Oracle® Enterprise Manager

Cloud Control Getting Started Guide 13*c* Release 2

E74868-02

September 2016



Oracle Enterprise Manager Cloud Control Getting Started Guide, 13c Release 2

F74868-03

Copyright © 2015, 2016, Oracle and/or its affiliates. All rights reserved.

Primary Author: Oracle Corporation

This software and related documentation are provided under a license agreement containing restrictions on use and disclosure and are protected by intellectual property laws. Except as expressly permitted in your license agreement or allowed by law, you may not use, copy, reproduce, translate, broadcast, modify, license, transmit, distribute, exhibit, perform, publish, or display any part, in any form, or by any means. Reverse engineering, disassembly, or decompilation of this software, unless required by law for interoperability, is prohibited.

The information contained herein is subject to change without notice and is not warranted to be error-free. If you find any errors, please report them to us in writing.

If this is software or related documentation that is delivered to the U.S. Government or anyone licensing it on behalf of the U.S. Government, then the following notice is applicable:

U.S. GOVERNMENT END USERS: Oracle programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, delivered to U.S. Government end users are "commercial computer software" pursuant to the applicable Federal Acquisition Regulation and agency-specific supplemental regulations. As such, use, duplication, disclosure, modification, and adaptation of the programs, including any operating system, integrated software, any programs installed on the hardware, and/or documentation, shall be subject to license terms and license restrictions applicable to the programs. No other rights are granted to the U.S. Government.

This software or hardware is developed for general use in a variety of information management applications. It is not developed or intended for use in any inherently dangerous applications, including applications that may create a risk of personal injury. If you use this software or hardware in dangerous applications, then you shall be responsible to take all appropriate fail-safe, backup, redundancy, and other measures to ensure its safe use. Oracle Corporation and its affiliates disclaim any liability for any damages caused by use of this software or hardware in dangerous applications.

Oracle and Java are registered trademarks of Oracle and/or its affiliates. Other names may be trademarks of their respective owners.

Intel and Intel Xeon are trademarks or registered trademarks of Intel Corporation. All SPARC trademarks are used under license and are trademarks or registered trademarks of SPARC International, Inc. AMD, Opteron, the AMD logo, and the AMD Opteron logo are trademarks or registered trademarks of Advanced Micro Devices. UNIX is a registered trademark of The Open Group.

This software or hardware and documentation may provide access to or information about content, products, and services from third parties. Oracle Corporation and its affiliates are not responsible for and expressly disclaim all warranties of any kind with respect to third-party content, products, and services unless otherwise set forth in an applicable agreement between you and Oracle. Oracle Corporation and its affiliates will not be responsible for any loss, costs, or damages incurred due to your access to or use of third-party content, products, or services, except as set forth in an applicable agreement between you and Oracle.

Contents

1 Getting Started

2 Installing Browser Certificates

2.1	Screenshots for Importing Browser Certificates to Google Chrome 44+	2-3
2.1.1	Screenshot for Step 1: On the Privacy error page,	2-3
2.1.2	Screenshot for Step 2: In the address bar,	2-4
2.1.3	Screenshot for Step 5: Select the root node in the	2-5
2.1.4	Screenshot for Step 13: From the browser's menu,	2-6
2.1.5	Screenshot for Step 14: On the Settings page,	2-7

- 3 Verifying and Backing Up the Encryption Key
- 4 Logging In to Enterprise Manager Cloud Control Console
- 5 Exploring the Interface
- 6 Setting Your Home Page
- 7 Creating Roles and Administrators
- 8 Configuring Auditing Framework
- 9 Setting My Oracle Support Credentials
- 10 Configuring Software Library
- 11 Configuring Self Update
- 12 Downloading Oracle Management Agent Software
- 13 Setting Up Oracle Management Service Agent Proxy
- 14 Setting Up OMS My Oracle Support Proxy
- 15 Adding Additional Oracle Management Service
- 16 Configuring Outgoing Mail Servers (SMTP Servers)
- 17 Deploying Plug-Ins
- 18 Discovering Targets
- 19 Monitoring Targets
- 20 Creating Monitoring Templates
- 21 Setting Up Administration Group Hierarchy
- 22 Setting Up Notifications
- 23 Setting Up Incident Rule Sets and Subscribing to Receive E-Mail Notifications
- 24 Setting Up Reporting Framework

Preface

Oracle Enterprise Manager Cloud Control Getting Started Guide enables you to set up and get started with Enterprise Manager Cloud Control 13c Release 2.

This preface covers the following topics:

- Audience
- Documentation Accessibility
- Related Documents
- Conventions

Audience

Oracle Enterprise Manager Cloud Control Getting Started Guide is meant for first-time users and other administrators who want to set up Enterprise Manager quickly and start using it for basic operations such as discovery and monitoring.

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 that have purchased support 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.

Related Documents

For more information, see the following books in the Enterprise Manager Cloud Control documentation library:

- Oracle Enterprise Manager Cloud Control Basic Installation Guide
- Oracle Enterprise Manager Cloud Control Advanced Installation and Configuration Guide
- Oracle Enterprise Manager Cloud Control Upgrade Guide
- Oracle Enterprise Manager Cloud Control Administrator's Guide

For the latest releases of these and other Oracle documentation, check the Oracle Technology Network at the following URL:

http://www.oracle.com/technetwork/indexes/documentation/index.html

Enterprise Manager also provides extensive online Help. Click **Help** at the top-right corner of any Cloud Control page to display the online help window.

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.

Getting Started



Super Administrator Operations

As a super administrator or designer, perform the following steps to get started with the product.

Step 1 Install Browser Verify and Certificates

Install trusted certificates to avoid any browser certification issues.

Step 2

Backup **Encryption Key**

Verify if emkey is configured properly, and back it up to a safe location.

Step 3

Log In to Enterprise Manager Console

Log in to the console using your super administrator credentials.

Step 4 **Explore the User Interface**

Take a tour of the user interface, and understand the menus and options.

Step 5

Set Up Your **Home Page**

Select any Enterprise Manager page, and set it up as your home page.

Step 6

Create Roles and Administrators

Create different roles and user accounts based on those roles.

Step 7

Configure Audit Framework

Configure the audit framework to track logins and other critical operations.

Step 8

Configure My **Oracle Support**

Configure My Oracle Support for online patching and other operations.

Step 9

Configure Software Library

Configure Software Library for storing entities, profiles, and so on.



Administrator Operations

As a normal administrator or operator, perform the following steps to get started with the product.

Step 1

Install Browser Certificates

Install trusted certificates to avoid any browser certification issues.

Step 2

Log In to Enterprise Manager Console

Log in to the console using your super administrator credentials.

Step 3

Explore the User Interface

Take a tour of the user interface, and understand the menus and options.

Step 5

Set Up Your Home Page

Select any Enterprise Manager page, and set it up as your home page.

Step 6

Discover **Targets** Scan your

network and discover hosts and targets running on those hosts.

