oracle Fusion Middleware Farm	-	4	1	1
IT2502_HOST_ofsa310064_in_oracle_com_host_domain	Oracle Fusion Middleware Farm	-	3	-	2

Columns Hidden 11

Middleware Targets 63

3 Deploy OBP EM plugin

3.1 Upload Plugin Files and Related Scripts

1. Log to the EM machine.
2. Create folder “obppugin” on EM machine in /scratch/app/product/ directory.
3. Create folder “plugin” on EM machine in /scratch/app/product/obppugin directory.
4. Upload “obp_em_view_script” folder in “plugin” directory. Source available at <OBPINSTALLER>/em_monitor/EM/OBP_Management_Pack.
5. Upload “scripts” folder in “plugin” directory. Source available at <OBPINSTALLER>/em_monitor/EM/OBP_Management_Pack.
6. Upload “13.2.1.0.0_oracle.system.odhs_2000_0.opar” file in “scripts” directory. Source available at <OBPINSTALLER>/em_monitor/EM/OBP_Management_Pack/scripts.
7. Upload “com.ofss.fc.ops.em.dms.ear” file in “/scratch/app/product/obppugin/plugin” directory. Source available at <OBPINSTALLER>/em_monitor/EM/OBP_Management_Pack. You can upload from local machine during com.ofss.fc.ops.em.dms.ear deployment on OEM Weblogic Server.

3.2 Set the Environment Variables

1. Log to the EM machine.
2. Export the PATH to include OMS bin folder
export PATH= \$PATH :<“Path of OEM13c”>/bin
e.g. for DEMO →
export PATH= \$PATH:/scratch/app/oem13C_rel2/bin
3. Export the EMCLI command path
export EMCLI= <“Path of OEM13c”>/bin/emcli
e.g. for DEMO →
export EMCLI=/scratch/app/oem13C_rel2/bin/emcli
4. Export the HS_HOME (This the home directory of the 13.2.1.0.0_oracle.system.odhs_2000_0.opar file)
e.g. for DEMO →
export HS_HOME=/scratch/app/OBP_Management_Pack/scripts/OBP

3.3 Deploy the Plugin in EM

1. Log to the EM machine.
2. Verify OEM secure port and agent port value based on OEM environment.

3.3 Deploy the Plugin in EM

- OEM secure port : is the port where OMS running in Oracle Enterprise Manager Server .
- Agent port: is the port where Oracle Enterprise Manager Server agent running on Oracle Enterprise Manager Server host. We can get details after login to Oracle Enterprise manager Agent path and run command `./emctl status agent` and check Agent URL
- Please validate the TMP path defined in `deploy_oms.sh` and `deploy_agent.sh` script before running

3. Run the `deploy_oms.sh` script.

User need to enter following details:

- OEM user name/password(e.g. `sysman/*****`)
- OEM management repository password
- OBP plug-in version(e.g. `13.2.1.0.0`)
- OEM secure port

e.g. for DEMO →

```
./deploy_oms.sh
```

Figure 3–1 Running the `deploy_oms.sh` script

```
[ofssobp@ofss3131551 OBP]$ ./deploy_oms.sh
Enter OEM user : sysman
Enter OEM Password :
Enter OEM DB Password :
Enter OBP plugin version : 13.2.1.0.0
Enter OEM secure port : 7802

This script requires the software library to be setup. Setup->Provisioning and Patching->Software Library. Click Add to create a software library. This only needs to be done 1x for an OMS.

----- setup emcli ...
sh /scratch/app/oem13c_rel2/bin/emcli setup -url=https://ofss3131551.in.oracle.com:7802/em -username=sysman-pass=***** -dir=/scratch/ofssobp -licans=yes -trustall
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Emcli setup successful
----- create hostsample opar ...
rm -f /var/tmp/13.2.1.0.0_oracle.system.odhs_2000_0.opar
----- import hostsample ...
sh /scratch/app/oem13c_rel2/bin/emcli import update -file=/scratch/app/OBP_Management_Pack/scripts/OBP/13.2.1.0.0_oracle.system.odhs_2000_0.opar -omslocal
Processing update: Plug-in - OBP EM Plugin
Successfully uploaded the update to Enterprise Manager. Use the Self Update Console to manage this update.
----- deploy hostsample to OMS ...
sh /scratch/app/oem13c_rel2/bin/emcli deploy_plugin_on_server -plugin=oracle.system.odhs:13.2.1.0.0 -sys_password=*****
----- loop until async OMS deploy completes
Status : Success
Plugin OMS deploy took about 70 seconds
----- Deployment complete: Plugin deployed on oms
[ofssobp@ofss3131551 OBP]$
```

4. Check successful deployment of plugin by login in to EM console. Click “Setup” →”Extensibility” →”Plug-ins”.

Figure 3–2 Navigate to Plug-ins

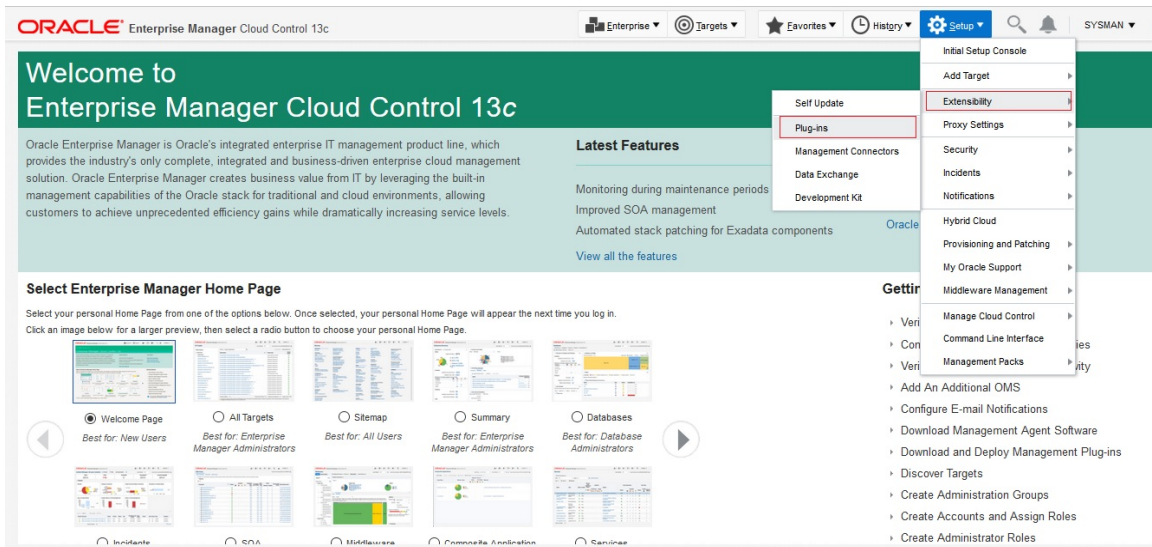
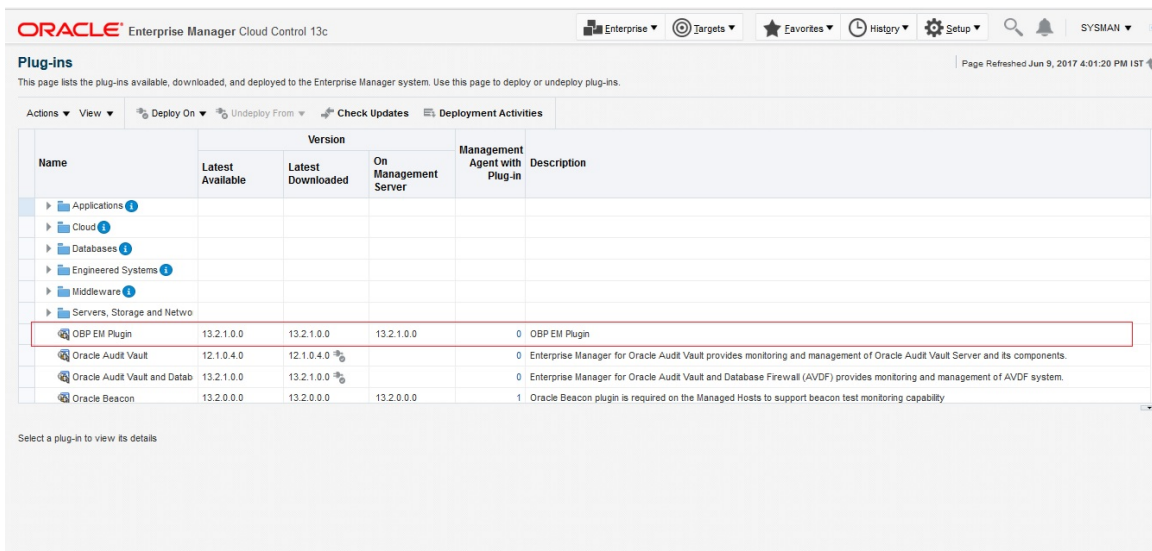


Figure 3–3 Select plug-in



3.4 Undeploy the Plugin in EM

If the plugin is already deployed on the EM, undeploy them from the agents and the EM. To do that we need to do follow two step.

- Undeploy OBP plugin from management agent and OMS manually or through script.
- Delete entry from plugin update list.

3.4.1 Undeploy OBP Plugin from Management Agent and OMS

- Undeploy OBP plugin using script.

1. Log to the EM machine.
2. Verify OEM secure port and agent port value based on OEM environment.
 - EM_PORT_SECURE: is the port where OMS running in Oracle Enterprise Manager Server.
 - AGENT_PORT: is the port where Oracle Enterprise Manager Server agent running on Oracle Enterprise Manager Server host. We can get details after login to Oracle Enterprise manager Agent path and run command `./emctl status agent` and check Agent URL.
3. Run the `undeploy_agent.sh` to undeploy the plugin from the agents:

`./undeploy_agent.sh`

User need to enter following details:

- OEM user name/password (e.g. sysman/*****)
- OEM management repository password
- OBP plug-in version (e.g. 13.2.1.0.0)
- OEM secure port
- OEM agent port

e.g. for DEMO →

`./undeploy_agent.sh`

Figure 3–4 Running `undeploy_agent.sh`

```
13.2.1.0.0.oracle.system.odhs_2000_0.opar back deploy_agent.sh deploy_oms.sh undeploy_agent.sh
[ofsobp@ofss3131551 OBP]$ ./undeploy_agent.sh
Enter OEM user : sysman
Enter OEM Password :
Enter OEM DB Password :
Enter OEM secure port : 7802
Enter OEM agent port : 3872
Enter OBP plugin version : 13.2.1.0.0
Enter Environment Name : INTG25

----- setup emcli ---
sh /scratch/app/oem13c_rel2/bin/emcli setup -url=https://ofss3131551.in.oracle.com:7802/em -username=sysman -pass=**** -dir=/scratch/ofssobp -licans=yes -trustall
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Emcli setup successful
sh /scratch/app/oem13c_rel2/bin/emcli delete_target -type=batch_view -name=OBP_INTG25_VIEW
Target "OBP_INTG25_VIEW:batch view" deleted successfully
----- undeploy hostsample plugin from Agent ---
sh /scratch/app/oem13c_rel2/bin/emcli undeploy_plugin_from_agent -agent_names=ofss3131551.in.oracle.com:3872 -plugin=oracle.system.odhs
Plug-in undeployment from the Management Agents is in progress
Use "emcli get_plugin_deployment_status -plugin=oracle.system.odhs" to track the plug-in undeployment status.
----- loop until async Agent undeploy completes -----
Status : Success
Plugin Agent undeploy took about 20 seconds
[ofsobp@ofss3131551 OBP]$
```

4. Run the `undeploy_oms.sh` to undeploy the plugin from the OEM:

`./undeploy_oms.sh`

User need to enter following details

- OEM user name/password (e.g. sysman/*****)
- OEM management repository password
- OBP plug-in version (e.g. 13.2.1.0.0)
- OEM secure port

e.g. for DEMO →

./undeploy_oms.sh

Figure 3–5 Running undeploy_oms.sh

```
[ofssobp@ofss3131551 OBP]$ ls
13.2.1.0.0_oracle.system.odhs_2000_0_opar  back  deploy_agent.sh  deploy_oms.sh  undeploy_agent.sh  undeploy_oms.sh
[ofssobp@ofss3131551 OBP]$ ./undeploy_oms.sh
Enter OEM user : sysman
Enter OEM Password :
Enter OEM DB Password :
Enter OEM secure port : 7802
Enter OBP plugin version : 13.2.1.0.0
----- setup emcli -----
sh /scratch/app/oem13C_re12/bin/emcli setup -url=https://ofss3131551.in.oracle.com:7802/em -username= -pass=***** -dir=/scratch/ofssobp -licans=yes -trustall
Oracle Enterprise Manager 13c Release 2.
Copyright (c) 1996, 2016 oracle corporation and/or its affiliates. All rights reserved.

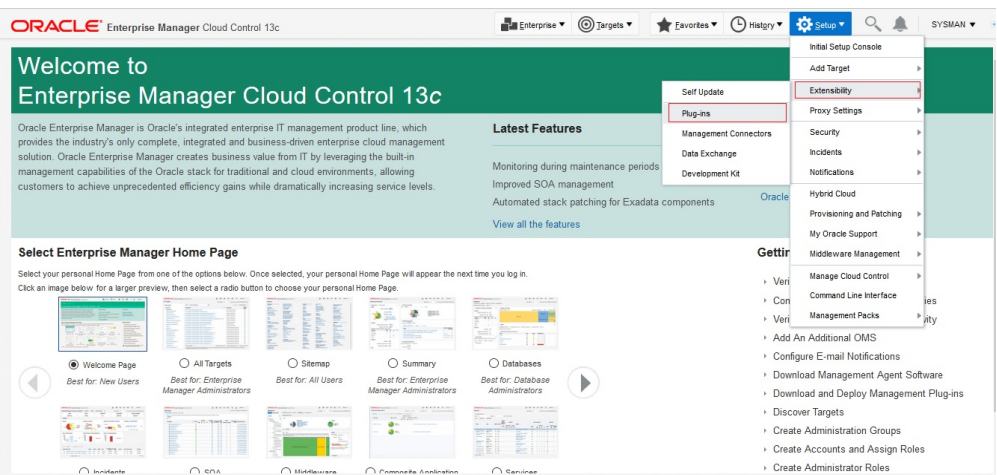
Emcli setup successful
----- undeploy hostsample plugin from OMS -----
Undeployment of plug-in from the management servers is in progress
Use "emcli get plugin deployment status -plugin=oracle.system.odhs" to track plug-in un-deployment status.
----- Loop until async OMS undeploy completes -----
Status : Success
Status = success
[ofssobp@ofss3131551 OBP]$
```

- Undeploy OBP plugin through OEM console.

