

# Oracle® Enterprise Manager Ops Center

Quick Start Guide

11g Release 1 (11.1.3.0.0)

E24504-02

November 2011

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Oracle Enterprise Manager Ops Center is an enterprise-level data center automation software tool. This guide walks you through how to quickly install and configure the software for a basic monitoring setup. After it is configured, you'll be able to add assets for monitoring and edit monitoring rules to generate an alert.

For an overview of the software and features, see the Oracle Enterprise Manager Ops Center Concepts Guide.

## Get Ready

Many configurations are possible, but we've simplified it for a quick start.

You can install Oracle Enterprise Manager Ops Center on an Oracle Solaris or Linux operating system. We have a lightweight utility, called the OCDoctor, that verifies that your system meets the requirements to successfully install and run the software.

## What You'll Need

You'll need the following:

1. A system to run the software:
  - SPARC or x86 platform that is running a supported Oracle or Linux OS, such as Oracle Solaris 10 9/10 or Oracle Linux 5.5
  - 72 GB of disk space
  - 6 GB Swap Space
  - Root access
  - Make a /var/tmp/OC directory
2. One or more systems to monitor:
  - Root access to a SPARC or x86 platform that is running a recent operating system version, such as Oracle Solaris 10 or Linux 5.5
  - System should be a newer Oracle Sun server (at least 2006)
  - The ssh services are enabled on the OS and know the port number (the default is 22)
3. OCDoctor utility to test for requirements
  - See [Run the OCDoctor](#) for where to download the file.
4. The Oracle Enterprise Manager Ops Center 11g software

- See [Get the Software](#) for where to download the software bundle.

## Run the OCDoctor

The OCDoctor quickly identifies potential issues before you download and install the software. In some cases, it provides a fix.

To check the computer compatibility before downloading the software:

1. Go to <http://java.net/projects/oc-doctor> and download the OCDoctor to /var/tmp/OC on the system.
2. Unzip the file and run the utility with the --ec-prereq option.

```
./OCDoctor.sh --ec-prereq
```

```
# cd OCDoctor
# ls
AUTHORS          OCDoctor.sh      pis          tuning
CHANGELOG        agent          post-upgrade.sh  version
Debug.info        cli            pre-upgrade.sh whatisblobid
GDD              ec             prereq
LICENSE.txt      functions      proxy
Manifest.txt     howto          toolbox
# ./OCDoctor.sh --ec-prereq
```

The utility checks for conditions and returns an OK or Warning.

3. If you receive any warnings, fix them before installing the software.

For example, a warning appears if you use NIS and you already have a groupip 60 in your NIS group. To temporarily bypass, comment out the NIS entries during the installation.

```
passwd:      files # nis
group:       files # nis
```

## Get the Software

The software bundle is approximately 2.4 GB.

1. Go to <http://www.oracle.com/technetwork/oem/ops-center/oem-ops-center-188778.html>. Read and accept the license at the top of the page.
2. Download the Enterprise Controller for your OS platform.

### Enterprise Manager Ops Center 11g Release 1 (11.1.0.1536)

#### Full Installers

(Enterprise Controller and all supported Agent and Proxy Controllers) FOR New Ops Center Customers and 2.5 Ops Center Customers

#### for Solaris Operating System 10 (SPARC)

[Enterprise Controller](#) and all supported Agent and Proxy Controllers  
[Proxy Controllers](#)

#### for Solaris Operating System 10 (x86)

[Enterprise Controller](#) and all supported Agent and Proxy Controllers  
[Proxy Controllers](#) 

3. Save the bundle in /var/tmp/OC on the system and unzip it.

## Install and Configure the Software

The software is easy to install, just launch the script. Once installed, open the application in a browser and answer the configuration questions about how you want to run the software, then you're ready to start adding assets to monitor.

