Oracle® ILOM Getting Started Guide Firmware Release 4.0.x



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Using This Documentation

- **Overview** This guide describes how to get started with the Oracle ILOM firmware so that you can remotely manage your Oracle servers and blade chassis.
- **Audience** Technicians, system administrators, and authorized Oracle service providers.
- **Required knowledge** Users should have experience managing server hardware.

Product Documentation Library

Documentation and resources for this product and related products are available at http://docs.oracle.com/cd/E81115 01.

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Provide feedback about this documentation at http://www.oracle.com/goto/docfeedback.

Oracle ILOM – Quick Start

Description	Links
Factory Defaults	■ "Factory Default Settings" on page 9
Mandatory Setup	■ "Connect to Oracle ILOM" on page 11
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	■ "Log In to the Host OS From a Remote Serial Console" on page 43
FAQs	■ "Initial Setup FAQs" on page 44

Factory Default Settings

Property	Default Value(s)	For details, see
Alert notifications	SMTP client: enabled Alerts: 15 configurable alerts	"Configuring Alert Notifications" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x
	Power consumption notification: disabled	

Property	Default Value(s)	For details, see	
Connectivity: DNS	Auto DNS via DHCP enabled	"Modifying Default Connectivity Configuration Properties" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x	
Connectivity: Network	IPv4: DHCP enabled; DHCP Client ID: none IPv6: stateless auto-configuration enabled	"Modifying Default Connectivity Configuration Properties" in Oracle ILOM Administrator's Guide for Configuration and Maintenance	
	ii voi stateites auto comigaration chastea	Firmware Release 4.0.x	
Connectivity: Serial Port	Owner: SP	"Modifying Default Connectivity Configuration Properties" in <i>Oracle ILOM Administrator</i> 's	
	Baud rate: 9600 baud	Guide for Configuration and Maintenance Firmware Release 4.0.x	
	Flow control: none	1 II III Wale Release 4.0.X	
Date and Time	Timezone: GMT	"Setting ILOM Clock Properties" in <i>Oracle ILOM Administrator's Guide for Configuration</i>	
	NTP server: disabled	and Maintenance Firmware Release 4.0.x	
	Clock: uninitialized		
Management Access	Secure shell server: enabled Web and CLI sessions: 15 minute timeout	 "SNMP Overview" in Oracle ILOM Protocol Management Reference SNMP and IPMI Firmware Release 4.0.x 	
	Web HTTP port: 80	■ "Server Management Using IPMI" in Oracle	
	Web HTTPS server: enabled, port 443	ILOM Protocol Management Reference SNMP and IPMI Firmware Release 4.0.x	
	Web Server: TLSv1, 2, 3		
	SSL certificate: default certificate provided		
	IPMI state: enabled		
	SNMP state: SNMPv3 enabled; port 161		
	Banner state: disabled		
Storage Redirection CLI socket port on management station	Port: 2121	"Using Remote KVMS Consoles for Host Server Redirection" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x	
User credentials: Local	Root account login: root	■ "Setting Up and Maintaining User	
	Root account password: changeme	Accounts" in Oracle ILOM Administrator's Guide for Configuration and Maintenance	
	Maximum number of local user accounts: 10* (*some SPARC systems support up to 60 local user accounts)	Firmware Release 4.0.x "Add New Users to Oracle "I OM" on page 14	
	SSH key state: enabled	ILOM" on page 14	
User credentials: Remote	LDAP state: disabled	"Setting Up and Maintaining User Accounts"	
	LDAP/SSL state: disabled	in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware	
	RADIUS state: disabled	Release 4.0.x	

Property	Default Value(s)	For details, see
Active Directory state: disabled		

Mandatory Setup Tasks

- "Connect to Oracle ILOM" on page 11
- "Log In to Oracle ILOM" on page 13
- "Add New Users to Oracle ILOM" on page 14

Note - The procedures in this section provide a quick overview of the mandatory setup tasks required to access Oracle ILOM. If further assistance is needed to perform these tasks, refer to the guides listed in the Related Information section.

▼ Connect to Oracle ILOM

Establish a physical management connection to Oracle ILOM by performing one of the following procedures:

- Local serial management connection Procedure 1
- Network management connection Procedure 2

Note - To maintain the most reliable and secure environment for Oracle ILOM, the local serial port, or the dedicated network management port, or the standard data network port on the server or CMM must always be connected to an internal trusted network or dedicated secure management and private network.

1. Local Serial Management Connection Procedure

 Attach a serial cable between a console (workstation or terminal) and the SER MGT port on the server or the Oracle blade chassis monitoring module (CMM).

This physical connection provides your initial communication with the service processor (SP). You must set the terminal device communication properties to these values: 9600 baud, 8 bit, no parity, 1 stop bit.

Note - If the transmit and receive signals are reversed (crossed over) for DTE to DTE communications, a null modem configuration is required. Use the adapter cable that is supplied with your system to achieve a null modem configuration.

Note - For further information about the physical location of the SER MGT port on the Oracle Server, see the Oracle documentation provided for your server. For instance, for SPARC T5-2 servers, see additional serial management port details at: http://docs.oracle.com/cd/E28853_01/html/E28854/pftig.z40022311288258.html#scrolltoc.

 To create a connection between the terminal device and the Oracle ILOM SP or CMM, press Enter on the terminal device.

2. Network Management Connection Procedure

 Attach an Ethernet cable between the network switch and the NET MGT port on the server or CMM.

Oracle ILOM automatically learns the network address of the server SP or the CMM from both the IPv4 DHCP server and the IPv6 router on your network. If you need to modify these network settings, see "Modify Default Network Connectivity Settings" on page 19.

b. Determine the IP address assigned to the server SP or the CMM.

To determine the IP address assigned, establish a local serial management (SER MGT) connection to the ILOM SP or CMM, log in to ILOM, and then view the network properties under the /network and /networkipv6 targets using the show command.

It is also possible to determine the IP address from the DHCP server on your network.

