JD Edwards EnterpriseOne

Application Pack for Oracle Enterprise Manager Cloud Control 13c Implementation Guide

Release 9.1

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Describes the implementation of the JD Edwards EnterpriseOne Application Pack for Oracle Enterprise Manager Cloud Control 13c.

ORACLE

JD Edwards EnterpriseOne Application Pack for Oracle Enterprise Manager Cloud Control 13c Implementation Guide, Release 9.1

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Preface

Welcome to the *JD Edwards EnterpriseOne Application Pack for Oracle Enterprise Manager Cloud Control Implementation Guide*. This guide has been updated for JD Edwards EnterpriseOne Tools release 9.2.0.2.

Audience

This guide is intended for system administrators and managers who are responsible for monitoring enterprise management systems.

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Conventions

The following text conventions are used in this document:

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

1 Introduction

This chapter contains the following topics:

- Section 1.1, "JD Edwards EnterpriseOne Application Pack for Oracle Enterprise Manager Cloud Control Overview"
- Section 1.2, "Additional Information"
- Section 1.3, "Certifications"
- Section 1.4, "JDE AppPack Installer Versions"
- Section 1.5, "Obtaining Oracle Software Components from the Oracle Software Delivery Cloud"
- Section 1.6, "Compatible JDE AppPack and Cloud Control Versions"
- Section 1.7, "Server Manager for JD Edwards EnterpriseOne Overview"
- Section 1.8, "Features at a Glance"
- Section 1.9, "Features of Server Manager That Are Not Supported by Cloud Control"
- Section 1.10, "Limitations"
- Section 1.11, "Network Performance Considerations"
- Section 1.12, "Glossary of Terms"
- Section 1.13, "Deployment Architecture"

1.1 JD Edwards EnterpriseOne Application Pack for Oracle Enterprise Manager Cloud Control Overview

The JD Edwards EnterpriseOne Application Pack for Oracle Enterprise Manager Cloud Control, in this document is referred to as the JDE AppPack and Cloud Control, respectively.

The JDE AppPack allows you to use the graphical user interface of Cloud Control to monitor and manage your JD Edwards Server products. This product leverages the existing JD Edwards Server Manager functionality that monitors all entities constituting an EnterpriseOne installation. For example, Server Manager collects real time data for user sessions, Java memory usage, JDBJ connection cache, EnterpriseOne kernel specific metrics, and prepared statement configurations.

Examples include:

- Service level management

- History and trending (usage, server metrics, uptime)
- Enhanced graphics and dashboards for administrators
- Reporting capabilities
- Single view of an organization's complete system topology, including JD Edwards EnterpriseOne, database, operating systems, non-JD Edwards EnterpriseOne applications
- Enhanced alerts for CPU and memory usage on a JD Edwards EnterpriseOne server, database usage, and overall application server usage
- JD Edwards EnterpriseOne Kernel Specific Metrics

1.2 Additional Information

The JDE AppPack runs within the framework of Oracle Enterprise Manager Cloud Control. Therefore, as you install and use the features of Cloud Control, you may require additional information outside of what is provided in this guide.

1.2.1 Oracle Enterprise Manager Cloud Control

Oracle Enterprise Manager Cloud Control is Oracle's single, integrated solution for managing all aspects of the Oracle Grid and the applications running on it. Cloud Control also allows you to manage single instances of Oracle Database, Application Server, or Collaboration Suite using standalone consoles. For documents related to Enterprise Manager Cloud Control Patch Sets, such as Patch Set Notes and Bug List, refer to **My Oracle Support**.

The complete suite of Cloud Control guides is available at this link:

http://docs.oracle.com/cd/E63000_01/index.htm

1.2.2 JD Edwards EnterpriseOne Tools Server Manager Guide

Server Manager for JD Edwards EnterpriseOne is a web based application used to manage the complete lifecycle of the JD Edwards EnterpriseOne server products, specifically including the installation, configuration, and management of JD Edwards server products.

To access the Server Manager Guide for Tools Release 9.2, refer to the Install library at this link on the Oracle Technology Network:

http://docs.oracle.com/cd/E61420_01/index.htm

1.3 Certifications

Customers must conform to the supported platforms for the release as detailed in the JD Edwards EnterpriseOne Minimum Technical Requirements. In addition, JD Edwards EnterpriseOne may integrate, interface, or work in conjunction with other Oracle products. Refer to the following link for cross-reference material in the Program Documentation for Program prerequisites and version cross-reference documents to assure compatibility of various Oracle products.

http://www.oracle.com/corporate/contracts/index.html

The JD Edwards Application Management Pack and Agent are supported on the same platforms where Oracle Enterprise Manager 13c is released and supported. Refer to certification information in the Oracle Enterprise Manager 13c Cloud Control

Certification Checker on **My Oracle Support**. Patch sets are available on **My Oracle Support** or Oracle Technology Network.

For additional information on using Certifications, refer to this document on My Oracle Support: https://support.oracle.com

- **Certifications FAQ for JD Edwards EnterpriseOne [Article ID 1525328.1]**

1.4 JDE AppPack Installer Versions

Releases and versioning of the installer for the JDE AppPack are scheduled to closely follow the releases and versions of Cloud Control; however, the releases of cumulative patches will occur with each update release of JD Edwards EnterpriseOne. A full installer is provided for each version of the JDE AppPack.

When you install the full JDE AppPack, or upgrade it with a cumulative patch, you must ensure that your JD Edwards EnterpriseOne Server Manager is at the *same* release level as the JDE AppPack.

1.5 Obtaining Oracle Software Components from the Oracle Software Delivery Cloud

All Oracle software components are downloaded from the Oracle Software Delivery Cloud at this link:

https://edelivery.oracle.com

1.6 Compatible JDE AppPack and Cloud Control Versions

The JDE AppPack for Oracle Enterprise Manager Cloud Control 13c depends on and coincides with JD Edwards EnterpriseOne 8.98.4 or greater of Server Manager. The JDE AppPack is scheduled to be versioned with new versions of Cloud Control.

1.7 Server Manager for JD Edwards EnterpriseOne Overview

Server Manager for JD Edwards EnterpriseOne is a web based application used to manage the complete lifecycle of the JD Edwards EnterpriseOne server products. The JDE AppPack leverages the existing JD Edwards Server Manager functionality. Server Manager is required for all JD Edwards EnterpriseOne installations running Tools Release 8.97 and later.

For the JD Edwards domain, only the combination of Server Manager 8.98.4 or greater and Tools Release 8.98.4 or greater is fully certified to support the JDE AppPack. Although not certified, it is expected that the JDE AppPack (running Server Manager and Tools Release 8.98.4 or greater) will also be functional with downstream targets running JD Edwards EnterpriseOne Tools Release 8.97. However, due to changes in configuration settings and some internal structures between releases, there may be some functionality that is not common or supported across targets running JD Edwards Tools Releases 8.97, 8.98, 9.1, and 9.2.

Tip: Server Manager must be used for daily administration of the JD Edwards EnterpriseOne servers. This is especially true in the area of runtime and configuration settings because Server Manager natively presents these settings in a different (user-friendly) manner than what can be displayed by the JDE AppPack. That is, although the native settings are translated into user-friendly settings by Server Manager, they are passed to Cloud Control un-translated.

1.8 Features at a Glance

The JDE AppPack:

- Discovers and registers JD Edwards EnterpriseOne targets.
- Monitors metrics for JD Edwards EnterpriseOne targets.
- Displays configuration data in a graphical user interface that is driven by metadata.
- Creates a JD Edwards EnterpriseOne system in Cloud Control that enables you to see how all the targets in the system are related to the JD Edwards EnterpriseOne application database.
- Allows the user to create a graphical topology that displays the relationships between targets and allows you to execute selected actions on targets from this view.
- Allows the user to create a *service* that simulates a transaction, such as login and logout, to monitor the availability of an application. Using the Cloud Control Service Level Monitoring feature, you can also check the availability of a system or a feature of an application.

1.9 Features of Server Manager That Are Not Supported by Cloud Control

Below is a listing of a subset of Server Manager functionality that is beyond the scope of standard functionality supported by Enterprise Manager Cloud Control. That is, while this information is captured and displayed within Server Manager, there might be an equivalent capture and display from within Cloud Control depending on the targets types available to your grid installation.

1.9.1 jdelog.properties Logging

The display of logging for jdelog.properties is not supported in Cloud Control for any JD Edwards EnterpriseOne server.

1.9.2 Java Environment

The display of Java Environment properties is not supported in Cloud Control for these JD Edwards EnterpriseOne servers:

- HTML Server
- DAS Server

Note: Although not available in the base installations of Cloud Control, this feature could be exposed depending on what Management Packs or Plug-ins are installed in Cloud Control. For example, the Diagnostics Pack for Oracle Middleware and the Diagnostic Pack for Oracle Database. Also various Host Server Packs and Plug-ins are available depending on host type.

1.9.3 Kernel Ranges

The display of Kernel Ranges is not supported in Cloud Control for this JD Edwards EnterpriseOne server:

- Enterprise Server

1.9.4 Disk Space Usage

The display of Disk Space Usage is not supported in Cloud Control for this JD Edwards EnterpriseOne server:

- Enterprise Server

Note: Although not available in the base installations of Cloud Control, this feature could be exposed depending on what Management Packs or Plug-ins are installed in Cloud Control. For example, the Diagnostics Pack for Oracle Middleware and the Diagnostic Pack for Oracle Database. Also various Host Server Packs and Plug-ins are available depending on host type.

1.10 Limitations

This section discusses these topics:

- Section 1.10.1, "Cloud Control Web App Services"

1.10.1 Cloud Control Web App Services

In order to provide complete functionality, Cloud Control assumes a Management Agent is installed on each target. The function of the agent enables a wide range of Cloud Control-defined services and functionality to run within the Cloud Control framework. However, for the JDE AppPack, since the Management Agent is not required to be installed on each JD Edwards EnterpriseOne target, only a subset of Cloud Control Services is supported. That subset is confined to the Web App Services of Cloud Control.

1.11 Network Performance Considerations

If your network uses DHCP servers to manage network IP addresses, and your Cloud Control and Server Manager machines are not on the same local subnet, for performance reasons you may want to consider adding explicit IP addresses into the IP address mapping is available in the DNS database, the Hosts or Lmhosts file, or the WINS database. You may need to reboot any machine on which you modify an IP address file.

1.12 Glossary of Terms

This section describes common terms used in this guide.

1.12.1 Administrator Account

Administrator accounts provide users permission to perform administrative tasks and access administrative information. You can set up each administrator account to have its own roles, privileges, and notification rules. There are two types of administrator accounts: Super Administrator and Administrator.

1.12.2 Alerts

Indicates a potential problem; either a warning or critical threshold for a monitored metric has been crossed. An alert can also be generated for various target availability states. Cloud Control provides various options to respond to alerts. Administrators can be automatically notified when an alert triggers and can set up corrective actions to resolve an alert condition automatically.

1.12.3 Beacon

A special target installed on an agent that runs a defined service test and reports the results to the Oracle Management Service to determine the status and performance of a service.

1.12.4 Corrective Actions

Corrective actions allow you to specify automated responses to alerts and policy violations.

1.12.5 Dashboard

Presents information using intuitive icons and graphics that let you spot recent changes and quickly identify and respond to problems.

1.12.6 Discovery Process

The discovery process identifies and registers targets in Cloud Control so that they can be monitored and managed from the Cloud Control console. Targets are discovered one host at a time.

1.12.7 Enterprise Manager Cloud Control 13c

The Oracle Enterprise Manager Cloud Control 13c is a web-based user interface for centrally managing your entire computing environment. From the Cloud Control, you can monitor and administer your entire computing environment from one location on the network. All the services within your enterprise, including hosts, databases, listeners, application servers, HTTP Servers, and Web applications, are easily managed as one cohesive unit.

1.12.8 Management Agent

The Management Agent is responsible for monitoring all targets on the host, for communicating that information to the middle-tier Management Service, and for managing and maintaining the host and its targets.

1.12.9 JD Edwards EnterpriseOne System

A group of targets that are associated with one JD Edwards EnterpriseOne domain.

1.12.10 JD Edwards EnterpriseOne Global Unique Identifier (GUID)

A unique identifier that ties each target together and defines it as a system. The GUID is generated and resides at the database layer. During the discovery process, the application server connects to the JD Edwards EnterpriseOne application database and retrieves the GUID.

1.12.11 Managed Targets

Management Agents monitor and perform administrative functions on managed targets in your enterprise. Targets include but are not limited to Databases, Application Servers, Listeners, and Third-party Applications.

1.12.12 Management Repository

This is an Oracle database that contains all the available information about administrators, targets, and applications managed within Cloud Control. Captured data is uploaded to the repository through the Oracle Management Service. The Repository organizes the data and makes it available for data retrieval-allowing the data to be shared between any administrators accessing the Cloud Control console.

1.12.13 Oracle Management Agent (OMA)

A process deployed as binaries on each of the monitored hosts. It is responsible for monitoring all targets in the host, communicating the information to the middle-tier management service, and managing and maintaining the host and its targets.

The Oracle Management Agent on a host collects host configuration information for the host and database configuration information for the Oracle Databases on the host and client configuration information and communicates that information over HTTPS to the Oracle Management Service, which stores it in the Oracle Management Repository.

1.12.14 Oracle Management Service (OMS)

A web application (J2EE-compliant) that renders the user interface for the Oracle Enterprise Manager Cloud Control console. It works with all JDE AppPack Agents to process monitoring and job information, and uses the Management Repository as its data store. The Oracle Management Service resides in the layer above an Oracle WebLogic Server. Therefore, when the Oracle Management Service is installed, it also installs the application server.

1.12.15 Policies

Define the desired behavior or characteristics of systems. By using pre-configured or custom policies, automated assessments of systems and applications are performed. Through alerts, you are notified of any deviations, such as inappropriate settings or incorrect system configurations.

1.12.16 Preferred Credentials

Simplify access to managed targets by storing target login credentials in the Management Repository. With preferred credentials set, users can access a target that recognizes those credentials without being prompted to log in to the target's host machine. Preferred credentials are set on a per user per target basis, thus ensuring the security of the environment.

1.12.17 Roles

Enable you to group Cloud Control system and target privileges, and grant these to administrators or to other roles. Privileges give the administrator rights to perform management actions within Cloud Control. Creating roles is an easy way to grant a predefined set of privileges to a group of administrators. If you change a role, the changes are automatically propagated to all administrators who are assigned that role.

1.12.18 Service

An entity that models a business process or application. Examples of services are CRM applications, online banking, and email services. You can define services by creating one or more service tests that simulate common end-user functions. Using these service tests, you can measure the performance and availability of critical business functions, receive alerts when there is a problem, identify common issues, and diagnose causes of failures.

1.12.19 System

A set of targets (hosts, databases, application servers, and so on) that function together to host one or more applications or services.

1.12.20 Super Administrator Account

Can manage all other administrator accounts and set up all administrator credentials. In addition, the super administrator can:

- Create privileges and roles
- Perform the initial setup of Cloud Control
- Add targets to Cloud Control
- Perform actions on targets in the system

Note: Cloud Control is installed with a default super administrator account named SYSMAN. You use the SYSMAN account for the initial login to Cloud Control. Then, create new super administrator accounts as needed in your system.

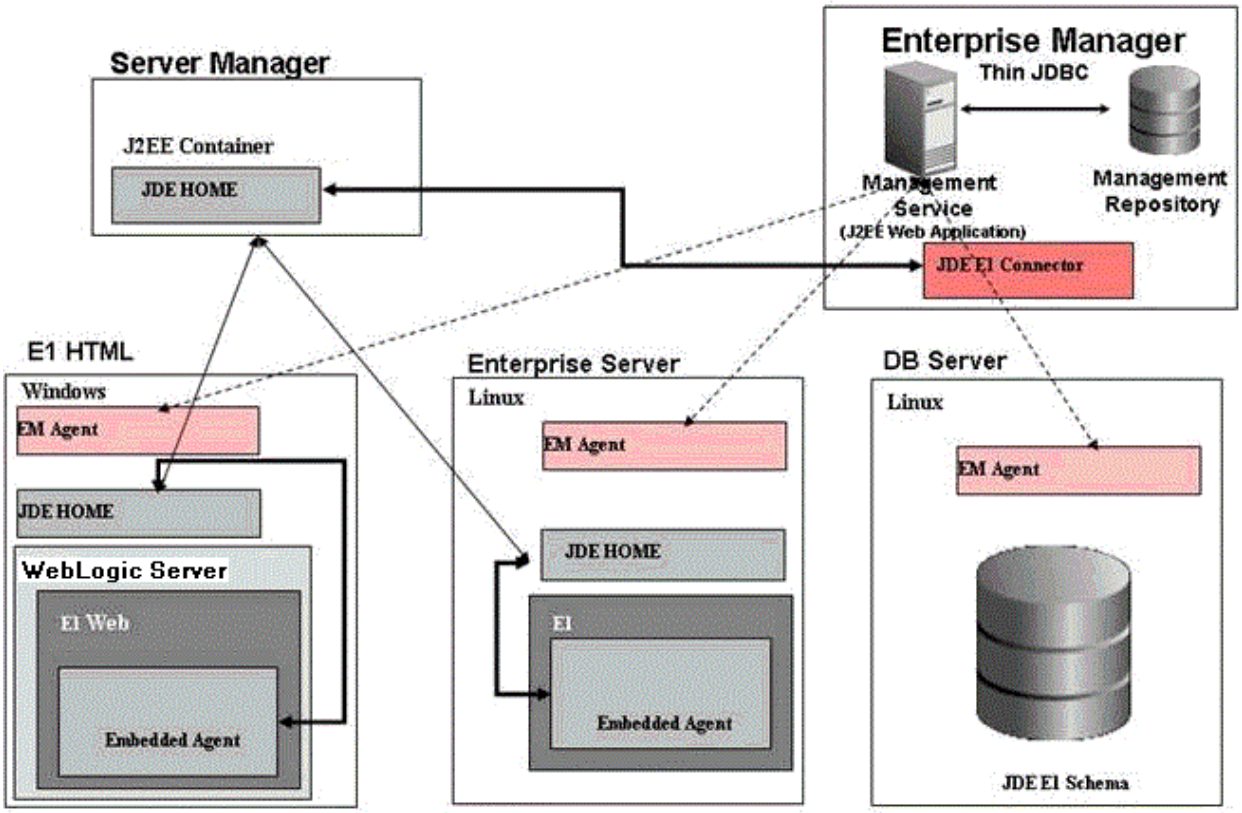
1.12.21 Topology Viewer

Enables you to view the relationships between targets within the context of a system. You can perform some management actions from this view.

1.13 Deployment Architecture

This architectural diagram shows a conceptual view of the deployment architecture for the various operational components required to integrate existing JD Edwards EnterpriseOne functionality of Server Manager with Cloud Control:

Figure 1–1 Deployment Architecture Example



2

Install the Database and Enterprise Manager

This chapter provides information on installing Oracle Database and Enterprise Manager. For existing installations, refer to the Caution below. After you have reviewed the Caution, existing installations of Enterprise Manager can proceed to Chapter 4, "Import the JD Edwards Application Pack OPAR".

An Oracle database must be installed that is configured expressly for use by Enterprise Manager (see Caution below). Oracle strongly recommends that you use the OEM Oracle database installation software instructions under the direction of an Oracle DBA.

> **Caution:** Both new and existing installation of the Oracle database must perform the procedures in the section of this chapter entitled: Section 2.2, "Post Installation Required for Database Configuration".

This chapter contains the following topics:

- Section 2.1, "Running the Oracle Database Installer"
- Section 2.2, "Post Installation Required for Database Configuration"
- Section 2.3, "Install Enterprise Manager Cloud Control"

2.1 Running the Oracle Database Installer

> **Note:** This procedure assumes you have obtained the software component for the Oracle database as described in the chapter of this guide entitled: Section 1.5, "Obtaining Oracle Software Components from the Oracle Software Delivery Cloud".

To read more about installing Oracle Database 12c, see
`https://docs.oracle.com/database/121/nav/portal_11.htm`

2.2 Post Installation Required for Database Configuration

After you install a new Oracle database for exclusive use by Cloud Control 13c, the Cloud Control documentation recommends you configure your database using the following procedure.