Step 7

Monitor **Targets**

Promote and monitor the discovered targets.

Step 10	Step 11	Step 12
Configure Self Update	Download Agent Software	Deploy Plug-Ins
Configure Self Update for automatically downloading software, software updates, plug-ins, and so on from My Oracle Support.	Download the Management Agent software for platforms other than the one on which OMS is running.	Download plug-ins and deploy them on the OMS so that you can discover and monitor targets in your network.
Step 13	Step 14	Step 15
Discover Targets Scan your network and discover hosts and targets running on those hosts.	Monitor Targets Promote and monitor the discovered targets.	Create Monitoring Templates Specify monitoring settings once and apply them to all monitored targets.
Step 16	Step 17	Step 18
Set Up Administration Group Hierarchy Create an administration group hierarchy so that the monitored targets can be logically grouped, and the monitoring templates can be applied globally	Set Up Notifications Set up e-mail servers, e-mail addresses, and notification schedule for e-mail notifications.	Set Up and Subscribe to Incident Rule Sets Set up incident rule sets and subscribe to them for e-mail notifications.
Step 19		
Set Up Reporting Framework		
Set up Business Intelligence (BI) Publisher to create custom report based on		

Installing Browser Certificates



When you connect to Enterprise Manager via HTTPS, the OMS presents your browser with a certificate to verify the identity of the OMS. This certificate has been verified by a third party that your computer trusts. When a Web browser encounters an untrusted certificate, it generates security alert messages. The security alert dialog boxes appear because Enterprise Manager Framework Security is enabled, but you have not secured your Web tier properly. Oracle requires that you import these browser certificates to the browser's list of trusted root certificates to eliminate the certificate security alerts in future browser sessions.

Import to Microsoft Internet Explorer Version 11		Import to Mozilla Firefox Version 28.0			Importing to Google Chrome Version 44+		
1.	On the error page, click the certificate error icon (a red-colored shield with a cross mark on it) that appears in the address bar.	1.	On the Untrusted Connection page, click I Understand the Risks.	1.	On the Privacy error page, click Advanced. Then click Proceed to <host_ name=""> (unsafe).</host_>		
2.	In the pop-up, click View	2.	Click Add Exception.	_	Screenshot?		
3.	certificates. In the Certificate dialog, click the Certification Path tab.	3.	In the Add Security Exception dialog, ensure that Permanently store this exception option is selected.	2.	In the address bar of the Enterprise Manager Cloud Control Login page, click the red cross mark on the lock icon next to https.		
4.	Select the first entry in the list of	4.	Click Confirm Security		Screenshot?		
5.	certification paths. Click View Certificate.		Exception.	3.	In the pop-up, in the Connection tab, click Certificate Information .		
6.	In the second Certificate dialog, click the Details tab.			4.	In the Certificate dialog, click the Certification Path tab.		
7.	Click Copy to File.			5.	Select the root node in the list of		
8.	In the Certificate Export Wizard,				certificate paths.		
	accept the default settings, enter a meaning certificate name to export it				Screenshot? Click View Certificate.		
	to your local system, and click Finish. Now the certificate is			6. 7.	In the second Certificate dialog, click the		
	exported successfully.				Details tab.		
9.	In the Certificate Export Wizard			8.	Click Copy to File.		
10.	success message, click OK . In the second Certificate dialog, click OK .			9.	In the Certificate Export Wizard, accept the default settings, enter a meaningful certificate name to export it to your local system, and click Finish . Now the		
11.	In the first Certificate dialog, click OK .				certificate is exported successfully.		
12.	From the browser's menu, select Settings, then select Internet			10.	In the Certificate Export Wizard success message, click OK .		
12	Options. In the Internet Options dialog, click			11.	In the second Certificate dialog, click OK .		
10.	the Content tab.			12.	In the first Certificate dialog, click OK .		
14.	In the Certificates section, click Certificates.			13.	From the browser's menu, select Settings.		
15.	In the Certificates dialog, click the				Screenshot?		
	Trusted Root Certification Authorities tab.			14.	On the Settings page, in the top-right Search settings field, enter		
16.	Click Import.				Certificates. Screenshot?		
17.	In the Certificate Import Wizard, accept the default settings, select the certificate you exported in Step (8),			15.	In the HTTPS/SSL section, click Manage certificates.		
18.	and click Finish. In the Security Warning message,			16.	In the Certificate dialog, click the Trusted Root Certification Authorities		
19.	click Yes. In the Certificate Import Wizard				tab.		
	success message, click OK .			17.	Click Import		
20. 21.	In the Certificates dialog, click Close. In the Internet Options dialog, click			18.	In the Certificate Import Wizard, click Next , then select the certificate you exported in Step (9), accept the default settings, and then click Finish .		
	OK.			19.			
22.	Restart the browser.			20.			
				21.	In the Certificates dialog, click Close.		
				22.	Restart the browser.		
				23.	Now when you navigate to the Enterprise Manager Cloud Control Login page, you should see a green lock icon next to https in the address bar.		



Perform Additional Tasks

How to Respond to Internet Explorer Security Alert Dialog



Perform Additional Tasks

How to Respond to Mozilla Firefox New Site Certificate Dialog Box?



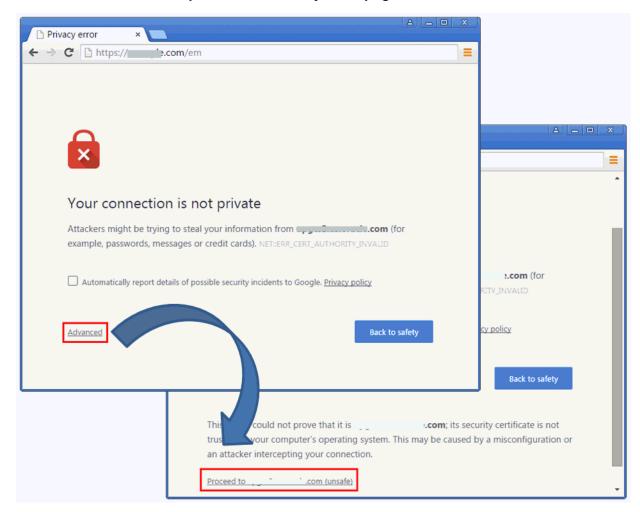
Perform Additional Tasks

How to Respond to Safari Security Dialog Box?

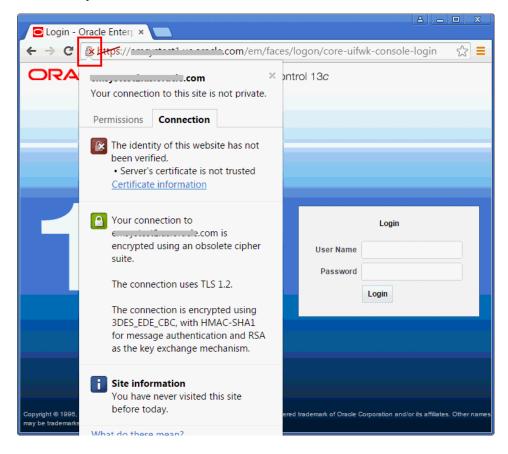
2.1 Screenshots for Importing Browser Certificates to Google Chrome 44+

The section provides the screenshots to support the steps listed for importing browser certificates to Google Chrome 44+. Note that the screenshots are provided only for complex steps or steps that are not very intuitive and that require a screenshot to help you understand better.