Related Information

- "Initial Setup FAQs" on page 44
- "Log In to Oracle ILOM" on page 13
- "Modify Default Network Connectivity Settings" on page 19
- "Setting Up a Management Connection to Oracle ILOM and Logging In" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x
- Installation guide for Oracle server, connecting cables and applying power
- Administration guide for Oracle server, configuring x86 BIOS settings

▼ Log In to Oracle ILOM

To log in to Oracle ILOM, perform one of the following procedures based on the physical management connection established to Oracle ILOM:

- Local serial management connection Procedure 1
- Web browser-based network management connection Procedure 2
- Command-line SSH network management connection Procedure 3

Note - To enable first-time login and access to Oracle ILOM, a default Administrator account and its password are provided with the system. To build a secure environment, you must change the default password (changeme) for the default Administrator account (root) after your initial login to Oracle ILOM. If this default Administrator account has since been changed, contact your system administrator for an Oracle ILOM user account with Administrator privileges.

Local Serial Management Connection – Login Procedure

 At the Oracle ILOM login prompt (->), type root for the account and changeme for the password.

2. Web Browser-Based Network Management Connection – Login Procedure

- **a.** Type http://ILOM_SP_or_CMM_ipaddress into the web browser and press Enter. The Oracle ILOM Login dialog appears.
- b. Log in to the Oracle ILOM web interface using the root account and the password, changeme.

The Oracle ILOM web interface appears.

3. Command-Line SSH Network Management Connection – Login Procedure

- To establish an SSH session to the Oracle ILOM CLI, open a terminal window.
- b. To log in to Oracle ILOM using the default root account, type:

\$ ssh root@ILOM_SP_or_CMM_ipaddress
Oracle ILOM prompts you for the root password.

c. At the Password prompt, type changeme.

The Oracle ILOM CLI prompt appears (->).

Related Information

- "Security Action: Change Default root Account Password" in *Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x*
- "Connect to Oracle ILOM" on page 11
- "Add New Users to Oracle ILOM" on page 14
- "Logging In to Oracle ILOM Server SP or CMM" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x

Add New Users to Oracle ILOM

Before You Begin

 On most server SPs and CMMs, you can create up to 10 local user accounts. On some SPARC SPs and CMMs, you can create up to 60 local user accounts.

Note - To determine the maximum number of user accounts supported on the SP or CMM, click the More details... link in the ILOM Administration \rightarrow User Management \rightarrow User Account page in the web interface.

Note - To locate Oracle ILOM instructions for configuring remote user authentication directory services (such as Active Directory, LDAP, or RADIUS), see the Related Information section following this procedure.

- You can use the CLI, web interface, SNMP interface, or IPMI interface to manage the server SP or CMM local user accounts. The following procedure identifies how to perform this task using the web interface and the CLI. To locate instructions on how to perform this task using an SNMP or IPMI interface, see the Related Information section following this procedure.
- The following procedure assumes you are logged in to Oracle ILOM as a root user. For root user login instructions, see "Log In to Oracle ILOM" on page 13.

To add new local user accounts to Oracle ILOM, perform one of the following procedures:

- Add new local user accounts Web Procedure 1
- Add new local user accounts CLI Procedure 2

1. Add New Local User Accounts - Web Procedure

- In the Oracle ILOM web interface, click ILOM Administration > User Management > User Accounts.
- b. In the Users table, click Add.

The Add User dialog box appears.

c. Specify a name and new password for the user account, and then select a user role profile.

Oracle ILOM enables you to select one of three user role profiles from the web interface: Administrator, Operator, or Advanced. For a description of each user role profile, see Example 1, "Oracle ILOM User Profile and Role Descriptions," on page 16.

- d. To add the new user account properties, click Save.
- 2. Add New Local User Accounts CLI Procedure
 - a. At the Oracle ILOM CLI prompt, type either:
 - --> create /SP/users/username password=password
 --> create /CMM/users/username password=password
 For example:
 --> create /SP/users/user5
 Creating
 user...
 Enter

new password: ******

Enter

new password again: ******

Created /SP/users/user5

b. To assign a role to the user account, type either:

- —> set /SP/users/username role=aucr
- —> set /CMM/users/username role=aucr

For example:

To grant all read and write privileges to user5 on the server SP, type:

-> set /SP/users/user5 role=aucro

Set

'role' to 'aucro'

Note - aucro is equivalent to the setting the Administrator (administrator) profile.

For more information about the user roles and privileges supported in Oracle ILOM, see the following table.

Example 1 Oracle ILOM User Profile and Role Descriptions

Assignable Profiles and Roles	Privileges Granted	
Administrator	The Administrator profile grants privileges for the following predefined user roles:	
(administrator)	■ Admin (a)	
	User Management (u)	
	■ Console (c)	
	Reset and Host Control (r)	
	■ Read-Only (o)	
Operator	The Operator profile grants privileges for the following predefined user roles:	
(operator)	■ Console (c)	
	Reset and Host Control (r)	
	■ Read-Only (o)	
Advanced Roles	The Advanced Roles profile is configurable from the web interface only. Use this profile to grant privileges for any of the following predefined user roles:	
(a u c r o s)		
	■ Admin (a)	
	User Management (u)	
	■ Console (c)	
	■ Reset and Host Control (r)	
	Services (s)	
	■ Read-Only (o)	
admin (a)	The Admin (a) role, when enabled, grants read and write permissions to all Oracle ILOM system management functions with the exception of the functions that would require the Admin (a) role to have these additional user roles enabled: User Management (u), Reset and Host Control (r), Console (c), and Services (s).	
user (u)	The User Management (u) role, when enabled, grants read and write permissions to all Oracle ILOM user management authentication features.	

Assignable Profiles and Roles	Privileges Granted	
console (c)	The Console (c) role, when enabled, grants read and write permissions to perform these remote console management functions: remote console lock options, SP console history log options, launch and use the remote console feature, and launch and use the Oracle ILOM Storage Redirection CLI.	
reset and host control (r)	The Reset and Host Control (r) role, when enabled, grants read and write permissions to perform these host management functions: host boot device control, run and configure diagnostics utilities, reset SP, reset CMM, sub-component service actions, fault management actions, SPARC TPM management actions, and SNMP MIB download operation.	
read-only (o)	The Read-Only (o) user role grants read-only permissions to view the state of all Oracle ILOM configuration properties and to change the account password properties assigned to the individual user account.	
service (s)	The Services (s) user role, when enabled, grants read and write permissions to assist Oracle service engineers if on-site service is required.	
administrator (aucro)	A combination of all these user roles (aucro), when enabled, grant read and write permissions to perform backup and restore configuration functions in Oracle ILOM.	