1. Per requirements for Cloud Control, you must change the Oracle database init parameters.

Connected to the Oracle database as **sys** user, use this command sequence:

```
alter system set session_cached_cursors=500 scope=spfile;
alter system set remote_login_passwordfile=SHARED scope=spfile;
alter system set aq_tm_processes=1 scope=spfile;
alter system set processes=500 scope=spfile;
alter system set log_buffer=10485760 scope=spfile;
alter system set db_securefile=PERMITTED scope=both;
alter system set shared_pool_size=400M scope=spfile;
shutdown immediate
startup
```

2.3 Install Enterprise Manager Cloud Control

To read more about installing Oracle Enterprise Manager Cloud Control 13c, see http://docs.oracle.com/cd/E63000_01/index.htm

---

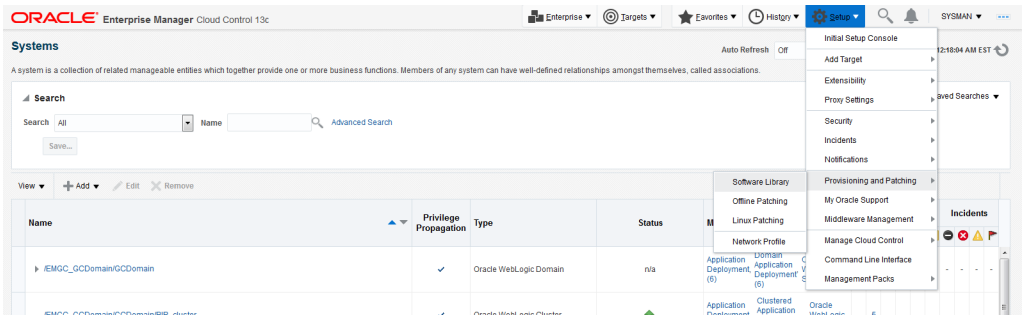
Note: If the installation fails for some reason, review the log files listed in *Oracle Enterprise Manager Cloud Control Advanced Installation and Configuration Guide*.

3

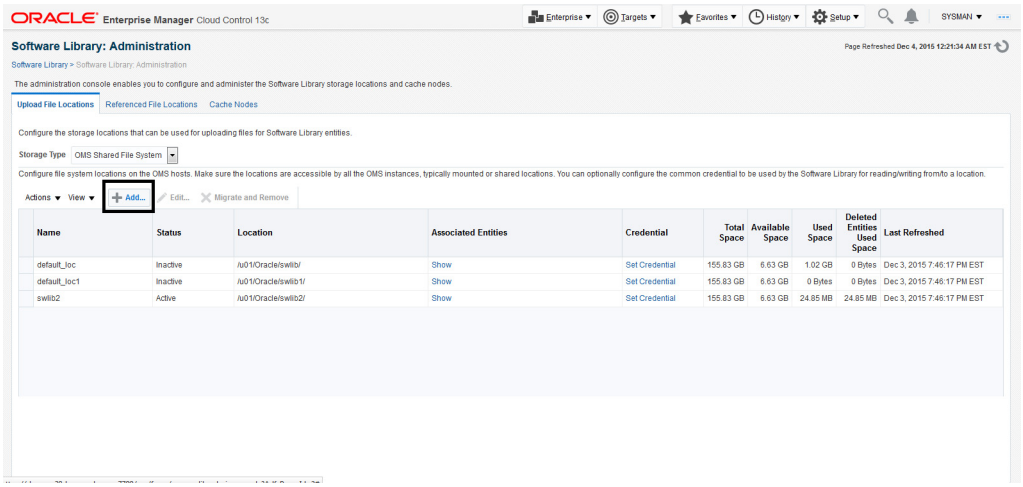
Set Up the Software Library within Cloud Control

This section describes the procedure to set up the software library into Oracle Enterprise Manager Cloud Control. This step is required before you can import the JD Edwards EnterpriseOne Application Pack, which is described in the next chapter of this guide: Chapter 4, "Import the JD Edwards Application Pack OPAR".

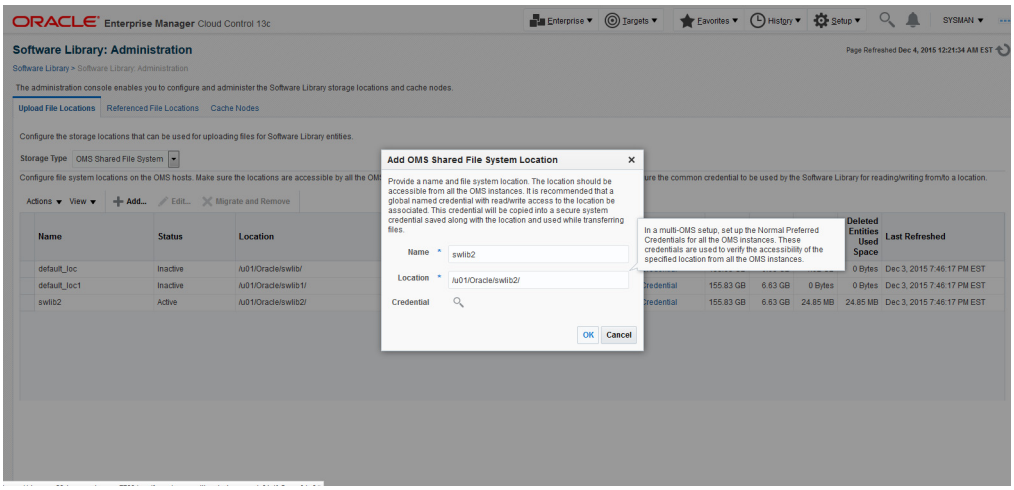
To set up the Software Library within Cloud Control:



1. From the Cloud Control Home Page, navigate to Setup > Provisioning and Patching > Software Library.



2. On Software Library: Administration, click the **Add** button.



3. On the Add OMS Shared Filesystem Location, complete these fields:

   - *Name*

     Provide a name for the Software Library. For example:

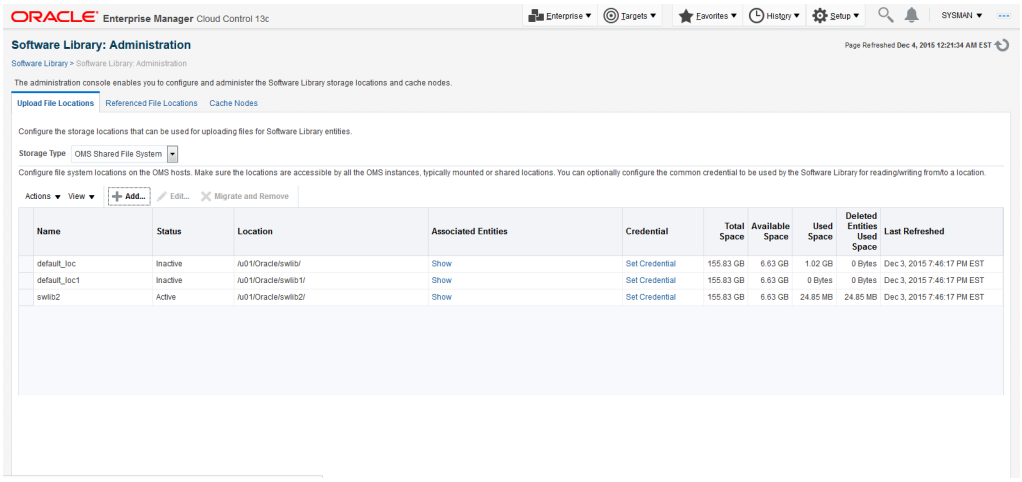
     swlib2

   - *Location*

     Provide a file system location. The location should be accessible from all Oracle Management Service (OMS) instances. For example:

     `/u01/Oracle/swlib2/`

4. Click the OK button and wait for the processing to complete. When complete, the new software library is displayed with Status Active as shown in the following example.



4

Import the JD Edwards Application Pack OPAR

This section describes the procedure to set up the software library and then import and deploy the JD Edwards Application OPAR into Oracle Enterprise Manager Cloud Control and to the Management Agent.

> **Note:** This procedure assumes you have obtained the JD Edwards Application Pack OPAR for Oracle Enterprise Manager Cloud Control as described in the chapter of this guide: Section 1.5, "Obtaining Oracle Software Components from the Oracle Software Delivery Cloud".
>
> This procedure also assumes you have already set up the Software Library as described in the preceding chapter of this guide: Chapter 3, "Set Up the Software Library within Cloud Control".

To import the JD Edwards Application Pack OPAR, use the following sequence of line commands:

1. Change to the `oms/bin` directory of your Cloud Control installation. For example:

   ```
   cd /u01/app/emgc13/oms/bin/
   ```

2. Enter this command to set up the import of the JD Edwards EnterpriseOne Application Pack into Cloud Control:

   ```
   ./emcli setup -url=https://denlx01:7799/em -username=sysman -password=Oracle123
   -trustall
   ```

3. Verify the console display indicates the command was successful as shown in this example:

   ```
   Oracle Enterprise Manager Cloud Control 13c Release 1 (13.1.0.0.0.)
   Copyright (c) 1996, 2015 Oracle Corporation and/or its affiliates. All rights
   reserved.

   Emcli setup successful
   ```

4. Run this command to perform the import of the JD Edwards EnterpriseOne Application Pack OPAR into Cloud Control:

   ```
   ./emcli import_update -file=/u01/app/AddOnDevKitWork/jde_plugin/plugin_
   opar/13.1.1.1.0_oracle.apps.jded_2000_0.opar -omslocal
   ```

5. Verify the console display indicates the command was successful as shown in this example:

```
Processing update: Plug-in - Oracle Jdedwards EnterpriseOne Plugin consists of
monitoring and management for Oracle Jdedwards EnterpriseOne system.
Operation completed successfully. Update has been uploaded to Enterprise
Manager. Please use the Self Update Home to manage this update.
```

At this point the import of the JD Edwards EnterpriseOne Application Pack OPAR into Cloud Control is complete.

5

Deploying the JDE App Pack into the Management Server

This chapter contains the following topics:

- Section 5.1, "Prerequisites to Deploying the JDE AppPack into the Management Server"
- Section 5.2, "Deploy the JDE AppPack into the Management Server"

See Also:

- Chapter 8, "Undeploy JDE AppPack Components"

5.1 Prerequisites to Deploying the JDE AppPack into the Management Server

You can install the JDE AppPack to the Enterprise Manager Management Server after you have installed:

- JD Edwards EnterpriseOne Server Manager 9.2

  Refer to *Section 1.7, "Server Manager for JD Edwards EnterpriseOne Overview"* in this guide.

- Oracle Database for Cloud Control Repository

  An Oracle database must be installed for exclusive use by Cloud Control. Refer to Chapter 2, "Install the Database and Enterprise Manager" in this guide.

- Oracle Enterprise Manager Cloud Control

  Refer to *Section 1.2.1, "Oracle Enterprise Manager Cloud Control"* and Chapter 2, "Install the Database and Enterprise Manager" in this guide.

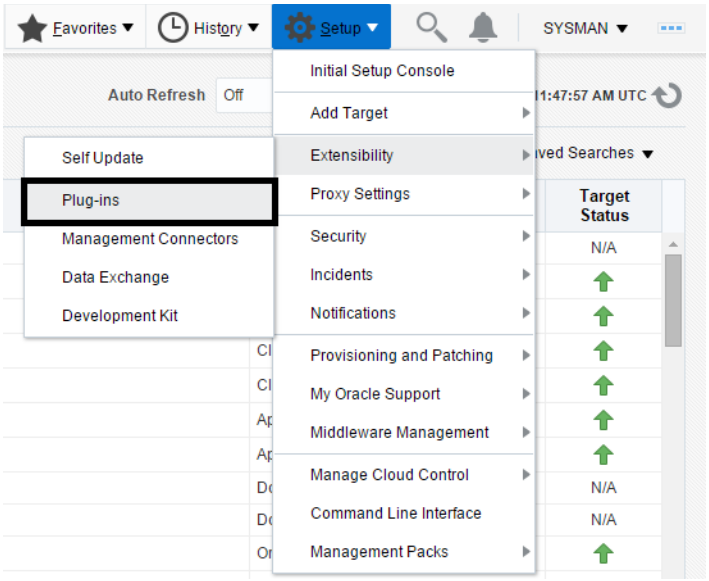
Additionally you must have already set up a Software Library as described in the chapter of this guide entitled: Chapter 3, "Set Up the Software Library within Cloud Control".

Further, you must have already imported the JDE AppPack as described in the chapter of this guide entitled: Chapter 4, "Import the JD Edwards Application Pack OPAR".

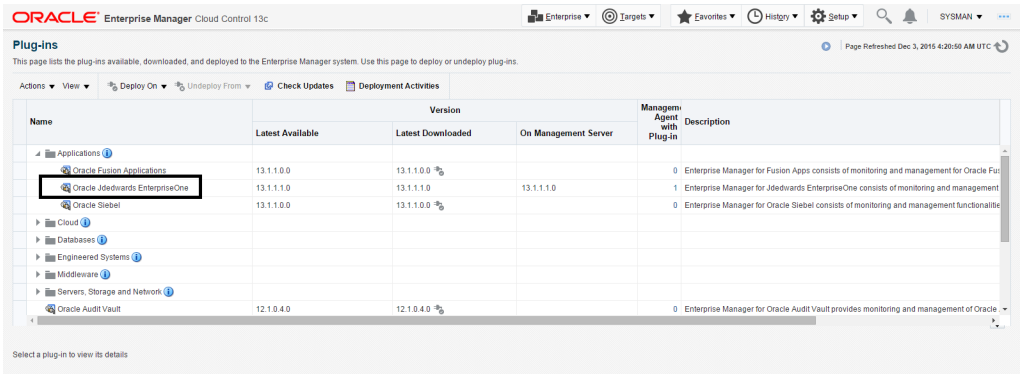
The JDE AppPack is deployed using Cloud Control. As a prerequisite, you must have an existing Cloud Control and Oracle database installation. The JDE AppPack must be deployed into each existing Cloud Control Management Server.

5.2 Deploy the JDE AppPack into the Management Server

Follow the steps in this section to deploy the JDE AppPack into the Management Server (also called OMS).



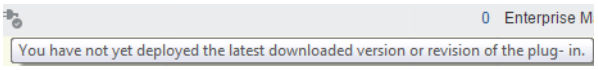
1. In Oracle Enterprise Manager Cloud Control, navigate to Setup, Extensibility, Plugins.



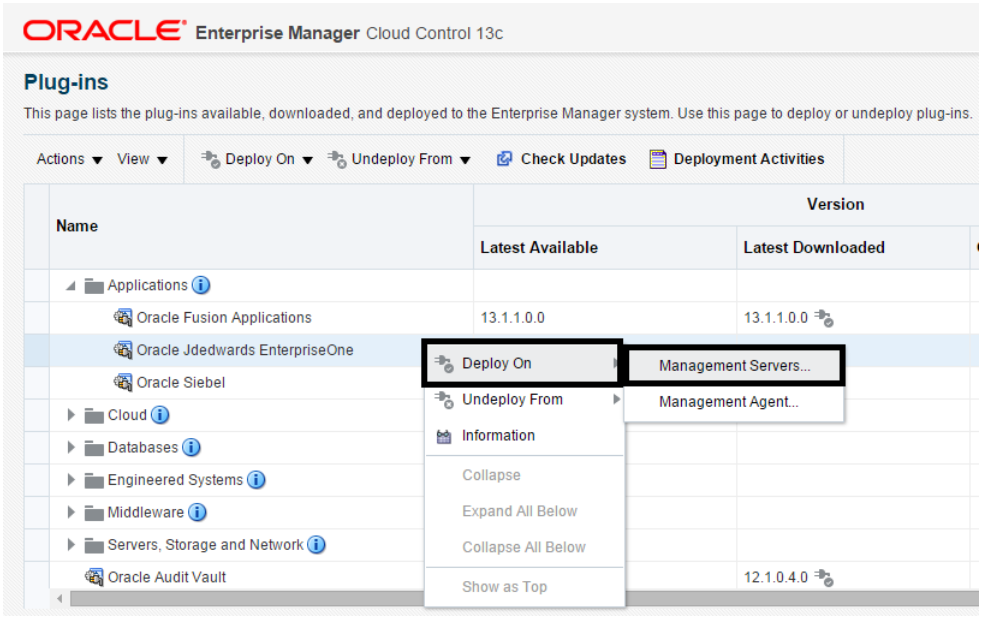
2. On the list of plugs, locate this item in the Name column:

   Oracle JD Edwards EnterpriseOne

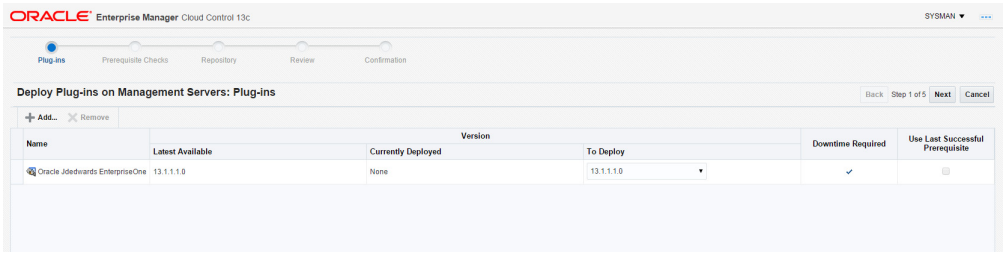
   Cloud Control displays an icon in the Downloaded column if an item has not been deployed. If the icon exists, its hover text displays this message:



   You can only deploy a plugin if the above icon is displayed.

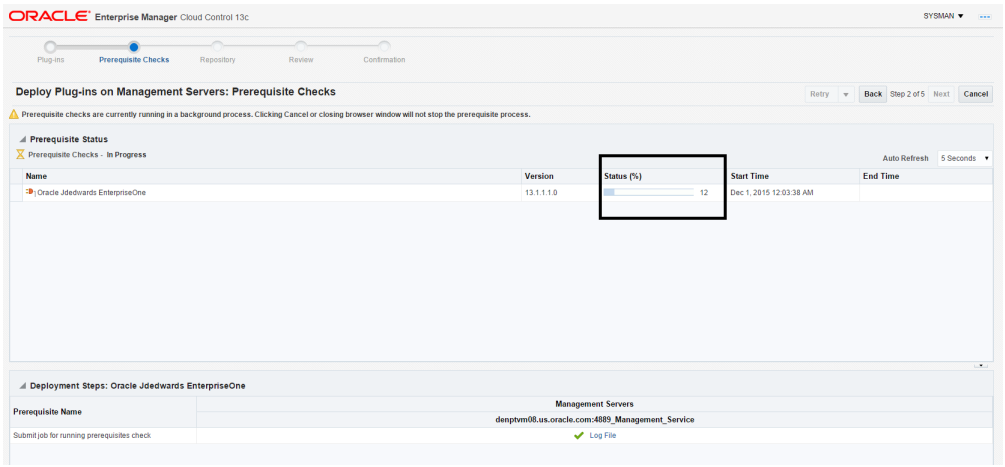


3. With the undeployed plugin highlighted, right click and select Deploy On, Management Servers...

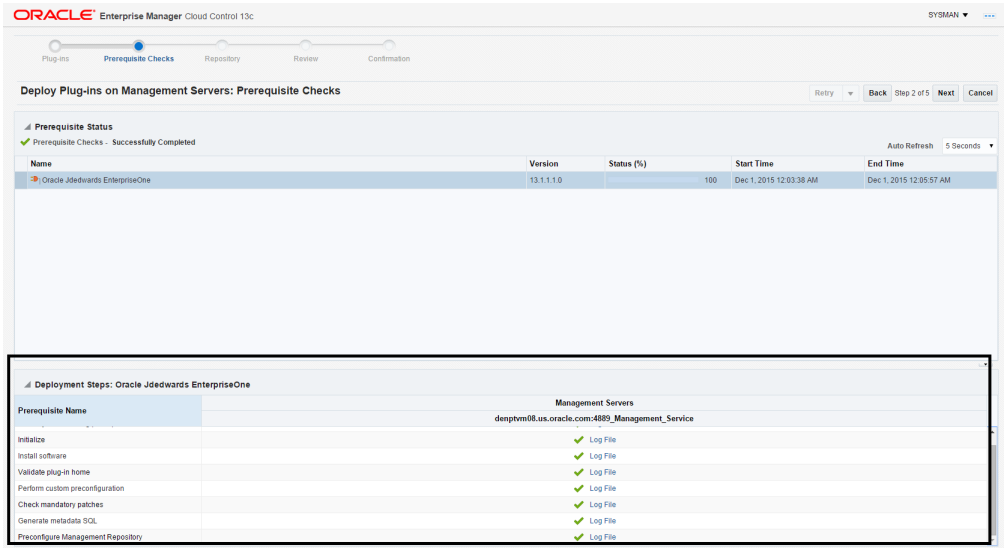


4. On the Deploy Plug-ins on Management Servers, Plug-ins form, complete the details.

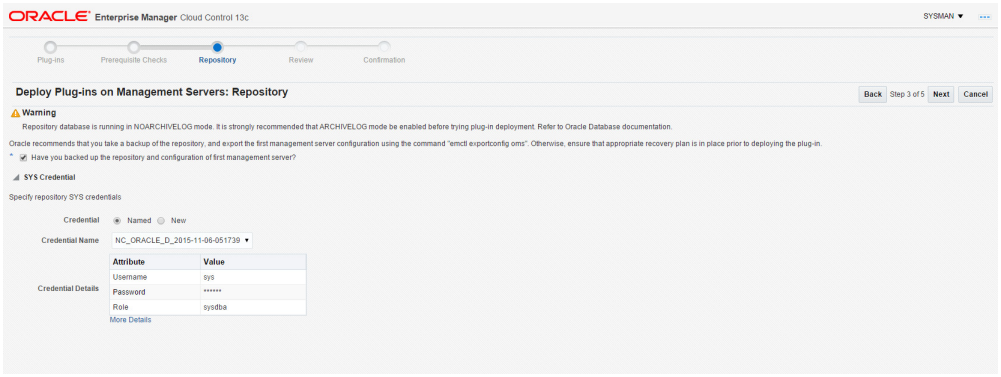
5. Click the Next button.