You'll be asked to provide a My Oracle Support (MOS) account during setup. The account is needed to register the software with Oracle, to obtain OS updates, and to file service requests through the software. We'll skip these steps because the account is not required for installation or basic monitoring. If you'd like, you can register and provide a MOS account later in the UI.

### Install

1. Go to /var/tmp/OC/xvmoc\_full\_bundle and run the install script.

```
# ./install
```

2. Press Enter to skip this step. You do not need to enter your e-mail address or My Oracle Support (MOS) credentials to register for this basic installation.

```
# cd xvmoc_full_bundle
# ls
install          Linux_i686          SunOS_i386          xvmoc_update_bundle
license          ocamsp            SunOS_sparc
# ./install
```

Proceeding with Oracle Configuration Manager installation and configuration.

Oracle Enterprise Manager Ops Center installation will follow.  
Provide your email address to be informed of security issues, install and  
initiate Oracle Configuration Manager. Easier for you if you use your My  
Oracle Support Email address/User Name.  
Visit <http://www.oracle.com/support/policies.html> for details.  
Email address/User Name:

3. A notice stating that you have not provided an e-mail address for notification of security issues appears. When asked if you want to remain uninformed of security issues, answer Y

Do you wish to remain uninformed of security issues ([Y]es, [N]o) [N]: Y

The script takes about 15 minutes to run. When completed, you'll be asked to log in to the software from a browser window. See Step 1 in [Configure](#).

Ops Center Enterprise Controller Installer  
(version 11.1.0.1536 on SunOS)

1. Check for installation prerequisites.	[Completed]
.....	
6. Install prerequisite packages.	[Completed]
7. Install application packages.	[Completed]
8. Run postinstall tasks.	[Completed]
9. Install Expect.	[Completed]
10. Install IPMI tool.	[Completed]
11. Initialize database.	[Completed]
12. Install Service container components.	[Completed]
13. Install Core Channel components.	[Completed]
14. Install Proxy Core components.	[Completed]
15. Install Enterprise Controller components.	[Completed]
16. Install Update Connection - Enterprise.	[Completed]
17. Install Ops Center BUI components.	[Completed]
18. Install OS provisioning components.	[Completed]
19. Initialize and start services.	[Completed]

Ops Center Enterprise Controller installation is complete.

Please point your browser to:

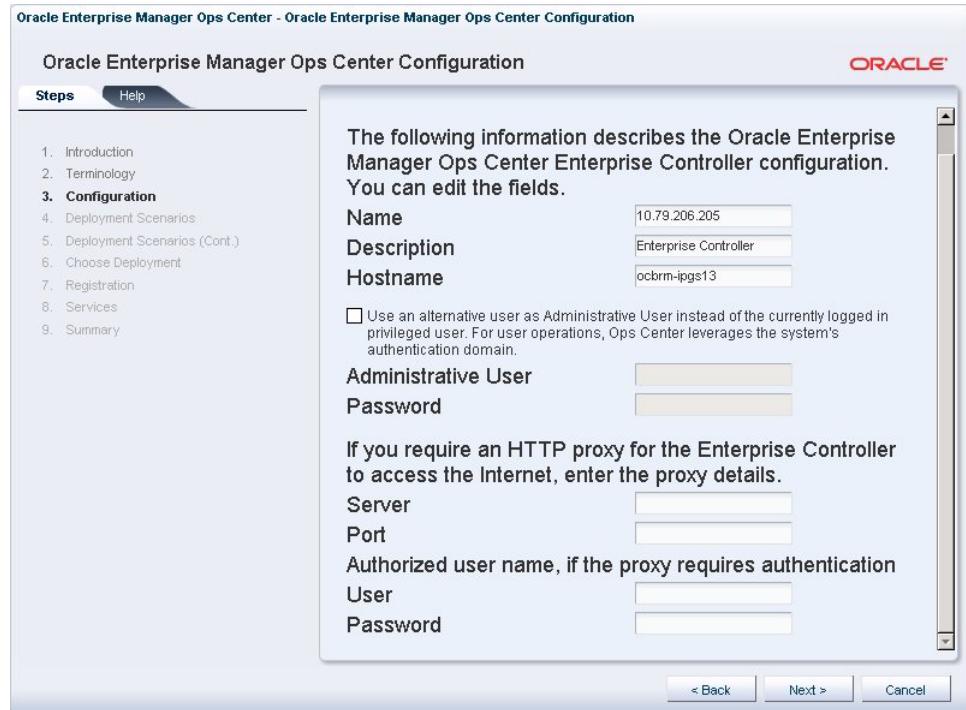
<http://ocbrm-ipgs13>

to begin using Ops Center Enterprise Controller.

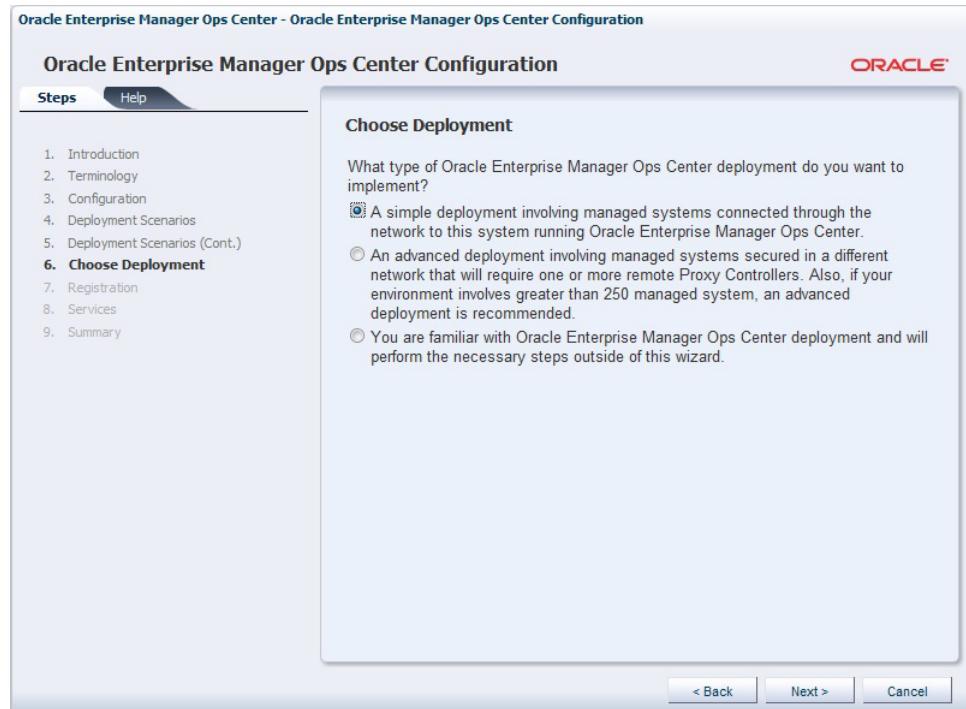
## Configure

Log into the system and the Configuration wizard will take you through the steps to configure the software. The number of steps changes based on your answers. We will skip a number of the more complex configuration options.