Related Information

 "Managing User Credentials" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x

Optional Setup Tasks

- "Set Identification Labels for a Managed Device" on page 17
- "Modify Default Network Connectivity Settings" on page 19
- "Install Software Using Remote KVMS" on page 22

Note - The procedures in this section provide a quick overview of the optional setup tasks that you might need to perform when setting up an Oracle server or CMM. If further assistance is needed to perform these tasks, refer to the guides listed in the Related Information section.

Set Identification Labels for a Managed Device

Before You Begin

 You need Admin (a) role privileges in Oracle ILOM to set the system identification labels for a managed device.

You can assign identification labels for the host name, system identifier, system contact, and the system location by using the Oracle ILOM server SP or CMM CLI or web interface.

- Set identification label Web Procedure 1
- Set identification label CLI Procedure 2

1. Set Identification Labels - Web Procedure

- **a.** In the SP or CMM web interface, click ILOM Administration > Identification. The Identification Information page appears providing fields to specify the:
 - Hostname Type a host name for the managed device. The host name can contain up to 60 characters. It must begin with a letter and it must contain only alphanumeric, hyphen, and underscore characters.
 - System Identifier –Type system identifier for the managed device. The system identifier can contain up to 60 characters using any standard keyboard keys except quotation marks.
 - System Contact Type a system contact for the managed device. The system contact can consist of a text string using any standard keyboard keys except quotation marks.
 - System Location Type a system location for the managed device.
 The system location can consist of a text string using any standard keyboard keys except quotation marks.
 - Physical Presence Check When this option is enabled, you must prove physical presence at the system to recover the ILOM password or to perform other security-related actions. Refer to your platform documentation for instructions on how to prove physical presence. If your platform documentation does not mention physical presence, contact your Oracle service representative.
- b. Click Save for your settings to take affect.
- 2. CLI Procedure Set Identification Labels
 - a. To view the identification labels assigned to a server SP or CMM, type:

-> show /SP|CMM

b. To set identification labels for a server SP or CMM, type:

- -> set /SP|CMM hostname=text_string
- -> set /SP|CMM system_identifier=text_string
- -> set /SP|CMM system_contact=text_string
- -> set /SP|CMM system location=text string
- -> set /SP|CMM check_physical_presence=true|false

where:

SP|CMM appears, type either set /SP or set /CMM

true | false appears, type either: true to enable, or false to disable

Related Information

 "Assigning System Identification Information" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x

Modify Default Network Connectivity Settings

Before You Begin

- This procedure assumes that you have an established local or network management connection to the Oracle ILOM server SP or CMM. For instructions on how to establish a physical local or network connection to Oracle ILOM, see "Connect to Oracle ILOM" on page 11.
- Oracle ILOM is shipped with IPv4 DHCP and IPv6 Stateless default network settings.
 When the network property for IPv4 is set to DHCP, the SP or the CMM automatically configures the DHCP IP address using the DHCP advertisement messages received from the DHCP IPv4 server.

When the auto-configuration property for IPv6 is set to Stateless, the SP or the CMM automatically configures its dynamic address using the IPv6 router advertisement messages. In addition, the SP or the CMM always generates a non-routable Link-Local IPv6 address, which allows it to be reachable from its local subnet.

- You need Admin (a) role privileges to modify network settings in Oracle ILOM.
- You can modify the server SP or CMM network settings in Oracle ILOM using the CLI or web interface, or using an SNMP client. To locate instructions for performing this task from a CMM or an SNMP client, see the Related Information section following these instructions.

To modify default network settings on the server SP, perform one of the following:

- Modify server SP default network settings Web Procedure 1
- Modify server SP default network settings CLI Procedure 2
- Modify Default Server SP Network Settings Web Procedure
 - a. Click ILOM Administration > Connectivity > Network.
 - b. To change the default IPv4 network options, perform one of the following:
 - To change the default IPv4 DHCP Client ID property value (None), select sysid in the DHCP Client ID list box.

When sysid is specified as the DHCP Client ID, the DHCP client (ILOM SP) uses the unique system identification label (if configured) to retrieve the DHCP address from the DHCP server. When None is specified as the DHCP Client ID, the DHCP client (ILOM SP) uses the system MAC address to retrieve the DHCP address.

- To assign a static IPv4 address, click to enable the Static IP radio button, and specify the static IPv4 address, subnet mask, and gateway address.
- c. To change the IPv6 network options, perform one or both of the following:
 - Autoconfig options: Select or clear the check box associated with the IPv6 autoconfig option.
 - Static IP Address: In the Static IP Address text box, type the following input parameters to specify the IPv6 address and subnet mask address:

<IPv6 address>/<subnet mask address length in bits>

For example: fec0:a:8:b7:214:4fff:feca:5f7e/64

- d. Click Save to apply the changes.
- 2. Modify Default Server SP Network Settings CLI Procedure

a. To change the default IPv4 dhcp_clientid=none property and set the value to sysid, type:

```
->set /SP/network dhcp_clientid=sysid
```

When sysid is specified as the DHCP Client ID, the DHCP client (ILOM SP) uses the unique system identification label (if configured) to retrieve the DHCP address from the DHCP server. When none is specified as the DHCP Client ID, the DHCP client (ILOM SP) uses the system MAC address to retrieve the DHCP address.

- b. To change the default IPv4 dhcp property and set property values for a static IPv4 address, type:
 - -> set /SP/network pendingipdiscovery=static
 - -> set /SP/network pendingipaddress=<IPv4_address>
 - -> set /SP/network pendingipgateway=<gateway_address>
 - -> set /SP/network pendingipnetmask=<netmask_address>
- C. To change the default IPv6 autoconfig=stateless property, navigate to the /network/ipv6 target and perform one or both of the following:
 - To change the default autoconfig=stateless property value, type: -> set autoconfig=property value>

where roperty value> can equal one of the following: stateless stateless_only,
dhcpv6_stateless, dhcpv6_stateful, or disable.