In case it is unsuccessful, do it manually as follows

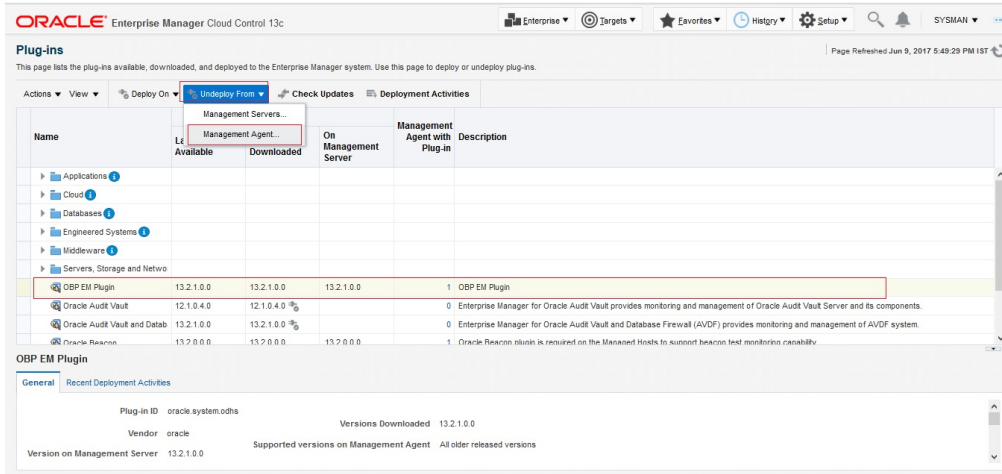
- Undeploy OBP plugin from management agent.
 1. Login in to EM console. Click “Setup” →”Extensibility” →”Plug-ins”.

Figure 3–6 Navigate to Plug-ins



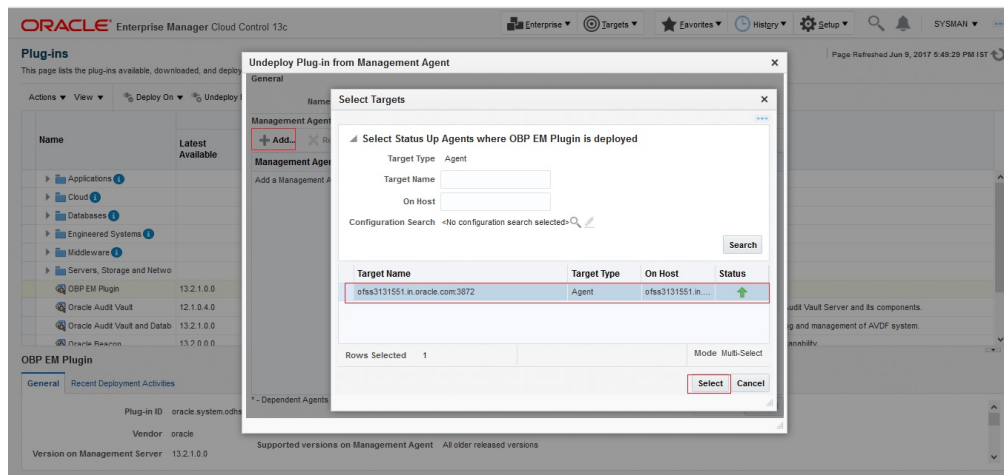
2. Select “OBP EM Plugin” then click “Undeploy From” → “Management Agent”.

Figure 3–7 Undeploy Plug-in from Management Agent



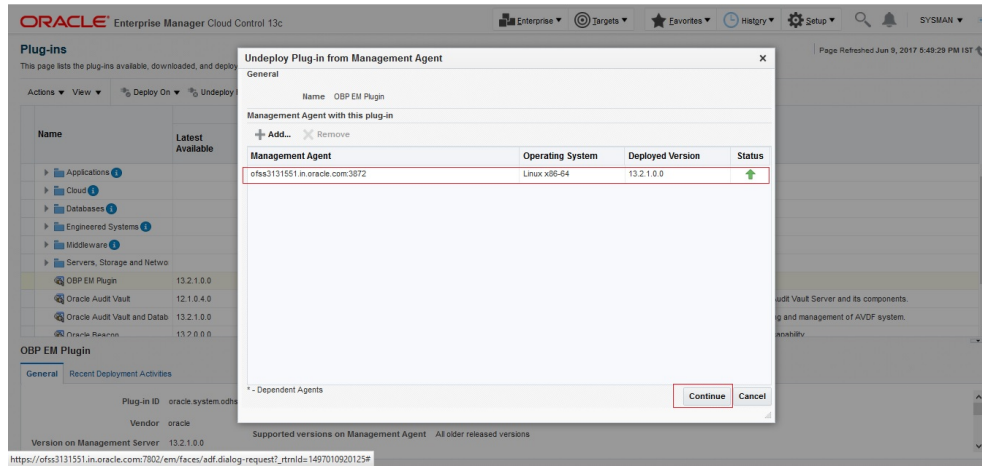
3. Select Agent to undeploy EM plugin.

Figure 3–8 Agent to Undeploy Plug-in



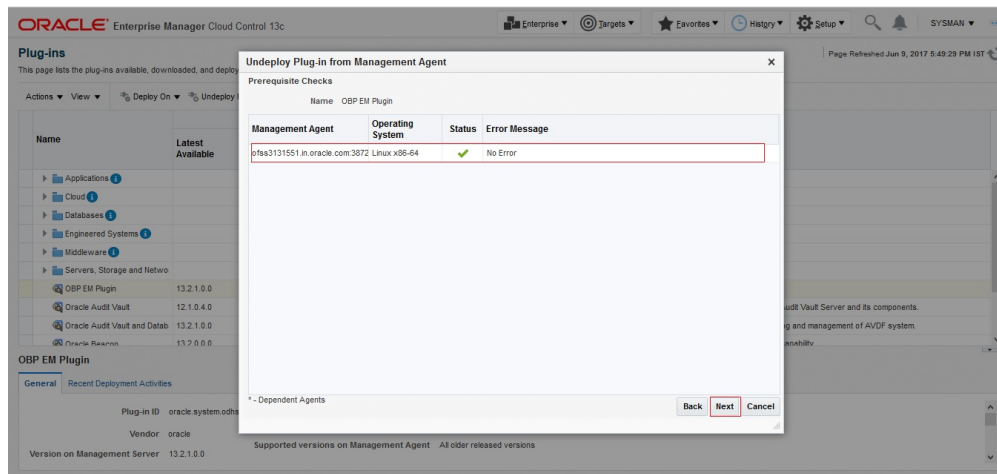
4. After selecting agent click "Continue" to initiate undeployment process.

Figure 3–9 Initiate Undeployment



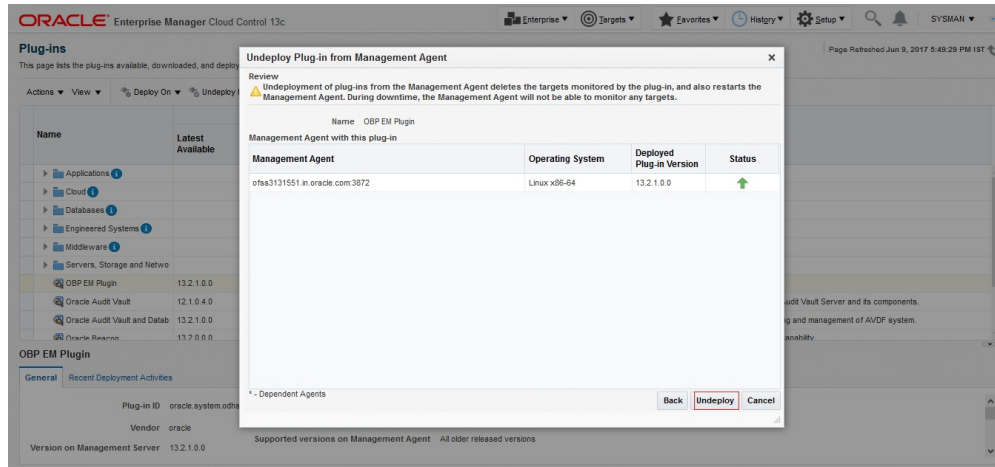
5. Click “Next”.

Figure 3–10 Continue Undeployment



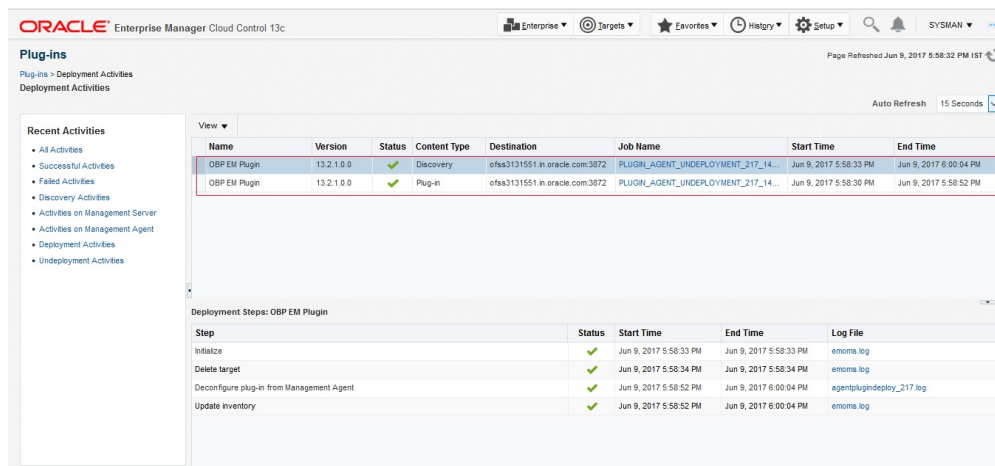
6. Click “Undeploy”.

Figure 3–11 Final Step - Undeploy



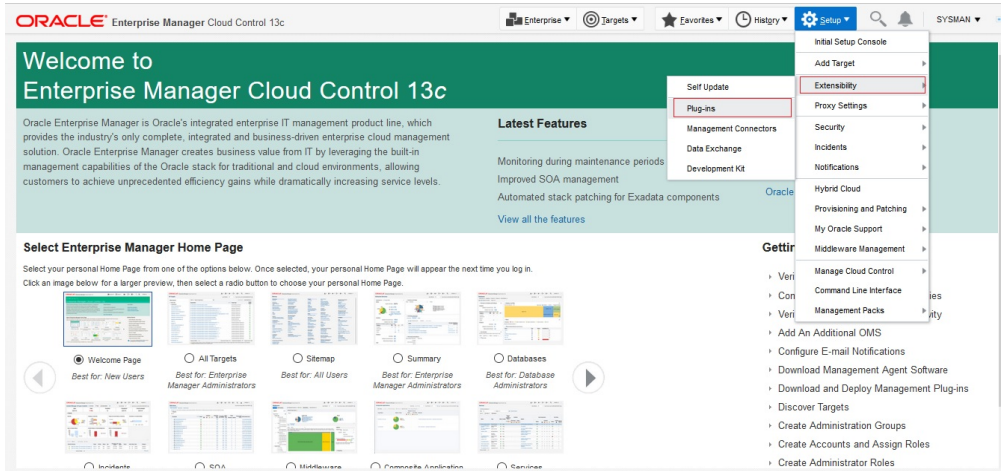
7. Review the undeployment process.