A progress panel is displayed indicating that the prerequisite checks are running.

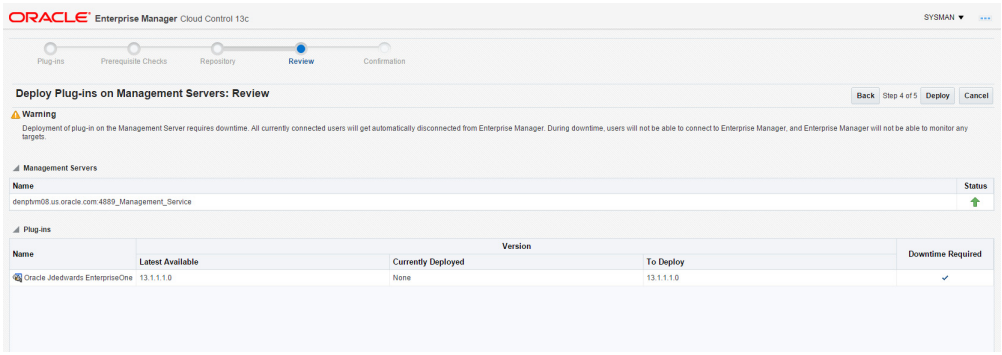


6. On Deploy Plug-in on Management Servers, Pre-requisite Checks form, verify that the checks completed successfully and click the Next button.



On Deploy Plug-in on Management Servers, Repository form, complete the required fields and click the Next button.

7. The system displays the Deploy Plug-ins on Management Servers: Review form.



On Deploy Plug-in on Management Servers: Review form, the panel warns that deployment of the plug-in on the Management Server will require downtime. All currently connected users will get disconnected from the Enterprise Manager. During the downtime period, users will not be able to connect to Enterprise Manager and Enterprise Manager will not monitor any targets.

Note: Oracle recommends that you backup the repository or ensure appropriate recovery plans are in place prior to deploying the plug-in.

8. Click the Deploy button.

9. On Deploy Plug-in on Management Servers: Confirmation form, click the Show Status button. This Confirmation screen indicates that the deployment is started.

   The EM interface shows the starting progress of the deployment.

   However, since OMS is shut down during the deployment process, after a certain time during deployment, you cannot use the EM user interface to verify if the deployment is complete and that the OMS is back up.

   To determine simple status and whether OMS is up or down, use this line command:

   ```
   ./emctl status oms
   ```

   To view the deployment details, you can append the `-details` flag using this line command:

   ```
   ./emctl status oms -details
   ```

   Note: Any time you issue the check status command with the `-details` flag, you are prompted to provide the SYS user password for the EM database as shown in the sample below.

```
[oracle@denovm40db1 bin]$ ./emctl status oms -details
Oracle Enterprise Manager Cloud Control 13c Release 1
Copyright (c) 1996, 2015 Oracle Corporation.  All rights reserved.
Enter Enterprise Manager Root (SYSMAN) Password :
```

   As the deployment progresses and you check status, a series of steps are performed. The step that indicates the deployment is complete is called Starting OMS, as shown in the sample below.

Step	Start Time	End Time	Status
Submit job for deployment	12/10/15 2:49:22 AM EST	12/10/15 2:49:22 AM EST	Success
Initialize	12/10/15 2:49:26 AM EST	12/10/15 2:49:32 AM EST	Success
Install software	12/10/15 2:49:32 AM EST	12/10/15 2:49:34 AM EST	Success
Validate plug-in home	12/10/15 2:49:35 AM EST	12/10/15 2:49:36 AM EST	Success
Perform custom preconfiguration	12/10/15 2:49:36 AM EST	12/10/15 2:49:36 AM EST	Success
Check mandatory patches	12/10/15 2:49:36 AM EST	12/10/15 2:49:36 AM EST	Success
Generate metadata SQL	12/10/15 2:49:36 AM EST	12/10/15 2:49:36 AM EST	Success
Preconfigure Management Repository	12/10/15 2:49:36 AM EST	12/10/15 2:49:36 AM EST	Success
Stop management server	12/10/15 2:49:36 AM EST	12/10/15 2:51:12 AM EST	Success
Configure Management Repository	12/10/15 2:51:12 AM EST	12/10/15 2:54:20 AM EST	Success
Configure middle tier	12/10/15 2:51:12 AM EST	12/10/15 2:54:09 AM EST	Success
OPSS jazn policy migration	12/10/15 2:54:09 AM EST	12/10/15 2:54:09 AM EST	Success
Register metadata	12/10/15 2:54:21 AM EST	12/10/15 2:54:34 AM EST	Success
Perform custom postconfiguration	12/10/15 2:54:34 AM EST	12/10/15 2:54:34 AM EST	Success
Update inventory	12/10/15 2:54:34 AM EST	12/10/15 2:54:35 AM EST	Success
Start management server	12/10/15 2:54:35 AM EST	N/A	Running

At this point OMS is being started. This means that deployment is complete and that the EM console should be available very soon, depending on how long the actual startup takes to complete.

6

Deploy the JDE AppPack into the Management Agent

This chapter contains the following topics:

- Section 6.1, "Prerequisites to Deploying the JDE AppPack into the Management Agent"
- Section 6.2, "Deploy the JDE AppPack into the Management Agent"

See Also:

- Chapter 8, "Undeploy JDE AppPack Components"

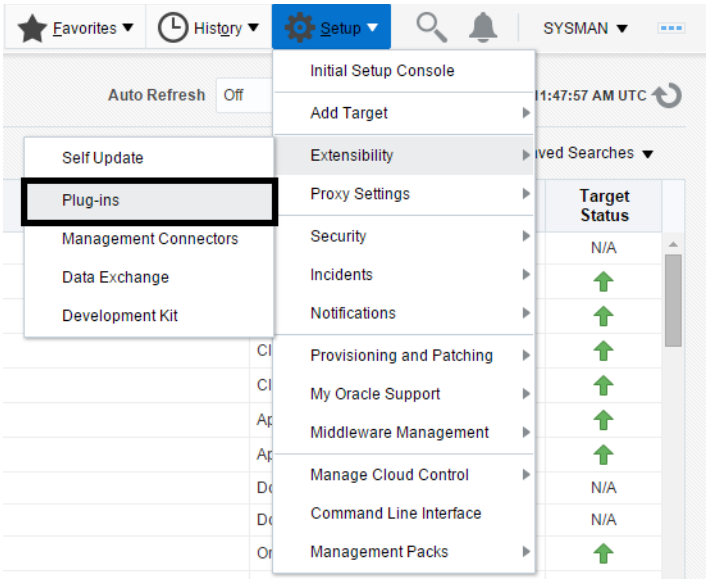
6.1 Prerequisites to Deploying the JDE AppPack into the Management Agent

You can deploy the JDE AppPack to the Enterprise Manager Management Agent after you have:

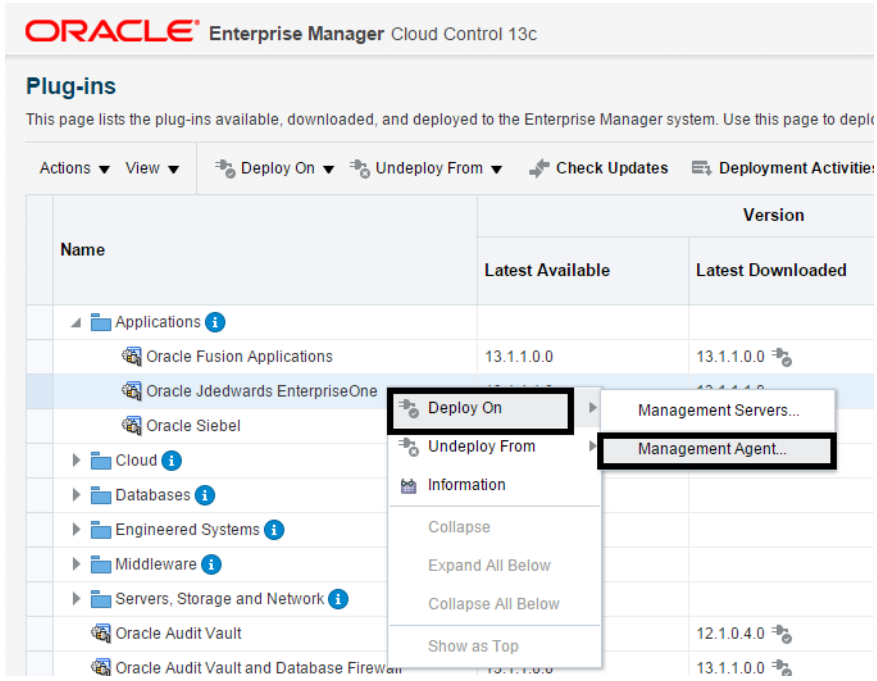
- Imported the JDE AppPack, as described in the preceding chapter of this guide: Chapter 4, "Import the JD Edwards Application Pack OPAR"
- Deployed the JDE AppPack into the Management Server (OMS) as described in the chapter of this guide: Chapter 5, "Deploying the JDE App Pack into the Management Server"

6.2 Deploy the JDE AppPack into the Management Agent

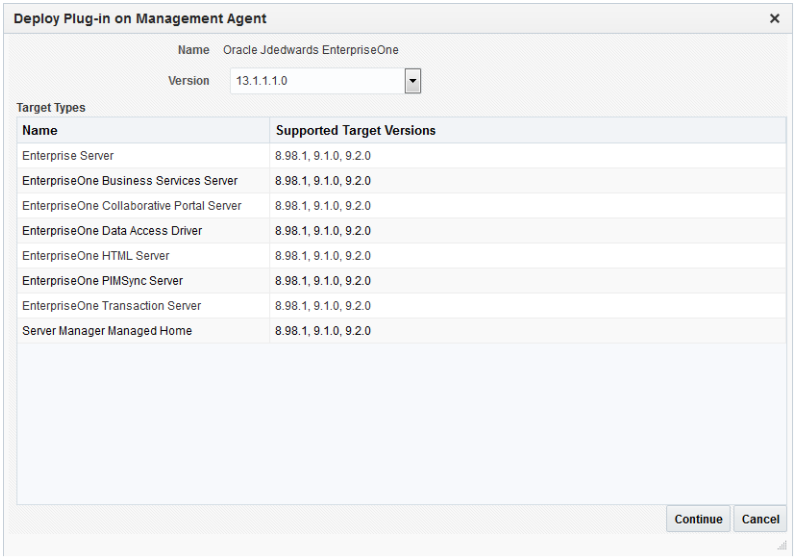
You should follow the steps in this section to deploy the JDE AppPack into the Management Agent.



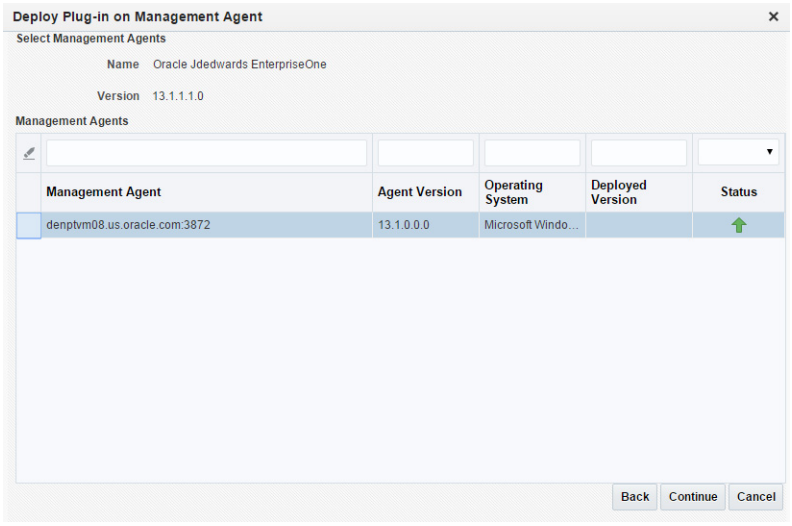
1. On the Oracle Enterprise Manager Cloud Control form, navigate to Setup, Extensibility, Plugins.



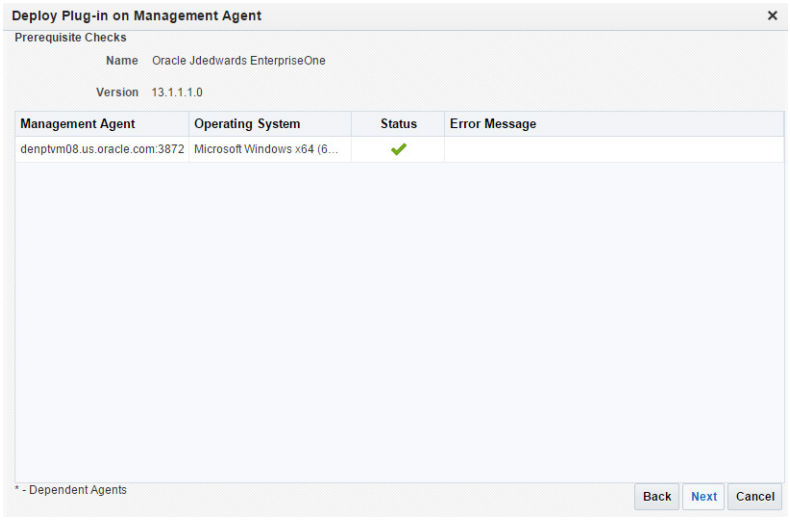
2. With the undeployed plugin highlighted, right click and choose Deploy On, Management Agent...



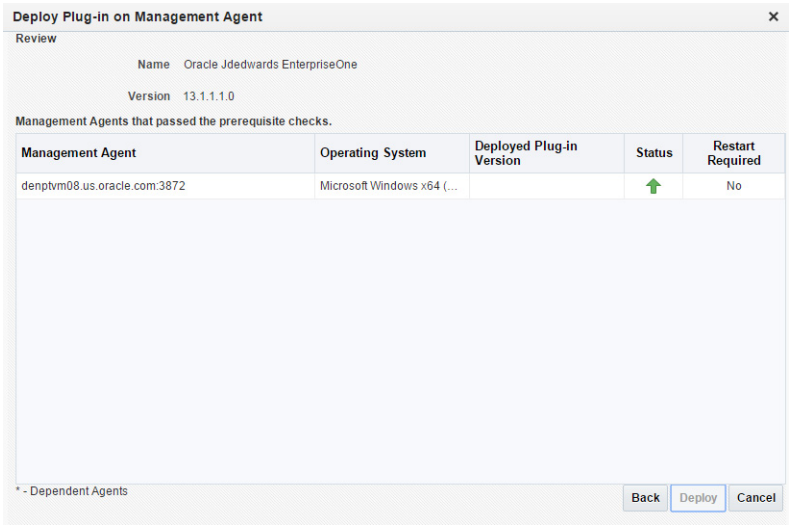
3. On the Deploy Plug-in on Management Agent form, select the desired target, and click Continue.



4. On the Deploy Plug-in on Management Agent, Select management Agent form, select the desired management agent and click Continue.

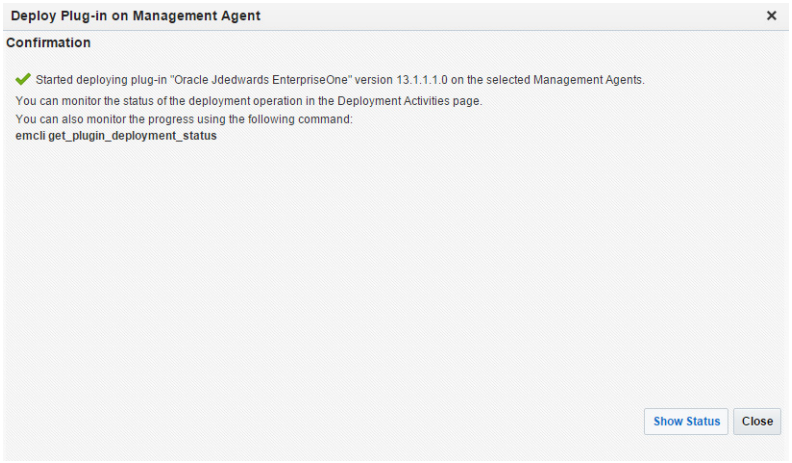


5. On the Deploy Plug-in on Management Agent, General form, verify that the JD Edwards EnterpriseOne target machine is added and click the Next button.

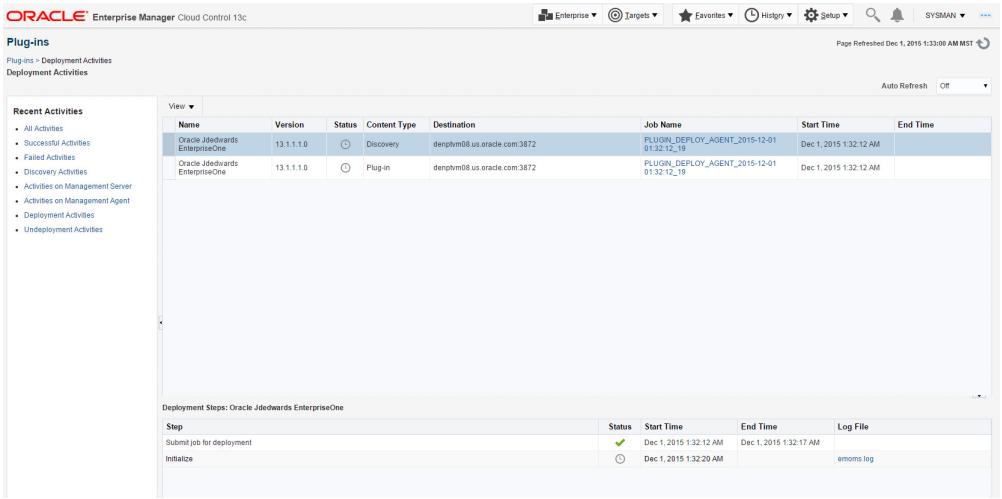


On the Deploy Plug-in on Management Agent, Review form, a warning is displayed indicating that the deployment of the plug-in on a managed host will restart the agent.

6. Click the Deploy button.



7. On the Deploy Plug-in on Management Servers, Confirmation form, click the Show Status button. This Confirmation screen indicates that the deployment is started on selected hosts.



The EM interface shows the progress of the deployment.

Once the status indicates the agent is being started, the deployment is complete, depending on how long the actual startup takes to complete.