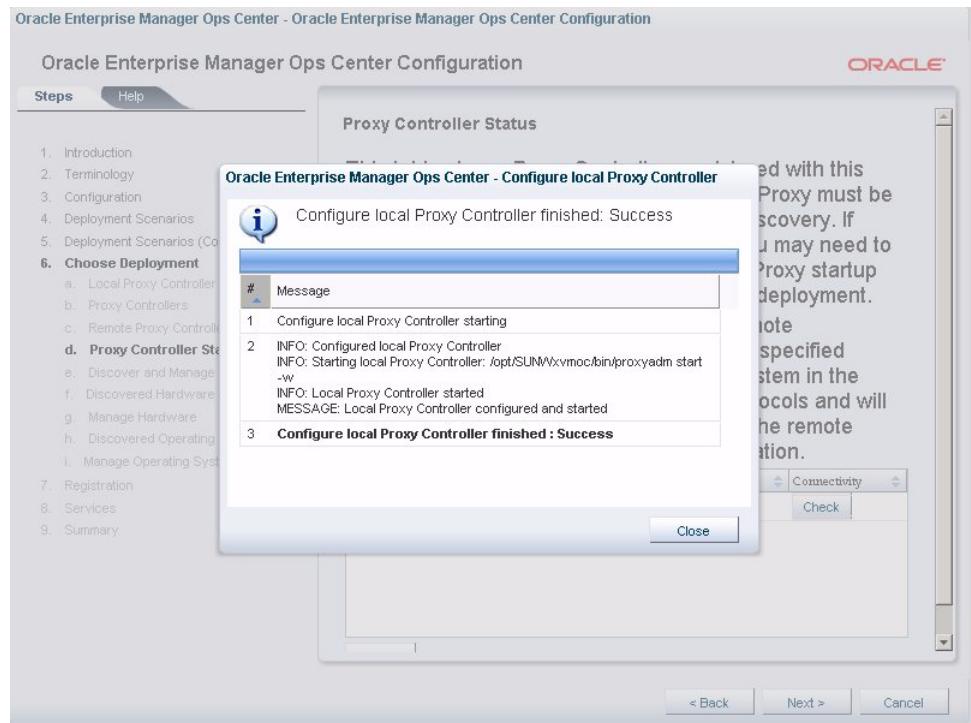
1. Go to <https://system-name> and log in as root.
2. The first two steps provide an overview, click **Next** to skip Steps 1 and 2. On Step 3, change the host name from the IP address to the system name, add a description, then click **Next**.



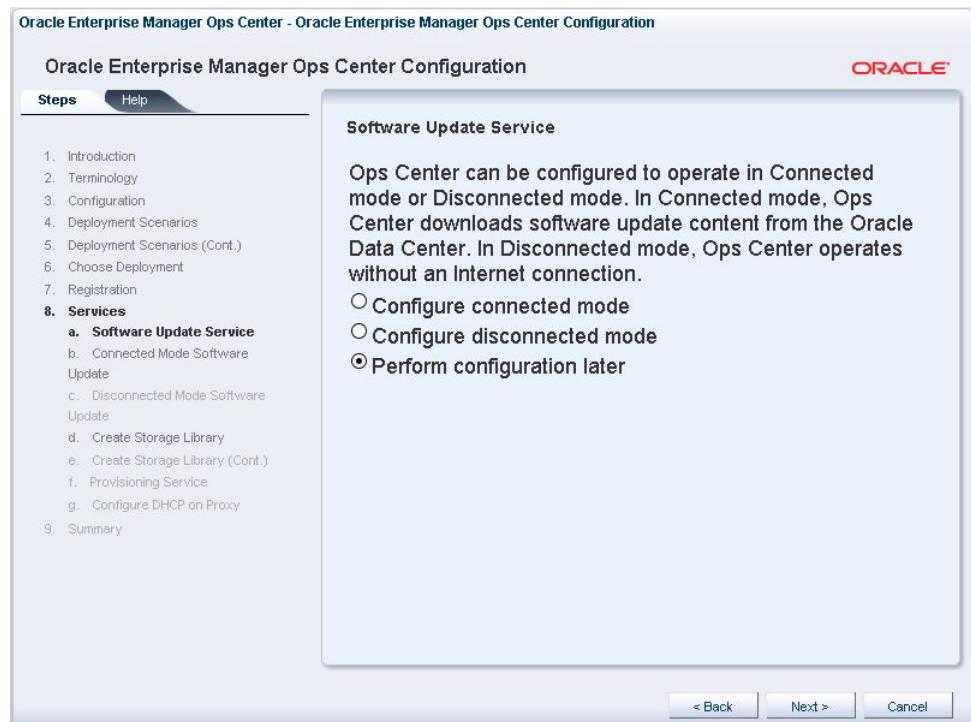
3. Several steps provide an overview of the deployment options. Click Next to skip those steps. On the Choose Deployment step, select the Simple Deployment option.



