

# Oracle® Enterprise Manager

System Monitoring Plug-in for Oracle Enterprise Manager Ops Center Guide

12c Release 1 (12.1.2.0.0)

E27091-04

October 2012

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This document describes how to use the Infrastructure Stack plug-in to connect the monitoring capabilities of Oracle Enterprise Manager Cloud Control and Oracle Enterprise Manager Ops Center.

The following topics are discussed in this document:

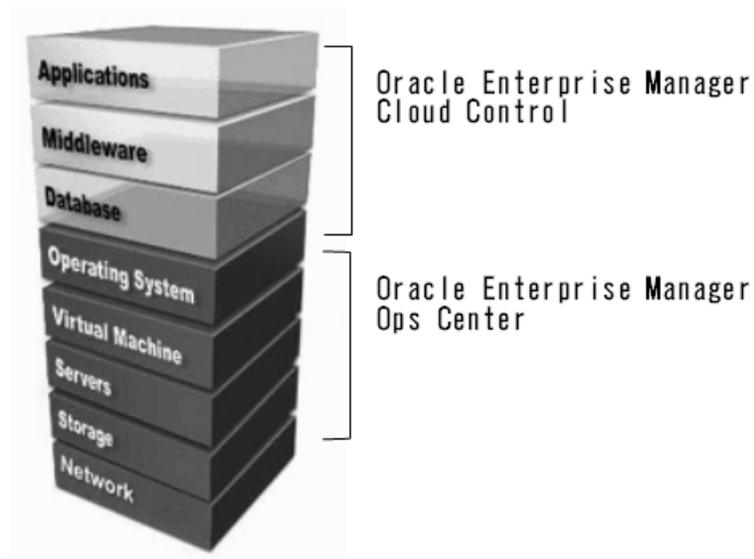
- [Introduction](#)
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## Introduction

Oracle Enterprise Manager Cloud Control and Oracle Enterprise Manager Ops Center are complementary technologies that are designed to provide an enterprise-level data center management solution for all levels, from applications to storage disks.

As shown in [Figure 1](#), Oracle Enterprise Manager Cloud Control software enables businesses to improve application, middleware, database, and operating system performance. Oracle Enterprise Manager Ops Center software enables businesses to manage the operating systems, virtual machines, servers, and storage devices.

**Figure 1 Oracle Enterprise Manager**

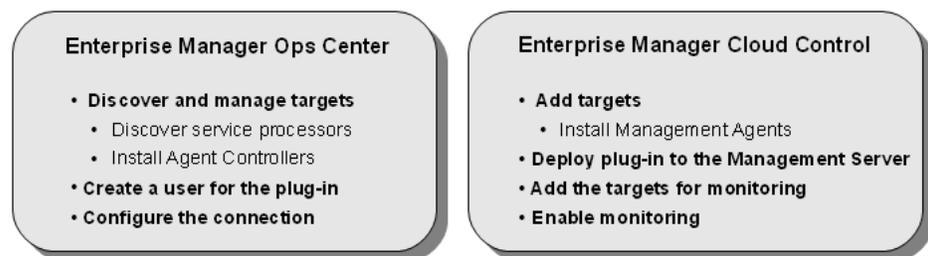


The plug-in module extends the Oracle Enterprise Manager Cloud Control monitoring features to include the additional infrastructure layers below the operating system that are provided by Oracle Enterprise Manager Ops Center, including:

- Virtual assets, including Oracle Solaris Zones and Oracle Solaris VM Server for SPARC domains and guests
- Service processors
- Server containers (chassis)
- Oracle SPARC Enterprise M3000/M4000/M5000/M8000/M9000 Server domains

To enable data to flow between the two applications, you must configure each application separately, then complete the connection.

**Figure 2 Overview of Tasks to Deploy and Configure the Plug-in**



When you configure Oracle Enterprise Manager Ops Center and Oracle Enterprise Manager Cloud Control applications to work together, the monitoring information is shared between both applications. Each user interface includes information about resources that are managed by the other application. Because each application provides operating system monitoring, operating system information is not shared between the applications.

## Requirements

This section describes what is needed to enable monitoring of the infrastructure stack:

- [Supported Versions](#)
- [Prerequisites](#)
- [User Requirements](#)

### Supported Versions

The supported version of the plug-in is determined by the Oracle Enterprise Manager Cloud Control version. Beginning with Cloud Control 12c Release 1 (12.1.0.1.0), the Ops Center infrastructure stack 12c plug-in is available in the Oracle Enterprise Manager Store.