7

Using Cloud Control with JD Edwards EnterpriseOne

This chapter contains the following topics:

- Section 7.1, "Additional Information for Cloud Control"
- Section 7.2, "Using Cloud Control for the First Time"
- Section 7.3, "Accessing the Cloud Control Console"
- Section 7.4, "Cloud Control Home Page"
- Section 7.5, "Targets"
- Section 7.6, "Adding the JD Edwards EnterpriseOne Domain"
- Section 7.7, "JDE EnterpriseOne Domain Home Page"
- Section 7.8, "Members of the JD Edwards EnterpriseOne Domain"
- Section 7.9, "Updating the JD Edwards EnterpriseOne Domain (Refresh Discovery)"
- Section 7.10, "Configuration Topology"
- Section 7.11, "System Monitoring Dashboard"
- Section 7.12, "Monitoring Configuration"
- Section 7.13, "Latest Configuration Data"
- Section 7.14, "Runtime Metrics (Status, User Count, and Performance)"
- Section 7.15, "Configuration Metrics for JD Edwards EnterpriseOne"
- Section 7.16, "Accessing Server Manager from Cloud Control"
- Section 7.17, "Removing the JD Edwards EnterpriseOne Domain"
- Section 7.18, "Starting and Stopping Components of Enterprise Manager Environments"

7.1 Additional Information for Cloud Control

For additional information, refer to these Cloud Control resources:

- *Enterprise Manager Documentation*

  `http://docs.oracle.com/cd/E63000_01/index.htm`

  The above Oracle web site includes HTML and PDF versions of these documents:

- Enterprise Manager Concepts
- Administrator's Guide
- Basic Installation Guide
- Advanced Installation and Configuration Guide
- Administrator's Guide for Software and Server Provisioning and Patching
- Oracle Enterprise Manager List of Books

7.2 Using Cloud Control for the First Time

The Cloud Control console provides support for creating and managing Cloud Control administrator accounts. The Cloud Control administrators you create and manage in the Cloud Control console are granted privileges and roles to log in to the Cloud Control console and to manage specific target types and to perform specific management tasks.

During installation, these tasks are performed automatically:

- A default Super Administrator SYSMAN account is created with the password you specify.
- The SYSMAN account is automatically configured to receive email notifications, if you provide the email notification settings during installation. Email notifications are set up with default Notification Rules for critical conditions.

After installation, you can immediately log in to the Cloud Control console with the SYSMAN username and your password to perform management tasks. The next step is to create a new Super Administrator account to monitor and manage the JD Edwards EnterpriseOne targets.

Note: The SYSMAN account owns the database schema containing the Management Repository and should *not* be used after the initial log in.

7.3 Accessing the Cloud Control Console

To access Cloud Control, use the syntax of one of these URLs:

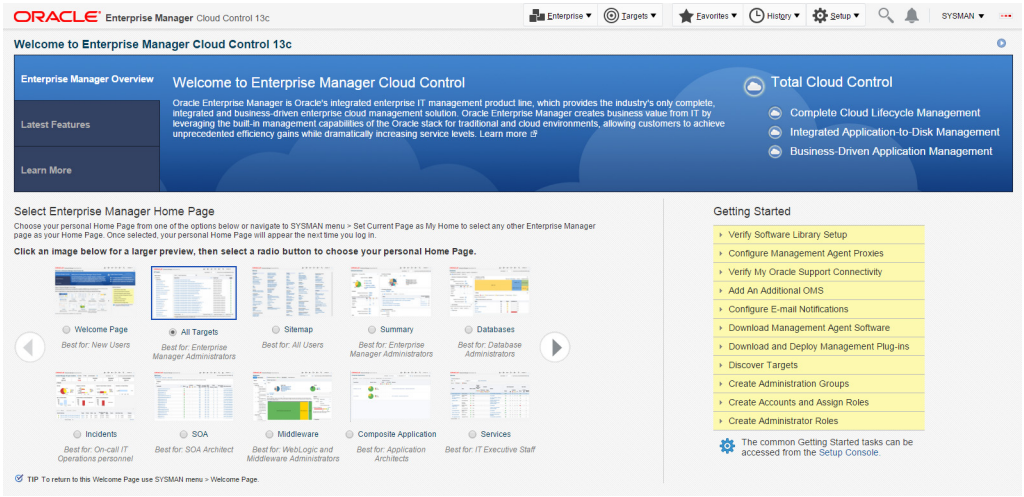
https://<Oracle Management Service_hostname>.<domain>:<port>/em

For example:

https://machine_host.company.com:7799/em

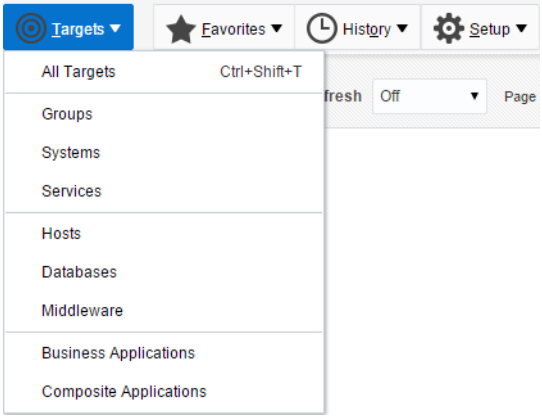
7.4 Cloud Control Home Page

On Select Enterprise Manager Home, you can choose a grid home page from the options shown on this screen. If these options do not match your job profile or role, use SYSMAN > Welcome Page and select one of the options displayed to make any other page in Enterprise Manager as your home page. Alternately, you can also use SYSMAN > Set Current Page as My Home to select any other Enterprise Manager page as your Home Page. For instructions on making the JD Edwards Domain your home page in Enterprise Manager, refer to the Tip in the section in this chapter entitled: Section 7.7, "JDE EnterpriseOne Domain Home Page".



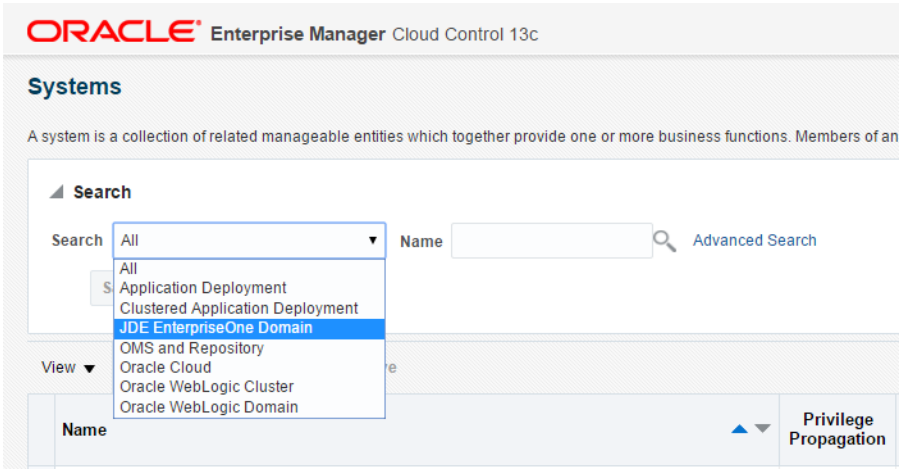
7.5 Targets

To view all existing Cloud Control targets, click the Targets dropdown menu. This control displays rows that further define targets by type, such as groups, systems, services, hosts, databases, middleware (application servers), and composite applications.

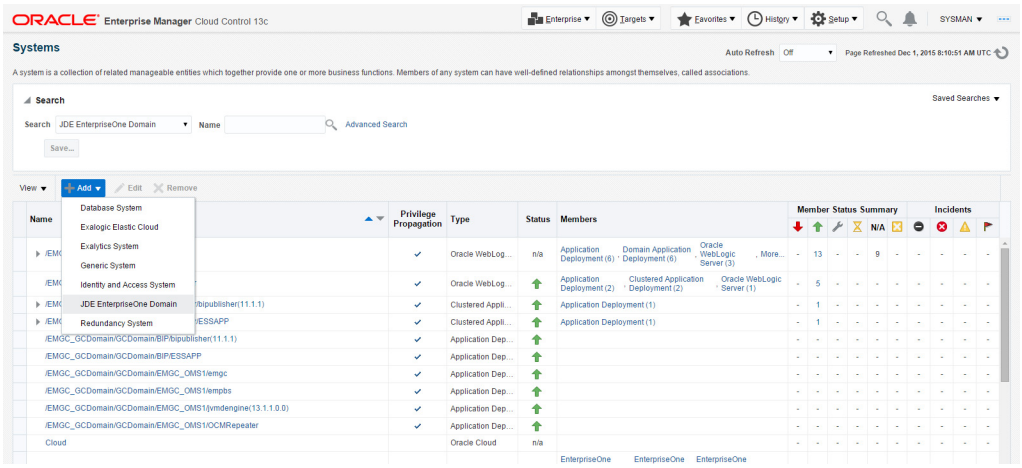


7.6 Adding the JD Edwards EnterpriseOne Domain

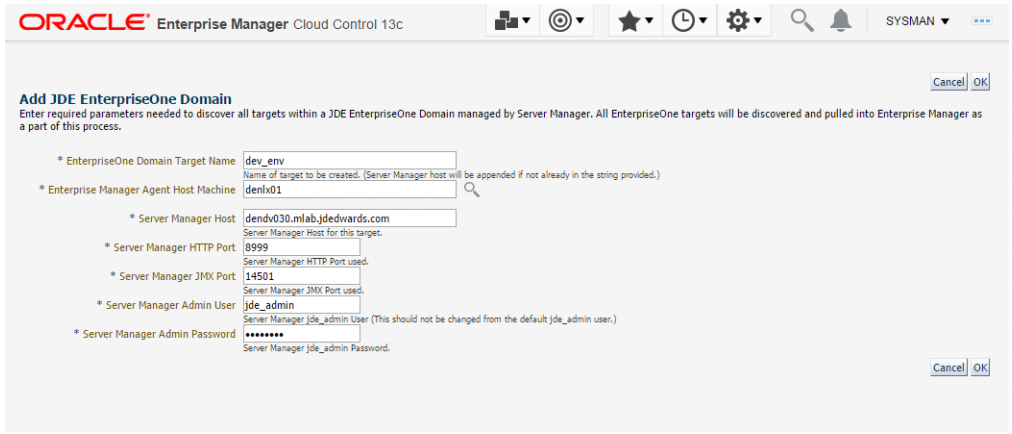
To add the JD Edwards EnterpriseOne domain to Cloud Control:



1. Navigate to Targets, Systems, and use the Search dropdown menu to select JDE EnterpriseOne Domain.



2. On the Systems form, with the JDE EnterpriseOne Domain selected, select JDE EnterpriseOne Domain from the Add dropdown menu.



3. On the Add JDE EnterpriseOne Domain form, complete these fields:
   - *EnterpriseOne Domain Target Name*

Enter the name of the domain for JD Edwards EnterpriseOne. The name of the Server Manager host will be appended to this name if you do not specify it.

For example, enter **dev_env**.

- *Enterprise Manager Agent Host Machine*

  Enter the machine name on which the Enterprise Manager agent is installed. For example, enter **denlx01**.

  Note: It is recommended that you type the machine name in the field instead of using the search button to locate the machine name.

- *Server Manager Host*

  Enter the fully qualified machine name of your Server Manager host. For example, enter **denv030.mlab.jdedwards.com**.

- *Server Manager HTTP Port*

  Enter the HTTP port that will be used to connect to Server Manager. The default value is **8999**.

- *Server Manager JMX Port*

  Enter the JMX port that will be used to connect to Server Manager. The default value is **14501**.

- *Server Manager Admin User*

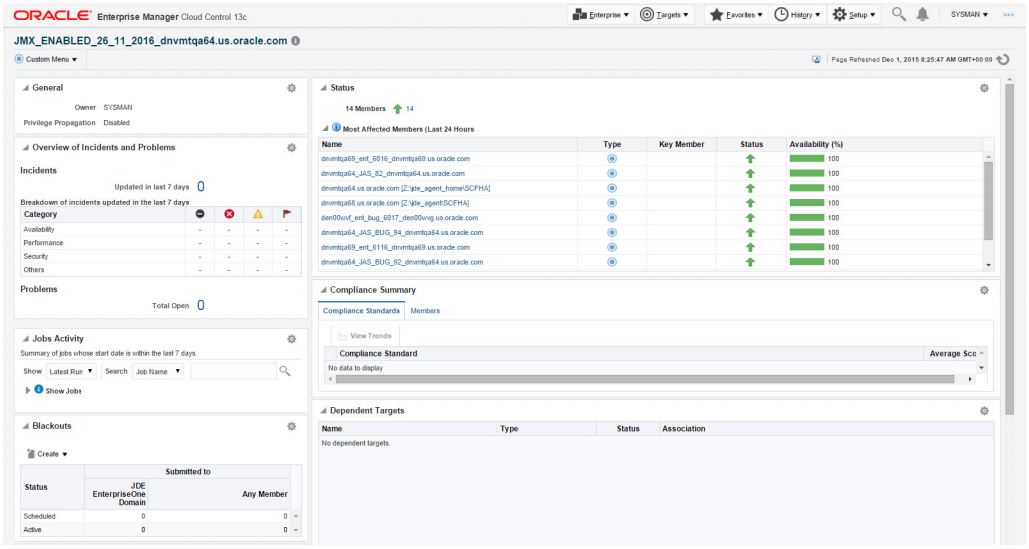
  The default value, which should not be changed, is **jde_admin**.

- *Server Manager Admin Password*

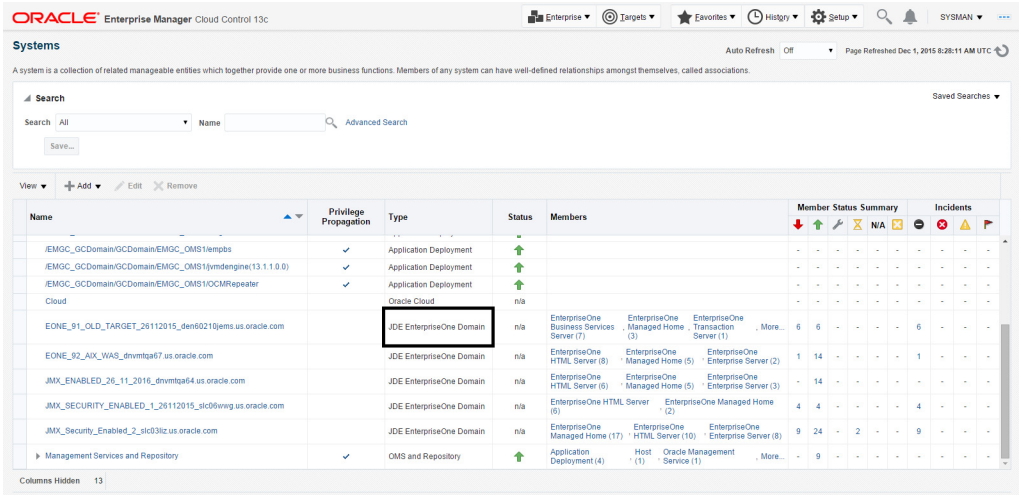
  Enter a valid value for the password of your Server Manager administrator.

4. Click the OK button to add the domain.
5. As Cloud Control adds the JD Edwards Domain and associated targets, it performs the following functions:
   - Discovering: JD Edwards EnterpriseOne Domain
   - Creating: JD Edwards EnterpriseOne Domain target
   - Saving: JD Edwards EnterpriseOne Domain targets discovered

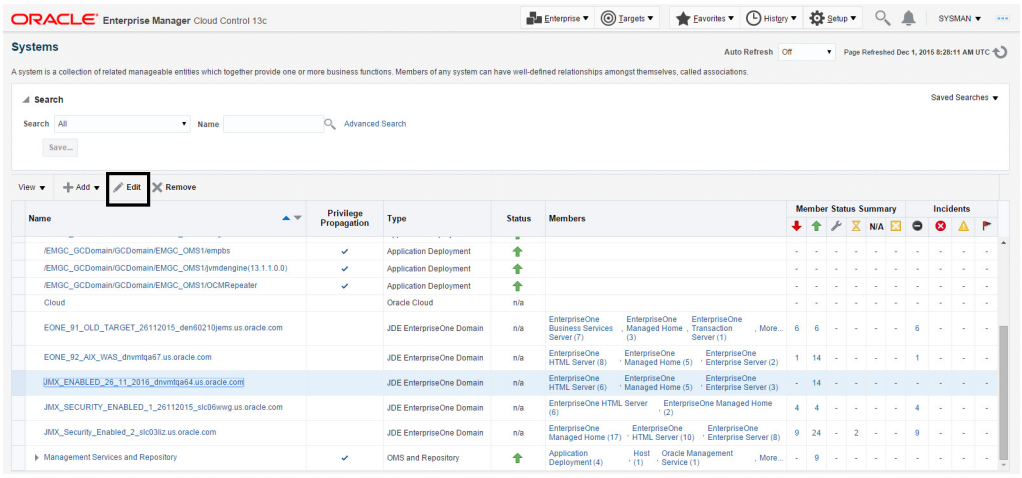
   After the processing is complete, the home page for the JD Edwards EnterpriseOne Domain is displayed, as shown in the following example:



7.7 JDE EnterpriseOne Domain Home Page

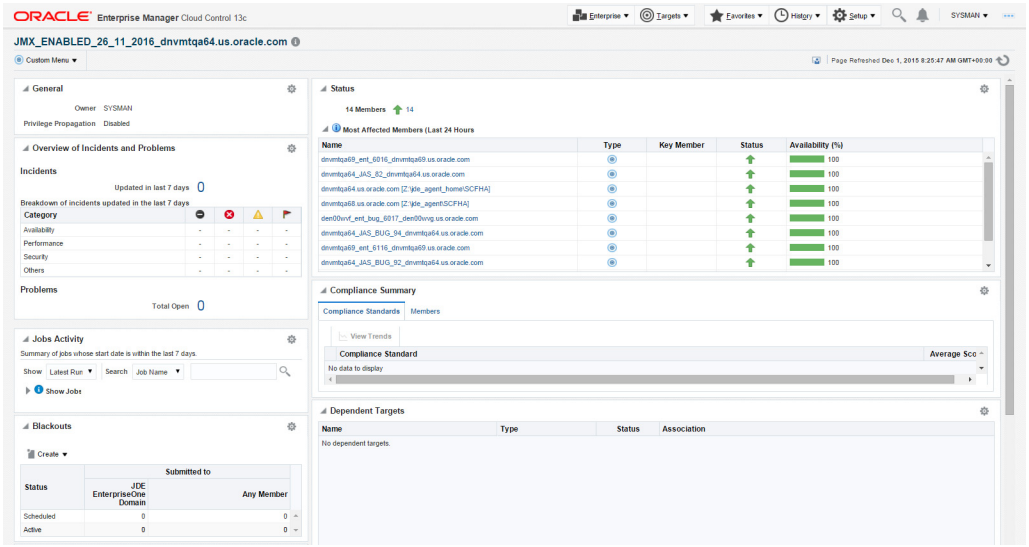


1. Navigate to Targets, Systems, and select the row where the Type column value is JDE EnterpriseOne Domain.

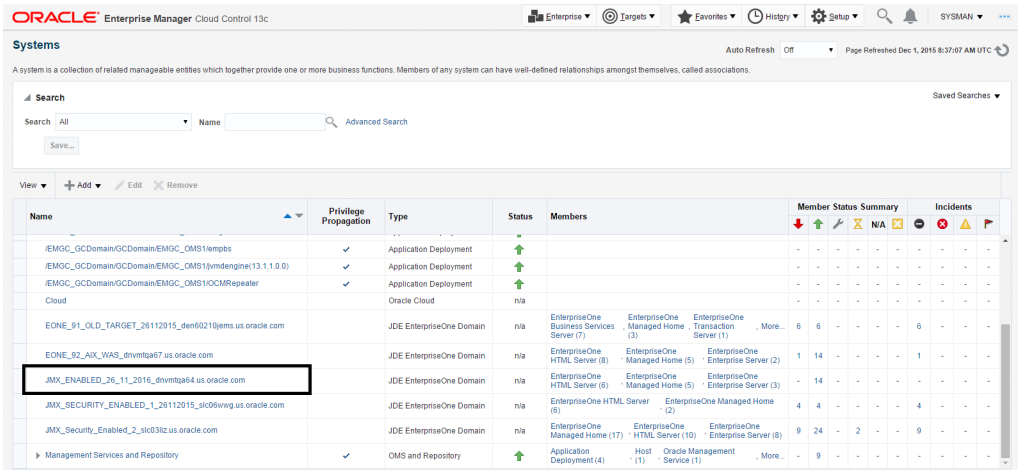


2. On the Systems form, with the JDE EnterpriseOne Domain row highlighted, click the Edit button to display the Home page of the JDE EnterpriseOne Domain, as shown in the following example:

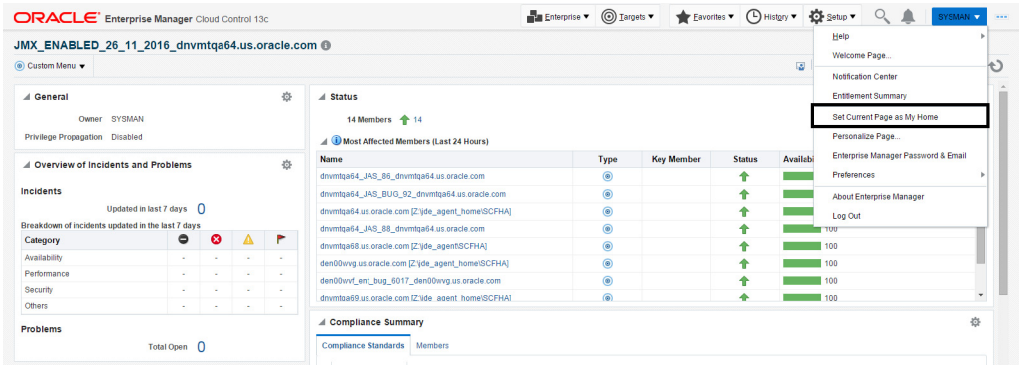
   Tip: If your server is not listed, it may be because the Enterprise Manager default for the maximum number of servers to be shown in this list is 10. Refer to the Enterprise Manager documentation to customize this value.