4. Close the window when the Proxy Controller configuration is finished.



5. Select **Discover/Manage Systems Later**.
6. Skip the Software Update Service configuration by selecting **Perform configuration later**.



- Skip the Storage Library step by selecting **Configure library later**.

Oracle Enterprise Manager Ops Center - Oracle Enterprise Manager Ops Center Configuration

Oracle Enterprise Manager Ops Center Configuration

ORACLE

Steps Help

**Create Storage Library**

You can create a library to store images on the Enterprise Controller or on existing NFS storage. If you create a library, it will be used as the default library for firmware image downloads.

**Configure library now.**

**Configure library later.**

1. Introduction  
2. Terminology  
3. Configuration  
4. Deployment Scenarios  
5. Deployment Scenarios (Cont.)  
6. Choose Deployment  
7. Registration  
**8. Services**  
a. Software Update Service  
b. Connected Mode Software Update  
c. Disconnected Mode Software Update  
**d. Create Storage Library**  
e. Create Storage Library (Cont.)  
f. Provisioning Service  
g. Configure DHCP on Proxy  
9. Summary

< Back | Next > | Cancel

- Skip the Provisioning Service step by selecting **Perform Configuration Later**.

Oracle Enterprise Manager Ops Center - Oracle Enterprise Manager Ops Center Configuration

Oracle Enterprise Manager Ops Center Configuration

ORACLE

Steps Help

**Provisioning Service**

In order to perform OS provisioning you will need to configure DHCP and the subnets on your Proxy Controllers. If you have more than one Proxy you will be able to repeat this configuration for each.

**Perform configuration now.**

**Perform configuration later, via Ops Center Administration section.**

1. Introduction  
2. Terminology  
3. Configuration  
4. Deployment Scenarios  
5. Deployment Scenarios (Cont.)  
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9. Summary

< Back | Next > | Cancel

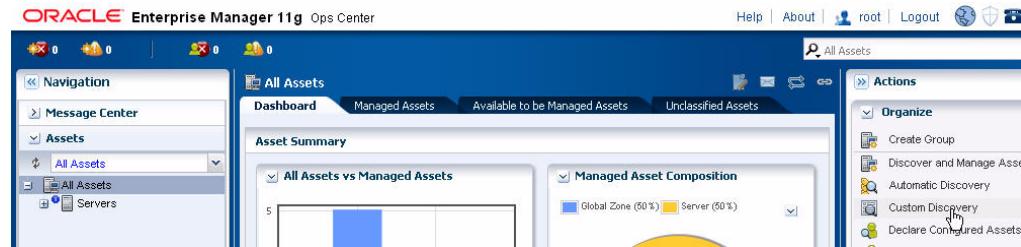
- Click **Finish**.

Congratulations! You've completed the installation and configuration. You can now add your systems to the UI and begin monitoring them.

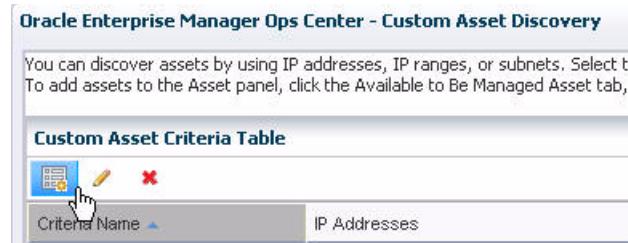
## Add Assets

Several methods are available to add systems, or assets, to the UI. Because we're only adding a few assets, we'll use the Custom Discovery method. Once discovered, we will manage the OS assets to enable monitoring.