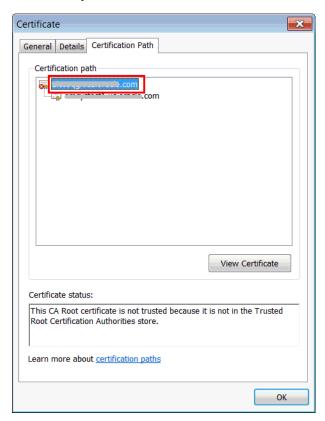
2.1.1 Screenshot for Step 1: On the Privacy error page, . . .



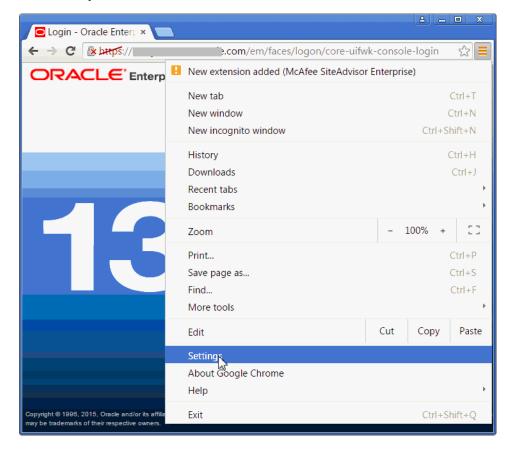
2.1.2 Screenshot for Step 2: In the address bar, . . .



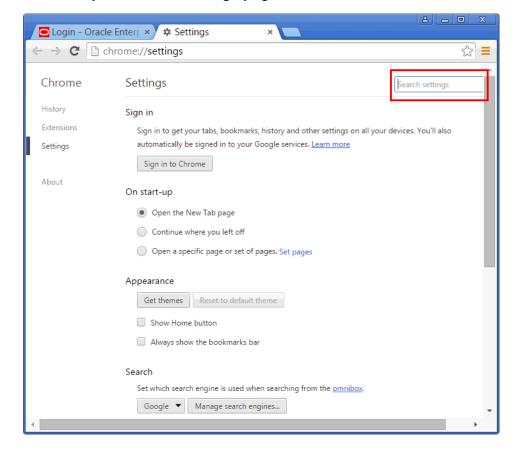
2.1.3 Screenshot for Step 5: Select the root node in the . . .



2.1.4 Screenshot for Step 13: From the browser's menu, . . .



2.1.5 Screenshot for Step 14: On the Settings page, . . .



Screenshots f	for I	mporting	Browser	Certificates	to	Google	Chrome	44+
	01 1	miporting	DIOWSCI	Continuates	w	acogic	OHIOHIC	TT 1

Verifying and Backing Up the Encryption Key



Enterprise Manager uses an encryption key called emkey (or emkey.ora file) to encrypt and decrypt sensitive data, such as passwords and preferred credentials, which are stored in the Management Repository. The emkey is originally stored in the Management Repository, but is removed from there and copied to the Credential Store at the time of installation. Verify that the emkey is configured properly, and also back it up to a host different from the OMS host.

Step 1: Verify the emkey Configuration

Verify if the *emkey* is configured properly. To do so, run the following command:

\$<OMS_HOME>/bin/emctl status emkey

If it is configured properly, you will see the following

Oracle Enterprise Manager 12c Release 5 Cloud Control

Copyright (c) 1996, 2015 Oracle Corporation. All rights reserved.

The EMKey is configured properly.

If it is configured properly, but not secure, then secure it. To do so, run the following command:

\$<OMS_HOME>/bin/emctl config emkey -remove_from_ repos

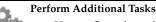
Step 2: Back Up the emkey Configuration

- Enterprise Manager automatically creates a backup of the emkey in the following location. Navigate to this location.
 - \$<OMS_HOME>/sysman/config/emkey.ora
- Copy the file to a host different from the OMS host.



Learn More

- What Are the Different Types of Security Threats?
- What Are the Basic Principles for Securing Your Environment?
- What Type of Security is Provided in Enterprise Manager?



- How to Copy the emkey from the Repository to the Credential Store?
- How to Copy the emkey from the Credential Store to the Repository?
- How to Copy the emkey from the Credential Store to a Specified File?



Perform Additional Tasks

- How to Copy the emkey from the Repository to a Specified File?
- How to Copy the emkey from a Specified File to the Credential Store?
- How to Copy the emkey from a Specified File to the Repository?
- How to Remove the emkey from the Repository?

Logging In to Enterprise Manager Cloud Control Console



When you install Enterprise Manager Cloud Control, an administrator account with the user name sysman is created by default with the password you provided for it at the time of installation. Use this user name and password to log in to Enterprise Manager Cloud Control Console.

Step 1: Identify the Console Port

By default, the Enterprise Manager Cloud Control Console is secure. Therefore, the default console port that is assigned automatically by the installer at the time of installation is the first available free port from the range 7799 - 7809. However, you might have entered a custom port at the time of installation to overwrite the default port. You need this console port to access the Enterprise Manager Cloud Control Console.

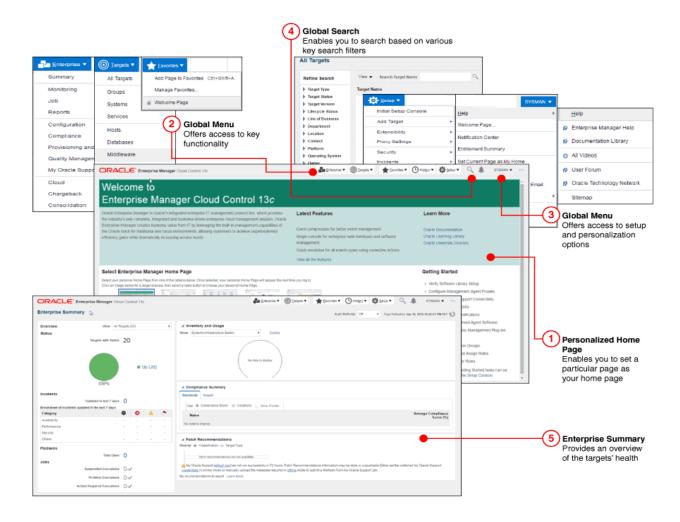
To identify the console port assigned to the Enterprise Manager 2. Cloud Control Console, run the following command:

\$<OMS_HOME>/bin/emctl status oms -details

Step 2: Log In to Enterprise Manager Cloud Control Console

- Open a browser, and access the Enterprise Manager Cloud Control Console using the following URL format:
 - https://<oms_host_name>:<console_port>/em
 - Ensure that the OMS host name is a fully qualified name, and the console port is the port you identified in the previous step.
- On the Login screen, enter the user name sysman, and the password you provided for this user account at the time of installation, and click Login.
- If you see an agreement page, click I Accept.