3. Alternatively, to navigate to the JD Edwards EnterpriseOne Domain Home page, on the Systems form, on the row with the **JDE EnterpriseOne Domain**, click the hyperlink in the Name column where the Type column value is JDE EnterpriseOne Domain. This is shown in the following example:

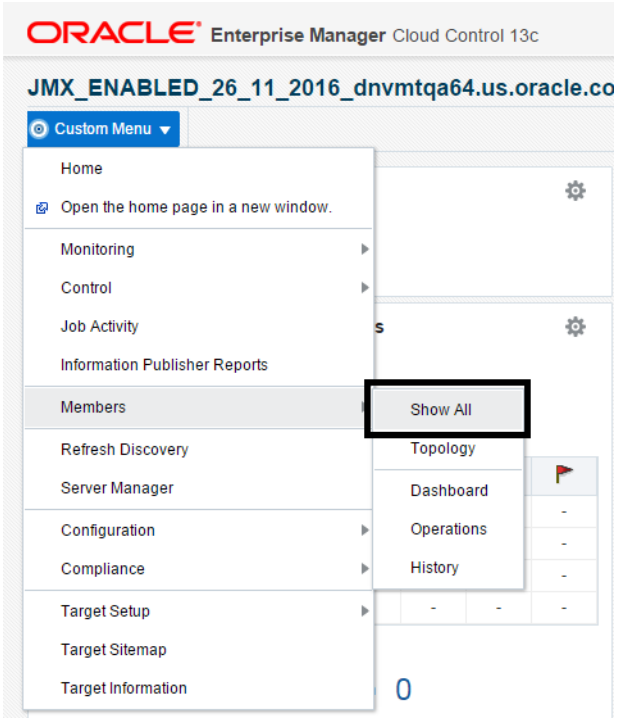


4. Optionally you can set the JD Edwards Domain as your Cloud Control home page, with the JD Edwards Domain page as the current page in your Cloud Control session, navigate Sysman, Set Current Page as My Home (see below figure).

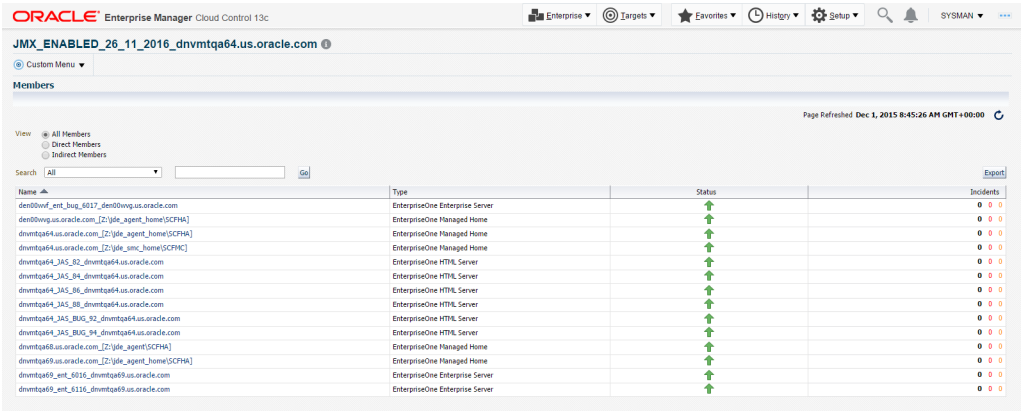


7.8 Members of the JD Edwards EnterpriseOne Domain

To display members of the JD Edwards EnterpriseOne Domain:



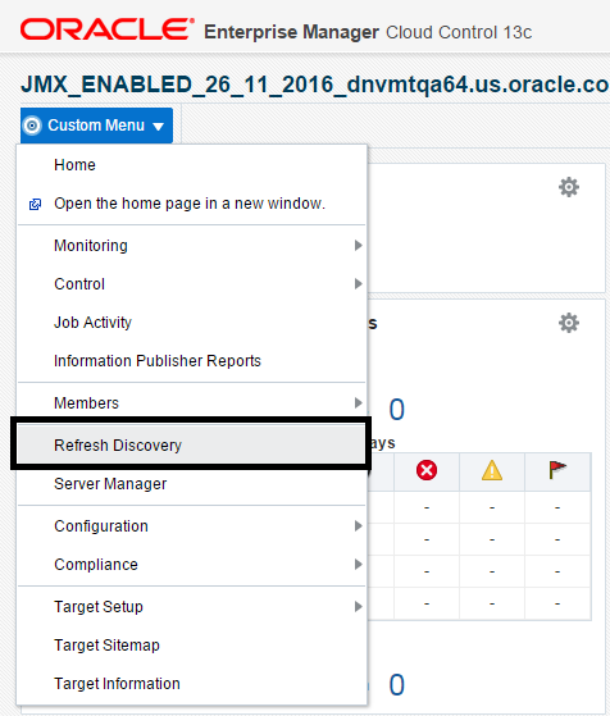
1. With the JD Edwards EnterpriseOne Domain displayed, navigate to Custom Menu, Members, Show All.
2. Cloud Control displays a list of members as shown in the following example:



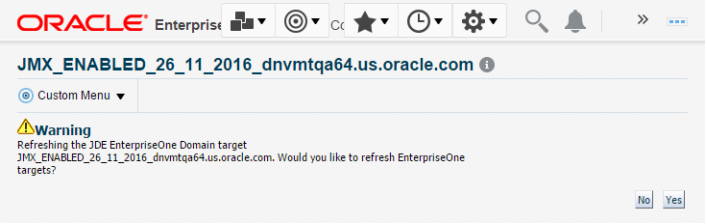
7.9 Updating the JD Edwards EnterpriseOne Domain (Refresh Discovery)

To update the JD Edwards EnterpriseOne domain to Cloud Control, use Refresh Discovery as described below.

1. On the JD Edwards EnterpriseOne Domain Home Page, navigate to Custom Menu, Refresh Discovery.



2. Cloud Control displays the following warning:



3. On the Warning screen, verify the target and click the **Yes** button to complete the refresh action.

   The Cloud Control system refreshes the JD Edwards EnterpriseOne Domain and associated targets. When the process is complete, the system displays the JD Edwards EnterpriseOne Domain Home Page.

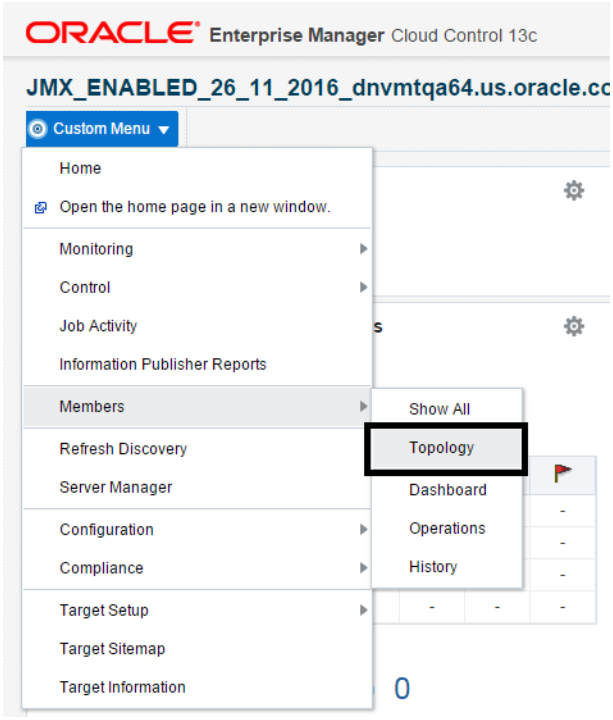
7.10 Configuration Topology

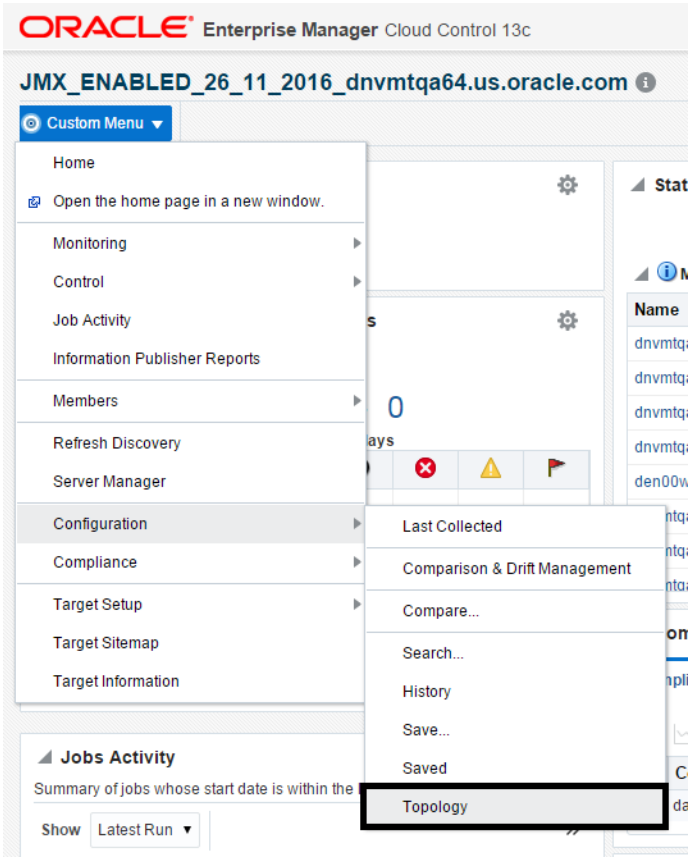
There are several methods to display the configuration topology of the JD Edwards EnterpriseOne Domain.

1. On the JD EnterpriseOne Domain home page, choose either of these navigations:

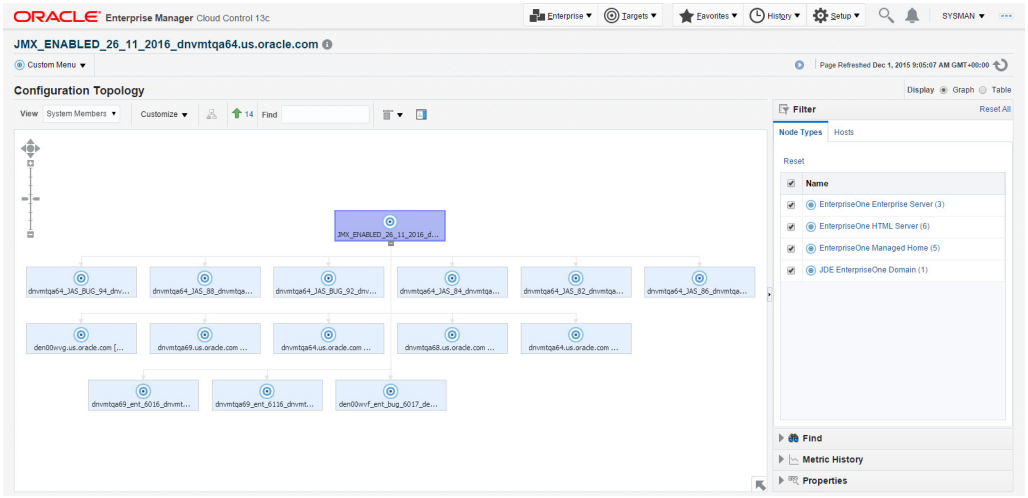
   Custom Menu, Members, Topology

   Custom Menu, Configuration, Topology





2. Cloud Control displays a topology graphic as shown in the following example:

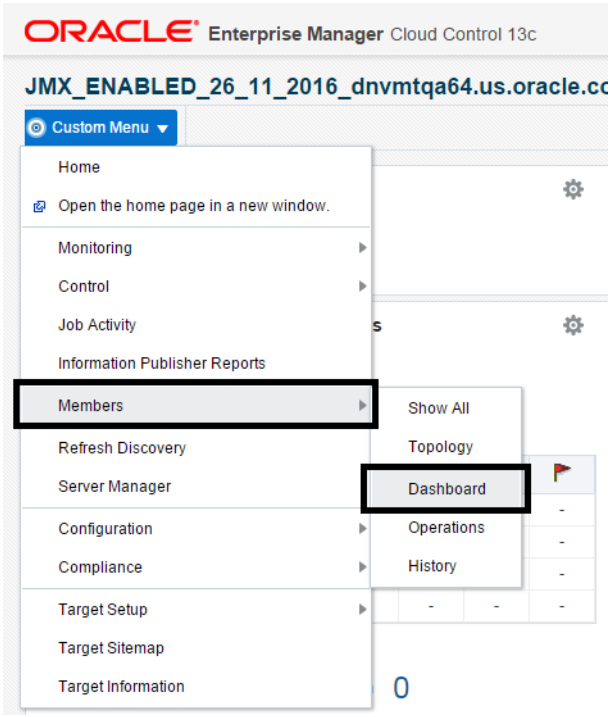


7.11 System Monitoring Dashboard

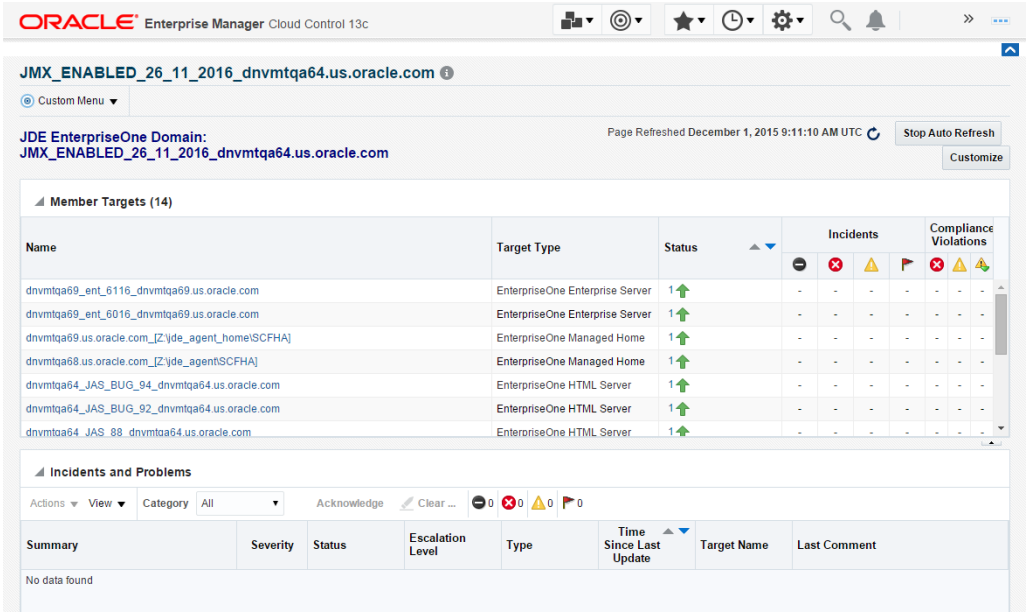
Use the System Dashboard to view the health of managed targets within a group or system in real time. The System Dashboard presents information using intuitive icons and graphics that let you spot recent changes and quickly identify and respond to problems. You can:

- Customize the display attributes to match information requirements of managed targets.

- Monitor status for recent problems.

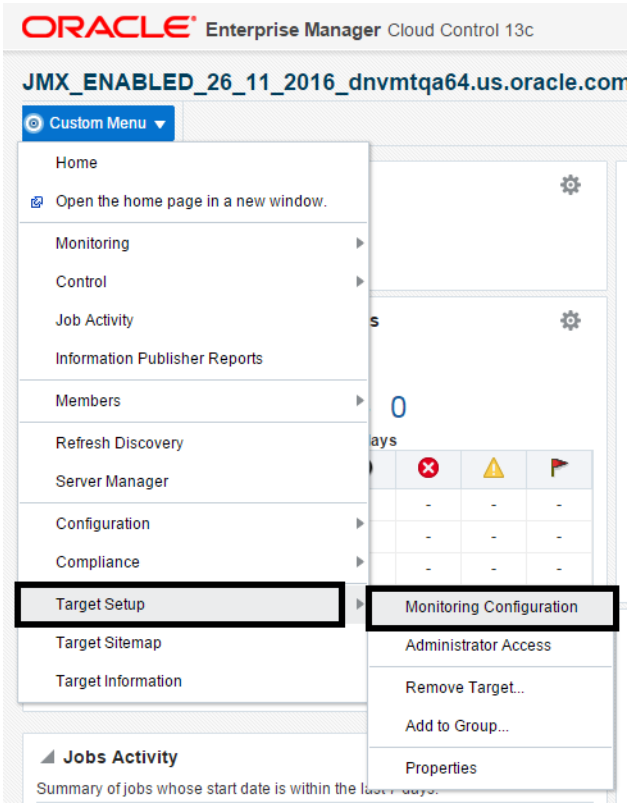


To access the System Monitoring Dashboard, navigate to Custom Menu, Members, Dashboard. The following example illustrates the dashboard for the JD Edwards EnterpriseOne Domain.

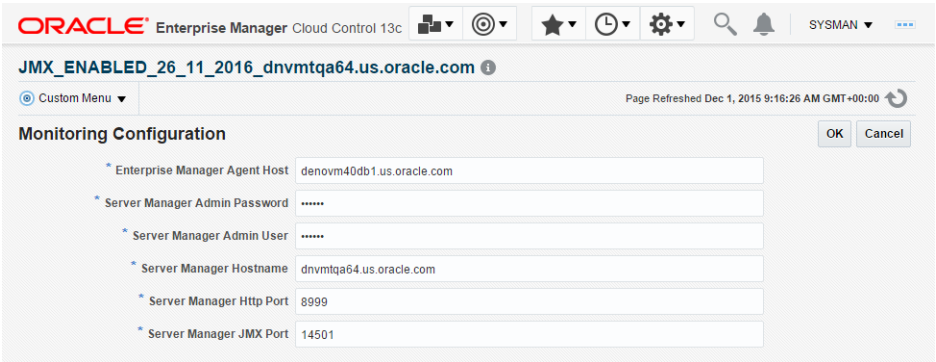


7.12 Monitoring Configuration

Cloud Control automatically sets up monitoring configuration for the JDE EnterpriseOne targets.



1. To confirm, with a JDE target selected (for example, the HTML Server), navigate to Custom Menu, Target Setup, Monitoring Configuration.

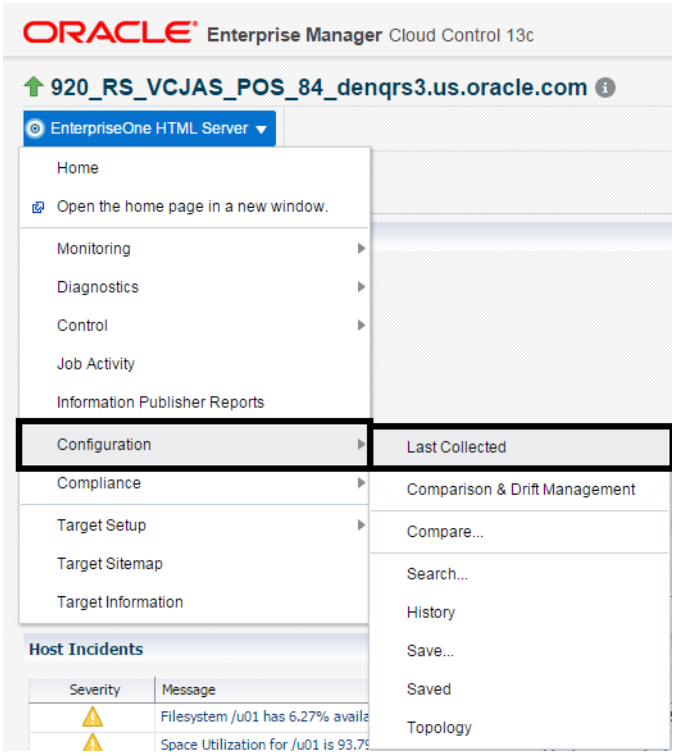


If the Monitoring section of the screen indicates that monitoring is automatically enabled for the target's availability and performance, no further monitoring configuration is necessary. You can edit the metric thresholds from the target's home page.