1. Click **Assets** in the Navigation pane, then click **Custom Discovery** in the Actions pane.



2. Click the **New Criteria** icon.



- a. Type one or more IP addresses or host names and select All in the search.

Specify Asset Discovery Criteria

Save  Cancel

Targeted Proxy Controller: Automatic

IP Addresses, IP Ranges, or Subnets (separate by commas):  
ocbrm-ipgs14, ocbrm-ipgs15

Host Names (separate by commas):

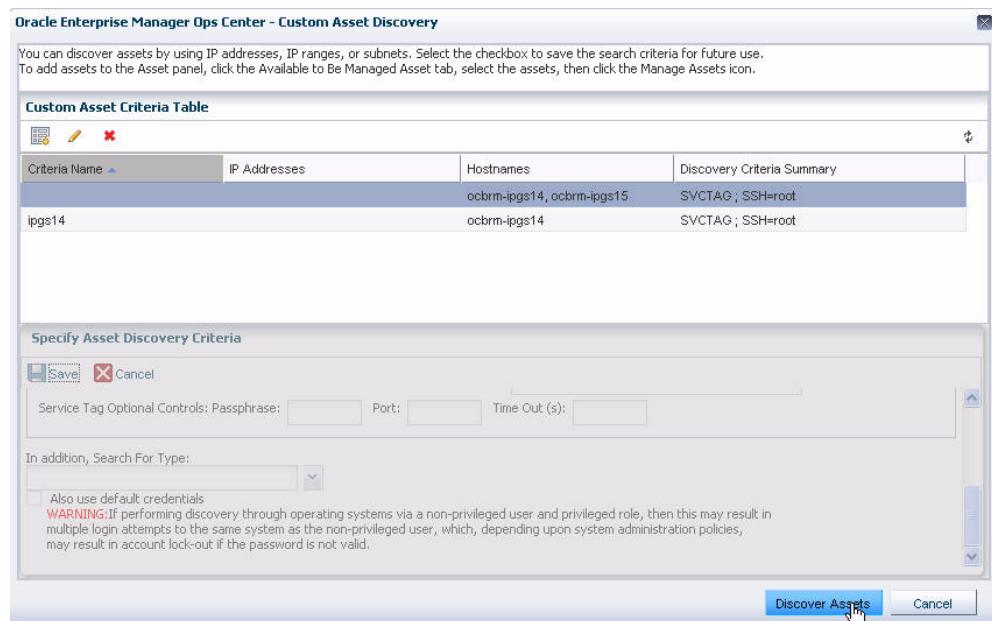
Service Tag Optional Controls: Passphrase: \_\_\_\_\_ Port: \_\_\_\_\_ Time Out (s): \_\_\_\_\_

In addition, Search For Type:

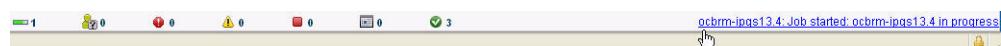
- b. Enter the SSH root credentials. Click **Save**.



### 3. Click Discover Assets.



A job is started to locate the asset. The job bar is at the bottom of the page. The status is in the lower left corner.



4. When the discovery job completes, click the **Available to be Managed Assets** tab. Select one or more assets, then click the check mark icon to install the Agent.

All Available Assets to be Managed

Asset Name	Description	Product Name
ocbrm-ipgs15	10.79.204.252	Solaris 10 Operating System
ocbrm-ipgs15	10.79.204.252	Sun Fire X4100 M2 Server