■ To assign a static IPv6 address, type: -> set pendingipdiscovery=<IPv6 address>/<subnet mask length in bits>

For example: -> set pendingipdiscovery=fec0:a:8:b7:214:4fff:feca:5f7e/64

- d. To save all pending static IPv4 or IPv6 property changes, navigate to the /network target and type:
 - -> set commitpending=true

Related Information

- "Initial Setup FAQs" on page 44
- "Set Identification Labels for a Managed Device" on page 17
- "Modifying Default Connectivity Configuration Properties" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x

• "Configuring SNMP Settings in Oracle ILOM" in Oracle ILOM Protocol Management Reference SNMP and IPMI Firmware Release 4.0.x

▼ Install Software Using Remote KVMS

Note - SPARC M8 series servers do not support Oracle ILOM Remote System Plus Console or KVMS configuration properties. SPARC M8 series servers support the Oracle ILOM System Remote VNC Console. For further details, see "Connecting to the Oracle ILOM Remote System VNC Console" in *Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x*

Before You Begin

- The Oracle ILOM Remote System Console (Plus), available from the SP web interface, provides remote redirection for the following devices: keyboard, video, mouse, and storage. As an alternative method for redirecting storage devices in Oracle ILOM, you can use the Oracle ILOM Storage Redirection CLI. To locate instructions on how to use this feature, refer the Related Information section following this procedure.
- You need the Console (c) role privileges to operate the Oracle ILOM Remote System Console (Plus).
- Java 7 update 131 or later must be installed. TLS 1.1 and 1.2 must be enabled in the Advanced Settings of the Java Control Panel.

To launch the Oracle ILOM graphical remote console from the SP web interface:

- Verify that the default KVMS settings provided in Oracle ILOM match your desktop environment:
 - a. In the web interface navigation pane, click Remote Control > KVMS.
 - b. In the KVMS Settings page, ensure that the video redirection state is enabled, and then verify that the appropriate mouse mode option (absolute or relative) is enabled.

For best performance, absolute mode is typically selected for Oracle Solaris—based operating systems, and relative mode is selected for Linux-based operating systems.

Tip – To toggle the keyboard or mouse input between the managed server and the local desktop, press: **Alt+m** (for mouse) or **Alt+k** (for keyboard).

- For Windows Internet Explorer (IE) web browser users, register the 32-bit JDK file on your local system before launching the Oracle ILOM Remote System Console (Plus) feature.
 - a. In the Windows Explorer window, click Tools > Folder Options, and then click the Files Types tab.
 - b. Select the JNLP file, browse to its location, and then click OK.
- 3. To launch the Oracle ILOM Remote System Console (Plus), click Remote Control --> Redirection > Launch Remote Console.

Related Information

- "Using Remote KVMS Consoles for Host Server Redirection" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x
- "Log In to the Host OS From a Remote Serial Console" on page 43
- "Connecting to the Oracle ILOM Remote System VNC Console" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x
- "Oracle ILOM Remote KVMS Consoles Supported" in *Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x*

Daily Management Tasks

- "Check System Status and View Open Problems" on page 24
- "Manually Clear Fault Messages" on page 25
- "Manage System, Event, and Audit Log Entries" on page 27
- "View Power Consumption Metrics for a Managed Device" on page 30
- "View Power Allocations for a Managed Device" on page 32
- "Set SPARC Power Management Policy" on page 33
- "View Power Consumption Statistics and History" on page 35

Note - The procedures in this section provide a quick overview of some of the daily management tasks that you might want perform from Oracle ILOM after your system is set up. If further assistance is needed to perform these tasks, refer to the guides listed in the Related Information section.

▼ Check System Status and View Open Problems

To monitor the state of the system and view open problems, you can use the Oracle ILOM CLI or web interface.

- Check system status and view open problems Web Procedure 1
- Check system status and view open problems CLI Procedure 2

Check System Status and View Open Problems – Web Procedure

 To check the system status from the SP or CMM web interface, click System Information > Summary.

Review the sub-system status messages appearing in the Status table.

b. To view all open problems, click System Information > Open Problems.

If open problems exist on the system, details describing the problems appear in the Open Problems table.

When applicable, click the URL link in the message to view further details about the problem, as well as suggested corrective actions for the system administrator.

Note - Oracle ILOM automatically clears the messages in the Open Problems table upon detecting the replacement or repair of a server component or CMM field-replaceable unit (FRU).

Note - Messages shown in the Open Problems table for CMM customer-replaceable units (CRUs) should be manually cleared after you perform the corrective service action. For instructions, see the Related Information section following this procedure.

2. Check System Status and View Open Problems - CLI Procedure

a. To check the system status from the /SP or /CMM CLI target, type:

-> show /System

Under the Properties, verify the health details.

b. To view a tabular output of reported sub-system problems, type:

-> show /System/Open_Problems

If open problems exist on the system, details describing the problems appear in the Open Problems tabular output.

When applicable, refer to the URL appearing in the open problem message to view further details about the problem, as well as suggested corrective actions for the system administrator.

Related Information

- "Manually Clear Fault Messages" on page 25
- "Troubleshooting Oracle ILOM Managed Devices" in Oracle ILOM User's Guide for System Monitoring and Diagnostics Firmware Release 4.0.x
- Sun Blade Modular System Service Manual, component types and service classifications

▼ Manually Clear Fault Messages

Before You Begin

- A faulted state indicates that the component is present but is unusable or degraded because
 one or more problems have been diagnosed by the Oracle ILOM Fault Manager. The
 component has been disabled to prevent further damage to the system.
- The Oracle ILOM Fault Manager auto clears fault messages in the Open Problems table for replaced or repaired SPARC server components, x86 server components, and CMM fieldreplaceable units (FRUs).
- The Oracle ILOM Fault Manager does *not* auto clear fault messages in the Open Problems table for replaced or repaired CMM customer replaceable units (CRUs).
- You must have Admin (a) role privileges to perform this procedure.

To launch the Oracle ILOM Fault Management shell and manually clear fault messages appearing in the Open Problems table:

Note - Alternatively, on some Oracle servers and blade chassis systems, you can use the legacy Oracle ILOM 3.0 CLI /SYS target to clear fault messages. For instructions, refer to the Related Information section following this procedure.