Each row in [Table 1](#) is a supported combination of Oracle Enterprise Manager Cloud Control and Ops Center software and the required infrastructure plug-in.

**Table 1** *Supported Infrastructure Plug-in*

Oracle Enterprise Manager Cloud Control	Oracle Enterprise Manager Ops Center	Infrastructure Plug-in
Cloud Control 12c Release 1 (12.1.0.1.0)	Ops Center 12c Release 1 (12.1.0.0.0 - 12.1.2.0.0)	The latest Ops Center infrastructure stack 12c plug-in from the Oracle Enterprise Manager Store
Cloud Control 12c Release 1 (12.1.0.1.0)	Ops Center 11g Release 1	The latest Ops Center infrastructure stack 12c plug-in from the Oracle Enterprise Manager Store
Grid Control 11g Release 1 (11.1.0.1.0)	Ops Center 12c Release 1	ocas_plugin-2.x.jar
Grid Control 11g Release 1 (11.1.0.1.0)	Ops Center 11g Release 1	ocas_plugin-2.x.jar
Grid Control 10g Release 2 (10.2.0.5.0)	Ops Center 11g Release 1	ocas_plugin-2.x.jar

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**Note:** Releases earlier than Oracle Enterprise Manager Ops Center 11g Release 1, Update 3 (11.1.3.0.0) cannot display repository data from the Oracle Enterprise Manager 12c database.

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For earlier versions of Oracle Enterprise Manager Grid Control, see the *Oracle Enterprise Manager System Monitoring Plug-in for Oracle Enterprise Manager Ops Center Guide* for information on getting the jar file needed to deploy the plug-in.

To connect Oracle Enterprise Manager Grid Control 10g Release 2 (10.2.0.5.0) with Oracle Enterprise Manager Ops Center 2.5, you must use the connector instead of the plug-in.

### Prerequisites

Perform the following tasks before deploying the plug-in:

- Install and configure Oracle Enterprise Manager Cloud Control Server. See the *Oracle Enterprise Manager Cloud Control Basic Installation Guide* or the *Oracle Enterprise Manager Cloud Control Advanced Installation and Configuration Guide* for instructions on installing.
- Deploy Oracle Enterprise Manager Cloud Control Agents on the systems to be monitored. See the *Oracle Enterprise Manager Cloud Control Basic Installation Guide* or the *Oracle Enterprise Manager Cloud Control Advanced Installation and Configuration Guide* for instructions on installing Enterprise Manager Cloud Control agents. The plug-in uses the Java version that is bundled with the Oracle Management Agent.
- Install and configure Oracle Enterprise Manager Ops Center Enterprise Controller and Proxy Controller to run in connected mode. See the *Oracle Enterprise Manager Ops Center Installation Guide for Linux Operating Systems* or the *Oracle Enterprise Manager Ops Center Installation Guide for Oracle Solaris Operating System* for instructions on installing and configuring the Enterprise Controller and Proxy Controller.
- Discover and manage the systems in Oracle Enterprise Manager Ops Center to deploy the Oracle Enterprise Manager Ops Center agents on the systems to be monitored. See the *Oracle Enterprise Manager Ops Center Feature Reference Guide* for instructions on discovering and managing systems to install the Oracle Enterprise Manager Ops Center Agent Controller.

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**Note:** The plug-in requires that Oracle Enterprise Manager Ops Center software has access to the Knowledge Base (KB).

- If Oracle Enterprise Manager Ops Center is not installed, install the software. During configuration choose the connected mode and provide a My Oracle Support user name and password for the Oracle Configuration Manager.
  - If Oracle Enterprise Manager Ops Center is installed, see the *Oracle Enterprise Manager Ops Center Administration Guide* for the steps to enable to Oracle Configuration Manager.
  - If you are using the software in Disconnected Mode, see the *Oracle Enterprise Manager Ops Center Administration Guide* for how to run the Harvester script to obtain the bundle and then load the KB bundle on your Enterprise Controller.
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If you use a WS-MAN/JMX HTTP proxy, you can use an existing HTTP proxy that is used by the Oracle Management Agent or you can configure a new proxy to access the Oracle Enterprise Manager Ops Center Enterprise Controller.

Additional sub-requirements for proper operation of the plug-in are met if the Enterprise Manager Cloud Control and Ops Center software are installed as documented.

## User Requirements

The SYSMAN user is required to deploy the plug-in and view the asset information collected by the Oracle Enterprise Manager Ops Center software in the Oracle Enterprise Manager Cloud Control console.