7.13 Latest Configuration Data

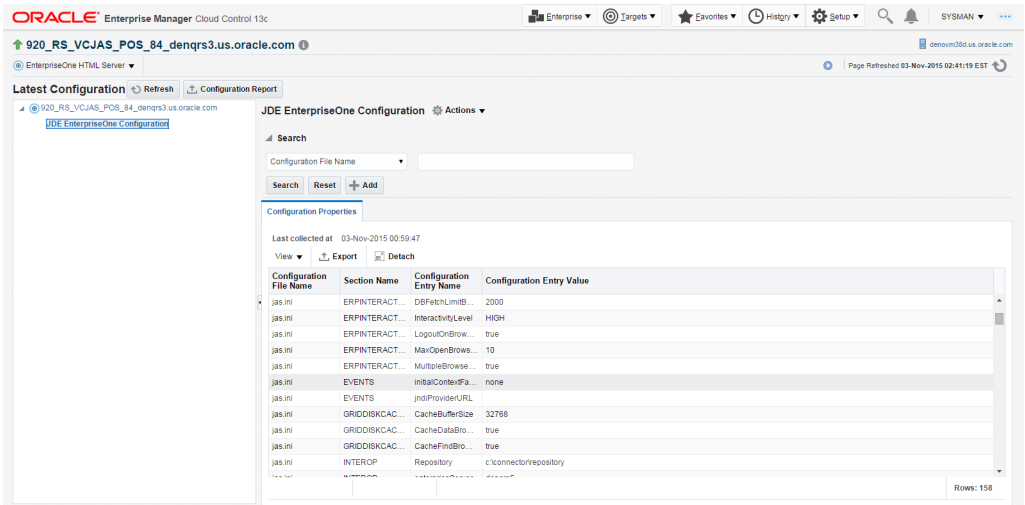
Use this procedure to obtain the latest configuration data for members of the JD Edwards EnterpriseOne Domain. This allows you to see configuration information that is in files such as the `jde.ini` and `jas.ini`. In addition to viewing the configuration information, you can Export or Detach it.

1. With a JD Edwards EnterpriseOne target selected, navigate to EnterpriseOne HTML Server, Configuration, Last Collected.

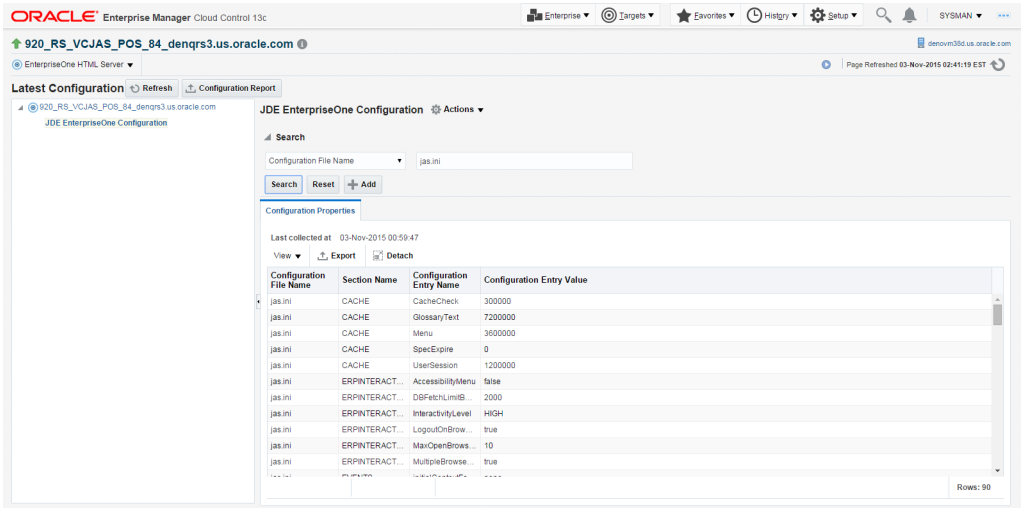


2. Cloud Control displays the latest configuration for the selected Target.

   The following example illustrates the latest configuration for the JD Edwards EnterpriseOne HTML Server.

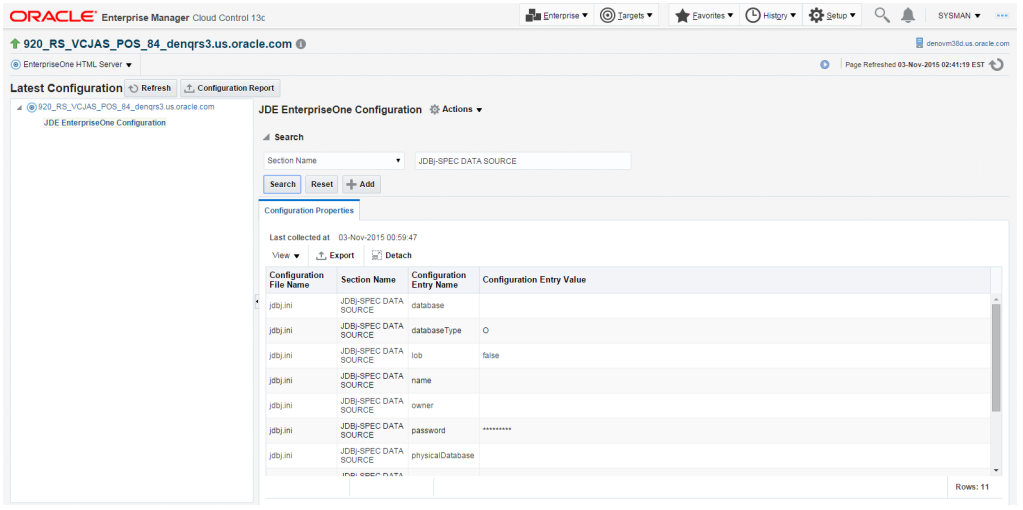


   The following example illustrates the latest configuration for the JD Edwards EnterpriseOne Enterprise Server.



3. To display additional configuration details, expand the node for the Target and click the subnode.

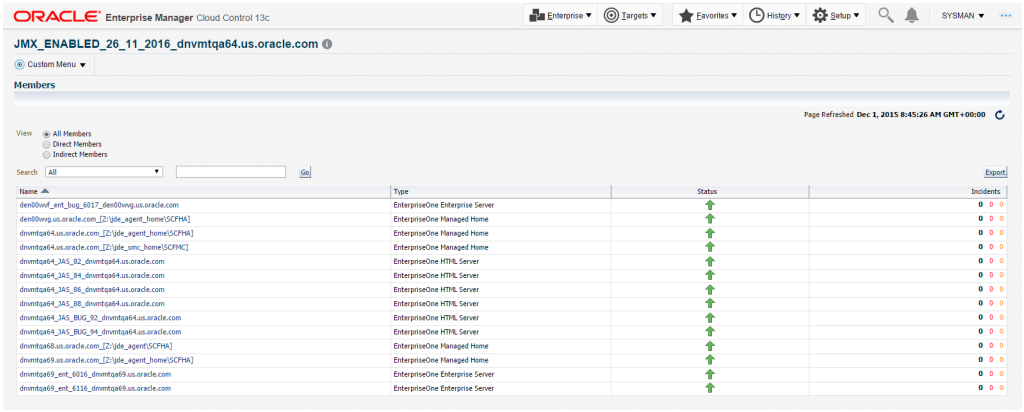
   The following example illustrates a JD Edwards EnterpriseOne HTML Server with the **JDE EnterpriseOne Configuration** subnode expanded.



7.14 Runtime Metrics (Status, User Count, and Performance)

You can use Cloud Control to monitor the status of all members of the JD Edwards domain. Cloud Control can also monitor the performance of these JD Edwards EnterpriseOne servers:

- Enterprise Server
- HTML Web Server

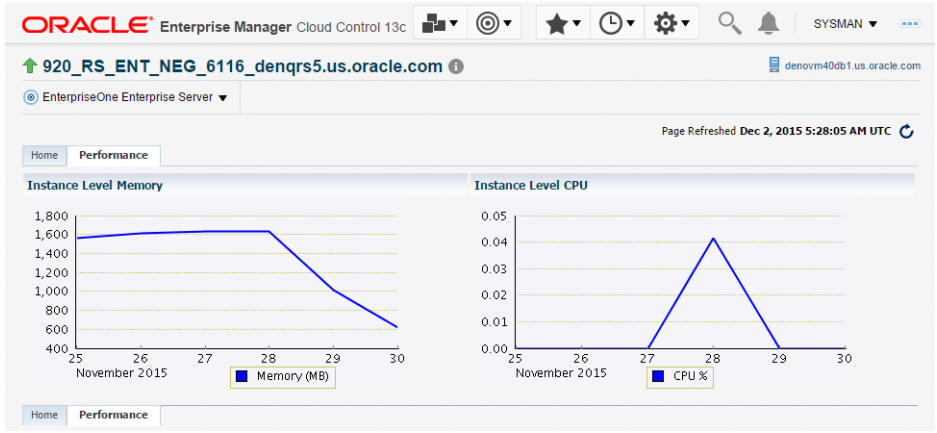


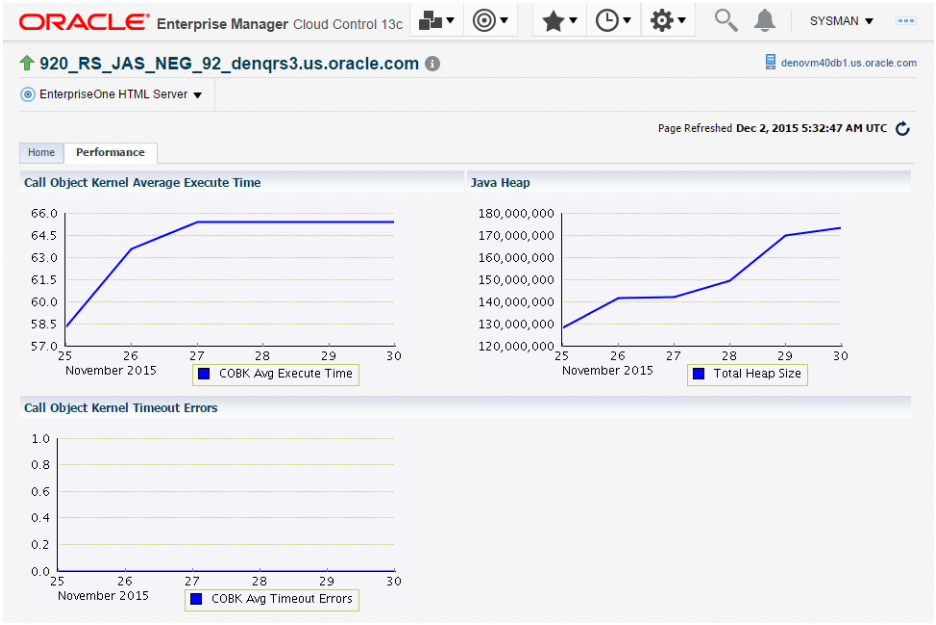
1. On the Members for JDE EnterpriseOne Domain form, you can view the following details for each member:
   - Status
   - Alerts
   - Policy Violations
2. For **EnterpriseOne Enterprise Server** and **EnterpriseOne HTML Server** member types, you can view the following performance data:
   - Home tab

     User Count
   - Performance tab

     Call Object Kernel Average Execute Time
   - Java Heap
   - Call Object Kernel Timeout Errors

   Following are examples for each JD Edwards EnterpriseOne Server Type (Enterprise Server and HTML Server, respectively).





7.15 Configuration Metrics for JD Edwards EnterpriseOne

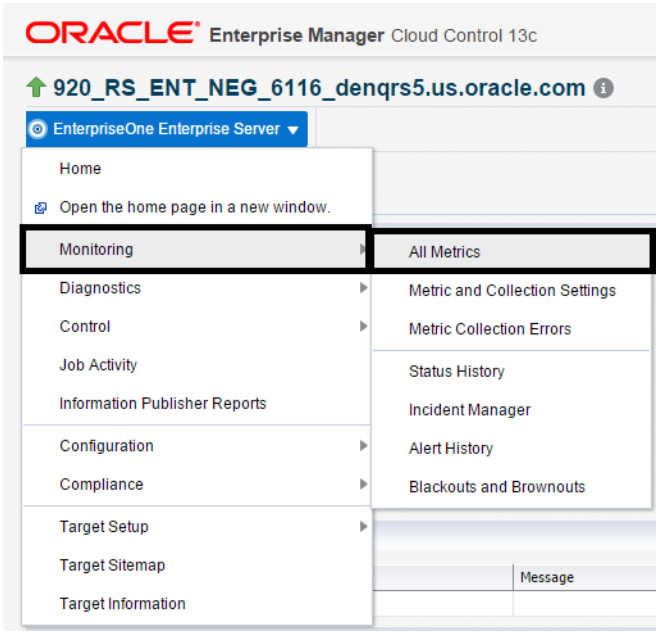
You can view all configuration metrics for these JDE EnterpriseOne member Types:

- Section 7.15.1, "All Metrics for JD Edwards EnterpriseOne Enterprise Server"
- Section 7.15.2, "All Metrics for JD Edwards EnterpriseOne HTML Server"

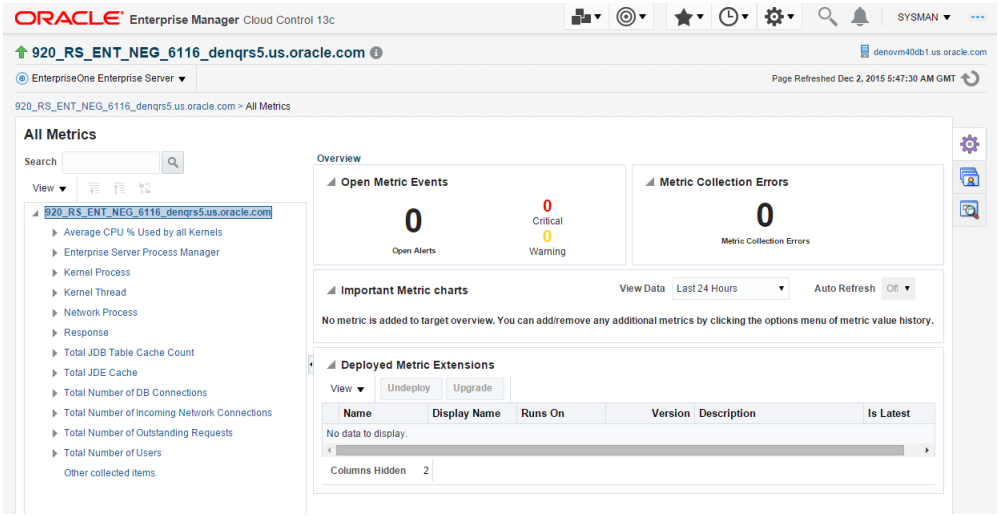
7.15.1 All Metrics for JD Edwards EnterpriseOne Enterprise Server

Use this procedure to view all metrics for the JD Edwards EnterpriseOne Enterprise Server

1. On Members for JDE EnterpriseOne Domain (or also from the Dashboard for the JDE EnterpriseOne Domain), click the link for the Name of the EnterpriseOne Enterprise Server.



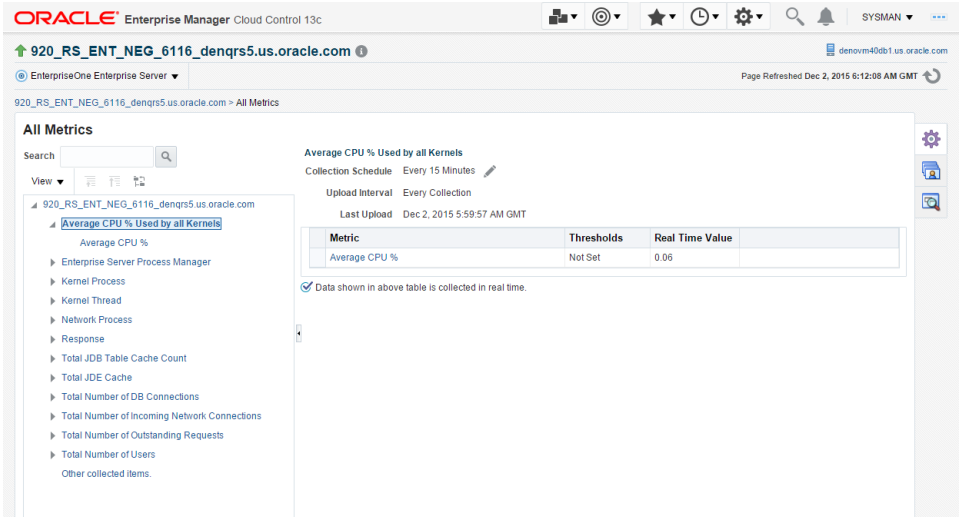
2. With the JDE EnterpriseOne target displayed in Cloud Control, navigate to EnterpriseOne Enterprise Server, Monitoring, All Metrics.



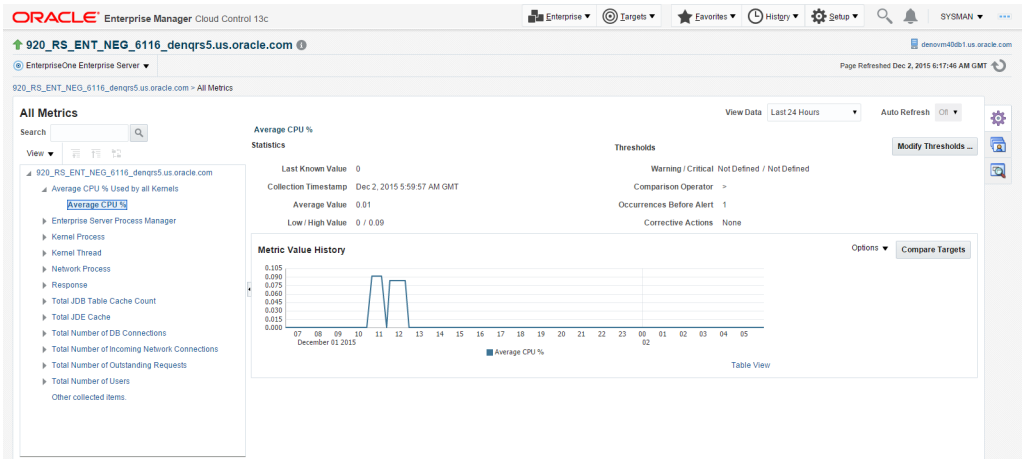
3. On the All Metrics form, you can view any of the metrics that are available for the JD Edwards EnterpriseOne Enterprise Server. These metrics include:
   - Average CPU % Used by All Kernels
   - Enterprise Server Process Manager
   - Kernel Process
   - Kernel Thread
   - Network Process
   - Response
   - Total JDB Table Cache Count
   - Total JDE Cache

- Total Number of DB Connections
- Total Number of Incoming Network Connections
- Total Number of Outstanding Requests
- Total Number of Users
- Other collected items

4. You can expand a metric node to view its subnodes. The following screen is an example of the metrics when you click on the Average CPU % Used By All Kernels node.



5. You can also click on subnodes to display additional information. The following screen is a sample of the metrics shown when you click on the Average CPU % subnode of the Average CPU % Used By All Kernels node.

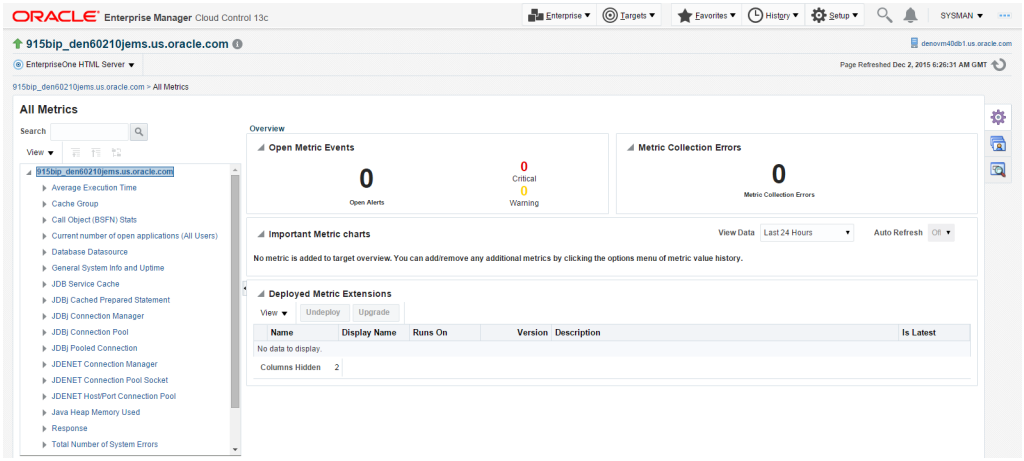


7.15.2 All Metrics for JD Edwards EnterpriseOne HTML Server

Use this procedure to view all metrics for the JD Edwards EnterpriseOne HTML Server.