Contact Oracle Service to gain permission to use the Fault Management shell.

The Oracle ILOM Fault Management shell helps Oracle Services personnel to diagnose system problems. Customers should not run commands in the Fault Management shell unless requested to do so by Oracle Services.

To launch the Fault Management shell from the SP or CMM CLI, type one of the following:

start /SP/faultmgmt/shell

start /CMM/faultmgmt/shell

The Fault Management shell command prompt (faultmgmtsp>) appears.

Note - After you start the Fault Management shell and until you exit the Fault Management shell, you can issue only commands that are specific to the Fault Management shell. To view the supported Fault Management shell commands type: help.

3. To administer the fault states from the Fault Management shell prompt, type:

fmadm <sub-command>

fmadm is a fault management configuration tool that enables you to view and modify the fault states maintained by the Oracle ILOM Fault Manager.

Note - To view a list of faulted components from the fault management configuration tool, type fmadm faulty.

4. To manually clear a message for a faulted sub-system component, issue one of the following sub-commands:

Note - Replace <*FRU*|*CRU*> with the faulted component name. Replace <*UUID*> with the assigned Universal Unique Identifier. For syntax examples, see the examples following the subcommand table.

Sub-commands	Description
acquit <fru cru></fru cru>	Notify the Oracle ILOM Fault Manager that the specified faulted component is not to be considered suspect in any fault events that have been detected. The fmadm acquit command should be used only at the direction of a documented Oracle hardware repair procedure.
acquit <uuid></uuid>	Notify the Oracle ILOM Fault Manager that the faulted event identified by the <i>uuid</i> resource can be safely ignored. The fmadm acquit command should be used only at the direction of a documented Oracle hardware repair procedure.
replaced <fru cru></fru cru>	Notify the Oracle ILOM Fault Manager that the specified faulted field-replaceable unit or customer-replaceable unit has been replaced. This command should be used in those cases where the Oracle ILOM Fault Manager is unable to detect the replacement.
repaired <fru cru></fru cru>	Notify the Oracle ILOM Fault Manager that the specified field-replaceable unit or customer-replaceable unit has been repaired. The fmadm repaired command should be used in those cases where the Oracle ILOM Fault Manager is unable to detect the repaired FRU.

Sub-command Syntax Examples:

- fmadm repaired /SYS/MB/FM0
- fmadm repaired /SYS/PS1
- fmadm replaced /SYS/MB/FM0
- fmadm replaced /SYS/PS1

Note - If you clear the message for a faulty component prior to completing the corrective service action, the Oracle ILOM Fault Manager rediagnoses the fault and redisplays the fault message in the Oracle ILOM Open Problems table.

5. To exit the Fault Management shell, type:

exit

Note - To issue standard Oracle ILOM CLI commands, you must first exit the Fault Management shell.

Related Information

- "Oracle ILOM 3.2.x CLI Namespace Targets on ManagedDevice" in Oracle ILOM User's Guide for System Monitoring and Diagnostics Firmware Release 4.0.x
- "Check System Status and View Open Problems" on page 24
- Service Manual for Oracle servers, component types and service classifications

▼ Manage System, Event, and Audit Log Entries

Before You Begin

■ The top-level *System Log* presents a subset of relevant operational Event Log entries in a more simplified manner. Specifically this log reports subsystem level diagnostic events pertaining to system inventory actions and component health status. These events can include power on and off, FRU insert and removal, as well as status events, such as service required, warning, or OK.

- The *Event Log* tracks informational, warning, or error messages about a managed device such as the addition or removal of a component or the failure of a component. The properties of the events recorded in the log can include: the severity of the event, the event provider (class), and the date and time the event was logged.
- The *Audit Log* tracks all interface-related user actions such as, user logins, logouts, configuration changes, and password changes. The user interfaces monitored for user actions include the Oracle ILOM web interface, CLI, Fault Management shell (captive shell), and Restricted shell, as well as the SNMP and IPMI client interfaces.
- You need Admin (a) role privileges to clear log entries in Oracle ILOM.

Note - Oracle ILOM uses UTC/GMT time zones, by default, when capturing timestamps for log entries.

To manage Oracle ILOM log entries, perform one of the following procedures.

- Manage Oracle ILOM log entries Web Procedure 1
- Manage Oracle ILOM log entries CLI Procedure 2

1. Manage Oracle ILOM log entries – Web Procedure

- a. Perform one of the following:
 - To view the system log entries in the SP or CMM web interface, click ILOM System Information > System Log.
 - To view the event or audit log entries in the SP or CMM web interface, click ILOM Administration > Logs, then click Event or Audit.
- b. To filter the event types shown or to control the display properties for rows and pages, use the controls at the top of the log table.

For further information about filtering log properties, click the More Info link appearing on the log page.

c. To clear all log entries shown in the table, click Clear Log.

A confirmation dialog appears. In the confirmation dialog, click OK to clear the entries.

- 2. Manage Oracle ILOM log entries CLI Procedure
 - a. To list log entries from the SP or CMM CLI, perform one of the following.
 - **■** For the system log, type,:

show /System/Logs/list

■ For the event log, type either:

```
show /SP/Logs/event/list
show /CMM/Logs/event/list
```

■ For the audit log, type either:

```
show /SP/Logs/audit/list
show /CMM/Logs/audit/list
```

To scroll the list, press any key except the q key.

b. To filter the log output, use the show command, and specify a value for one or more of the filter properties: Class, Type, Severity

Examples:

Use one filter property, for example, Class:

```
show /System/Logs/list Class==value
or
show /SP|CMM/logs/event|audit/list Class==value
```

Use two filter properties, for example, Class and Type:

```
show /System/Logs/list Class==value Type==value or show SP|CMM/logs/event|audit/list Class==value Type==value
```

Use all filter properties (Class, Type, and Severity):

```
show /System/Logs/list Class==value Type==value Severity==value or show SP|CMM/logs/event|audit/list Class==value Type==value Severity==value where SP|CMM appears, type either SP or CMM.
```

c. To clear all log entries shown, use the clear=true command.