A new user in Oracle Enterprise Manager Ops Center is required for Oracle Enterprise Manager Cloud Control integration. This user does not require any roles or permissions. See the *Oracle Enterprise Manager Ops Center Administration Guide* for how to add a user.

## Get and Deploy the Plug-in

Complete the following tasks to obtain and deploy the plug-in:

1. [Download the Plug-in From the Enterprise Manager Store](#)
2. [Deploy the Plug-in to the Management Server](#)
3. [Add Targets for Monitoring](#)

The Oracle Enterprise Manager Store is an external site that contains functional updates, including the latest version of the management plug-in files. Enterprise Manager Cloud Control checks the site periodically to provide you with the latest version. You can download the plug-in from the Oracle Enterprise Manager Store to the Software Library (the local store).

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**Note:** Enterprise Manager must have Internet access to download the plug-in from the Oracle Enterprise Manager Store.

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### Things to Know

The following are things you should know before you deploy the plug-in:

- You can import multiple versions of the same plug-in. However, you can only deploy one version on the Oracle Management Service (OMS) at any given time.
- The Management Agent can have the same or earlier version of the plug-in that is deployed on the OMS host.
- The Management Agent cannot have a later version than the version that is on the OMS host.
- The Management Repository SYSMAN user password is required to complete the deployment process.

## Download the Plug-in From the Enterprise Manager Store

This procedure assumes that you are connected to the Internet and describes how to download the plug-in immediately. Alternatively, you can choose to schedule the download to occur at a specified time.

1. From the **Setup** menu, click **Extensibility**, then click **Self Update** to get the list of updates.
2. Click **Plug-in** from the list.
3. Select **Ops Center Infrastructure Stack** from the list, then click **Download**.
4. Select **Immediately**, then click **Select** to start downloading the update.

When the download is complete, plug-in deployment page is displayed.

## Deploy the Plug-in to the Management Server

The Management Repository SYSMAN user password is required to complete the deployment process.

1. On the Plug-in Deployment page, select the Ops Center Infrastructure Stack plug-in.

If you are not on the Plug-in Deployment page, expand the **Setup** menu and click **Extensibility**, then click **Plug-ins**.

2. Click **Deploy On**, then click **Management Servers**.
3. Complete the required details on the Deploy Plug-in dialog box.  
In the Version of Plug-in to Deploy section, select the Plug-in version from the Plug-in drop-down. The Target Type information is displayed in the table. Enter the Repository SYSMAN password, then click **Continue**.
4. Complete the steps in the Deploy Plug-in dialog box.
5. Click **Deploy** to deploy the selected plug-in on all Enterprise Manager Servers.

## Add Targets for Monitoring

You must associate the Infrastructure Stack plug-in to existing Oracle Enterprise Manager Cloud Control Agents to enable cross-software monitoring.

See the *Oracle Enterprise Manager Cloud Control 12c Administrator's Guide* for how to add new targets in Oracle Enterprise Manager Cloud Control.

1. Log in to Oracle Enterprise Manager Cloud Control as SYSMAN.
2. From the **Setup** menu, click **Add Target**, then click **Add Targets Manually**.
3. Select **Add Non-Host Targets by Specifying Target Monitoring Properties**, then select the **Infrastructure Stack** target type, select a Monitoring Agent, then click **Add Manually**.
4. Complete the following information:
  - a. Target Name – The unique target name that is displayed in the Oracle Enterprise Manager Cloud Control UI.
  - b. Ops Center Enterprise Controller Host Name – The host name for the Oracle Enterprise Manager Ops Center Enterprise Controller. The host name must be resolvable by, and reachable from, the host where the Enterprise Manager Cloud Control Agent is running.
  - c. Ops Center Enterprise Controller User Name – The user log in name for the Oracle Enterprise Manager Ops Center Enterprise Controller.
  - d. Ops Center Enterprise Controller Password – The corresponding password for the Oracle Enterprise Manager Ops Center user.
  - e. Optionally, add the WS-MAN/JMX proxy host name and port.

**Figure 3 Add Infrastructure Stack to New Targets**

**Add Infrastructure Stack**  
Add a target to be monitored by Enterprise Manager by specifying target monitoring properties.

Target Name

Target Type Infrastructure Stack

Agent https://adc2101725.us.oracle.com:1838/emd/main/

\* Ops Center Enterprise Controller host name

\* Ops Center Enterprise Controller user name

\* Ops Center Enterprise Controller password

WS-MAN/JMX http proxy host name( optional )

WS-MAN/JMX http proxy port( optional )

5. Click **Test Connection** to verify that the parameters you entered are correct.
6. Click **OK** to add the new target.