Figure 3–12 Review Undeployment



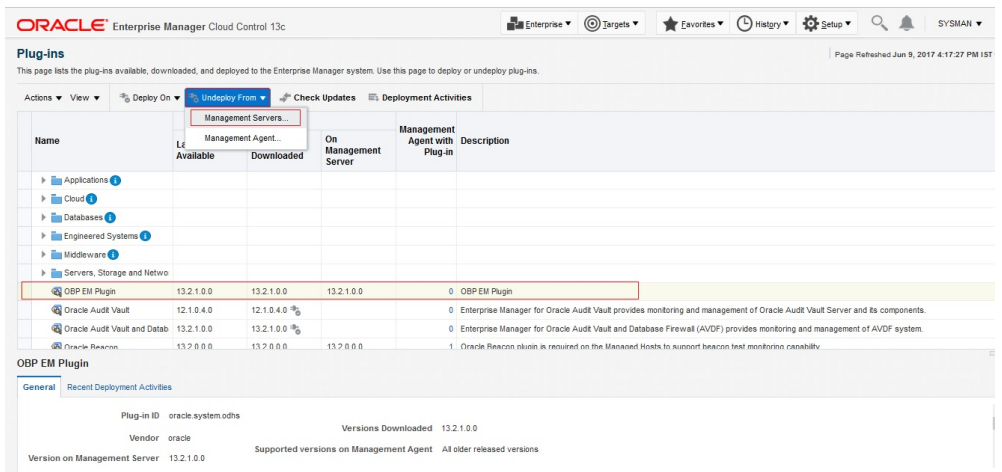
- Undeploy OBP plug in from Management Server.
 1. Login in to EM console. Click “Setup” →”Extensibility” →”Plug-ins”.

Figure 3–13 Navigate to Plug-ins



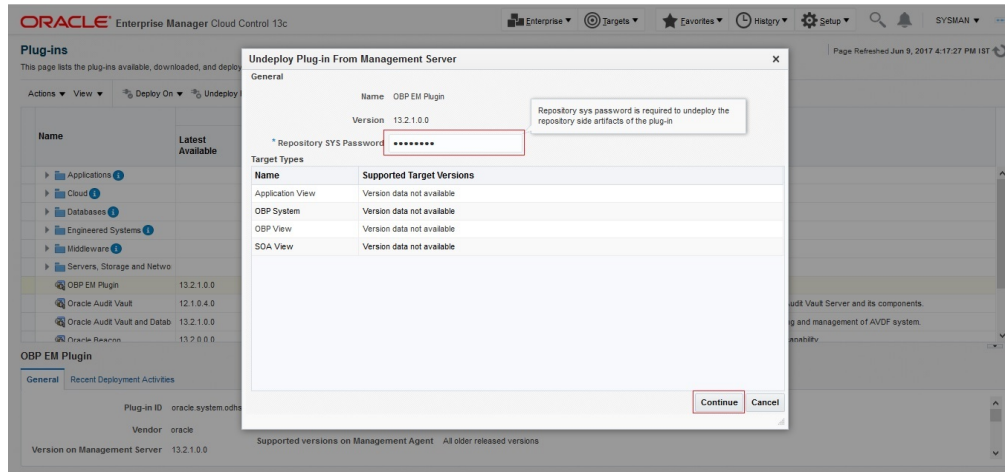
2. Select “OBP EM Plugin” then click “Undeploy From” → “Management Servers”.

Figure 3–14 Undeploy OBP EM Plugin



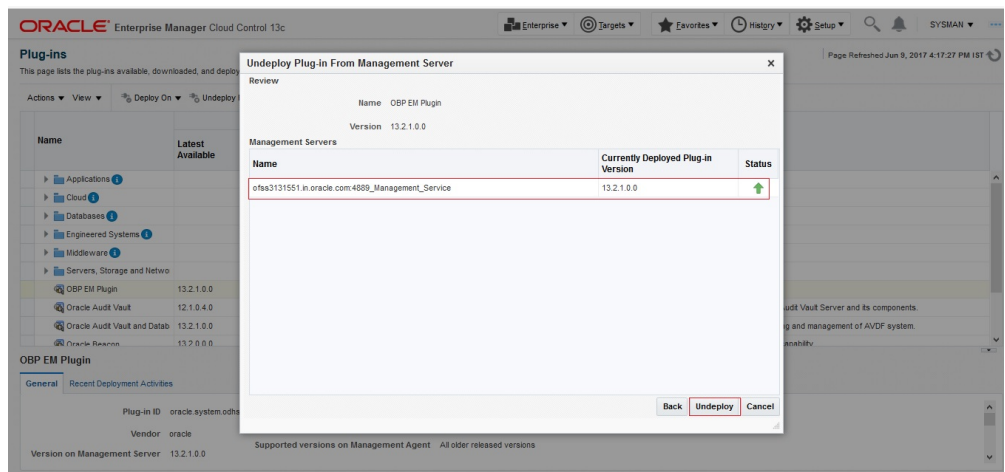
3. Enter sys password of OEM management repository. Click “Continue”.

Figure 3–15 Password of OEM Management Repository



4. Review the selected plug-in and click “Undeploy”.

Figure 3–16 Review the Selected Plug-in and Undeploy



5. Review the undeployment process.

Figure 3–17 Review Undeployment

ORACLE Enterprise Manager Cloud Control 13c

Plug-ins > Deployment Activities

Deployment Activities

Recent Activities

- All Activities
- Successful Activities
- Failed Activities
- Discovery Activities
- Activities on Management Server
- Activities on Management Agent
- Deployment Activities
- Undeployment Activities

Name	Version	Status	Content Type	Destination	Job Name	Start Time	End Time
OBP EM Plugin	13.2.1.0.0	✓	Plug-in	efss3131551.in.oracle.com:488...	PLUGIN_UNDEPLOYMENT_210_ORACLE...	Jun 9, 2017 4:31:12 PM	Jun 9, 2017 4:31:44 PM

Deployment Steps: OBP EM Plugin

Step	Status	Start Time	End Time	Log File
Submit job for undeployment	✓	Jun 9, 2017 4:31:12 PM	Jun 9, 2017 4:31:12 PM	emoms.log
Initialize	✓	Jun 9, 2017 4:31:21 PM	Jun 9, 2017 4:31:21 PM	configplugin_deconfig_2017-06-09_16-31-1...
Validate plug-in home	✓	Jun 9, 2017 4:31:22 PM	Jun 9, 2017 4:31:23 PM	configplugin_deconfig_2017-06-09_16-31-1...
Perform custom preconfiguration	✓	Jun 9, 2017 4:31:24 PM	Jun 9, 2017 4:31:24 PM	configplugin_deconfig_2017-06-09_16-31-1...
Delete plug-in's metadata	✓	Jun 9, 2017 4:31:24 PM	Jun 9, 2017 4:31:30 PM	configplugin_deconfig_2017-06-09_16-31-1...
Deconfigure plug-in from Management Repository	✓	Jun 9, 2017 4:31:30 PM	Jun 9, 2017 4:31:37 PM	schemadrop_2017-06-09_16-31-17.trc
Update inventory	✓	Jun 9, 2017 4:31:38 PM	Jun 9, 2017 4:31:38 PM	configplugin_deconfig_2017-06-09_16-31-1...

3.4.2 Delete Entry from Plugin Update List

1. Login in to EM console. Click “Setup” → ”Extensibility” → ”Plug-ins”.
2. Select OBP plugin and click “Check Updates”.

Figure 3–18 Check Updates

ORACLE Enterprise Manager Cloud Control 13c

Plug-ins

This page lists the plug-ins available, downloaded, and deployed to the Enterprise Manager system. Use this page to deploy or undeploy plug-ins.

Actions View Deploy On Undeploy From **Check Updates** Deployment Activities

Name	Version		On Management Server	Management Agent with Plug-in	Description
	Latest Available	Latest Downloaded			
Applications					
Oracle Fusion Application	13.2.2.0.0	13.2.2.0.0		0	Enterprise Manager for Fusion Apps consists of monitoring and management for Oracle Fusion and diagnostics in fusion application area.
Oracle Siebel	13.2.1.0.0	13.2.1.0.0		0	Enterprise Manager for Oracle Siebel consists of monitoring and management functionalities for Oracle Siebel.
Cloud					
Databases					
Engineered Systems					
Middleware					
Servers, Storage and Netwo					
OBP EM Plugin	13.2.1.0.0	13.2.1.0.0		0	OBP EM Plugin
Oracle Audit Vault	12.1.0.4.0	12.1.0.4.0		0	Enterprise Manager for Oracle Audit Vault provides monitoring and management of Oracle Audit Vault Server and its components.

OBP EM Plugin

General Recent Deployment Activities

Plug-in ID oracle.system.odhs

Vendor oracle Versions Downloaded 13.2.1.0.0

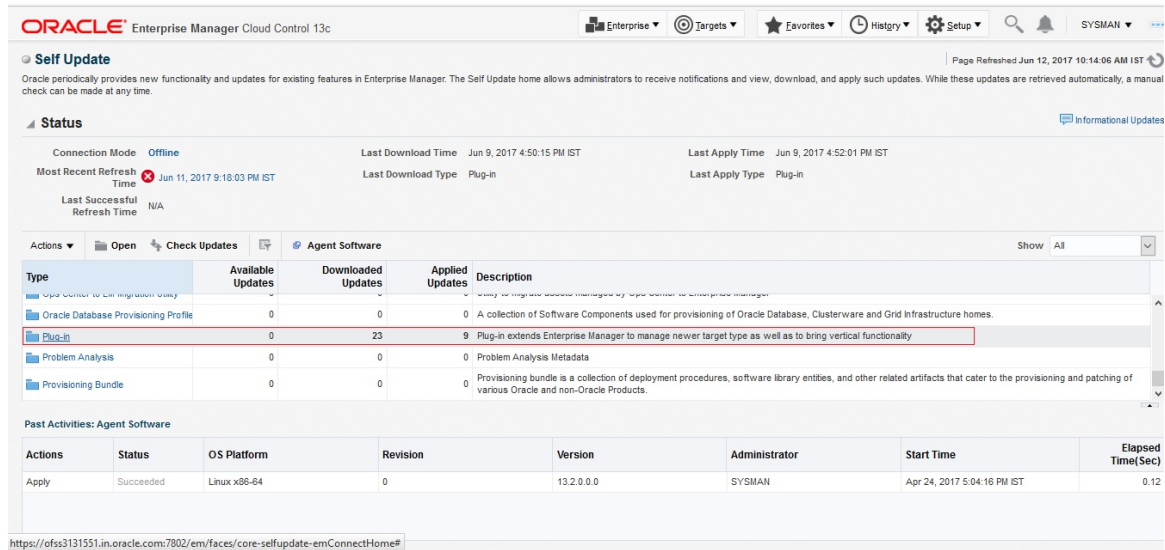
Version on Management Server None Description OBP EM Plugin

<https://efss3131551.in.oracle.com:7802/em/faces/core-pla-pluginDeployment1Adf-Page-Id=96#>

3. Click “Plug-in”.

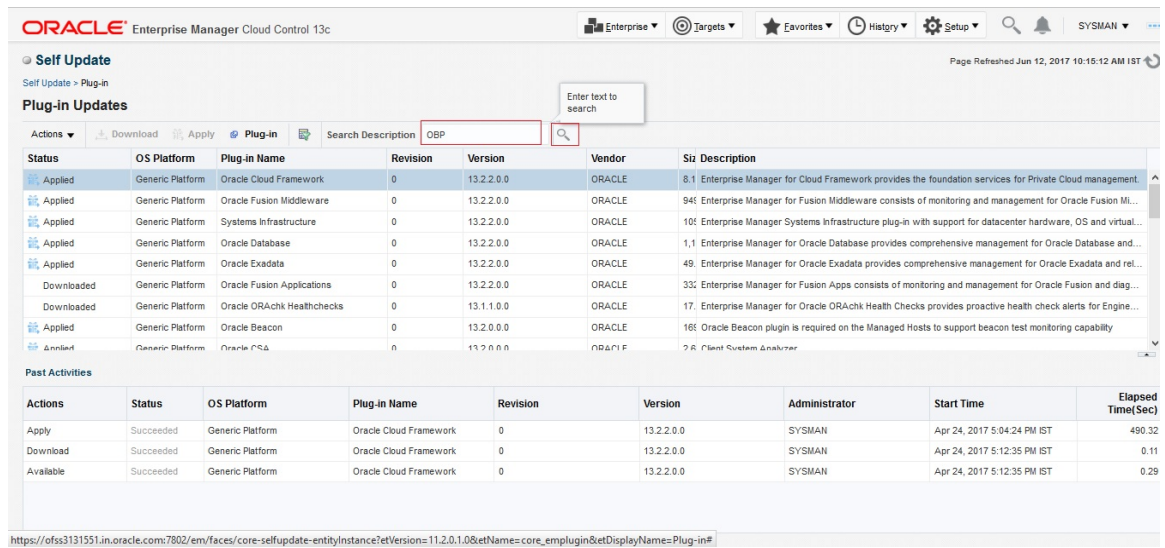
3.4 Undeploy the Plugin in EM

Figure 3–19 Choosing Plug-in Option



4. Enter “OBP” and click search icon.

Figure 3–20 Search OPB



5. Select OBP plugin then click “Action” → “Delete”.

Figure 3–21 Deleting OBP Plug-in

The screenshot shows the Oracle Enterprise Manager Cloud Control 13c interface. The page title is "Self Update > Plug-in". Under "Plug-in Updates", there is a table with the following data:

OS Platform	Plug-in Name	Revision	Version	Vendor	Size	Description
Generic Platform	OBP EM Plugin	0	13.2.1.0.0	ORACLE	5.6	OBP EM Plugin

An "Actions" menu is open over the table, with "Delete" selected. Below the table is a "Past Activities" section with the following data:

Actions	Status	OS Platform	Plug-in Name	Revision	Version	Administrator	Start Time	Elapsed Time(Sec)
Remove	Succeeded	Generic Platform	OBP EM Plugin	0	13.2.1.0.0	SYSMAN	Jun 12, 2017 10:07:23 AM IST	20.33
Apply	Succeeded	Generic Platform	OBP EM Plugin	0	13.2.1.0.0	SYSMAN	Jun 9, 2017 4:50:59 PM IST	61.36
Download	Succeeded	Generic Platform	OBP EM Plugin	0	13.2.1.0.0	SYSMAN	Jun 9, 2017 4:50:15 PM IST	0.52
Available	Succeeded	Generic Platform	OBP EM Plugin	0	13.2.1.0.0	SYSMAN	Jun 9, 2017 4:50:15 PM IST	1.34

6. Click "Delete".

Figure 3–22 Delete

The screenshot shows the Oracle Enterprise Manager Cloud Control 13c interface. The page title is "Self Update > Plug-in". Under "Plug-in Updates", there is a table with the following data:

Status	OS Platform	Plug-in Name	Revision	Version	Vendor	Size	Description
Downloaded	Generic Platform	OBP EM Plugin	0	13.2.1.0.0	ORACLE	5.6	OBP EM Plugin

A "Delete Update" dialog box is displayed in the center of the screen. The dialog contains the following text:

Delete will remove the update permanently.
Do you want to delete?

Buttons: Delete, Cancel

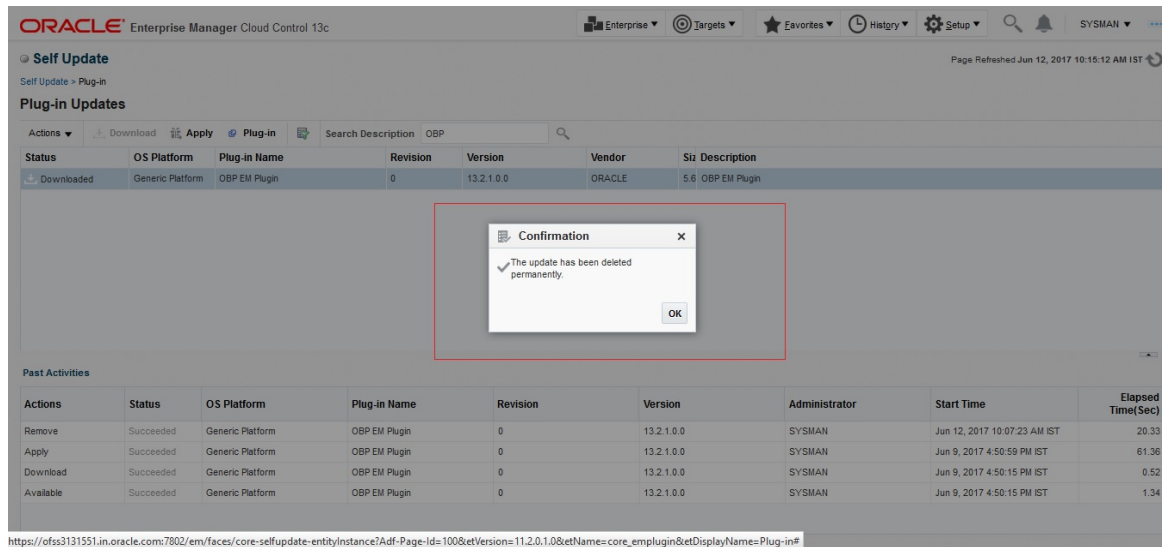
Below the dialog is a "Past Activities" section with the following data:

Actions	Status	OS Platform	Plug-in Name	Revision	Version	Administrator	Start Time	Elapsed Time(Sec)
Remove	Succeeded	Generic Platform	OBP EM Plugin	0	13.2.1.0.0	SYSMAN	Jun 12, 2017 10:07:23 AM IST	20.33
Apply	Succeeded	Generic Platform	OBP EM Plugin	0	13.2.1.0.0	SYSMAN	Jun 9, 2017 4:50:59 PM IST	61.36
Download	Succeeded	Generic Platform	OBP EM Plugin	0	13.2.1.0.0	SYSMAN	Jun 9, 2017 4:50:15 PM IST	0.52
Available	Succeeded	Generic Platform	OBP EM Plugin	0	13.2.1.0.0	SYSMAN	Jun 9, 2017 4:50:15 PM IST	1.34

URL: https://ofss3131551.in.oracle.com:7802/em/faces/core-selfupdate-entityInstance?_af-Page-Id=100&etVersion=11.2.0.1.0&etNames=core_emplugin&etDisplayName=Plug-in#

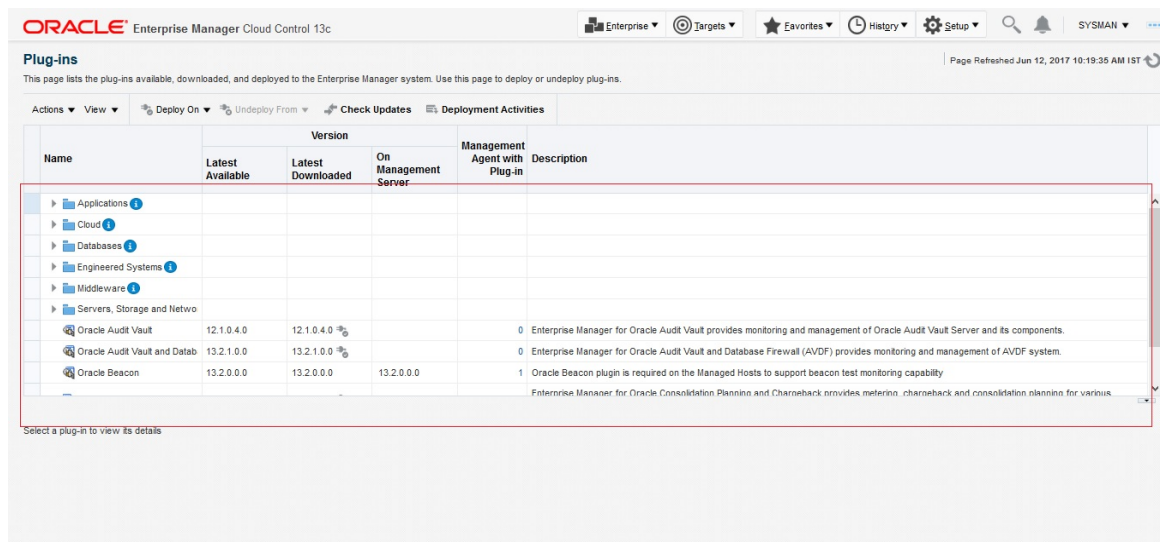
3.5 Deploy the Plugin in EM Agent.

Figure 3–23 Confirmation



7. Review the process.

Figure 3–24 Review



3.5 Deploy the Plugin in EM Agent.

1. Log to the EM machine.
2. Verify OEM secure port and agent port value based on OEM environment.
 - OEM secure port : is the port where OMS running in Oracle Enterprise Manager Server.
 - Agent port: is the port where Oracle Enterprise Manager Server agent running on Oracle Enterprise Manager Server host. We can get details after login to Oracle.
 - Please validate the TMP path defined in deploy_agent.sh script before executing.

3. Run the `deploy_agent.sh` script.

```
./deploy_agent.sh OBP_HOST OBP_HOST_DB_HOST OBP_HOST_DB_PORT OBP_HOST_DB_
SERVICE OBP_HOST_DB_USER OBP_UI OBP_SOA OBP_OID
```

e.g. for DEMO →

```
./deploy_agent.sh ofss310554.in.oracle.com 10.180.84.35 1521 NGPDEV INTG25
ofss310558.in.oracle.com ofss3121247.in.oracle.com ofss310453.in.oracle.com
```

Figure 3–25 Running `deploy_agent.sh`

```
[ofssobp@ofss3131551 OBP]$ ./deploy_agent.sh ofss310554.in.oracle.com 10.180.84.35 1521 NGPDEV INTG25 ofss310558.in.oracle.com ofss3121247.in.oracle.com ofss310453
.in.oracle.com
Enter OEM user : sysman
Enter OEM Password :
Enter OEM secure port : 7802
Enter OEM agent port : 3872
Enter OEM DB Password :
Enter OBP DB Password :
Enter OBP plugin version : 13.2.1.0.0
Enter Environment Name : INTG25

----- setup emcli ---
sh /scratch/app/oem13c_rel2/bin/emcli setup -url=https://ofss3131551.in.oracle.com:7802/em -username=sysman -pass=***** -dir=/scratch/ofssobp -licans=yes -trustal
l
Oracle Enterprise Manager 13c Release 2.
Copyright (c) 1996, 2016 Oracle Corporation and/or its affiliates. All rights reserved.

Emcli setup successful
----- deploy plugin to Agent
sh /scratch/app/oem13c_rel2/bin/emcli deploy_plugin_on_agent -agent_names=ofss3131551.in.oracle.com:3872 -plugin=oracle.system.odhs:13.2.1.0.0
Agent side plug-in deployment is in progress
Use "emcli get_plugin_deployment_status -plugin=oracle.system.odhs" to track the plug-in deployment status.
----- loop until async Agent deploy completes
Status      : Success
Status      : Success
Plugin Agent deploy took about 60 seconds
Sleep 60 to allow Agent to get ready (even though deployment status says success, the agent is restarting and takes time).
----- add a target --:
sh /scratch/app/oem13c_rel2/bin/emcli add_target -name=OBP_INTG25_VIEW -type=batch_view -host=ofss3131551.in.oracle.com -prop="UseGeneratedData:false;CPU_NUMBER:of
ss310554.in.oracle.com;DB_MachineName:10.180.84.35;DB_Port:1521;ServiceName:NGPDEV;DB_UserName:INTG25;DB_Password:welcme1;Environment_Name:ofss310558.in.oracle.co
m;UI_MachineName:ofss310558.in.oracle.com;SOA_MachineName:ofss3121247.in.oracle.com;OID_MachineName:ofss310453.in.oracle.com"
Target "OBP_INTG25_VIEW:batch_view" added successfully
```

4. This script will prompt user to input following password.

- a. OEM login/password
- b. OEM secure port
- c. OEM agent port
- d. OEM management repository sys password
- e. OBP DB password(Readonly will work)
- f. OBP plug-in version
- g. OBP environment name

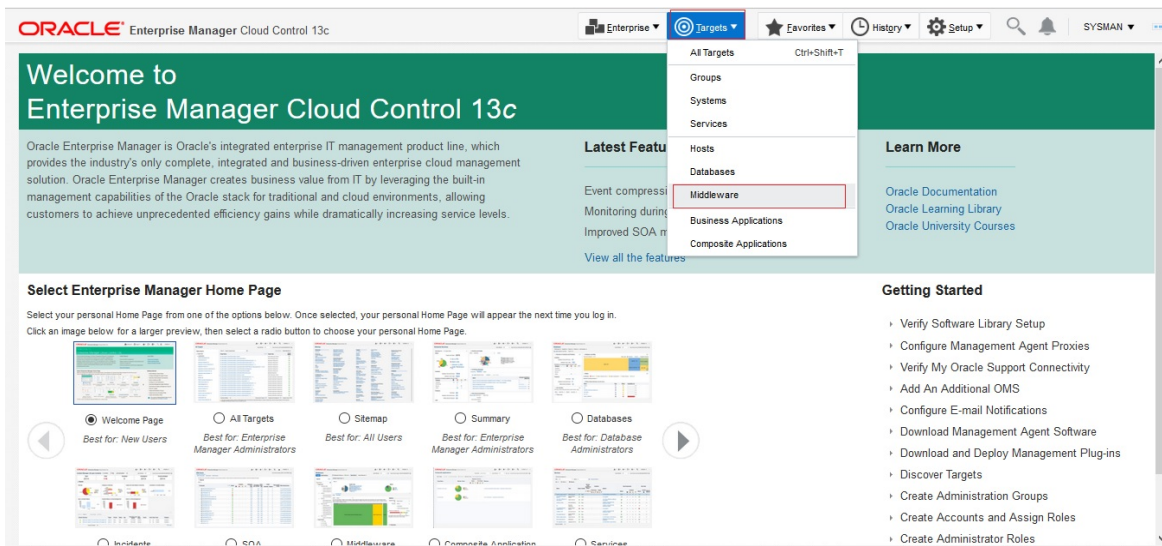
4 Create Services and Aggregate Service

The script is for creation of monitoring view in enterprise manager. Monitoring services of all the servers of an environment (Host, Presentation, SOA, OID etc.) are created, after the successful execution of the script. The monitoring services show the performance metric for the respective servers. For eg: CPU Utilization, JVM Memory-Heap Memory Usage etc. . Host and Presentation services contain OBP specific metric which gives the 'Average Processing Time' of various OBP services. Logs are generated in obp_em_view_script/logs/em_view_log.txt.