For example:

set /System/Logs/clear=true

or

set /SP|CMM/logs/event|audit clear=true

where event audit appears, type either event or audit.

When prompted, type y to confirm the action or n to cancel the action.

Related Information

- "Managing Oracle ILOM Log Entries" in Oracle ILOM User's Guide for System Monitoring and Diagnostics Firmware Release 4.0.x
- "Configuring Syslog for Event Logging" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x
- "Setting ILOM Clock Properties" in *Oracle ILOM Administrator's Guide for Configuration* and Maintenance Firmware Release 4.0.x
- "Viewing the Oracle ILOM Event Log" in Oracle ILOM Protocol Management Reference SNMP and IPMI Firmware Release 4.0.x

▼ View Power Consumption Metrics for a Managed Device

Before You Begin

- The actual power consumption metric identifies the input power wattage that the managed device is currently consuming. The peak permitted power consumption metric identifies the maximum power wattage the managed device can consume.
- The *target limit* power consumption metric, available for Oracle's SPARC servers only when enabled, identifies a user-defined power wattage or percentage limit that the device can consume.
- To generate a power consumption event notification for a managed device, or to enable power limiting on a SPARC server, see the Related Information section following these instructions.

Before You Begin

To monitor the power wattage metrics for a managed device from the CLI or web interface, follow one of these procedures:

- Monitor power consumption Web Procedure 1
- Monitor power consumption CLI Procedure 2

1. Monitor Power Consumption – Web Procedure

a. To view the power consumption metrics from the SP or CMM web interface, click Power Management > Consumption.

A power consumption wattage value, for the managed device, appears for the Actual Power and Peak Permitted Power properties.

A power consumption wattage or a percentage value for the Target Limit, if previously enabled, appears in addition to the other power consumption metrics when the managed device is a SPARC server from Oracle.

b. To view the actual power consumption wattage for each blade server in the chassis from the CMM web interface, click the Actual Power Details link on the Power Consumption page.

Note - The ability to monitor power consumption varies depending on the implementation of this feature on the server. Refer to the server administration guide or Oracle ILOM supplement for information about server-specific Oracle ILOM behavior for power management.

2. Monitor Power Consumption - CLI Procedure

- a. To view the power consumption metrics from the SP or CMM CLI, perform one of the following:
 - For the SP CLI, type: show /SP/powermgmt actual_power

show /SP/powermgmt permitted_power

If the managed device is a SPARC server from Oracle and power limiting is enabled, type:

show /SP/powermgmt target_limit

■ For the CMM CLI, type: show /CMM/powermgt actual_power show /CMM/powermgt permitted_power

Related Information

- "Setting Power Consumption Alert Notifications" in *Oracle ILOM Administrator's Guide* for Configuration and Maintenance Firmware Release 4.0.x
- "Setting SP Advanced Power Capping Policy to Enforce Power Limit" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x
- "Power Consumption Terminology and Properties" in Oracle ILOM User's Guide for System Monitoring and Diagnostics Firmware Release 4.0.x

▼ View Power Allocations for a Managed Device

Before You Begin

- The power allocation plan in Oracle ILOM depicts the power allocation requirements for a managed device. For instance:
 - System Power Specification The System Power Specification table identifies the power wattage allocated for the power consumption properties set on the managed device.
 - **Per Component Power Map** The Component Power Map table, available for Oracle rackmounted servers, identifies the power wattage allocated for each component on the managed device. It also identifies the power cap limit set for a component, or whether a power cap limit can be set for a component.
 - **Blade Power Map** The Blade Power Map table, available for Oracle CMMs only, identifies the total wattage sum granted to blade servers, as well the total wattage sum of unfilled grant requests to blade servers.
- You can view the power allocations for a managed device from the web interface, CLI, or SNMP interface. To locate instructions on how to perform this task from an SNMP client, see the Related Information section that follows these instructions.

To view the power allocations for a managed device from the web interface or the CLI, perform one of these procedures.

- View power allocations Web Procedure 1
- View power allocations CLI Procedure 2

1. View Power Allocations - Web Procedure

- a. In the Oracle ILOM SP web interface, click Power Management > Allocations.
- b. In the Power Allocation Plan page, view the power allocation requirements shown for the managed device.
- 2. View Power Allocations CLI Procedure
 - a. To view the total sum of power allocated to a managed device, perform one of the following:
 - From a server SP, type: show /SP/powermgmt/budget
 - From a CMM, type:

```
show /CMM/powermgmt grantable_power
- or -
To view total sum of power allocated to blade slots, type:
show /CMM/powermgmt allocated_power
```

- b. To view the power wattage allocated to a component (fans, CPUs, and so forth) on a managed device, perform one of the following:
 - From a server SP, type:

show /SP/powermgmt/powerconf/component_type/component_name

■ From a CMM, type:

```
show /CMM/powermgmt/powerconf/component_type/component_name
```

To view the sum of power granted to all blade slots (or the sum of power reserved for all auto-powered I/O blade slots), type:

```
show /CMM/powermgmt/powerconf/bladeslots - or -
```

To view the sum of power granted to an individual blade server, type:

```
show /CMM/powermgmt/powerconf/bladeslot/BLn
```

where the *component_type* is the name of the component category, the *component_name* is the name of the component, and *n* is the blade slot number.

Related Information

- "View the Power Allocation Plan for a Managed Device" in Oracle ILOM User's Guide for System Monitoring and Diagnostics Firmware Release 4.0.x
- "Power Consumption Terminology and Properties" in *Oracle ILOM User's Guide for System Monitoring and Diagnostics Firmware Release 4.0.x*

Set SPARC Power Management Policy

Before You Begin

- The *disabled* power policy enables the SPARC server to consume all available power permitted and to operate at full speed.
- The *performance* power policy enables unused and idle components in the system to operate at a slower speed or to go into a sleep state, resulting in power savings with little impact to performance.
- The *elastic* power policy enables the SPARC server to adapt to the current power requirements of the components.
 - For example, when the elastic power policy is enabled, Oracle ILOM keeps relative power usage at 70 percent at all times (even if the server workload fluctuates) by moving server components in or out of a slower speed or a sleep state.
- You need Administrator (a) role privileges in Oracle ILOM to modify the power policy settings for a SPARC server.
- You can manage the power policy for a SPARC server from the web interface, CLI, or SNMP interface. To locate instructions on how to perform these tasks from an SNMP client, see the Related Information section that follows these instructions.