## Configure the Connection

After the plug-in is deployed and configured in Oracle Enterprise Manager Cloud Control, you must configure the Enterprise Controller to communicate with the Oracle Enterprise Manager Cloud Control repository. This enables target information from Enterprise Manager Cloud Control to appear in the Enterprise Manager Ops Center user interface.

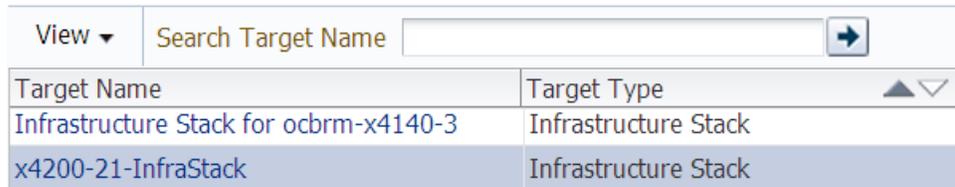
1. Launch the Oracle Enterprise Manager Ops Center software and log in as an Administrative user.
2. Expand the Administration section in the Navigation pane, then click **Cloud Control**.
3. Click **Configure/Connect** in the Actions pane.
4. Enter the server name and port number for the Oracle Enterprise Manager Cloud Control console. The default port is 7799.
5. Enter the Oracle Enterprise Manager Cloud Control database host name, port number, SID (Oracle System ID), SYSMAN user name and password. The default port is 1521.
6. Click **Finish**.

## Enable Monitoring

In Enterprise Manager Cloud Control, monitoring is disabled by default. You must enable monitoring for each target.

1. Click **Targets**, then **All Targets**. Find your target by entering the target name, or by sorting the Target Type column in the table and scrolling to Infrastructure Stack. Click the target name to display the target page.

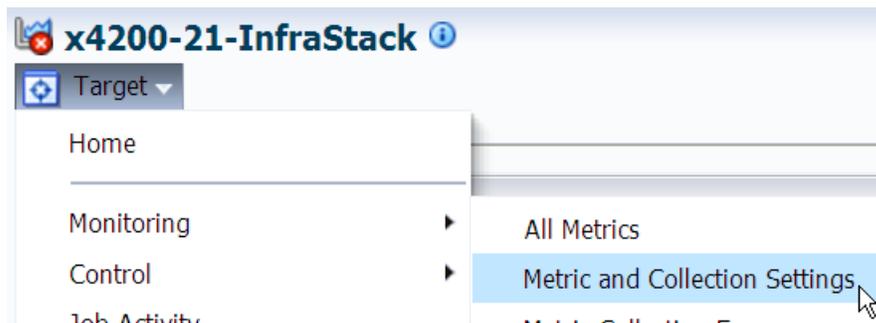
**Figure 4 Sort by Target Type**



Target Name	Target Type
Infrastructure Stack for ocbm-x4140-3	Infrastructure Stack
x4200-21-InfraStack	Infrastructure Stack

- Expand the Target menu in the upper left corner, select **Monitoring**, then select **Metric and Collection Settings**.

**Figure 5 Metric and Collection Settings**



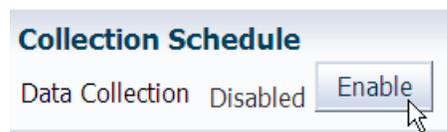
- The Metric and Collection Settings table has a column titled Collection Schedule. Click the link titled Disabled for the Infrastructure Stack Alarms to enable the metrics collector.

**Figure 6 Collection Schedule**

Metric	Comparison Operator	Warning Threshold	Critical Threshold	Corrective Actions	Collection Schedule
▼ x4200-21-InfraStack					
▼ Infrastructure Stack Alarms					<a href="#">Disabled</a>

- Click **Enable** to begin collecting Infrastructure Stack alarms, then click **Continue**. Click **OK** to save the setting. Click **OK** to close the confirmation.

**Figure 7 Enable the Collection Schedule**



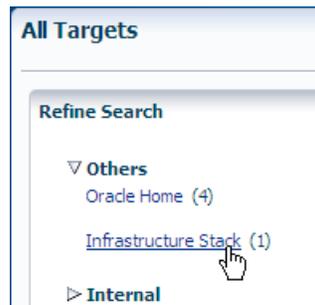
## Verify and Validate the Plug-in

In Oracle Enterprise Manager Cloud Control, you can launch the Oracle Enterprise Manager Ops Center home page from the Infrastructure Stack target home page. If correctly configured, the page appears for the operating system that is associated with the target.