Exploring the Interface



Setting Your Home Page



Home page is the first, landing page you see when you log in to the Enterprise Manager Cloud Control Console. When you log in the first time after installing the product, by default, the Select Enterprise Manager Home Page page appears. You can select another page and set that as your Home page based on your on your job profile or role. This helps as it displays a page with information of your choice and interest immediately after you log in, thus saving your effort and time in navigating to that page from the menu.

Setting Your Home Page

To set a page as your Home page, decide on a page that suits your requirement based on your job profile or role, and click **Select** As My Home.

Once selected, your personal Home page appears immediately after logging in or by clicking the product logo on the top-left corner of any page within the Enterprise Manager Cloud Control Console.

If none of the pages listed on this Select Enterprise Manager Home Page page match your requirements, then navigate to the desired page, and then from the user name menu that appears in the top-right corner of the desired page, select Set Current Page as My Home.

Creating Roles and Administrators



An administrator is an authorized user who logs in and uses Enterprise Manager. A role is a collection of Enterprise Manager resource privileges, or target privileges, or both, which are granted to administrators or to other roles. Roles can be based upon geographic location (for example, a role for Canadian administrators to manage Canadian systems), line of business (for example, a role for administrators of the human resource systems or the sales systems), or any other model. By default, when you install Enterprise Manager, the SYSMAN user account (super administrator) is created. Use this super administrator account to create roles and administrators for your organization.

Step 1: Create Roles

- From the **Setup** menu, click **Initial Setup Console**.
- On the Initial Setup Console page, in the left panel, click Create Roles.
- On the Create Roles page, collapse the Top 5 Administrators with the Highest Number of Roles section and the Roles with the Highest Number of Nested Roles section to see the following text below the section. Click here.

Enterprise Manager Roles can be managed from here

- On the Roles page, click **Create**.
 - Enterprise Manager Cloud Control displays the Create Role Wizard.
- In the Create Role Wizard, on the Properties page, enter a unique name for the role, and click Next.
- On the Roles page, from the Available Roles list, select the Oracle-defined roles you want to grant explicitly to the role you are creating, and click Next.
 - Explicitly granting roles to an already existing role grants all privileges to grantee of current role.
- On the Target Privileges page, select the privileges common to all targets and the privileges specific to certain targets, which you want to grant explicitly to the role you are creating, and click Next.
- On the Resource Privileges page, select the resource privileges you want to grant explicitly to the role you are creating, and click Next.
- On the Administrators page, select the administrator you want to grant this role to, click Next.
- 10. On the Review page, click Finish.

Step 2: Create Administrators

- From the **Setup** menu, select **Initial Setup Console**.
- On the Initial Setup Console page, click **Create Users**.
- On the Create Users page, in the Enterprise Manager Super Administrators section, view a list of super administrators created so far in the Enterprise Manager system, and their last authenticated time.
- Collapse the Enterprise Manager Super Administrators section to see the following text below the section. Click

Enterprise Manager Administrators can be managed from here

- On the Administrators page, click **Create**.
 - Enterprise Manager Cloud Control displays the Create Administrator Wizard.
- In the Create Administrator Wizard, on the Authentication page, select the authentication mechanism to be used for the user you are creating, and click Next.
- On the Properties page, provide details of the user you are creating, and click Next.
- On the Roles page, from the Available Roles list, select the roles you want to grant explicitly to the user you are creating, and click Next.
- On the Target Privileges page, select the privileges you want to grant to the user you are creating, and click Next. These privileges give the user the right to perform particular management actions on a set of targets.
- On the Resource Privileges page, select the resource privileges you want to grant explicitly to the user you are creating, and click Next.
- 11. On the Review page, click Finish.



Learn More

- What Are the Different Classes of Users in Enterprise Manager?
- What Are Privileges and Roles?
- What Roles Can You Create for Different Job Responsibilities?



Learn More

- What Target Privileges Are Supported for All Types of Targets?
- What Target Privileges Are Supported for Specific Types of Targets?



Learn More

- What Privileges Are Supported for Resources?
- What Out-of-the-Box Roles Are Provided?

Configuring Auditing Framework



All operations performed by Enterprise Manager users such as creating users, granting privileges, starting a remote job, must be recorded and audited to ensure compliance with the Sarbanes-Oxley Act of 2002 (SAS 70). This act defines standards an auditor must use to assess the contracted internal controls of a service organization. Enable the auditing framework in Enterprise Manager so that all operations performed on credentials are recorded.

Step 1: Enable Auditing	Step 2: Update Audit Settings		
Run the following command:	Run the following command:		
emcli enable_audit	<pre>emcli update_audit_settings -audit_switch="ENABLE"</pre>		
For example,	-operations_to_enable="ALL"		
emcli enable_audit	<pre>-externalization_switch="ENABLE" -directory="<directory_to_archive_audit_data_files>" -file_size="<file_size_in_bytes>" -data_retention_period="data_retention_period_in_days"</file_size_in_bytes></directory_to_archive_audit_data_files></pre>		
	For example,		
	<pre>emcli update_audit_settings -audit_switch="ENABLE" -operations_to_enable="ALL" -externalization_switch="ENABLE" -directory="u01/Oracle/auditdata" -file_size="10000" -data_retention_period="60"</pre>		



Learn More

Why Enable Auditing?



Perform Additional Tasks

- How to Search the Audit
- How to View a List of Supported Audit Operations?



Perform Additional Tasks

- How to Access the Audit Data Page?
- How to Configure the Audit Data Export Service?

Setting My Oracle Support Credentials



My Oracle Support connectivity enables you to view service request information, obtain patch recommendations, and download plug-ins and other entities to the Software Library, all from within the Enterprise Manager Cloud Control Console. To automatically sign in to My Oracle Support from within the Enterprise Manager Cloud Control Console, you must register the My Oracle Support credentials with Enterprise Manager Cloud Control. If you have already registered the My Oracle Support credentials, then this setup task appears as if it is complete.

Configure My Oracle Support

- From the Setup menu, click Initial Setup Console.
- On the Initial Setup Console page, in the left panel, click Set MOS Credentials.
- 3. On the Set MOS Credentials page, click here.
- On the My Oracle Support page, enter the My Oracle Support credentials.
- Click Apply.



Learn More

What Are the Benefits of Using My Oracle Support?



Perform Additional Tasks

How Do I Patch Software Deployments?



Perform Additional Tasks

How Do I Access the Enterprise Manager Certification Matrix from My Oracle Support?