To set the power policy on a SPARC server from the CLI or web interface, follow one of these procedures:

- Set the SPARC power policy Web Procedure 1
- Set the SPARC power policy CLI Procedure 2

1. Modify the SPARC Power Policy – Web Procedure

a. To view the set power policy property from the SPARC server SP web interface, click Power Management > Settings.

The Power Management Page appears.

- b. To modify the property value set for power policy on the SPARC managed device, select one of the following options: *Performance*, *Elastic*, or *Disabled*.
- c. Click Save to save the Power Policy setting.
- 2. Modify the SPARC Power Policy CLI Procedure
 - a. To view the set power policy property from the SPARC server SP CLI, type:
 - -> show /SP/powermgmt policy
 - b. To modify the property value set for power policy on the SPARC server, type:
 - -> set /SP/powermgmt policy=performance|elastic

where the values for *performance*|*elastic* appear, type either *performance*, *elastic* or *disabled*.

When prompted, type: \mathbf{y} to confirm the action or \mathbf{n} to cancel the action.

Related Information

- "Setting System Management Power Source Policies" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x
- "Power Consumption Terminology and Properties" in Oracle ILOM User's Guide for System Monitoring and Diagnostics Firmware Release 4.0.x

▼ View Power Consumption Statistics and History

Before You Begin

- The *power statistics* in Oracle ILOM enables you to view the power usage on a managed device over the last 15-, 30-, and 60-second intervals. It also identifies the date and time for the peak power wattage usage on the managed device.
- The *power history* in Oracle ILOM enables you to view the minimum, average, and maximum power usage on a managed device for the last hour or 14 days. It also identifies the date and time for the peak power wattage usage on the managed device.
- The power consumption statistics and history data in Oracle ILOM are viewable from the server SP web interface, CMM web interface, and the CMM CLI. They are not viewable from the server SP CLI.

To view the power consumption statistics and history for a managed device from the web interface or the CLI, perform one of these procedures:

- View power statistics and history Web Procedure 1
- View power statistics and history CLI Procedure 2

1. View Power Statistics and History – Web Procedure

a. To view the power consumption statistic from the SP or CMM web interface, click Power Management > Statistics.

The power usage statistics appear in 15-, 30-, and 60-second intervals for the managed device.

Additionally, for the CMM power statistics view only, you can toggle the view between the chassis power usage and the blade server power usage.

To view the Power History from the SP or CMM web interface, click Power Management > History.

The power history for the minimum, average, and maximum power usage appears for the managed device.

You can toggle the view between one hour and 14 days.

Additionally, for the CMM power history view only, you can toggle the view between the chassis power usage and the blade server power usage.

2. View Power Statistics and History — CLI Procedure

a. To view the power statistics from the CMM CLI, type one of the following:

show /CH/VPS/history
show /CH/VPS/history/0/list

b. To view the power history from the CMM CLI, type:

show /CH/VPS/history/1/list

Related Information

 "Analyzing Power Usage Statistics" in Oracle ILOM User's Guide for System Monitoring and Diagnostics Firmware Release 4.0.x

Routine Maintenance Tasks

- "Collect System Information for a Managed Device" on page 36
- "Locate a Managed Device Using the Locator LED" on page 37
- "Modify the Power State on a Managed Device" on page 38
- "Reset Oracle ILOM on a Managed Device" on page 40
- "Update Firmware on a Managed Device" on page 41
- "Log In to the Host OS From a Remote Serial Console" on page 43

Collect System Information for a Managed Device

To gather system information for a managed device (such as the part number, serial number, system status, or firmware version), you can use the CLI or web interface.

- Collect system information for managed device Web Procedure 1
- Collect system information for managed device CLI Procedure 2

1. Collect System Information – Web Procedure

- a. In the SP or CMM web interface, click System > Summary. Summary page appears.
- b. In the General Information table, locate and record the property values for Part Number, Serial Number, and Firmware Version.
- c. At the top of the Status table, locate and record the status state shown for Overall Status and the value shown for Total Problem Count.

2. Collect System Information — CLI Procedure

■ To view the health state, health details, part number, serial number, or firmware version for a managed device, in the SP or CMM CLI type:

show /System

Note - Alternatively, on some Oracle servers and blade chassis systems, you can use the legacy Oracle ILOM 3.0 CLI /SYS target to view the health status, part number, serial number and firmware version.

Related Information

- "Check System Status and View Open Problems" on page 24
- "Manually Clear Fault Messages" on page 25
- "Manage System, Event, and Audit Log Entries" on page 27

▼ Locate a Managed Device Using the Locator LED

Before You Begin

- You need User Management (u) role privileges to modify the Locator Indicator settings in Oracle ILOM.
- The Locator LED on a managed device is typically located on both the front and back panel of the device.

To locate an Oracle server or a CMM among many servers and CMMs in a data center, you can illuminate the Locator LED on a managed device from the Oracle ILOM CLI or web interface.

- Modify locator indicator state Web Procedure 1
- Modify locator indicator state CLI Procedure 2
- 1. Modify Locator Indicator State Web Procedure
 - a. In the SP or CMM web interface, click System Information > Summary. The Summary page appears.
 - b. To turn on or off the Locator LED on a managed device, click the Locator Indicator button in the Actions panel.

A message appears prompting you to confirm the action.

- **c.** To confirm the action, click Yes to proceed, or click No to cancel. Oracle ILOM updates the state of the Locator Indicator property in the Actions panel.
- 2. Modify Locator Indicator State CLI Procedure
 - To illuminate the Locator LED from a server SP or CMM, type:
 - -> set /System/LOCATE value=fast_blink

Type y to confirm the action or n to cancel the action.

- To disable the Locator LED from a server SP or CMM, type:
 - -> set /System/LOCATE value=off

Type y to confirm the action or n to cancel the action.