After waiting a few minutes for the plug-in to start collecting data, use the following steps to verify and validate that Enterprise Manager is properly monitoring the plug-in target:

1. Click **Targets**, then **All Targets**. Scroll down to **Others**, then click **Infrastructure Stack**.

**Figure 8 All Targets Menu**



The All Targets page is displayed and shows all available targets that are aware of the infrastructure stack and the target status.

**Figure 9 All Targets Page for the Selected Target Type**



Target Name	Target Type	Target Status	Pending Active
x4200-21-InfraStack	Infrastructure Stack	Up	

2. Verify that you can see reports by clicking **Reports**, then **Information Publisher Reports** in the **Enterprise** menu. See [Create and View Reports](#) for more information.
3. Verify that you can see configuration data by clicking **Configuration** and then **Last Collected** in the **Target** menu. If configuration data does not immediately appear, click **Refresh** in the Latest Configuration page.

## View Events, Problems and Incidents

Basic information gathered by both applications is accessible from both user consoles. For more detailed information, go to the software console that gathered the information.

### What is an Event?

An event is a discrete occurrence detected by Enterprise Manager related to one or more managed entities at a particular point in time which may indicate normal or problematic behavior. Examples of events include: database target going down,

performance threshold violation, change in application configuration files, successful completion of job execution, or job failure.

Previous versions of Enterprise Manager generated alerts for exception conditions (metric alerts). For Enterprise Manager 12c, metric alerts are a type of event, one of many different event types. This event model significantly raises the number of conditions in an IT infrastructure for which Enterprise Manager can detect and raise events.

### **What is an Incident or Problem?**

An incident is an event or a set of closely correlated events that requires immediate action to resolve. A problem is defined as a less critical set of events.

In Oracle Enterprise Manager Ops Center 12c, events are associated with Informational, Warning, or Critical incidents. A critical incident in Oracle Enterprise Manager Ops Center equals an incident in Oracle Enterprise Manager Cloud Control. Earlier versions of Oracle Enterprise Manager Ops Center use the term problem instead of incident.

[Table 2](#) shows the relationship of the terms between the applications and releases.

**Table 2 Incident Terminology**

<b>Oracle Enterprise Manager Cloud Control 12c</b>	<b>Oracle Enterprise Manager Ops Center 12c</b>	<b>Oracle Enterprise Manager Ops Control 11g Update 3</b>
Incident	Critical Incident	Critical Problem
Problem	Warning Incident	Warning Problem
Problem	Informational Incident	Informational Problem

From the Oracle Enterprise Manager Ops Center user interface, you can launch the Oracle Enterprise Manager Cloud Control console while viewing a specific asset that is being monitored by both applications. You can also launch the console from the Administration section in the Oracle Enterprise Manager Ops Center user interface.

### **Where to View Incidents or Problems?**

In Oracle Enterprise Manager Cloud Control, use the Incident Manager Console to view, manage, diagnose and resolve incidents.

In Oracle Enterprise Manager Ops Center, use the Message Center to view, manage, diagnose and resolve incidents.

Only Critical incidents or problems from Oracle Enterprise Manager Ops Center appear in the Oracle Enterprise Manager Cloud Control console. Warning incidents from Oracle Enterprise Manager Ops Center do not appear as an incident.

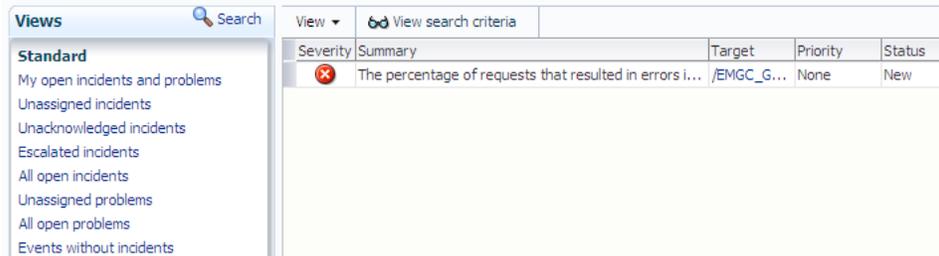
In Oracle Enterprise Manager Cloud Control, you can create a custom set of Incident Rules that defines which Incident Rule levels display in the metric alerts.