Configuring Software Library



Oracle Software Library (Software Library) is a feature within Enterprise Manager Cloud Control that acts as a repository to store software entities such as software patches, virtual appliance images, reference gold images, application software, and their associated directive scripts. In addition to storing the software entities, Software Library also maintains their versions, maturity levels, and states. Configure Software Library so that you can use it for operations such as provisioning, patching, and so on.

Configure Software Library

- From the Setup menu, select Initial Setup Console.
- On the Initial Setup Console page, in the left panel, click OMS Agent Proxy Setting.
- Follow Step (3) to Step (6) as outlined in Oracle Enterprise Manager Cloud Control Advanced Installation and Configuration



Learn More

- What Is a Software Library and Why Do I Need It?
- Who Accesses the Software Library?
- What Privileges Are Required for Accessing the Software Library?
- What Storage Types Are Supported?
- What Are the Prerequisites for Setting Up the Software Library?
- What Are Entities?



Perform Additional Tasks

- How Do You Configure an OMS Shared File System
- How Do You Configure an OMS Agent Filesystem Location?
- How Do You Configure a Referenced File Location?
- How Do You Organize, Create, Customize, and Manage Entities?



Perform Additional Tasks

- How Do You Maintain the Software Library?
- How Do You Remove (and Migrate) a Software Library Storage Location?
- How Do You Purge Deleted **Entity Files?**

Configuring Self Update



Self Update is a feature available via the Self Update Console, a common dashboard used to obtain information about new updates and a common workflow to review, download and apply the updates. The Self Update Console frees you from having to monitor multiple channels to get informed about new updates that are available from Oracle. The Self Update Console automatically informs you whenever new updates are made available by Oracle. Only those updates that are applicable to your site are shown, eliminating the need to wade through unrelated updates. For example, you can periodically check the availability of plug-ins and download them from the Enterprise Manager Store, via the Self Update Console. Configure Self Update so that you check the availability of new updates released by Oracle, and download and apply them

Step 1: Enable Online Mode		Step 2: Register My Oracle Support Credentials	Step 3: Configure Software Library	
1.	From the Setup menu, select Extensibility , then select Self Update .	See Setting My Oracle Support Credentials	See Configuring Software Library	
2.	In the Status section, click the value set for Connection Mode .			
3.	Select Online.			



Learn More

- What Can Be Viewed, Downloaded, and Updated via the Self Update Console?
- What Privileges Are Required for Accessing the Self Update feature?



Perform Additional Tasks

- How Do I Assign Self Update Privileges to Administrators?
- How Do Apply the Updates Offline?



Perform Additional Tasks

- How Do I Access Informational Updates?
- How Do I Acquire or Update Management Agent Software via Self Update Console?

Downloading Oracle Management Agent Software



Oracle Management Agent (Management Agent) is one of the core components of Enterprise Manager Cloud Control that enables you to convert an unmanaged host to a managed host in the Enterprise Manager system. The Management Agent works in conjunction with the plug-ins to monitor the targets running on that managed host. By default, the OMS contains the Management Agent software for the operating system on which the OMS is running. However, for all other operating systems, you must manually download the Management Agent software via the Self Update Console.

Step	1:	Configure	е
Self I	IIn	date	

Step 2: Download Management Agent Software

See Configuring Self Update

- From the Setup menu, select Extensibility, then select Self Update.
- In the table, click the entity type **Agent Software**.
- On the Agent Software Updates page, select an update, and click 3. Download.

All entries other than the one which matches the platform of the OMS host should show their status as Available.

The Download button is enabled only in the following cases:

- You must have the privilege to download and apply in Self Update Console.
- You must have selected at least one Management Agent software row in the table, and the Management Agent software must be in Available or Download Failed status.
- You must have configured the Software Library.
- You must have configured the Self Update staging area.
- You must have enabled the online mode for Self Update and set the My Oracle Support credentials.
- In the Schedule Download dialog, schedule the download activity, and click Select.

Step 3: Stage Management Agent to Software Library

- From the **Setup** menu, select Extensibility, then select Self Update.
- In the table, click the entity type **Agent Software**.
- On the Agent Software Updates page, select the downloaded Management Agent software, and click Apply.



Learn More

Where Does Management Agent Feature in the Enterprise Manager Architecture?



Perform Additional Tasks

How Do I Download the Management Agent Software in Offline Mode?



Perform Additional Tasks

Perform Additional Tasks
How Do I Manually Install a Management Agent Using the Add Host Targets Wizard?

Setting Up Oracle Management Service Agent Proxy



You can secure the communication between Oracle Management Service (OMS) and Oracle Management Agents (Management Agents) by configuring a proxy. A proxy is an application external to Enterprise Manager Cloud Control that acts as an intermediary for managing HTTP as well as HTTPS requests across network boundaries or firewalls. By using a proxy, you can expose only certain ports for communication, and thereby have a more secure and reliable communication between the OMS and the Management Agents.

You can configure one proxy for all Management Agents, one proxy for a set of Management Agents and none for the rest, or different proxies for different sets of Management Agents.

In addition, you can configure two or more proxies as redundant proxies to support high availability of the proxies configured for OMS and Management Agent communication. Under such circumstances, by default, the proxy that is up and running is selected for communication, regardless of the status of the other proxies. Before starting to communicate if a proxy is found to be inactive or down, then an alternate proxy configured for that Management Agent is selected. However, note that after the communication begins through a particular proxy, if that proxy turns inactive or shuts down, then no fallback mechanism is currently available to select an alternate proxy that is up and running.

Note:

- NTLM-based Microsoft proxies are not supported. To enable access through such proxies, add all the available agent hosts to the *Unauthenticated Sites Properties* of the NTLM-based Microsoft proxy.
- Local addresses of each OMS automatically bypass the proxy.

Configure Proxy

- From the **Setup** menu, select **Initial Setup Console**.
- On the Initial Setup Console page, in the left panel, click OMS Agent Proxy Setting.
- Follow Step (3) to Step (6) as outlined in Oracle Enterprise Manager Cloud Control Advanced Installation and Configuration Guide

Setting Up OMS My Oracle Support Proxy



Oracle Management Service (OMS) uses the Internet connectivity on its host to connect to My Oracle Support periodically to download patches, patch sets, patch recommendations, and Automated Release Updates (ARU) seed data. By default, Enterprise Manager Cloud Control assumes that there is no proxy configured between the OMS and My Oracle Support. However, to secure the communication, you can add a proxy between the two entities.

If you have already configured a proxy, then this setup task appears as if it is complete.

Set Up OMS My Oracle Support Proxy

- From the Setup menu, select Initial Setup Console.
- On the Initial Setup Console page, in the left panel, click My Oracle Support.
- Follow Step (2) to Step (7) as outlined in Oracle Enterprise Manager Cloud Control Advanced Installation and Configuration Guide

Adding Additional Oracle Management Service

u install Enterprise Manager Cloud Control, by default, the installer installs one Oracle Management ce along with one Oracle Management Agent. While this default configuration suits smaller ypically in larger production environments, you might require additional OMS instances to ce the load on a single Oracle Management Service, improve the efficiency of the data flow, and offer y of your Enterprise Manager system.

ady added an additional OMS, then this setup task appears as if it is complete.