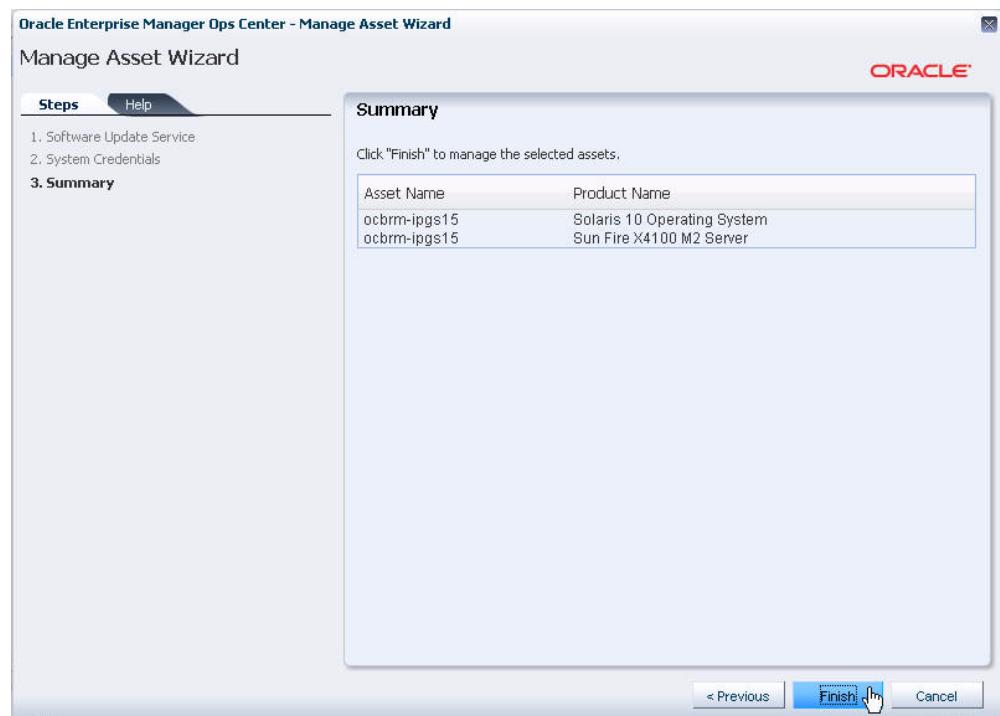
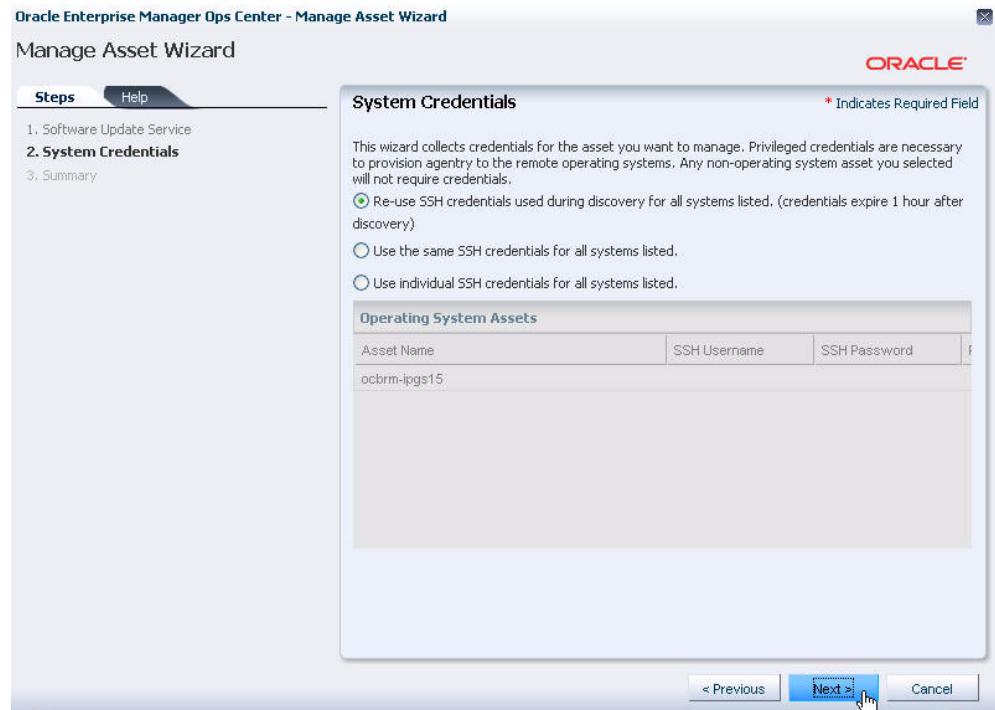
5. Click through the Manage Asset Wizard.