### **Viewing Open Problems and Incidents in Oracle Enterprise Manager Cloud Control**

1. From the **Enterprise** menu, click **Monitoring**, then click **Incident Manager**.

The Incident Manager page is displayed.

**Figure 10 Incident Manager**



The screenshot shows the Incident Manager interface. On the left, there is a 'Views' sidebar with a search icon and a list of filters: Standard, My open incidents and problems, Unassigned incidents, Unacknowledged incidents, Escalated incidents, All open incidents, Unassigned problems, All open problems, and Events without incidents. The main area displays a table of incidents. The table has columns for Severity, Summary, Target, Priority, and Status. One incident is visible with a red 'x' icon in the Severity column, a summary about the percentage of requests resulting in errors, a target of 'EMGC\_G...', a priority of 'None', and a status of 'New'.

Severity	Summary	Target	Priority	Status
	The percentage of requests that resulted in errors i...	/EMGC_G...	None	New

2. Click a row to display tabs that contain General information, Events, My Oracle Support Knowledge, Updates, and Related Events and Incidents. General information includes Incident Details, Tracking, Metric Data, and Guided Resolution. See the *Oracle Enterprise Manager Cloud Control Administrator's Guide* for details on using and resolving incidents.
3. Click the link in the Target cell to display more details, including utilization graphs, details on incidents, and job activity. At the bottom of the page, in the Related Links section, is a link to launch the Oracle Enterprise Manager Ops Center console.

#### **To Launch the Enterprise Manager Ops Center Console From Enterprise Manager Cloud Control**

Perform the following steps to launch the Oracle Enterprise Manager Ops Center console from Oracle Enterprise Manager Cloud Control.

1. Log in to Oracle Enterprise Manager Cloud Control as SYSMAN, then navigate to the target's home page.
2. Click **Launch Ops Center console** in the Related Links section at the bottom of the page.

See the *Oracle Enterprise Manager Ops Center Feature Reference Guide* for information about monitoring.

#### **To Launch the Enterprise Manager Cloud Control Console From an Asset in Enterprise Manager Ops Center**

An asset, or target, that is being monitored by both applications has information from both software applications. While in Oracle Enterprise Manager Ops Center, you can view more details about the information gathered with Oracle Enterprise Manager Cloud Control by clicking the asset to launch the monitored target page in Oracle Enterprise Manager Cloud Control.

Perform the following steps to launch the Oracle Enterprise Manager Cloud Control console from Oracle Enterprise Manager Ops Center:

1. Log in to Enterprise Manager Ops Center.
2. Click **Assets** in the Navigation pane, expand and click an operating system that has the Oracle Enterprise Manager Cloud Control Agent installed.  
The Dashboard page is displayed.
3. Click the **Targets** Tab to view Cloud Control target information, including status alerts, and availability.

See *Oracle Enterprise Manager Ops Center Feature Guide* for information about accessing and viewing alerts generated by Oracle Enterprise Manager Cloud Control.

## To Launch the Oracle Enterprise Manager Cloud Control Console From Oracle Enterprise Manager Ops Center

To launch the Oracle Enterprise Manager Cloud Control console outside the context of a specific monitored asset, use the link in the Administration section of Oracle Enterprise Manager Ops Center. This method is useful to confirm configuration and connectivity.

Perform the following steps to launch the console from Oracle Enterprise Manager Ops Center Administration:

1. Log into Oracle Enterprise Manager Ops Center.
2. Click **Administration** in the Navigation pane.
3. Click **Cloud Control Console** in the Action pane.

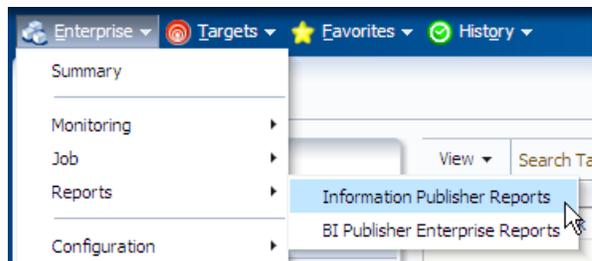
See Oracle Enterprise Manager Cloud Control Access in the Oracle Enterprise Manager Ops Center documentation for more information. See the Oracle Enterprise Manager Cloud Control documentation for details about using the software.