Step 1: Review the Important Facts	Step 2: Meet the Prerequisites		Step 3: Add Oracle Management Service		
Before you begin adding an additional Oracle Management Service, review the important facts as described in <i>Oracle</i>	Meet the prerequisites for an additional Oracle Management Service as described in Oracle Enterprise Manager Cloud Control Basic Installation Guide.	1.	From the Setup menu, click Initial Setup Console .		
		2.	On the Initial Setup Console page, in the left panel, click Add Oracle Management Service.		
Enterprise Manager Cloud Control Basic Installation Guide.		3.	On the Add Management Service Getting Started page, complete the preinstallation tasks listed there. Once you are done, select each of the tasks you have complete, and then, click Next .		
		4.	Follow Step (4) to Step (7) as outlined in <i>Oracle Enterprise</i> Manager Cloud Control Basic Installation Guide.		
		5.	After adding the additional Oracle Management Service, perform the postinstallation tasks as described in <i>Oracle Enterprise Manager Cloud Control Basic Installation Guide</i> .		

Configuring Outgoing Mail Servers (SMTP Servers)



Notifications keep you informed when specific incidents, events, or problems arise, and thereby enable you to take corrective or preventive actions to circumvent the reported issue. Enterprise Manager uses different mechanisms for sending these notifications, including email, SNMP traps, or running custom scripts, or all three. Before Enterprise Manager Cloud Control can send e-mail notifications, you must set up the outgoing mail servers (SMTP servers).

If you have already configured the SMTP servers, then this setup task appears as if it is complete.

Configure Outgoing Mail Servers

- From the Setup menu, click Initial Setup Console.
- On the Initial Setup Console page, in the left panel, click Configure Mail Servers.
- On the Configure Mail Servers page, in the Sender Identify section, click Edit.
- In the Sender Identify dialog, enter the name of the administrator or system that should send the email notifications, and the email address from which the notifications should be sent. Click OK.
- In the Outgoing Mail (SMTP) Servers section, click Create. 5.
- In the Outgoing Mail (SMTP) Servers dialog, enter the mail server host name, the mail server credentials, and the encryption method to be used. Click **OK**.
 - If you configure multiple outgoing mail servers, automatic failover and load balancing is performed in round robin fashion.

Deploying Plug-Ins



Plug-Ins are modules that can be plugged to an existing Enterprise Manager system to provide target management or other vertical functionality. Plug-ins offer special solutions or new features, for example, connectivity to My Oracle Support, and extend monitoring and management capability to Enterprise Manager, which enable you to monitor a particular target on a host. Plug-ins work in conjunction with the OMS and the Management Agent to offer monitoring services, and therefore they are deployed to the OMS as well as the Management Agent.

Step 1: Configure Self Update	Step 2: Check the Availability of Plug-Ins		Step 3: Download Plug-Ins			Step 4: Deploy Plug-Ins to the OMS		
See Configuring Self Update	1.	From the Setup menu, select Extensibility , then select Plug-ins .	1.	From the Setup menu, select Extensibility , then select Self Update .	1.	From the Setup menu, select Extensibility , then select Plug-ins .		
	2.	the Latest Available column of the table, check whether the plug-ins are available. If they are not available, then click Check Updates to refresh the list of available plug-ins. the table, control type Plug-ins 3. In the Plug table, select available for and click E 4. In the Schedialog, schedialog, schedownload	2.	On the Self Update page, in the table, click the entity type Plug-in .	2.	On the Plug-ins page, select the plug-in you want to deploy.		
			3.	In the Plug-in Updates table, select the plug-in available for download,		From the Deploy On menu, select Management Servers.		
			and click Download . In the Schedule Download dialog, schedule the download activity, and click Select .	4.	In the Deploy Plug-in on Management Servers dialog, enter the Management Repository SYS password, and click Continue.			
						Proceed through the step in the dialog box, and then click Deploy .		



Learn More

- What Is the Extensibility Paradigm?
- Are All Plug-Ins Deployed by Default?
- How Often Are Plug-Ins Released?
- What Is the Workflow of Plug-In Deployment?
- What is Plug-In Manager?



Perform Additional Tasks

- How to Access Plug-In Manager?
- How to Check the Availability of Plug-Ins?
- How to View Information about Plug-Ins?
- How to Identify the Targets and Operating Systems Certified for Deployed Plug-Ins?
- How to Download Plug-Ins in Online Mode?
- How to Download Plug-Ins in Offline Mode?

- How to Deploy Plug-Ins to
- How to Upgrade Plug-Ins Deployed to OMS?
- How to Deploy Plug-Ins on
- How to Upgrade Plug-Ins Deployed to Agents?
- How to Undeploy Plug-Ins from Agents?
- How to Undeploy Plug-Ins from OMS?
- How to Troubleshoot Plug-In Deployment Issues?

Discovering Targets



Discovery refers to the process of *identifying* unmanaged hosts and targets in your environment. Once you discover these hosts and targets, you can promote them and add them to the Enterprise Manager system so that they can be monitored. Scan your network thoroughly, and identify the unmanaged targets you want to monitor. The steps to discover and add database, middleware, and system infrastructure targets might vary.

Step 1: Scan Your Network

From the **Setup** menu, select **Add** Target, then select Configure Auto Discovery.

- In the Configure Auto Discovery section, in the Network Scan-based Auto Discovery table, in the Configure Network Scan Discovery column, click the Configure icon.
- Click Create.

notations.

- In the Network Scans section, click Add. Select a Management Agent that can scan the network.
- Enter the IP ranges to scan. The range can contain absolute host names, IP addresses, a range of addresses, or/and Classless Inter-Domain Routing (CIDR)
- In the Schedule section, schedule the scan job to run immediately or on/at a particular date/time.
- In the Credentials section, enter the credentials of the Management Agent that you have selected for scanning the network.
- Click Save and Submit IP Scan.

Step 2: Promote and Monitor Hosts

- From the Setup menu, select Add Target, then select Auto Discovery Results.
- Click the **Host Targets** tab.
- 3. In the table, select a host, then click Promote.

The Add Host Targets wizard appears. Use this wizard to install a Management Agent on the discovered host.

Repeat Step (3) for other hosts you want to monitor.

Step 3: Discover Targets

- From the Setup menu, select Add Target, then select Configure Auto Discovery.
- In the Configure Auto Discovery section, in the Auto Discovery table, against the All Discovery Modules row, in the Configure Auto Discovery column, click the Configure icon.
- In the table, select the host whose targets you want to discover, and click Configure.
- 4. Set the frequency for the scan.
- Select the discovery modules you want to discover on the host.
- 6.
- 7. Repeat Step (3) to Step (6) for other
- Click Run Discovery Now.

The discovery job runs on the host immediately as well as at the set frequency.