4.1 Verify the SOA Keys for Soa Service Creation

1. Log in to EM console. Click “Targets” →”Middleware”.

Figure 4–1 Select Middleware



2. Select one SOA domain.

4.1 Verify the SOA Keys for Soa Service Creation

Figure 4–2 Select SOA Domain

The screenshot shows the Oracle Enterprise Manager Cloud Control 13c interface. The main area displays a list of targets under the 'Middleware' section. The 'Target Name' column lists various targets, with the one 'mTG25_SOA_ofss3121247_in_oracle_com_base_domain/base_domain' highlighted in red. The 'Target Type' column shows 'Oracle WebLogic Domain' for this target. The 'Status' column shows a red arrow pointing down, indicating a problem. The 'Member Status Summary' column shows '5' in red, '7' in green, and '1' in yellow, with 'N/A' in the final column.

Target Name	Target Type	Status	Member Status Summary
mEMGC_GCDomain/GCDomain	Oracle WebLogic Domain	-	5 - - 2
mTG25_HOST_ofss310554_in_oracle_com_host_domain/host_domain	Oracle WebLogic Domain	-	7 - - 1
mTG25_SOA_ofss3121247_in_oracle_com_base_domain/base_domain	Oracle WebLogic Domain	-	9 - - 2
mTG25_UI_ofss310556_in_oracle_com_ui_domain/ui_domain	Oracle WebLogic Domain	-	2 7 - - 1
IOBP281_HOST_ofss3131369_in_oracle_com_host_domain/host_domain	Oracle WebLogic Domain	-	7 - - 1
INTG25_OID_ofss310453_in_oracle_com_IDMDomain	Oracle Fusion Middleware Farm	-	4 1 - - 1
IT2502_HOST_ofss310064_in_oracle_com_host_domain	Oracle Fusion Middleware Farm	-	3 - - 2

3. Drill down to the composites for the SOA middleware as shown in the screenshot.

Figure 4–3 Drill down to the Composites for the SOA Middleware

The screenshot shows the Oracle Enterprise Manager Cloud Control 13c interface. The 'Target Navigation' pane on the left shows a tree view of targets. The 'base_domain' target is selected, and its details are displayed on the right. The details include the server host 'ofss3121247.in.oracle.com', listen port '7001', and version '12.2.1.2.0'. The 'Diagnostics' section shows 'Incidents 0', 'Unresolved Incidents 0', 'Configuration Changes 0', 'Diagnostic Findings 0', and 'Configuration Problems 3'.

Figure 4–4 Deployed Composites

Composite Table

List of SOA Composites deployed on the SOA Infra. To trace an instance, select a Composite and click 'Trace instance'

Search:

Show Deployment Details

View

Composite	Status	Messages (per minute)	Errors (per minute)	Error Rate (%)	SOA Component Rollup				Composite Instances
					System Faults	Business Faults	Recoverable Faults	WS Policy Violations	
default/com.ofss.fc.approval.submissionfinancialspi_submifinancialcapture [1.0]	↑	0.00	0.00	0.00	0	0	0	0	0
default/com.ofss.fc.approval.creditdecisionspi_waivecollateralvaluation [1.0]	↑	0.00	0.00	0.00	0	0	0	0	0
default/com.ofss.fc.workflow.process.CapturePartyFinancials [1.0]	↑	0.00	0.00	0.00	0	0	0	0	0
default/com.ofss.fc.workflow.process.ProcessLoanRollover [1.0]	↑	0.00	0.00	0.00	0	0	0	0	0
default/com.ofss.fc.workflow.process.StructureDepositSolution [1.0]	↑	0.00	0.00	0.00	0	0	0	0	0
default/com.ofss.fc.workflow.process.ProvisionIdentity [1.0]	↑	0.00	0.00	0.00	0	0	0	0	0
default/com.ofss.fc.workflow.process.ProcessCreditCardApplication [1.0]	↑	0.00	0.00	0.00	0	0	0	0	0
default/com.ofss.fc.aprooval.hardshireleiefreecustoi_aoolvhardshireleief [1.0]	↑	0.00	0.00	0.00	0	0	0	0	0

Columns Hidden: 4

https://ofss3131551.in.oracle.com:7802/em/faces/ai/gc/soa/soainfra?_af=Page-Id=7&target=/INTG25_SOA_ofss3121247_in_oracle_com_base_domain/base_domain/soa_server1/soa-infra&type=oracle_soainfra#

- Go to the `wlsoutput_soa.properties` file in the keys folder → `obp_em_view_script/temp_files/`.
- Add the composite names from the screen to the above file.
- Also check whether the entries in the file are present in the composite list of the middleware in the EM screen, and if not the remove them. (Adding only a few composites will do, as once the service has been created by the script, the rest of the compositoid may be added to the service by just selecting them from the screen, as mentioned later in this guide).

4.2 Execute Script to Create OBP OEM View

- Login to the EM console.
- Export the PATH to include OMS bin folder.

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

e.g. for DEMO →

```
export PATH=$PATH:/scratch/app/product/oem12cr4/oms/bin
```
- Export the EMCLI command path.

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

e.g. for DEMO →

```
export EMCLI=/scratch/app/product/oem12cr4/oms/bin/emcli
```
- Following standard ports are assumed for running the scripts.

(in the script file: `obp_em_view_script/scripts/create_em_view.sh`)

HOST : 8001 (Line 50: `./create_variables_xml.sh $host_ip "8001" "http" "host" $log_level`)

UI : 8001 (Line 64: `./create_variables_xml.sh $ui_ip "8001" "http" "ui" $log_level`)

SOA : 7001 (Line 79: `./create_variables_xml.sh $soa_ip "7001" "http" "soa" $log_level`)

4.2 Execute Script to Create OBP OEM View

Oid : 7001 (Line 90: ./create_variables_xml.sh \$oid_ip "7001" "http" "oid" \$log_level)

Documaker: 10001 (Line 103: ./create_variables_xml.sh \$documaker_ip "10001" "http" "documaker" \$log_level)

IPM: 16000 (Line 127: ./create_variables_xml.sh \$IPM_ip "16000" "http" "ipm" \$log_level)

BIP: 9704 (Line 140: ./create_variables_xml.sh \$BIP_ip "9704" "http" "bip" \$log_level)

The above values in the mentioned lines can be changed accordingly to your case.

- Run the em_view.sh script with the parameters as follows:

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

e.g. for DEMO →

```
./em_view.sh "ofss310538.in.oracle.com" "ofss310531.in.oracle.com" "ofss3131311.in.oracle.com"
"ofss310536.in.oracle.com" "ofss3121096.in.oracle.com" "9998" "no" "ofss3131443.in.oracle.com"
"9999" "10.184.149.241" "10.180.6.123"
```

Since bip, atm, documaker and ipm servers need not be present for all the environments, we can just mention “no” for the servers not present in that environment.

e.g. for DEMO →

```
./em_view.sh -v " ofss310538.in.oracle.com " " ofss310531.in.oracle.com " "
ofss3131311.in.oracle.com " " ofss310536.in.oracle.com "no" "no" "no" "no"
```

It will take approximately 40-45 minutes to run and create the services and an aggregate service with the various servers for that environment.

The services after creation should look like this:

Figure 4–5 Services After Creation

Name	Type	Status	Availability	Service Level Agreement Status	Incidents				System	Key Components				Key Tests				
					Performan	Usage	Status	Monitoring Beacons										
OBP_INTG25_SOA_Service	Generic Service	↑	Tests	-	-	-	-	-	-	/INTG25_SOA_ofss3121247_in_oracle_com_bas... /base_domain/soa_server1/soa-infra	n/a	0	0	0	0	0	↑1	1
OBP_INTG25_HOST_Service	Generic Service	↑	Tests	-	-	-	-	-	-	/INTG25_HOST_ofss310554_in_oracle_com_hos... /host_domain	n/a	0	0	0	0	0	↑1	1
OBP_INTG25_OD_Service	Generic Service	↑	Tests	-	-	-	-	-	-	/INTG25_OD_ofss310453_in_oracle_com_DMDo... /DMDomain	n/a	0	0	0	0	0	↑1	1
EM Console Service	EM Service	↑	Tests	-	-	-	-	-	-	Management Services and Repository	n/a	0	0	0	0	0	↑1	1
EM Jobs Service	EM Service	↑	System	-	-	-	-	-	-	Management Services and Repository	↑6	0	0	0	0	0	n/a	0
OBP_INTG25_Monitoring_Service	Generic Service	↑	System	-	-	-	-	-	-	OBP_INTG25_Monitoring_System	↑1	0	0	0	0	0	n/a	0
OBP_INTG25_UI_Service	Generic Service	↑	Tests	-	-	-	-	-	-	/INTG25_UI_ofss310558_in_oracle_com_ui_domain /ui_domain	n/a	0	0	0	0	0	↑1	1
OBP_INTG25_View	Aggregate Service	↑	Sub Services	-	-	-	-	-	-	n/a	↑5	0	0	0	0	0	n/a	0

4.3 Manually Configuring the Systems to be Put in the Services

We can manually change the systems accordingly as to be included or not in a particular service.

1. Select and click on the service.

Figure 4–6 Selecting an Entry

Name	Type	Status	Availability	Service Level Agreement Status	Incidents		System	Key Components				Key Tests			
					Perfoman	Usage		Status	Incidents	Status	Monitoring Beacons				
OBP_INTG25_SOA_Service	Generic Service	↑	Tests	-	-	-	-	/INTG25_SOA_ofss3121247_in_oracle_com_bas.../base_domain/soa_server1/soa-infra	n/a	0	0	0	0	↑1	1
OBP_INTG25_HOST_Service	Generic Service	↑	Tests	-	-	-	-	/INTG25_HOST_ofss310554_in_oracle_com_hos.../host_domain	n/a	0	0	0	0	↑1	1
OBP_INTG25_OID_Service	Generic Service	↑	Tests	-	-	-	-	/INTG25_OID_ofss310453_in_oracle_com_CMDo.../CMDomain	n/a	0	0	0	0	↑1	1
EM Console Service	EM Service	↑	Tests	-	-	-	-	Management Services and Repository	n/a	0	0	0	0	↑1	1
EM Jobs Service	EM Service	↑	System	-	-	-	-	Management Services and Repository	↑5	0	0	0	0	n/a	0
OBP_INTG25_Monitoring_Service	Generic Service	↑	System	-	-	-	-	OBP_INTG25_Monitoring_System	↑1	0	0	0	0	n/a	0
OBP_INTG25_UI_Service	Generic Service	↑	Tests	-	-	-	-	/INTG25_UI_ofss310558_in_oracle_com_ui_domain/ui_domain	n/a	0	0	0	0	↑1	1
OBP_INTG25_View	Aggregate Service	↑	Sub Services	-	-	-	-	n/a	↑5	0	0	0	0	n/a	0

2. Go to the “Generic Service” → “Administration” → “System Association”.

Figure 4–7 Navigating to System Association

Name	Type	Status	History
OBP_INTG25_HOST_Service	Gener...	↑	[Green bar]
test/Web	Web ...	↑	[Green bar]
EM Management Bes	Beacon	↑	[Green bar]

3. Check or uncheck the systems for inclusion or exclusion in the service. Click on OK and click YES on confirmation. Similar step is to be followed for configuring the systems for SOA, UI and OID servers.

4.3 Manually Configuring the Systems to be Put in the Services

Figure 4–8 Configuring Systems for Inclusion or Exclusion

Oracle Enterprise Manager Cloud Control 13c

OBP_INTG25_HOST_Service

Generic Service Performance / Incidents SLA Dashboard Test Summary Topology Create Blackout... End Blackout...