## Create and View Reports

With the Infrastructure Stack plug-in, the following Oracle Enterprise Manager Ops Center reports are available in the Oracle Enterprise Manager Cloud Control Information Publisher reports:

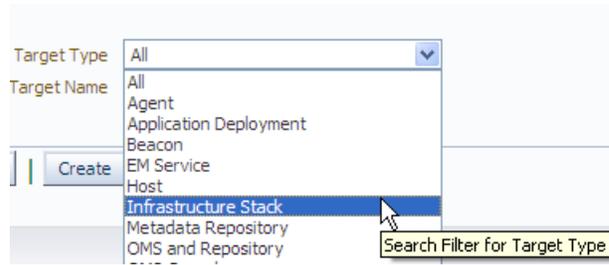
- Topology report – Provides stack layers report
  - Configuration report – Provides basic configuration of each layer within the stack
  - Hardware sensors report – Provides hardware sensors details based on the service processor, including current value and status, and thresholds
1. From the **Enterprise** menu, click **Reports**, then click **Information Publisher Reports**.

**Figure 11 Information Publisher Reports**



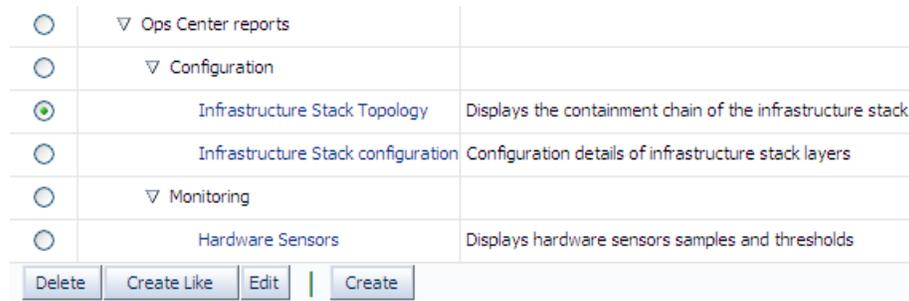
2. Select **Infrastructure Stack** from the Target Type menu, then click **Go**.

**Figure 12 Infrastructure Stack Target Type**



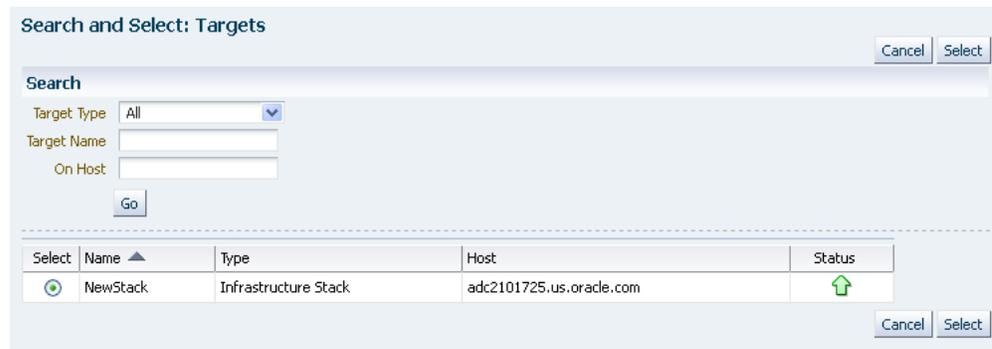
3. To run a report, click the report name, such as Infrastructure Stack Topology.

**Figure 13 Ops Center Reports**



4. Specify the target for the report in the Search and Select: Targets page.

**Figure 14 Search and Select: Targets**



5. On the Specify Target for Report page, click **Continue** to display the report. [Figure 15](#) is an example of an Infrastructure Stack Topology report.

**Figure 15 Infrastructure Stack Topology Report**

Layer	Asset Type	Asset Name	Details	Status
2	Operating System	xvbrm-x4200-21.us.oracle.com	10.79.204.133	↑
1	Server	xvbrm-x4200-21-sp.us.oracle.com	10.79.205.133	↑

To save the data in a comma separated value (CSV) format, click the icon next to the table. To print the report, click **Printable Page** and use your browser print function.

**To Create a Customized Report**

1. To define report parameters to create a customized report, scroll down to **Ops Center reports**. Select a report, such as Infrastructure Stack Topology, then click **Create**.

**Figure 16 Customized Report**

<input type="radio"/>	Ops Center reports	
<input type="radio"/>	Configuration	
<input checked="" type="radio"/>	Infrastructure Stack Topology	Displays the containment chain of the infrastructure stack
<input type="radio"/>	Infrastructure Stack configuration	Configuration details of infrastructure stack layers
<input type="radio"/>	Monitoring	
<input type="radio"/>	Hardware Sensors	Displays hardware sensors samples and thresholds

Buttons: Delete | Create Like | Edit | Create

2. Define the report parameters in the Create Report Definition page, then click **OK**.

**Figure 17 Create Report Definition Page**

\* Title

Category

Subcategory

**Targets**

Either the report viewer can select a target, or your report definition can specify the target. An element-sp

A target will be selected by the report viewer when viewing the report

Target Type

Use the specified target

Target

Leave blank if this report has no report-wide target

**Privileges**

The report can be run using the target privileges of either the report viewer or the report owner (SYSMAN), following option is checked.