Learn More

- What is Discovery?
- What is Promotion?
- What is Monitoring?
- Where Does Discovery Feature in the Lifecycle?
- What Is the High-Level Process of Workflow for Discovery and Monitoring?



Perform Additional Tasks

- How Do I Discover and Promote All Target Types?
- How Do I Discover and Promote Oracle Homes?



- How Do I Discover and Add Host and Non-Host Targets?
- How Do I Discover and Add Database Targets?
- How Do I Discover and Add Middleware Targets?
- How Do I Discover and Add System Infrastructure Targets?

Monitoring Targets



Monitoring refers to the process of gathering information and keeping track of activity, status, performance, and health of targets managed by Enterprise Manager Cloud Control on your host. A Management Agent deployed on the host in conjunction with plug-ins monitors every target in your environment. After discovering unmanaged hosts and targets in your network, promote them and add them to the Enterprise Manager system so that they can be monitored.

Step 1: Secure Management Agents

- From the **Setup** menu, click **Agents**.
- Click the Management Agent that is monitoring the host where the targets you want to promote are running.
- On the Management Agent Home page, verify if it is secure. If it is not secure, from the Agent menu, click **Secure** to secure it.

Step 2: Promote and Monitor Targets

- From the **Setup** menu, select **Add Target**, then select **Auto** Discovery Results.
- Click the Non-Host Targets tab.
- In the table, select one or more targets you want to promote, and click Promote.
- Navigate to the target home pages and verify that they have been added to the console for monitoring.



Learn More

- What is Discovery?
- What is Promotion?
- What is Monitoring?



Perform Additional Tasks

- Where Does Monitoring Feature in the Lifecycle?
- What Is the High-Level Process of Workflow for Discovery and Monitoring?



- How Do I Discover and Promote Oracle Home?
- How Do I Discover, Promote, and Add Database Targets?
- How Do I Discover, Promote, and Add Middleware Targets?

Creating Monitoring Templates



Monitoring templates let you standardize monitoring settings across your enterprise by enabling you to specify the monitoring settings once and apply them to your monitored targets. You can save, edit, and apply these templates across one or more targets or groups. A monitoring template is specified for a particular target type and can only be applied to targets of the same type. For example, you can define one monitoring template for test databases and another monitoring template for production databases. After discovering and monitoring targets, create monitoring templates so that the monitoring settings can be applied uniformly to each target type.

Create a Monitoring Template

- From the Enterprise menu, select Monitoring, then Monitoring Templates.
- 2. On the Monitoring Templates page, click Create.
- 3. Select a target or a target type whose monitoring settings you want copy to the template.
- 4. Click Continue.
- In the General tab, enter a for the monitoring template you are creating. 5.
- In the Metric Thresholds tab, select one or more metrics you want to add to the template. 6. If you want to add additional metrics, which are not listed on this page, click Add Metrics to Template. Then select a source from which you can copy metrics to the template.
- Click OK.



Learn More

- What Is a Monitoring Template?
- What Does a Monitoring Template Define?



Perform Additional Tasks

- How to View a List of Monitoring Templates?
- How to Edit a Monitoring Template?
- How to Apply a Monitoring Template to a Target?
- How to Compare Monitoring Templates with Targets?



- How to Compare Metric Settings Using Information Publisher?
- How to Export and Import Monitoring Templates?
- How to Change the Monitoring Template Apply History Retention Period?

Step 4: Associate Template

Setting Up Administration Group Hierarchy



Administration groups are a special type of group used to fully automate application of monitoring and other management settings targets upon joining the group. When a target is added to the group, Enterprise Manager applies these settings using a template collection consisting of monitoring templates, compliance standards, and cloud policies. This completely eliminates the need for administrator intervention. After discovering and monitoring targets, and after creating monitoring templates, create an administration group hierarchy so that the monitored targets can be logically grouped, and the monitoring templates can be applied globally.

Step 1: Set Target Properties to Monitored Targets		Step 2: Define a Hierarchy			p 3: Defining Template lections	Collections and Set a Synchronization Schedule		
1.	Access the Home page of the monitored target. From the target menu,	1.	From the Setup menu, select Add Target , then select Administration Groups .	1.	From the Setup menu, select Add Target , then select Administration Groups .	1.	From the Setup menu, select Add Target , then select Administration Groups .	
3.4.5.Note targe CLI prop mass information Enter.	From the target menu, select Target Setup , then select Properties . On the Target Properties page, click Edit . Set or specify values for the properties of interest. Click OK . The For large numbers of gets, it is best to use the EM verb set_target_perty_value to perform a supdate. For more formation, see <i>Oracle erprise Manager Command et Interface Guide</i> .	2. 3. 4. 5.	Groups. On the Administration Groups and Template Collections page, click the Hierarchy tab. In the Hierarchy Levels table, click Add. Select one of the available target properties. Repeat this step until you have added all target properties of interest. In the Hierarchy Levels table, click on one of the newly added property. In the Hierarchy Nodes table, if the property values to do appear by default, click Add. Click OK. Repeat Step (4) to Step (6) until all the newly added properties have been provided with a value. Click on the group name, and set the time zone for	3.4.5.7.	Groups. On the Administration Groups and Template Collections page, click the Template Collections tab. Click Create. On the Create Template Collection page, provide a template collection page, provide a template collection name. In the Monitoring Template subtab, click Add and select a monitoring template you want to apply. (Optional) In the Compliance Standard subtab, click Add and select a compliance standard you want to apply. (Optional) In the Cloud Policies subtab, click Add and select the cloud policy you want to apply.	 3. 4. 6. 7. 	select Administration Groups. On the Administration Groups and Template Collections page, click the Associations tab. Select the administration group at the highest level in the hierarchy, and click Associate Template Collection. Choose the desired template collection and click Select. All sub-nodes in the hierarchy will automatically inherit the selected template collection. Click Synchronization Schedule. In the Synchronization Schedule dialog, click Edit. Set a suitable schedule for the administration group changes to be applied to targets.	
		9.	the group. Click Create.	8. 9.	Click Save. Repeat Step (2) to Step (8) if you want to create additional template collections.	8.	Click Save.	



Learn More

- What Is an Administration Group?
- What Privileges Are Required for Developing an Administration Group?



- How to Plan for Creating Administration Groups?
- How to Remove Administration Groups?

Setting Up Notifications



The notification system notifies you when specific incidents, events, or problems arise. All Enterprise Manager administrators can set up e-mail notifications for themselves. Super Administrators also have the ability to set up notifications for other Enterprise Manager administrators. Set up the mail server, define e-mail addresses to be used, and set up a notification schedule so that you can be notified.

Step 1: Set Up a Mail Server

From the **Setup** menu, select Notifications, then select Notification Methods.

- On the Notification Methods page, in the Mail Server section, enter one or more outgoing mail server
- Enter the mail server authentication
- Enter the name you want to see displayed as the sender of the notification messages.
- Enter the e-mail address you want to use to send your e-mail notifications.
- Click Test Mail Servers. Verify if an e-mail was sent to the e-mail account entered in the Sender's E-mail Address field.
- Click Apply.