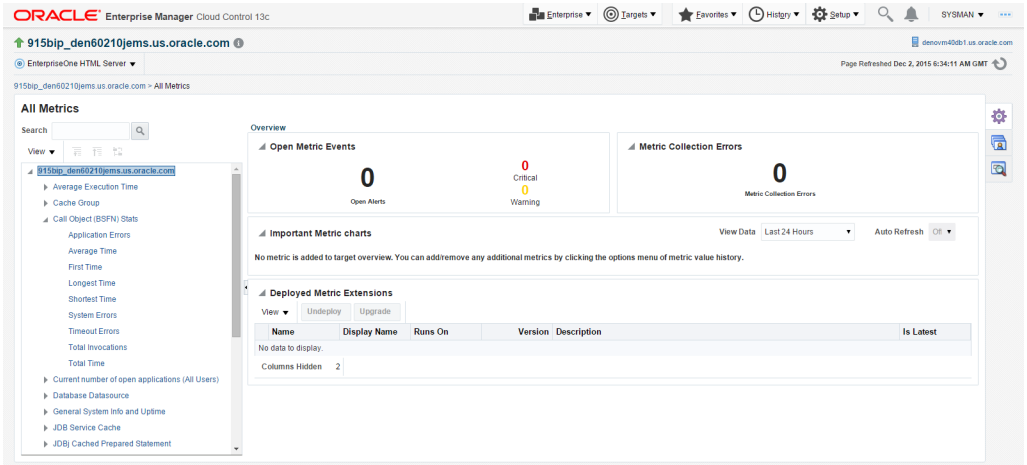
1. On Members for JDE EnterpriseOne Domain, click the link for the Name for the EnterpriseOne HTML Server.

2. With the JDE EnterpriseOne target displayed in Cloud Control, navigate to EnterpriseOne HTML Server, Monitoring, All Metrics.

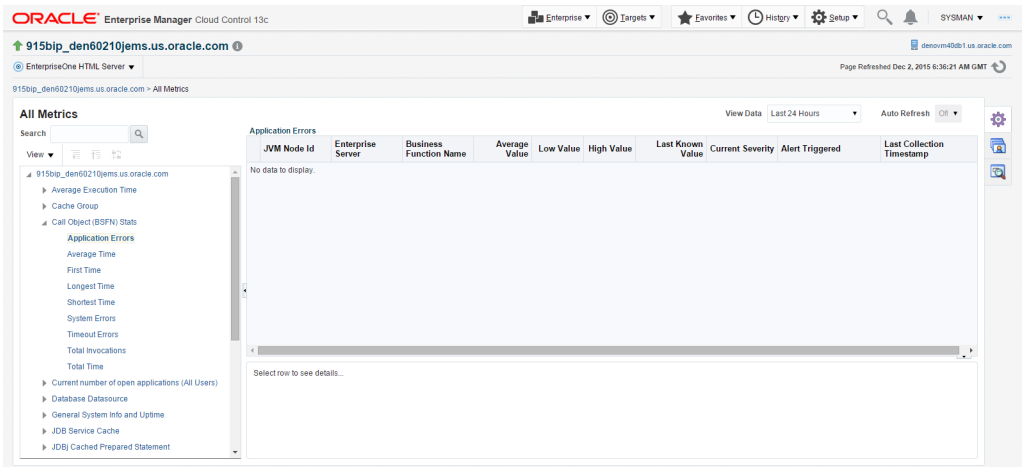


3. On the All Metrics form, you can view any of the metrics that are available for the JD Edwards EnterpriseOne Enterprise Server. These metrics include:
   - Average Execution Time
   - Cache Group
   - Call Object (BSFN) Stats
   - Current number of open applications (All Users)
   - Database Datasource
   - General System Info and Uptime
   - JDB Service Cache
   - JDBj Cache Prepared Statement
   - JDBj Connection Manager
   - JDBj Pooled Connection

- JDENET Connection Manager
- JDENET Connection Pool Socket
- Java Heap Memory Used
- Response
- Total Number of System Errors
- Total Number of Timeout Errors
- Total number of current users
- Other collected items
- You can expand a metric node to view its subnodes. The following screen is an example of the metrics when you click on the Call Object (BSFN) Stats node.

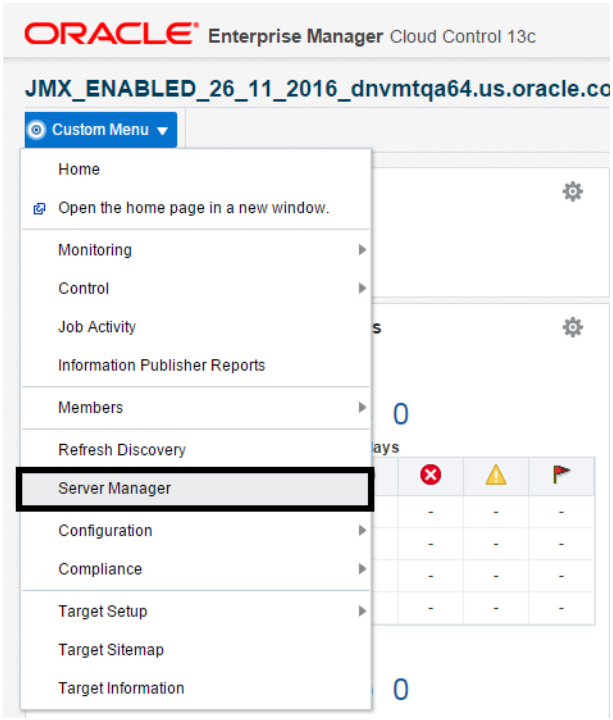


- You can also click on subnodes to display additional information. The following screen is an example of the metrics shown when you click on the Application Errors subnode of the Call Object (BSFN) Stats node.



7.16 Accessing Server Manager from Cloud Control

You can directly access the JD Edwards EnterpriseOne Server Manager used in the installation of Enterprise Manager. On the JD Edwards EnterpriseOne Domain Home Page, navigate to Custom Menu, Server Manager.



You will be redirected to the Server Manager login page with this URL syntax:

```
http://SM_Host:SM Port/manage/home
```

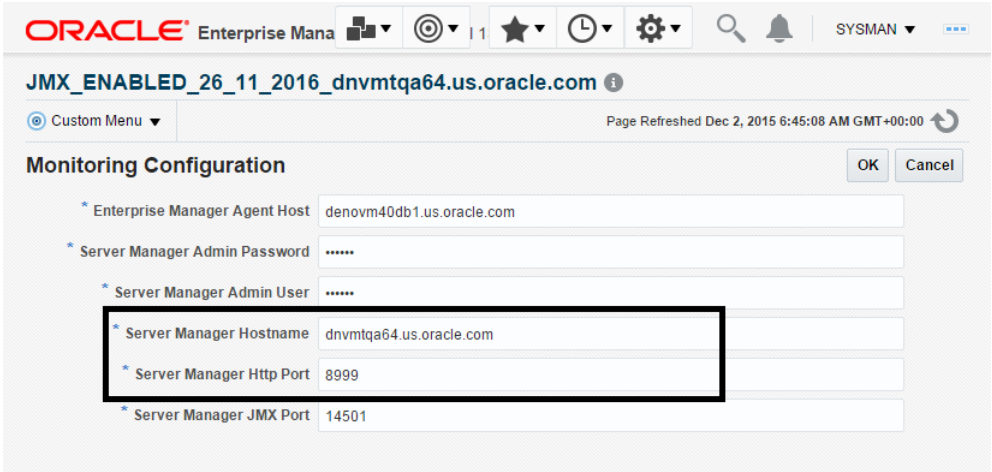
where *SM_Host* and *SM_Port* are retrieved from the monitoring configuration. For example, the URL might be:

```
http://globalwin2.mlab.jdedwards.com:8999/manage/home
```

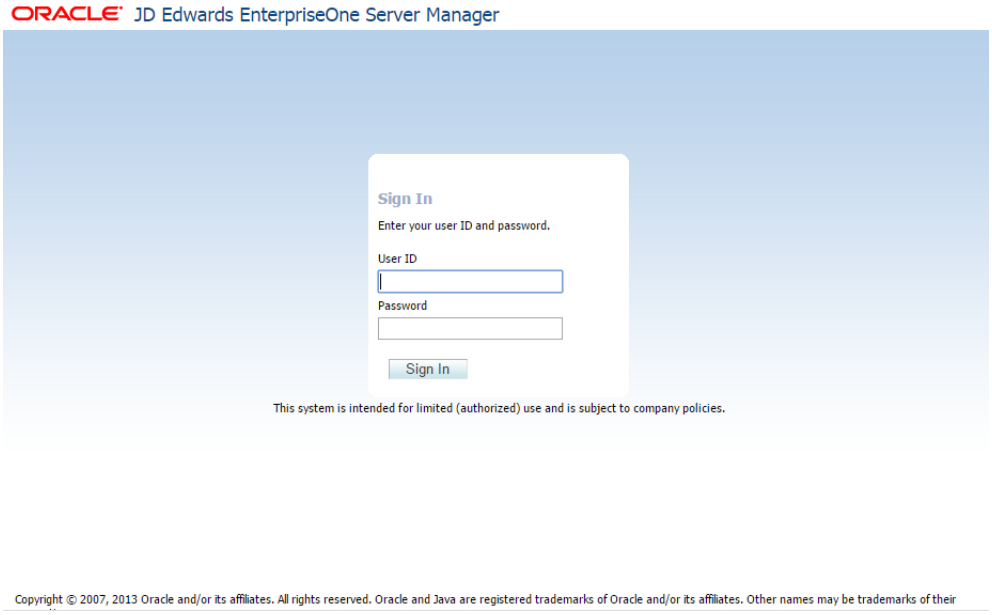
The Server Manager target machine is derived from the values in these fields on Monitoring Configuration:

- Server Manager Hostname
- Server Manager HTTP Port

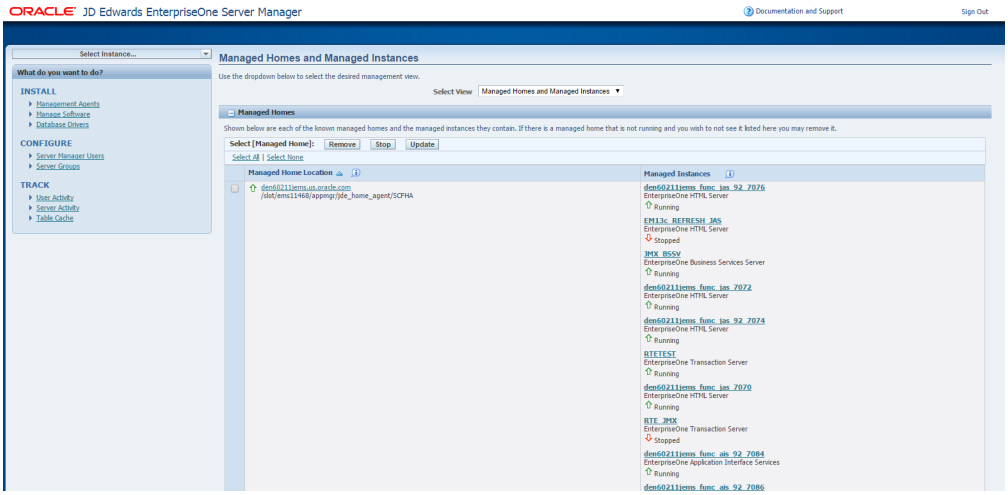
For example:



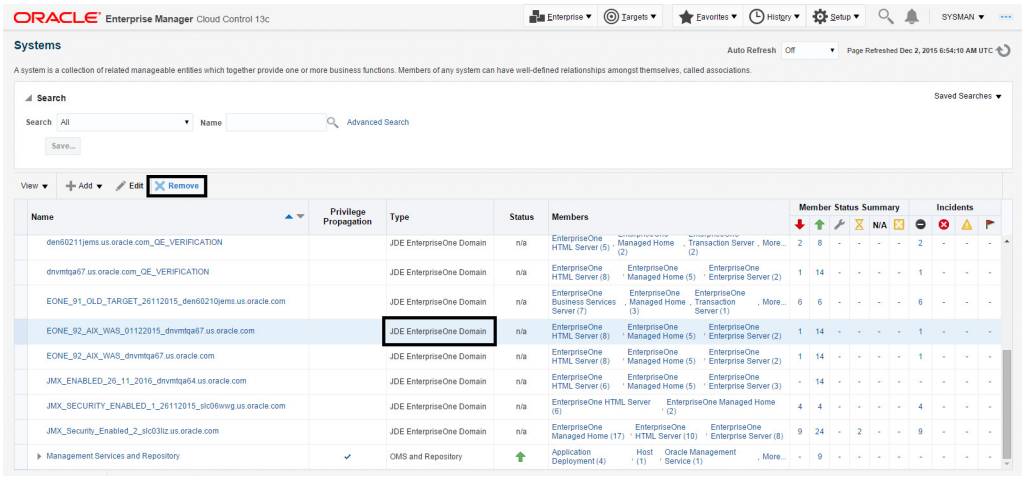
Below is the Server Manager login page that is displayed when you are redirected.



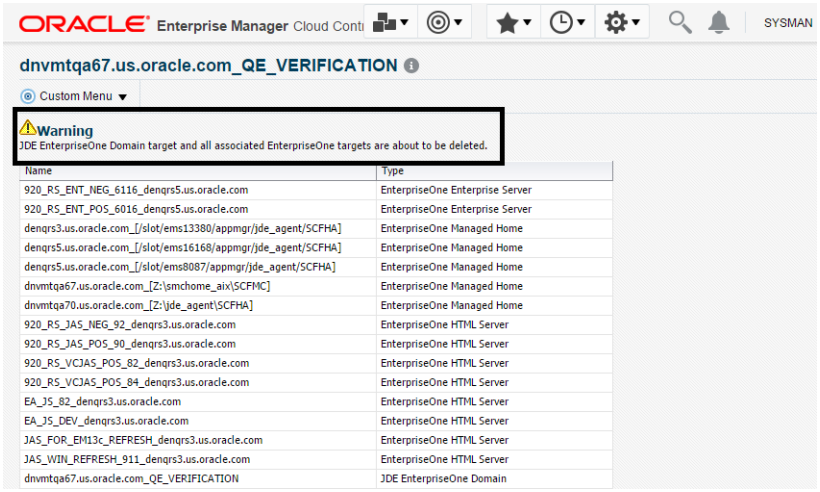
After you enter valid credentials for this Server Manager, the Server Manager Home page is displayed as shown in the following example:



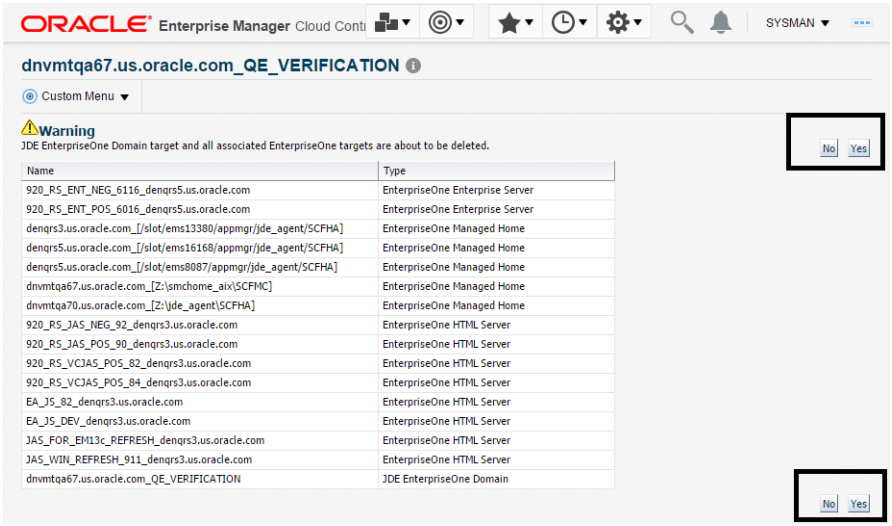
7.17 Removing the JD Edwards EnterpriseOne Domain



1. Navigate to Targets, Systems, and with the JDE EnterpriseOne Domain selected, click the Remove button.
2. Cloud Control displays a warning and lists the Domain target and associated EnterpriseOne targets that will be deleted.



3. As shown in the screen below, click the Yes button to confirm the deletion.



After you click the Yes button, Cloud Control displays a progress screen indicating the deletion of the JD Edwards EnterpriseOne targets.

After the processing is complete for deleting the system domain target, Cloud Control returns to the All Targets page.

7.18 Starting and Stopping Components of Enterprise Manager Environments

This section discusses:

- Section 7.18.1, "Starting Enterprise Manager Environment Components"
- Section 7.18.2, "Stopping Enterprise Manager Environment Components"

7.18.1 Starting Enterprise Manager Environment Components

Use these commands to start Enterprise Manager environment components:

- **Start database**

```
sqlplus '/as sysdba'
sql> startup
```

- **Start Database Listener**

```
/u01/app/oracle/home/bin/lsnrctl start
```

- **Start WebLogic Node Manager**

```
Stop ADMIN SERVER from console in case it is running without Node Manager
/u01/app/emgc13/wlserver_12.1/server/bin/setWLSEnv.sh
/u01/app/emgc13/wlserver_12.1/server/bin/startNodeManager.sh
```

- **Start OMS**

```
/u01/app/emgc13/oms/bin/emctl start oms
```

- **Start Agent**

```
/u01/app/emgc13/agent/agent_inst/bin/emctl start agent
```

7.18.2 Stopping Enterprise Manager Environment Components

Use these commands to stop Enterprise Manager environment components:

- **Stop Agent**

  ```
  /u01/app/emgc13/agent/agent_inst/bin/emctl stop agent
  ```

- **Stop OMS (this stops the OMS Server)**

  ```
  /u01/app/emgc13/oms/bin/emctl stop oms
  ```

- **Stop Database Listener**

  ```
  /u01/app/oracle/home/bin/lsnrctl stop
  ```

- **Stop Database**

  ```
  sqlplus '/as sysdba'
  sql> shutdown immediate
  ```

8

Undeploy JDE AppPack Components

The proper sequence for undeploying JD Edwards AppPack Components is to undeploy from the Management Agent first, and then undeploy from Management Servers.

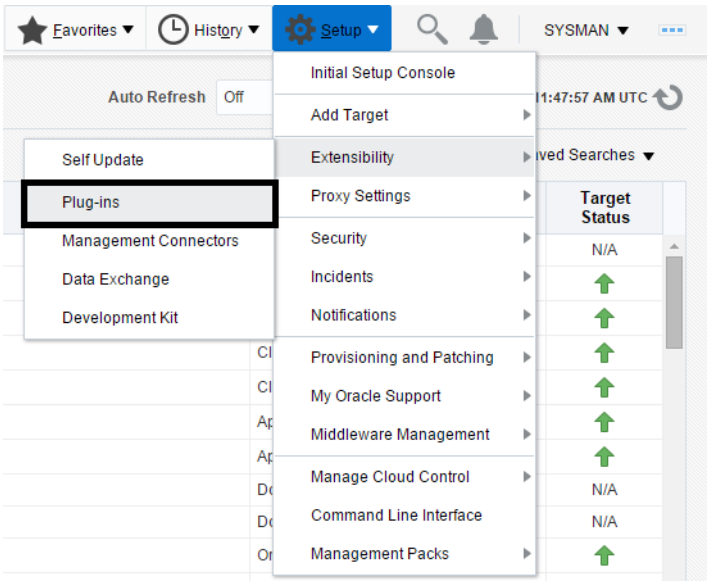
This chapter contains the following topics:

- Section 8.1, "Undeploy the JD Edwards AppPack from the Management Agent"
- Section 8.2, "Undeploy the JD Edwards AppPack from Management Servers"
- Section 8.3, "Deinstall the Oracle database and Cloud Control"

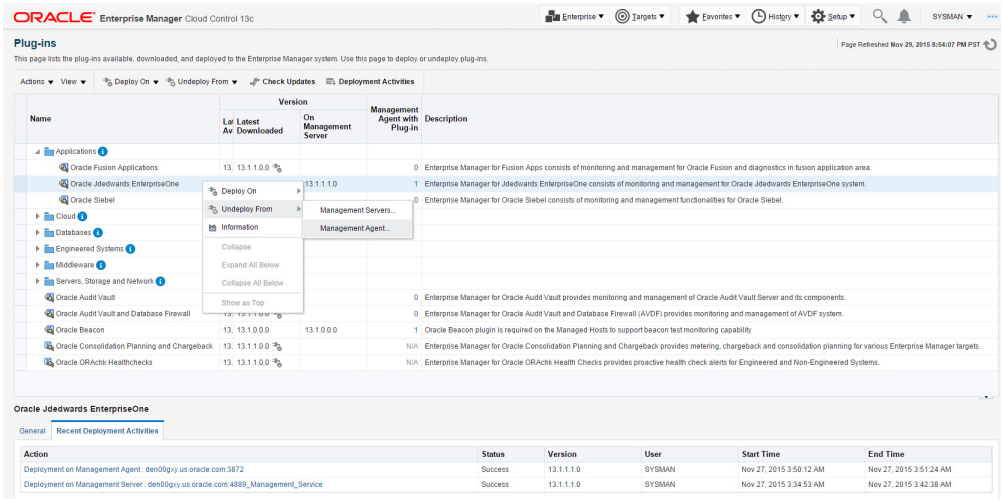
8.1 Undeploy the JD Edwards AppPack from the Management Agent

Use this procedure to undeploy the JD Edwards AppPack from the Management Agent.