Software Update Service

The Software Update Service has not yet been configured. The assets to be managed will not be able to use this service until it has been configured.

Don't remind me again

< Previous      Next >      Cancel



## Monitoring

The software has a set of default monitoring rules for many types of assets. When you discover and manage an asset, such as an OS or system, the software begins monitoring the status based on the default rules.

## How Does Monitoring Work?

Many assets have a default monitoring profile. Different types of monitoring profiles are available, depending on the asset type. Some profiles contain individual monitoring rules, thresholds and alert levels. These alert levels are editable for Critical, Warning, and Informational problem notification. Some profiles, such as system-defined rules, are not editable but you can disable them. You can customize the alerts and monitoring profiles for each asset or group of assets.

To view or edit the default monitoring rules for an asset, click a managed asset from the Assets tree in the Navigation pane, then click the Monitoring tab in the center pane.

Alert Monitoring Rules	Alert Limits	Enabled	Active ?
Boolean Control Monitoring Rules (2)			
OS Running	Info: false	Yes	Yes
Powered On	Info: false	Yes	Yes
Enumerated Control Monitoring Rules (1)			
Server Port Status	Warning: Disabled,disabled,Down,down,DOWN	Yes	Yes
System-Defined Monitoring Rules (8)			
CPU Monitor		Yes	No
Disk Monitor		Yes	No
Fan Monitor		Yes	No

The icons at the top of the center pane enable you to add, edit, enable, disable, or delete rules.

When an asset first meets or exceeds a monitoring threshold or state, an alert and a problem are generated. Subsequent alerts are aggregated under the existing problem.

## How do I Create an Alert and Problem

An easy way to generate an alert and problem is to shutdown a monitored system. The shutdown generates a critical status alert. The System Down problem appears in the Message Center and a red warning badge appears next to the asset in the Asset tree to indicate that there is a critical problem.

## How do I View and Assign Problems?

When a problem is generated, a severity status badge appears next to the asset in the Asset tree. You can see a list of All Problems in the Message Center.



You can also see problems and the associated alerts for each asset in the Problems tab. For more about viewing and managing problems, see the *Oracle Enterprise Manager Ops Center User's Guide* and *Oracle Enterprise Manager Ops Center Advanced User's Guide* at [http://download.oracle.com/docs/cd/E11857\\_01/nav/management.htm](http://download.oracle.com/docs/cd/E11857_01/nav/management.htm).

## Where Do I Go From Here?

For more details on these and other features, see the Oracle Enterprise Manager Ops user documentation. For a more complex installation, see the Site Preparation Guide and Installation Guides. The documentation is available at [http://download.oracle.com/docs/cd/E11857\\_01/nav/management.htm](http://download.oracle.com/docs/cd/E11857_01/nav/management.htm) or from the Help link in the user interface (UI).

Your comments and suggestions are welcome. Please send your feedback to [oc-writers-direct-reports\\_ww@oracle.com](mailto:oc-writers-direct-reports_ww@oracle.com).

## Join the Community

The Oracle Enterprise Manager Ops Center community is a collaborative space to view, ask, and answer questions related to the Oracle Enterprise Manager Ops Center software. Everyone is invited to use the community and add to the knowledgebase.

Join the community at [https://communities.oracle.com/portal/server.pt/community/oracle\\_enterprise\\_manager\\_ops\\_center](https://communities.oracle.com/portal/server.pt/community/oracle_enterprise_manager_ops_center).

## Documentation Accessibility

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