Run report using target privileges of the report owner (SYSMAN)  
Not valid when "A target will be selected by the report viewer when viewing the report" is selected

**Time Period**

This report has a time period

Time Period

3. The report appears in the Reports table.

**Figure 18 Ops Center Reports Table With the New Report**

▼ Ops Center reports	
▼ Agent	
<a href="#">Ops Center Topology Report</a>	Ops Center Infrastructure Stack Topology
▼ Configuration	
<a href="#">Infrastructure Stack Topology</a>	Displays the containment chain of the infrastructure stack
<a href="#">Infrastructure Stack configuration</a>	Configuration details of infrastructure stack layers
▼ Monitoring	
<a href="#">Hardware Sensors</a>	Displays hardware sensors samples and thresholds

## Upgrade the Plug-in

New versions of the Infrastructure Stack plug-in might be released independent of the Oracle Enterprise Manager releases. You can go to the Oracle Enterprise Manager Store to download the latest version of the Infrastructure Stack plug-in.

### Things to Know About Upgrading

Available updates are visible on the Plug-ins page. You can download them from the Enterprise Manager Store or import them using the `emcli` command.

The following are some things to know about upgrading a plug-in:

- You do not need to remove the existing version of a plug-in from the Oracle Management Service (OMS) or Management Agents before upgrading to the latest version.

- Upgrading a plug-in to a new version does not remove the content of the older plug-in.
- You can import multiple versions of the same plug-in. However, you can only deploy one version on the OMS at any given time.
- A Management Agent cannot have a later version of the plug-in than the OMS.
- Upgrading a plug-in to a new version does not remove the content of the older plug-in.
- You cannot downgrade to an earlier version.

#### To Upgrade the Plug-in

1. Log into Enterprise Manager Cloud Control as a Super Administrator (SYSMAN).
2. Download the plug-in from the Enterprise Manager Store.
3. Deploy the plug-in to the OMS.

You can only deploy one version on the Manager Servers at any given time. The plug-in is automatically updated on the Management Agent.

## Undeploy the Plug-in

Follow instructions provided within the Oracle Enterprise Manager documentation to remove, or un-deploy, a plug-in. At a high level, the Oracle Enterprise Manager Cloud Control administrator must do the following:

- Ensure that all Infrastructure Stack instances being monitored are removed from the agent monitoring configuration
- Un-deploy the Plug-in from all agents
- Remove the Plug-in

Removing a plug-in removes all of its metadata from the Management Repository.

1. From the Setup menu, click **Extensibility**, then click **Plug-ins**.
2. Select the row for the plug-in you want to remove to in the table.
3. Click **Undeploy From**, then click either **Management Servers** or **Management Agent**. You can then select the OMS or Management Agent you want to remove the plug-in from.
4. Confirm the plug-in removal. Enterprise Manager notifies the connected and relevant Enterprise Manager users and begins the de-configuration process.

## Disconnect Enterprise Manager Cloud Control Access

You can disconnect and unconfigure the link between the Oracle Enterprise Manager Ops Center and Cloud Control applications.

1. Log into Oracle Enterprise Manager Ops Center.
2. Click **Administration**, then click **Enterprise Manager Cloud Control**.



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**Note:** In Oracle Enterprise Manager Ops Center 11g, click **Grid Control** in the Administration section of the Navigation pane.

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3. Click **Disconnect/Unconfigure** in the Actions pane.
4. Confirm the action.

## Documentation Accessibility

For information about Oracle's commitment to accessibility, visit the Oracle Accessibility Program website at

<http://www.oracle.com/pls/topic/lookup?ctx=acc&id=docacc>.

## Access to Oracle Support

Oracle customers have access to electronic support through My Oracle Support. For information, visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=info> or visit <http://www.oracle.com/pls/topic/lookup?ctx=acc&id=trs> if you are hearing impaired.

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Oracle Enterprise Manager System Monitoring Plug-in for Oracle Enterprise Manager Ops Center, 12c Release 1 (12.1.2.0.0)  
E27091-04

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