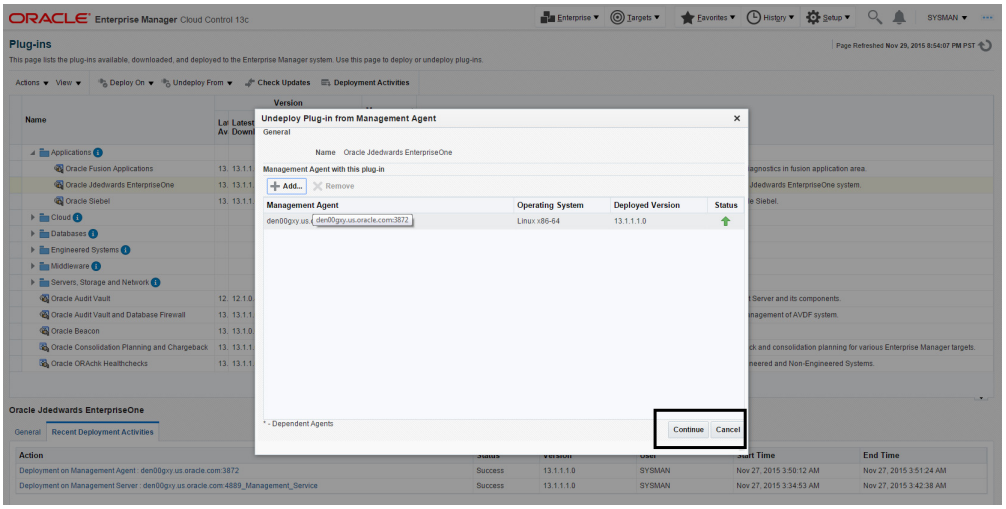
Caution: You should do this step prior to undeploying the JD Edwards AppPack from Management Servers, which is described in the next section of this guide entitled: Section 8.2, "Undeploy the JD Edwards AppPack from Management Servers".



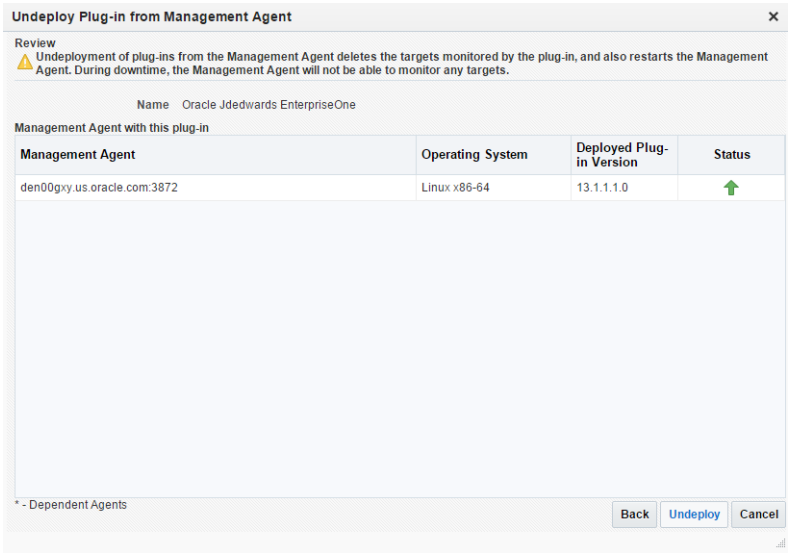
1. On the Oracle Enterprise Manager Cloud Control form, navigate to Setup, Extensibility, Plugins.



2. With the undeployed plugin highlighted, right click and choose Undeploy From, Management Agent...

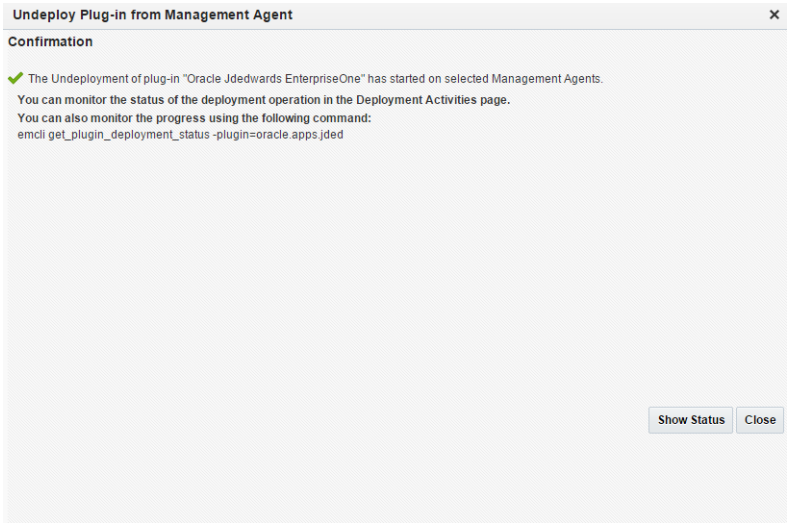


3. On the Undeploy Plug-in on Management Agent, General form, click the **Continue** button to undeploy the auto-detected Management Agent.

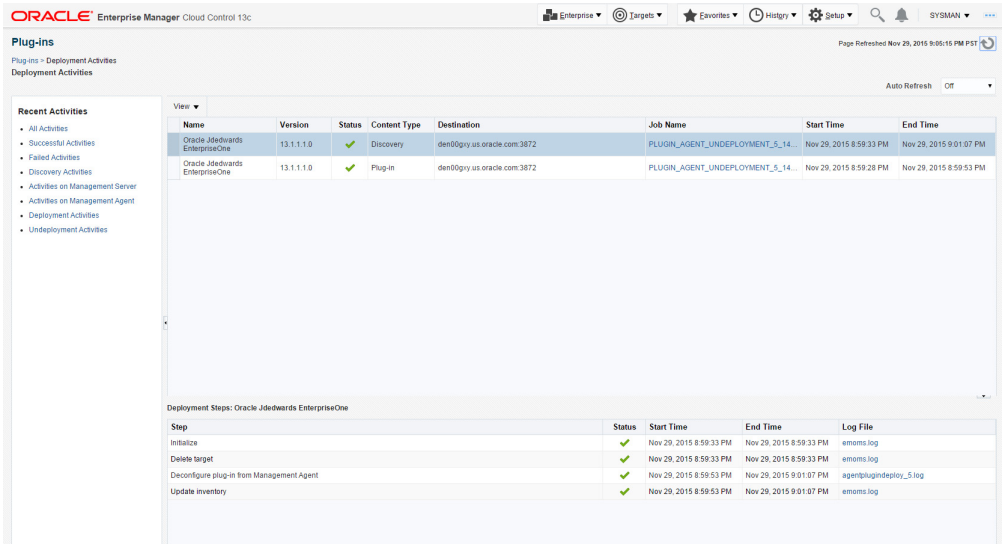


4. On the Undeploy Plug-in on Management Agent, Review form, the system displays a warning that deployment of the plug-in on the Management Server will restart the agent.

5. Click the Undeploy button.



6. On the Undeploy Plug-in on Management Agent, Confirmation form, click the Show Status button. This Confirmation screen indicates that the undeployment is started on selected agents.



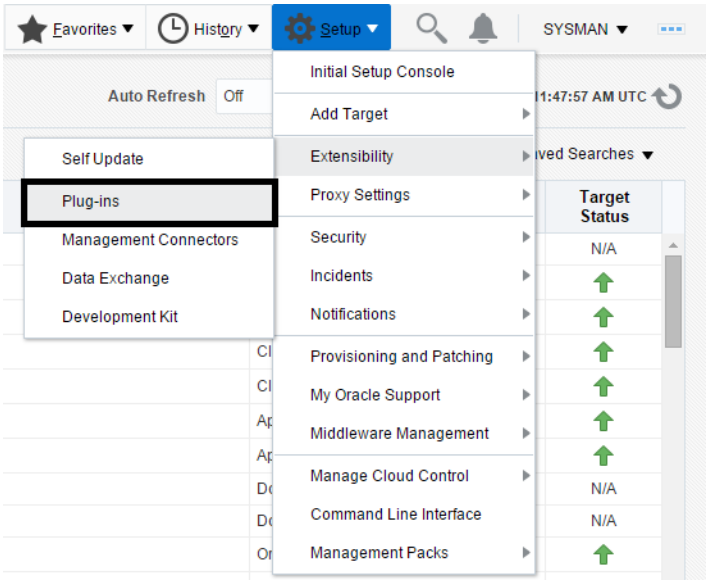
7. The undeployment is complete when the status shows a green check mark on this Deployment Step:

   Deconfiguring Plugin from Agent

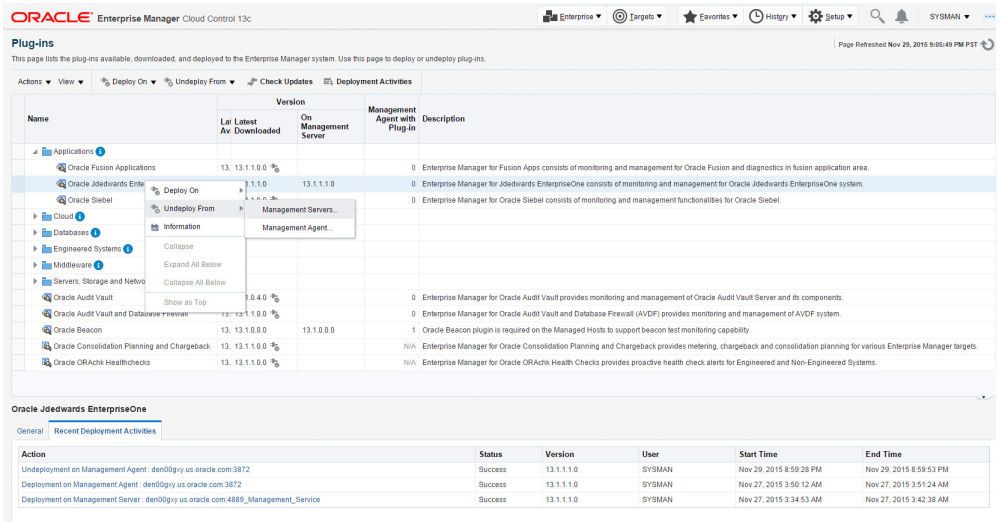
8.2 Undeploy the JD Edwards AppPack from Management Servers

Use this procedure to undeploy the JD Edwards AppPack from Management Servers.

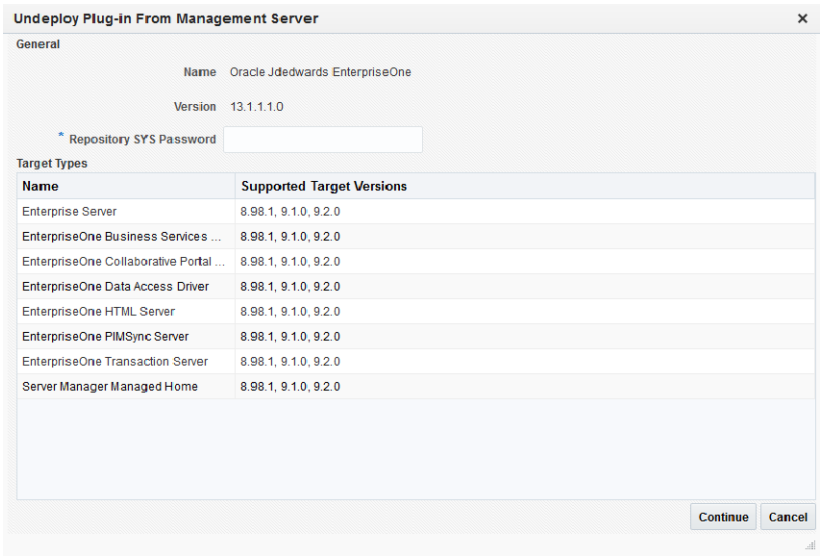
Caution: Prior to undeployment the JD Edwards AppPack from Management Servers, you should undeploy it from the Management Agent. Refer to the previous section of this guide entitled: Section 8.1, "Undeploy the JD Edwards AppPack from the Management Agent".



1. On the Oracle Enterprise Manager Cloud Control form, navigate to Setup, Extensibility, Plugins.

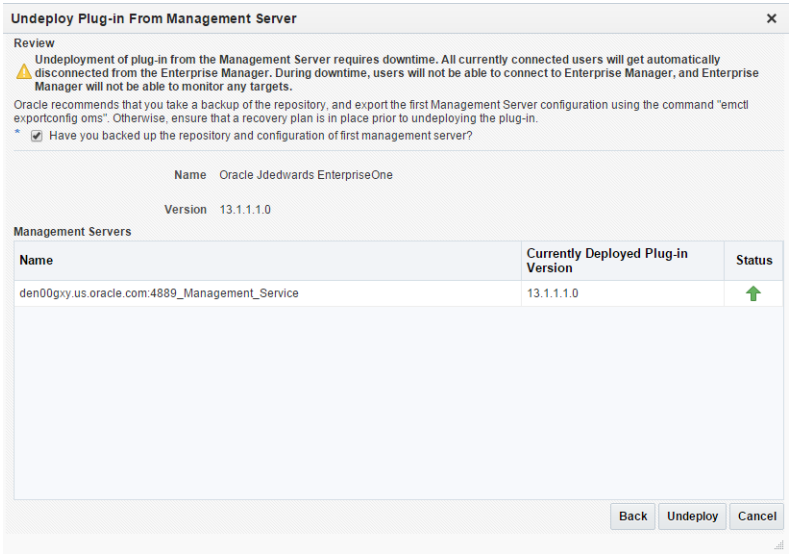


2. With the undeployed plugin highlighted, right click and choose Undeploy From, Management Servers...



3. On the Undeploy Plug-in from Server, General form, enter the password for the SYS user of the EM repository.

4. Click the Continue button.

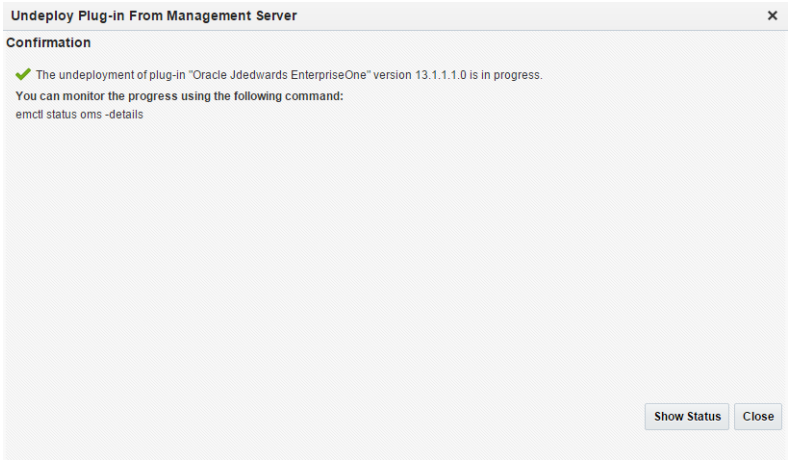


5. On the Undeploy Plug-in from Server, Review form, the system displays a warning that deployment of the plug-in on the Management Server will require downtime. All currently connected users will get disconnected from the Enterprise Manager. During the downtime period, users will not be able to connect to Enterprise Manager and Enterprise Manager will not monitor any targets.

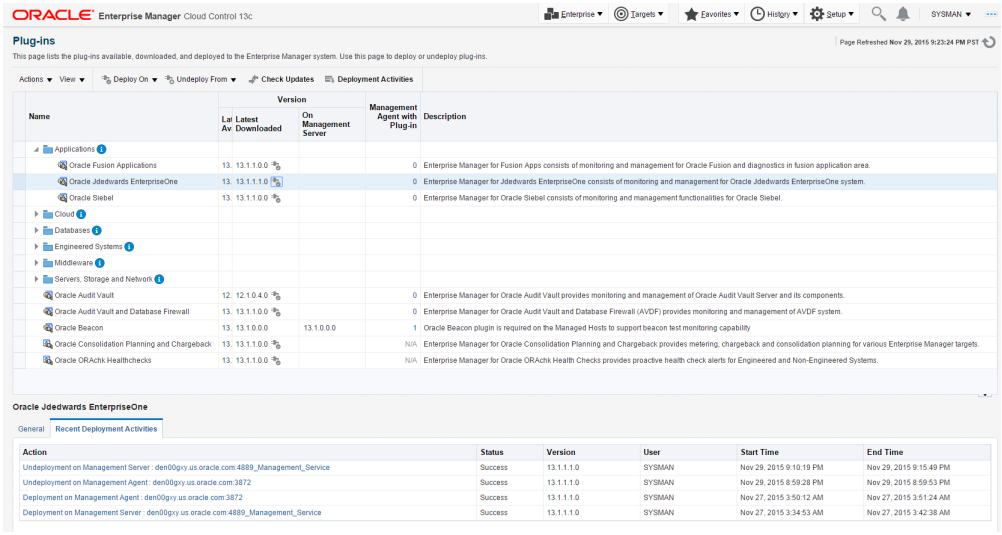
   Oracle recommends that you backup the repository or ensure appropriate recovery plans are in place prior to deploying the plug-in. Before you proceed, you must click this checkbox:

   Have you backed up the repository?

6. Click the Undeploy button.



7. On the Undeploy Plug-in from Server, Confirmation form, verify that the undeployment is in progress and click the Close button.



8. On the Plug-ins form, the Recent Deployment Activities indicates that the undeployment of the Management Service has begun.

   However, since OMS is shut down during the undeployment process, after a certain time during deployment, you cannot use the EM user interface to check the status and verify whether undeployment is complete.

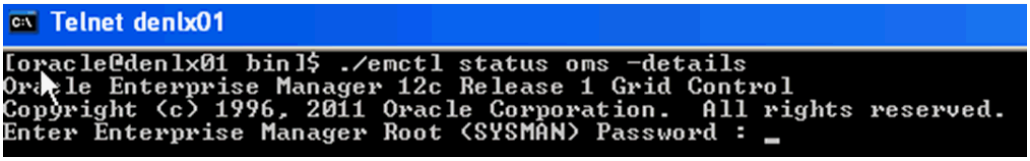
   To determine simple status and whether OMS is up or down, use this line command:

   ```
   ./emctl status oms
   ```

   To view the deployment details, you can append the `-details` flag using this line command:

   ```
   ./emctl status oms -details
   ```

   Note: Any time you issue the check status command with the `-details` flag you will be prompted to provide the SYS user password for the EM database as shown in the sample below.



   the system displays a message that the OMS is being started. It indicates that undeployment is complete and that the EM console will be available shortly, depending on how long the actual startup takes to complete.

8.3 Deinstall the Oracle database and Cloud Control

To know more about deinstalling Oracle database, see https://docs.oracle.com/database/121/LADBI/remove_oracle_sw.htm

To know more about deinstalling Oracle Enterprise Manager, see http://docs.oracle.com/cd/E63000_01/EMADV/deinstall_em.htm

Note: If you only want to remove the JD Edwards EnterpriseOne Domain, refer to the chapter of this guide entitled: Section 7.17, "Removing the JD Edwards EnterpriseOne Domain".