Step 2: Define E-mail Addresses

- From the username menu, in the top-right corner of the console, select Enterprise Manager Password & E-mail.
- On the Enterprise Manager Password & Email page, in the E-Mail Addresses section, click **Add** Another Row.
- Enter an e-mail address associated with your Enterprise Can contain up to 128 characters
- Click Apply.
- Repeat the steps to add additional e-mail addresses where notifications must be sent.

Step 3: Set Up a Notification Schedule

- From the **Setup** menu, select Notifications, then select My Notification Schedule.
- On the Notification Schedule page, click Edit Schedule Definition.
- On the Time Period page, edit the rotation frequency, and click Continue.
- On the E-Mail Addresses page, modify the e-mail addresses where the notifications must be sent at the set frequency.
- Click Finish.
- (Optional) On the Notification Schedule page, click the search icon (magnifying glass) and select another administrator. Click Change.
- (Optional) Repeat Step (2) to Step
- (Optional) Repeat Step (6) and Step (7) for all other administrators.



Perform Additional Tasks

- How Do I Set Up E-mail Notifications for Other Administrators?
- How Do I Customize E-Mail Formats?
- How Do I Set Up Repeat Notifications?

Perform Additional Tasks

- How Do I Send SNMP Traps to Third Party Systems?
- How Do I Send Notifications Using OS Commands and Scripts?
- How Do I Send Notifications Using PL/SQL Procedures?



Perform Additional Tasks

How Do I Troubleshoot Notifications?

Setting Up Incident Rule Sets and Subscribing to Receive E-Mail Notifications



An incident rule instructs Enterprise Manager to take specific actions when incidents, events, or problems occur, such as performing notifications. An *incident rule set* is a collection of *rules* that apply to a common set of objects such as targets (hosts, databases, groups), jobs, metric extensions, or self updates, and take appropriate actions when there are events and incidents. An event is a significant occurrence of interest on a target that has been detected by Enterprise Manager. An incident is a set of significant events or combination of related events that pertain to the same issue. Create your incident rule sets and subscribe to them so that you are notified every time there is an event or incident.

Step 1: Create and Subscribe to Custom Incident Rules

Step 2: Subscribe to Out-of-Box Incident Rules

- From the Setup menu, select Incidents, then select Incident Rules.
- 2. From the Actions menu, select Create Rule Set.
- 3. Enter a name and description for the rule set.
- In the Targets tab, select the targets to which the rules set should apply.
- 5. In the Rules tab, click Create.
- Select Incoming events and updates to events, and click 6. Continue.
- On the Select Events page, set the criteria for events based on which the rule should act. Click Next.
- On the Add Actions page, click Add and add actions to be taken by the rule. In the Notifications section, enter the e-mail addresses where the notifications must be send. Click Next.
 - Multiple conditional actions can be specified and evaluated sequentially (top down) in the order you add
- On the Specify Name and Description page, enter a name and description for the rule. Click Next.
- On the review page, review the details, and click Continue.
- 11. On the Create Rule Set page, click Save.

- From the Setup menu, select Incidents, then select Incident Rules.
- On the Incident Rules All Rules page, in the table, select the rule set to which you want to subscribe.
- From the Actions menu, select E-Mail, then select Subscribe Me.



Perform Additional Tasks

- What Are Events?
- What Are Incidents?
- What Are Problems?
- What Are the Out-of-Box Rule Sets?
- What Are the Types of Rule Sets?
- What Is an Incident Manager?
- What Are the Guidelines for Creating Rule Sets?

Perform Additional Tasks

- How to Create a Rule to Manage Escalation of Incidents?
- How to Create a Rule to Escalate a Problem?
- How to Receive E-mails for Private Rules?
- How to Search Incidents?
- How to Set Up Custom Views?

- How to Respond and Work on a Simple Incident?
- How to Respond to and Manage Multiple Incidents, Events and Problems in Bulk?
- How to Suppress Incidents and Problems?
- How to Review Events Periodically?

Setting Up Reporting Framework



Oracle Business Intelligence Publisher (BI Publisher) is Oracle's primary reporting tool for authoring, managing, and delivering all your highly formatted documents. Set up the reporting framework using BI Publisher so that you can generate high-quality reports and documents, with pagination and headers / footers, and in formats such as PDF, Excel, Powerpoint, Word, and HTML.

Step 1: Download BI Publisher Step 2: Back Up the 11.1.1.6.0 OMS and the Domain		Step 3: Install BI Publisher			p 4: Integrate with erprise Manager	Step 5: Verify the Integration		
Download the software from the	1.	described in Oracle Enterprise Manager Cloud Control Administrator's Guide.	1.	Run the BI Publisher installer:	1.	Run the configureBIP	1.	From the Enterprise menu, select Reports, then select BI Publisher Enterprise Reports.
Oracle Enterprise Manager Downloads page. (Search for the product			2.	(Optional) Select an e-Mail address for updates, and click Next.		<pre>script: \$<oms_ home="">/bin/config ureBIP</oms_></pre>		
title Oracle Business Intelligence Publisher 11.1.1.6.0)	2.		3.	Select Software-only Install, and click Next. After passing the prerequisite checks, click Next.	credentials who prompted. 3. Enter the HTTI and HTTPS po	Enter the necessary credentials when prompted.	2.	On the BI Publisher Enterprise
			4.			Enter the HTTP and HTTPS ports when prompted.	3.	Reports page, click the refresh icon at the top-right corner. Expand EM Sample Reports, then click Targets
			5.	Select the Middleware home of your Enterprise Manager installation.		The script identifies free ports and ask if you want to take them		
			6.	Retain the default name Oracle_BI1 as the BI Oracle home name, and click Next.		as a default. Once entered, Extend Domain then runs. The ports can be in the range 9701-49152.	4.	of Specified Type. Log in to BI Publisher using your Enterprise
			7.	(Optional) Enter the My Oracle Support credentials to be notified of any security update, and click Next .			5.	Manager credentials. Verify if you are able to see the sample report.



Learn More

- What Limitations Apply to the Use of Reports and Data
- Do I Require a Centralized Inventory File for BI Publisher?
- What Are the Hardware Requirements for Installing BI Publisher?



Perform Additional Tasks

- How Do I Authenticate and Limit Access to BI Publisher Features?
- How Do I Grant BI Publisher OPSS Application Roles to Administrators?
- How Do I Grant Access to Administrators Using the LDAP Authentication Security Model?
- How Do I Map LDAP Groups to BI Publisher OPSS Application Roles?



- How Do I Grant Access to Folders and Catalog Objects?
- How Do I Manage Enterprise Manager - BI Publisher Connection Credentials?
- How Do I Manage the BI Publisher Server?
- How Do I Configure BI Publisher with a Load Balancer?
- How Do I Troubleshoot BI Publisher-Related Issues?