Generic Services: OBP_INTG25_HOST_Service > System Association

System Association

Select the Enterprise Manager system that will host this service, then identify the targets critical for running this service.

System: /INTG25_HOST_ofas310554_in_oracle_com_host_domain/host_domain Change System Remove System

Time Zone: (UTC+00:00) - Greenwich Mean Time (GMT)

Component	Type	Key Component
/INTG25_HOST_ofas310554_in_oracle_com_host_domain/host_domain/obphost_server1/com.ofas.fc.webservices	Application Deployment	<input type="checkbox"/>
/INTG25_HOST_ofas310554_in_oracle_com_host_domain/host_domain/obphost_server1/com.ofas.fc.reports	Application Deployment	<input type="checkbox"/>
/INTG25_HOST_ofas310554_in_oracle_com_host_domain/host_domain/obphost_server1/com.ofas.fc.ops.em.dms	Application Deployment	<input type="checkbox"/>
/INTG25_HOST_ofas310554_in_oracle_com_host_domain/host_domain/obphost_server1/com.ofas.fc.middleware	Application Deployment	<input type="checkbox"/>
/INTG25_HOST_ofas310554_in_oracle_com_host_domain/host_domain/obphost_server1/com.ofas.fc.messaging	Application Deployment	<input type="checkbox"/>
/INTG25_HOST_ofas310554_in_oracle_com_host_domain/host_domain/obphost_server1/com.ofas.fc.dms	Application Deployment	<input type="checkbox"/>
/INTG25_HOST_ofas310554_in_oracle_com_host_domain/host_domain/obphost_server1/com.ofas.fc.app.connector	Application Deployment	<input type="checkbox"/>
/INTG25_HOST_ofas310554_in_oracle_com_host_domain/host_domain/obphost_server1	Oracle WebLogic Server	<input type="checkbox"/>
/INTG25_HOST_ofas310554_in_oracle_com_host_domain/host_domain/obphost_cluster1/com.ofas.fc.webservices	Clustered Application Deployment	<input type="checkbox"/>
/INTG25_HOST_ofas310554_in_oracle_com_host_domain/host_domain/obphost_cluster1/com.ofas.fc.reports	Clustered Application Deployment	<input type="checkbox"/>

Tip: A "system" is the infrastructure used to host one or more services. A system consists of components such as hosts, databases and other targets. The system components that you mark as "Key Components" may be used to determine service availability, or, in case of service failure, to perform root cause analysis. Click Help for details.

5 Deploy Standalone Web Service War on OEM Weblogic Domain

5.1 Deploy of Deploying Standalone Web Service to Fetch DMS Metrics from Server

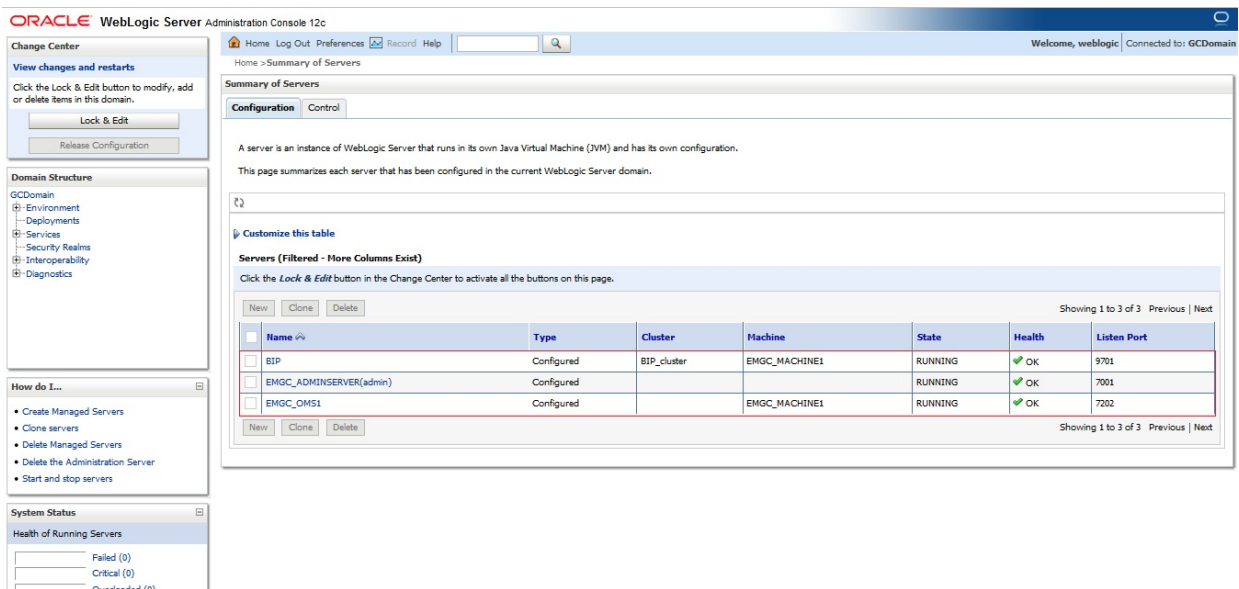
One user, for example an “oemuser” is to be provisioned in OID for OBP Host and UI. If we don’t manage Weblogic user through OID then it is required to create a user named “oemuser” in Weblogic server locally for OBP host and UI.

Currently on OEM13C we have following servers

- EMGC_ADMINSERVER(Weblogic Admin Server)
- EMGC_OMS1(Weblogic Managed Server)
- BIP(Weblogic Managed Server)

We can deploy “com.ofss.fc.ops.em.dms.ear” on EMGC_OMS1,BIP managed server. Before deploying “com.ofss.fc.ops.em.dms.ear” on managed server please open http port as OBP plugin unable to communicate to the web services deployed on secure port in current release.

Figure 5–1 Admin Console of EM Machine



1. Login to the admin console of EM machine.
2. Click on “Deployments” and then click “Install”.

Figure 5–2 Install Button Under Deployments

The screenshot shows the Oracle WebLogic Server Administration Console. On the left, the 'Domain Structure' tree is expanded to 'Deployments'. The main area displays a table of installed applications and modules. The 'Install' button is highlighted in the table header.

Name	State	Health	Type	Targets	Deployment Order
adf.oracle.businesseditor(1.0.12.1.3.0.0)	Active		Library	BIP_cluster, EMGC_ADMINSERVER, EMGC_OMS1	100
adf.oracle.domain(1.0.12.1.3.0.0)	Active		Library	BIP_cluster, EMGC_ADMINSERVER, EMGC_OMS1	100
adf.oracle.domain.webapp(1.0.12.1.3.0.0)	Active		Library	BIP_cluster, EMGC_ADMINSERVER, EMGC_OMS1	100
asim-3.1(13.2.0.0.0.3.1)	Active		Library	EMGC_OMS1	100
bjbdc(11.1.1)	Active		Library	BIP_cluster	300
bip-shared-libraries(11.1.1)	Active		Library	BIP_cluster	500
bipublisher (11.1.1)	Active	OK	Enterprise Application	BIP_cluster	510
coherence-transaction-rar	Active	OK	Resource Adapter	BIP_cluster, EMGC_ADMINSERVER, EMGC_OMS1	100
commons-math3-3.2.3.2.2	Active		Library	EMGC_OMS1	100
dfloaderclasspath	Active		Library	EMGC_OMS1	100

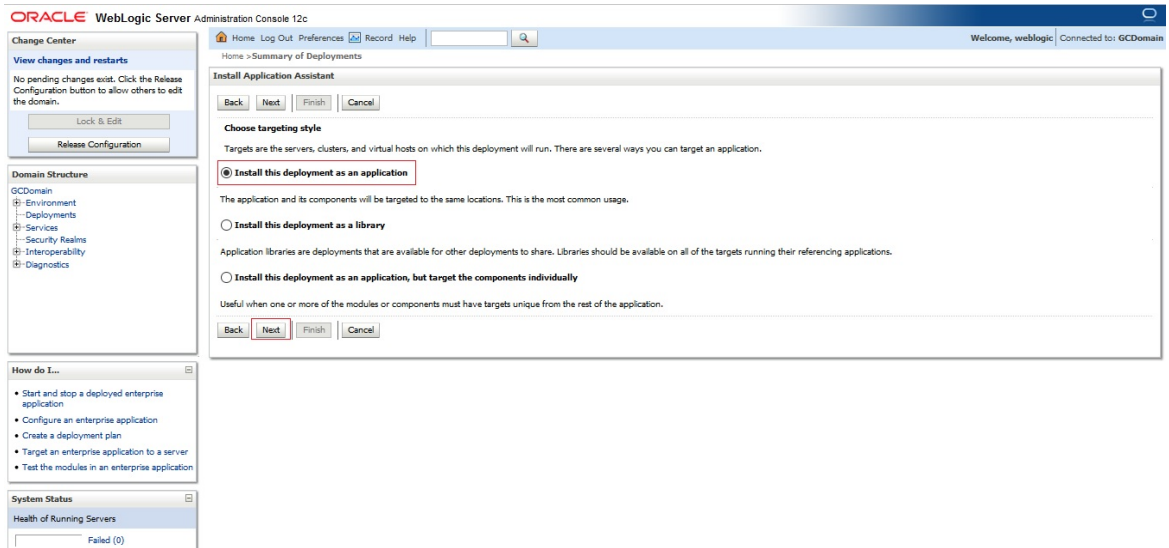
- Click on install button.
- Select com.ofss.fc.ops.em.dms.ear located in PLUGIN_HOME (/scratch/app/product/obppugin) and click “Next” button.

Figure 5–3 com.ofss.fc.ops.em.dms.ear in PLUGIN_HOME

The screenshot shows the 'Install Application Assistant' dialog in the Oracle WebLogic Server Administration Console. The 'Path' field is filled with the file path: /scratch/app/product/obppugin/plugin/com.ofss.fc.ops.em.dms.ear. The 'Next' button is highlighted.

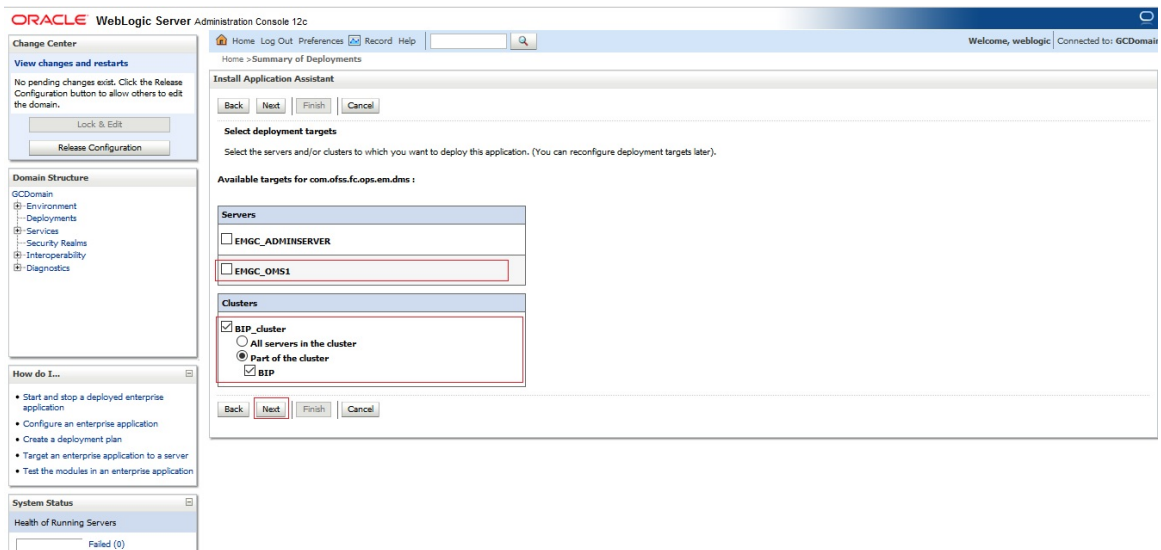
- Select option “Install this deployment as an application” and click on “Next” button.

Figure 5–4 Install This Deployment as an Application



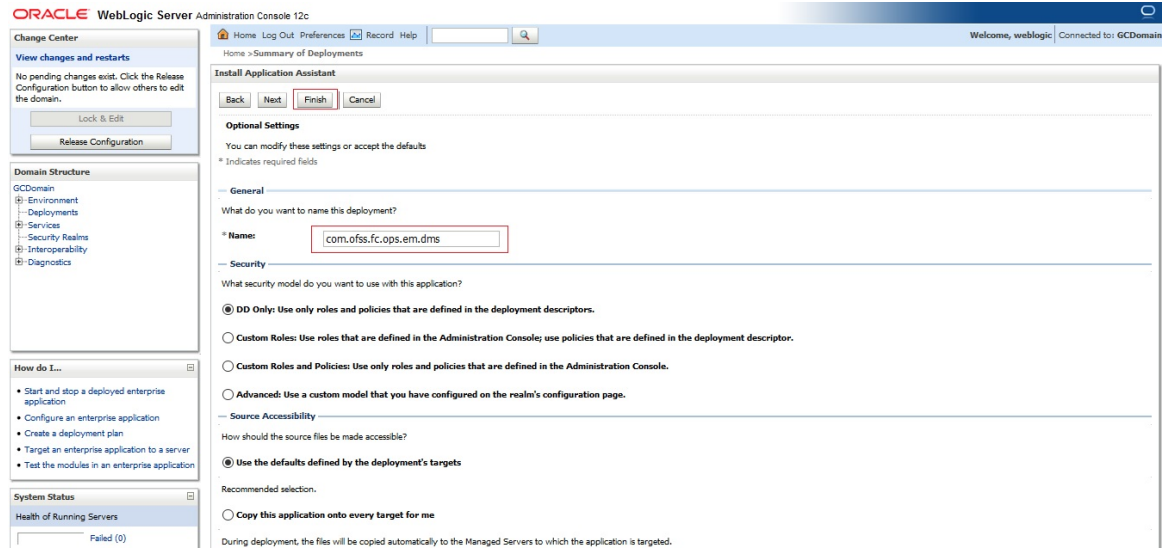
6. Select EMGC_OMS1 or BIP server as target and click on “Next” button.

Figure 5–5 EMGC_OMS1



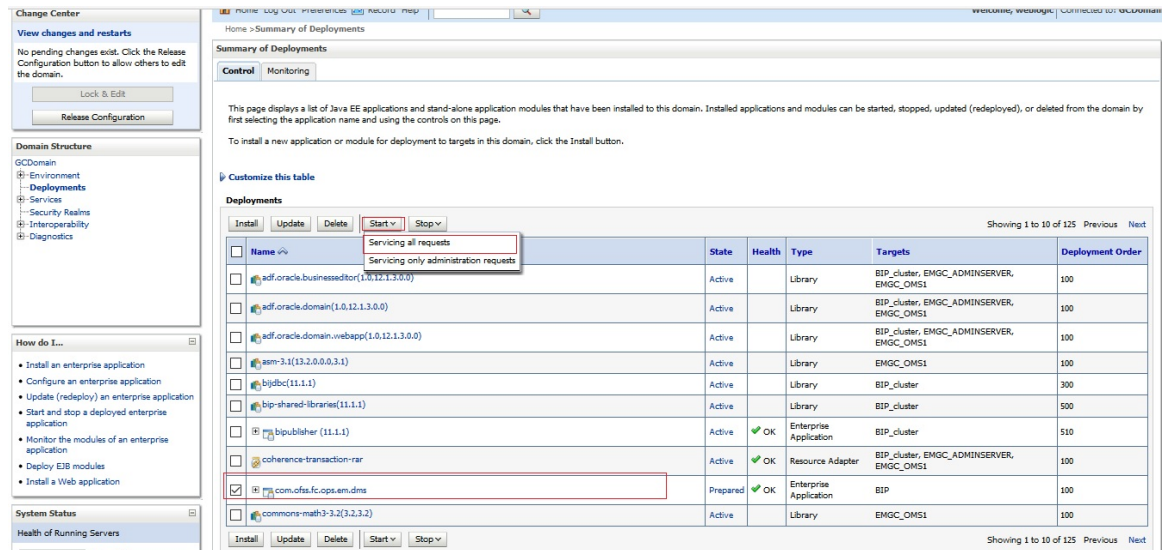
7. Enter name as “com.ofss.fc.ops.em.dms” and click on “Finish” button.

Figure 5–6 Finish



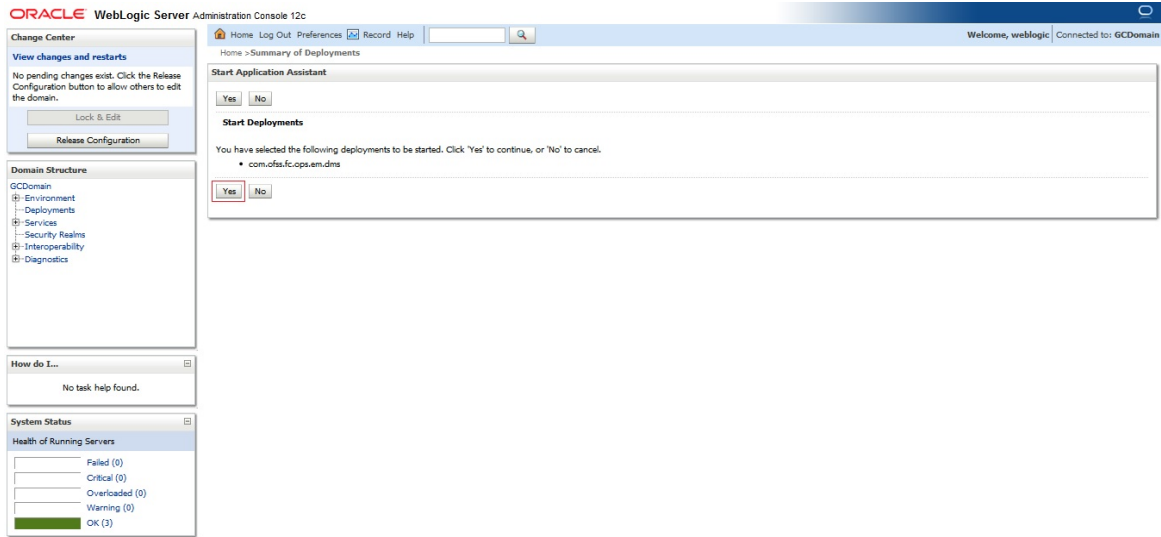
8. Select Lock and Edit button. Then select com.ofss.fc.ops.em.dms ear and click on “Servicing all request option” as shown in screenshot.

Figure 5–7 Servicing All Request Option



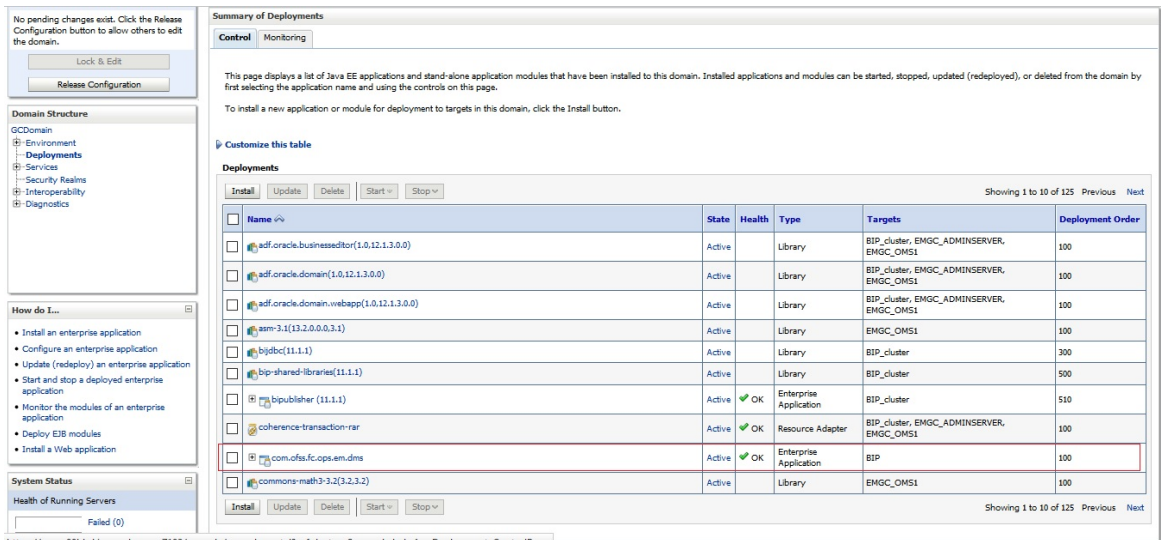
9. Click on Yes button.

Figure 5–8 Yes Option



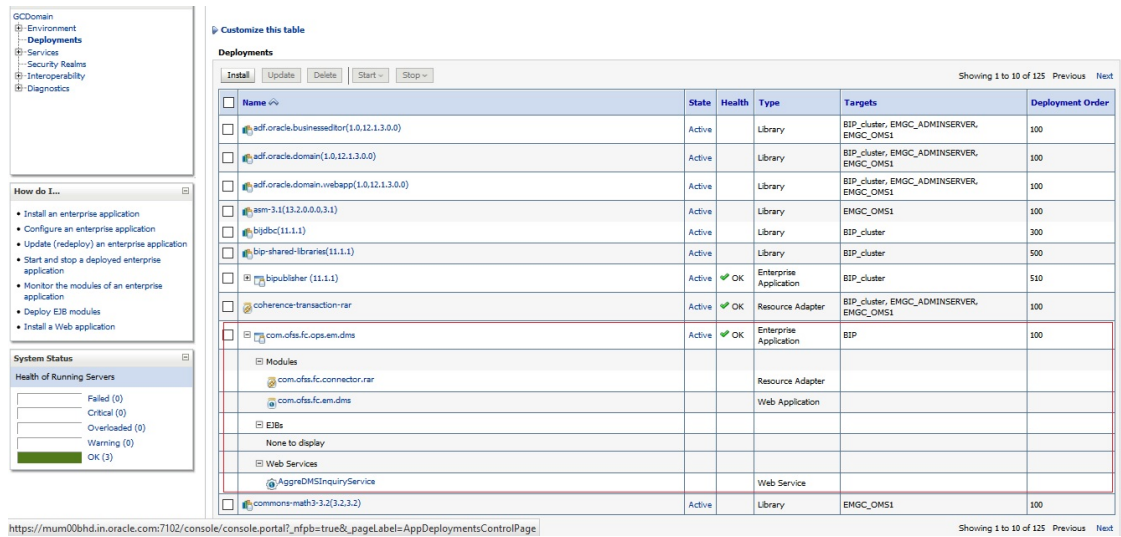
You can see com.ofss.fc.ops.em.dms.ear in active state.

Figure 5–9 com.ofss.fc.ops.em.dms.ear in Active State



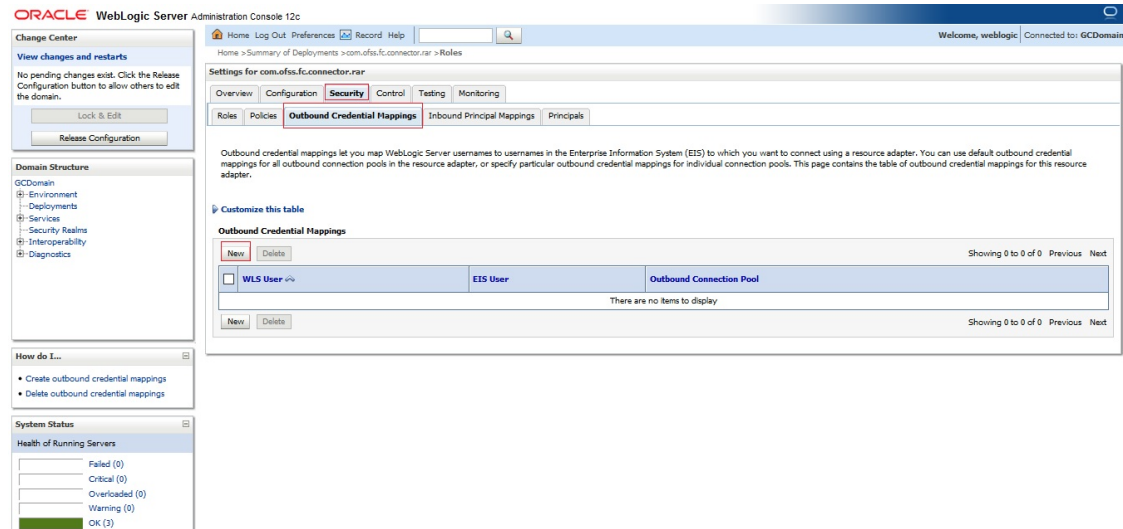
- Expand com.ofss.fc.ops.em.dms.ear and click com.ofss.fc.connector.rar.

Figure 5–10 com.ofss.fc.connector.rar Option



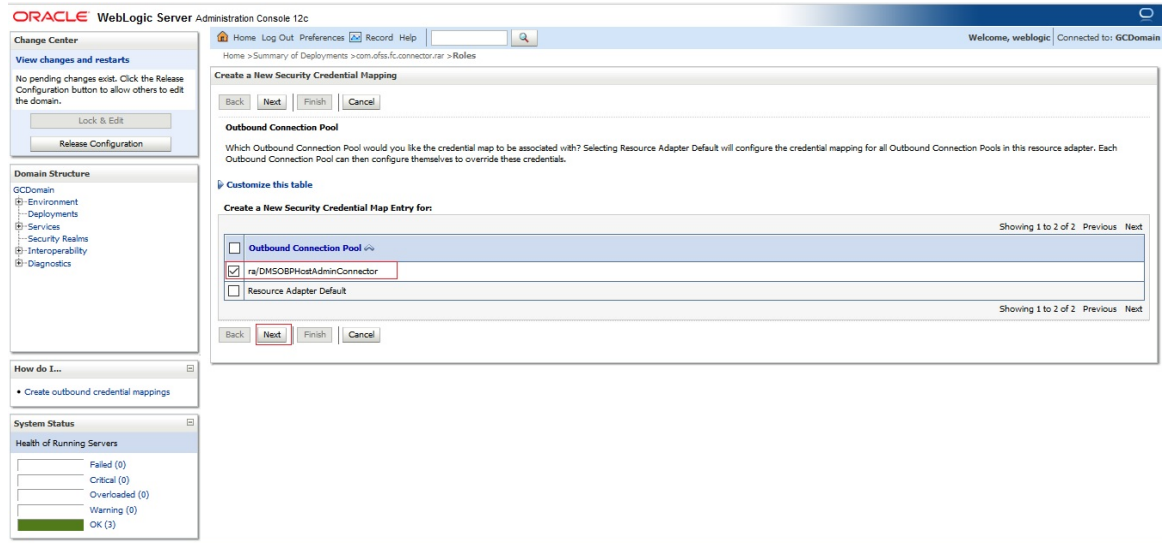
11. Click on “security”→“Credential Mapping”. Then click “New”.

Figure 5–11 Credential Mapping



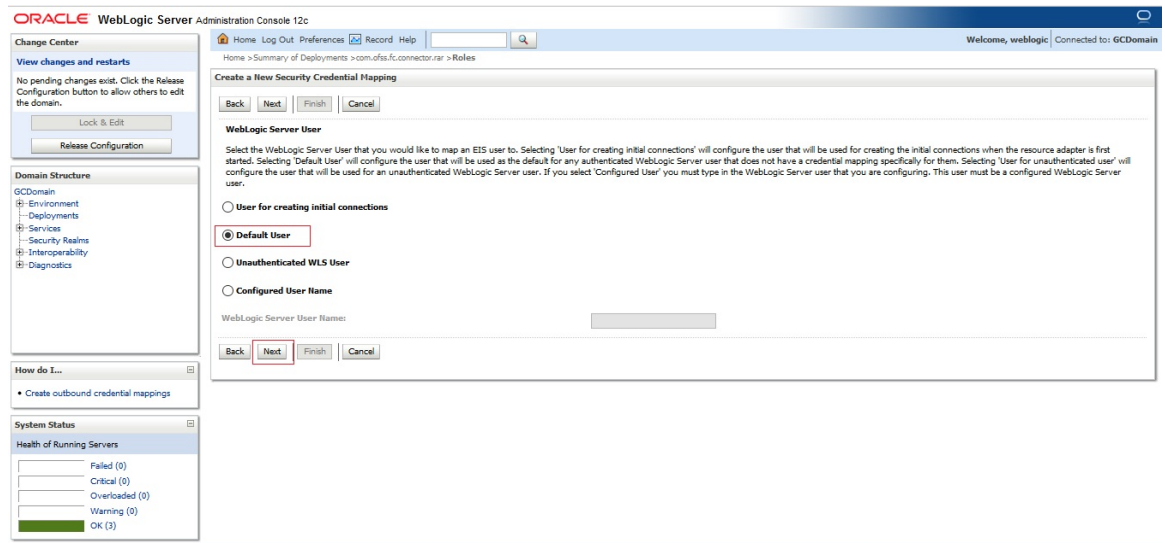
12. Check option for “ra/OBPDMSConnector” and Click “Next”.

Figure 5–12 ra/OBPDMSConnector



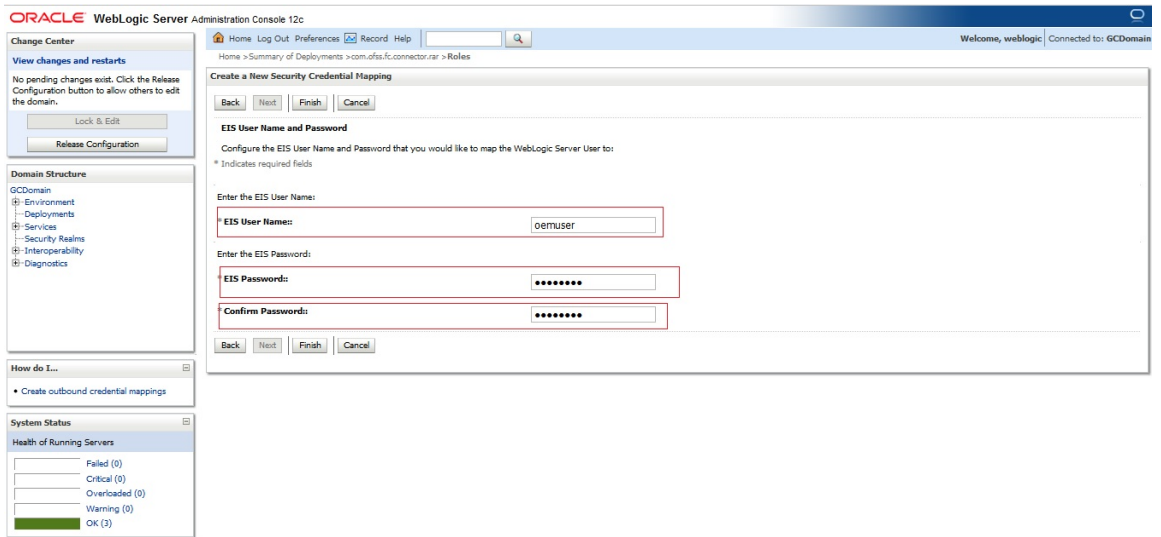
13. Select option “Default User” and Click “Next”.

Figure 5–13 Default User



14. Set username and password as created as OBP Host and UI Weblogic admin server and click “Finish”.

Figure 5–14 Username and Password



6 Create and Deploy SEED Data to Run OBP Plugin

6.1 Seed Creation of OBP Server and Domain Details to Run OBP Plugin

1. Create table with table creation script on OEM database with sysman schema.

Table creation script (FLX_FW_EM_CONFIG_VAR_B.SQL) available in <OBPINSTALLER>/em_monitor/EM/OBP_Management_Pack/db

2. Check Weblogic Admin server for OBP host and UI running on which port.

Sample seed is available in <OBPINSTALLER>/em_monitor/EM/OBP_Management_Pack/seed

Based on Weblogic Admin Server Address and Port create seed. Important parameters are

OBP Host Weblogic Admin Server Address:

PROP_ID=host.admin.address

ENV_ID={Monitoring Environment Unique Identification}. Target name of the OBP plugin.

PROP_VALUE={OBP Host Weblogic Admin Server Address}

OBP Host Weblogic Admin Server Port:

PROP_ID= host.admin.port'

ENV_ID={Monitoring Environment Unique Identification}. Target name of the OBP plugin.

PROP_VALUE={OBP Host Weblogic Admin Server Port}

OBP UI Weblogic Admin Server Address:

PROP_ID= ui.admin.address

ENV_ID={Monitoring Environment Unique Identification}. Target name of the OBP plugin.

PROP_VALUE={OBP Host Weblogic Admin Server Address}

OBP UI Weblogic Admin Server Port:

PROP_ID= ui.admin.port

ENV_ID={Monitoring Environment Unique Identification}. Target name of the OBP plugin.

PROP_VALUE={OBP Host Weblogic Admin Server Port}

Example:


```
Insert into FLX_FW_EM_CONFIG_VAR_B (PROP_ID,ENV_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,CREATED_BY,CREATION_DATE,LAST_UPDATED_BY,LAST_UPDATED_DATE,OBJECT_STATUS_FLAG,OBJECT_VERSION_NUMBER,ADD_PROP_VALUE) values ('host.admin.address','OBP_T20_VIEW','ofss310523.in.oracle.com','y',null,'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'A',1,'N/A');
```

```
Insert into FLX_FW_EM_CONFIG_VAR_B (PROP_ID,ENV_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,CREATED_BY,CREATION_DATE,LAST_UPDATED_BY,LAST_UPDATED_DATE,OBJECT_STATUS_FLAG,OBJECT_VERSION_NUMBER,ADD_PROP_VALUE) values ('ui.admin.address','OBP_T20_VIEW','ofss310528.in.oracle.com','y',null,'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'A',1,'N/A');
```

```
Insert into FLX_FW_EM_CONFIG_VAR_B (PROP_ID,ENV_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,CREATED_BY,CREATION_DATE,LAST_UPDATED_BY,LAST_UPDATED_DATE,OBJECT_STATUS_FLAG,OBJECT_VERSION_NUMBER,ADD_PROP_VALUE) values ('host.admin.port','OBP_T20_VIEW','7001','y',null,'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'A',1,'N/A');
```

```
Insert into FLX_FW_EM_CONFIG_VAR_B (PROP_ID,ENV_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,CREATED_BY,CREATION_DATE,LAST_UPDATED_BY,LAST_UPDATED_DATE,OBJECT_STATUS_FLAG,OBJECT_VERSION_NUMBER,ADD_PROP_VALUE) values ('ui.admin.port','OBP_T20_VIEW','7001','y',null,'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'A',1,'N/A');
```

```
Insert into FLX_FW_EM_CONFIG_VAR_B
```

3. Check Unique Domain Identifier created for OBP Host and UI and all related managed servers .Create seed for managed server for OBP Host and UI as follows.Need to create seed for all managed server for OBP host and UI servers.

Important parameter are as follows:

OBP Host Managed Server:

PROP_ID= host.manage.server.domain

ENV_ID={Monitoring Environment Unique Identification}.Target name of the OBP plugin.

PROP_VALUE= Unique Domain Identifier

ADD_PROP_VALUE=OBP Host Managed Server Name

OBP UI Managed Server:

PROP_ID=ui.manage.server.domain

ENV_ID={Monitoring Environment Unique Identification}.Target name of the OBP plugin.

PROP_VALUE= Unique Domain Identifier

ADD_PROP_VALUE=OBP UI Managed Server Name

Example:

```
Insert into FLX_FW_EM_CONFIG_VAR_B (PROP_ID,ENV_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,CREATED_BY,CREATION_DATE,LAST_UPDATED_BY,LAST_UPDATED_DATE,OBJECT_STATUS_FLAG,OBJECT_VERSION_NUMBER,ADD_PROP_VALUE) values ('host.manage.server.domain','OBP_T20_VIEW','/T20_HOST_host_domain/host_domain','y',null,'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'A',1,'obphost_server1');
```

```
Insert into FLX_FW_EM_CONFIG_VAR_B (PROP_ID,ENV_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,CREATED_BY,CREATION_DATE,LAST_UPDATED_BY,LAST_UPDATED_DATE,OBJECT_STATUS_FLAG,OBJECT_VERSION_NUMBER,ADD_PROP_VALUE) values ('ui.manage.server.domain','OBP_T20_VIEW','/T20_UI_ui_domain/ui_domain','y',null,'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'A',1,'obpui_server1');
```

4. Check OEM Weblogic Admin Server unsecure port and create seed .

Important parameters are :

PROP_ID= em.admin.port

ENV_ID= default

PROP_VALUE= OEM Weblogic Admin Server unsecure port

Example:

```
Insert into FLX_FW_EM_CONFIG_VAR_B (PROP_ID,ENV_ID,PROP_VALUE,FACTORY_SHIPPED_FLAG,PROP_COMMENTS,CREATED_BY,CREATION_DATE,LAST_UPDATED_BY,LAST_UPDATED_DATE,OBJECT_STATUS_FLAG,OBJECT_VERSION_NUMBER,ADD_PROP_VALUE) values ('em.admin.port','default','7001','y',null,'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'ofssuser',to_timestamp('16-OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'A',1,'N/A');
```

5. Create seed for default OEM properties as every configuration fetched through query.

Important parameters are

PROP_ID= em.extract.prop

ENV_ID= default

PROP_VALUE= 'QUERY'

```
Insert into FLX_FW_EM_CONFIG_VAR_B (PROP_ID,ENV_ID,PROP_VALUE,FACTORY_
SHIPPED_FLAG,PROP_COMMENTS,CREATED_BY,CREATION_DATE,LAST_UPDATED_
BY,LAST_UPDATED_DATE,OBJECT_STATUS_FLAG,OBJECT_VERSION_NUMBER,ADD_
PROP_VALUE) values ('em.extract.prop','default','QUERY','y',null,'ofssuser',to_timestamp('16-
OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'ofssuser',to_timestamp('16-
OCT-15 07.13.22.000000000 PM','DD-MON-RR HH.MI.SSXFF AM'),'A',1, 'N/A');
```