Related Information

- "Troubleshooting Oracle ILOM Managed Devices" in Oracle ILOM User's Guide for System Monitoring and Diagnostics Firmware Release 4.0.x
- "SNMP Overview" in Oracle ILOM Protocol Management Reference SNMP and IPMI Firmware Release 4.0.x

▼ Modify the Power State on a Managed Device

Before You Begin

• You need Admin (a) role privileges to modify the power state on a managed device.

To modify the power state on a server SP or CMM, you can use the Oracle ILOM CLI or web interface.

- Modify managed device power state Web Procedure 1.
- Modify managed device power state CLI Procedure 2.

1. Modify Managed Device Power State – Web Procedure

a. In the SP or CMM web interface, click Host Management -> Power Control.
 Power Control page appears.

Note - For CMM only, click the radio button adjacent to the chassis device listed in the Remote Power Control table.

- b. To set the power state on a managed device, select one of the following options:
 - Reset This SP-specific option power-cycles the managed server, while keeping power applied to system components (such as disk drives and so on).
 - Graceful Reset This SPARC SP specific option gracefully shuts down the host OS prior to power-cycling the managed SPARC server.
 - Immediate Power Off This option immediately powers off the managed device.
 - Graceful Shutdown and Power Off This option gracefully powers down the OS prior to powering off the managed device.
 - Power On (default setting) This option applies full power to the managed device.
 - Power Cycle This option powers off the managed device, then applies full power to the managed device.

2. Modify Managed Device Power State – CLI Procedure

To set the power state on a managed device from the SP or CMM CLI, perform one of the following actions:

Reset – To power-cycle the managed x86 server or a blade system chassis, while keeping power applied to system components (such as disk drives and so on) type:

reset /System

To power-cycle a managed SPARC server, type:

reset -force /System

 Graceful Reset (SPARC SP only) – To gracefully shut down the host operating system prior to power-cycling a SPARC server, type:

reset /System

Immediate Power Off – To immediately power off a managed server or blade system chassis, type:

stop -force /System

 Graceful Shutdown and Power Off – To shut down the OS gracefully prior to powering off a managed server or a blade system chassis, type:

stop /System

■ Power On (default setting) – To apply full power to a managed server or a blade system chassis, type:

start /System

Related Information

■ "Setting CMM Power Grant and SP Power Limit Properties" in *Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x*

▼ Reset Oracle ILOM on a Managed Device

Before You Begin

- You need Reset and Host Control (r) privileges to reset Oracle ILOM on the server SP or CMM.
- Resetting Oracle ILOM on a managed device does not have any affect on the operating system.

 Resetting Oracle ILOM on a server SP or CMM disconnects the current Oracle ILOM session(s) and renders the management connection unmanageable until the reset process completes.

You can reset the Oracle ILOM on the SP or CMM using the CLI or web interface.

- Reset Oracle ILOM SP or CMM Web Procedure 1
- Reset Oracle ILOM SP or CMM CLI Procedure 2

1. Reset Oracle ILOM SP or CMM — Web Procedure

To reset Oracle ILOM from the server SP or CMM web interface, perform one of the following:

- For the server SP, click System Information > Maintenance > Reset SP, and then click the Reset button.
- For the CMM, click System Information > Maintenance > Reset Components, and then select the appropriate chassis component from the table and click the Reset button.

Reset Oracle ILOM SP or CMM — CLI Procedure

To reset the Oracle ILOM server SP, CMM, or blade SP, type one of the following:

```
reset /SP
reset /CMM
reset /Servers/Blades/BLn/SP
```

Related Information

 "Reset Power to Service Processor or Chassis Monitoring Module" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x

▼ Update Firmware on a Managed Device

Before You Begin

- If required by your platform, shut down the host operating system prior to updating the firmware image on the server SP.
- You need Admin (a) role privileges to update the firmware on an Oracle server SP or CMM.
- You can initiate the firmware update process from the web interface, CLI, or SNMP client.

The procedures in this section describe how to initiate the firmware update process from the web interface and CLI. To locate instructions on how to perform this task using an SNMP client, or how to manage firmware updates across a modular chassis system, see the Related Information section following these instructions.

 The firmware update process takes several minutes to complete. During this time, do not perform other Oracle ILOM tasks. When the firmware update is complete, the system reboots.

To initiate the firmware update process from the SP or CMM CLI or web interface:

1. Determine the current firmware version installed on the server SP or CMM.

- For the web interface, click System Information > Summary, and view the property value for the System Firmware Version in the General Information table.
- For the CLI, at the command prompt, type: version

For information about the numbering scheme used to identify a firmware version, refer to the *Oracle ILOM Feature Updates and Release Notes*, *Firmware Release 3.2.x.*

2. Open a new web browser tab or window and navigate to the following site to download the Oracle ILOM firmware image.

http://support.oracle.com/

For detailed instructions on downloading software updates from the My Oracle Support web site, refer to the *Oracle ILOM Feature Updates and Release Notes*.

Note - Updating the system firmware image on a managed device to a prior firmware release is not recommended. However, if an earlier firmware release is required, Oracle ILOM will support the firmware update process to any prior firmware release that is available from the download site.

3. Place the firmware image on a server supporting one of the following protocols: TFTP, FTP, HTTPS.

- For a web interface firmware update, copy the image to the system on which the Oracle ILOM web browser is running.
- For a CLI firmware update, copy the image to a server that is accessible from your network.

To update the Oracle ILOM firmware image from the SP or CMM web interface, click ILOM Administration > Maintenance > Firmware Upgrade, and then click Enter Upgrade Mode.

For detailed instructions about using the firmware update dialogs, refer to *Oracle ILOM Administrator's Guide for Configuration and Maintenance*.

5. To update the Oracle ILOM firmware image from the Oracle ILOM server SP or CMM CLI, type:

-> load -source supported_protocol://server_ip/path_to_firmware_image/ filename.xxx For detailed instructions about using the CLI firmware update prompts, refer to *Oracle ILOM Administrator's Guide for Configuration and Maintenance*.

Verify that the appropriate firmware version was installed after the system reboots.

Related Information

- "Update the Server SP or CMM Firmware Image" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x
- "Update Blade Chassis Component Firmware Images" in *Oracle ILOM Administrator's* Guide for Configuration and Maintenance Firmware Release 4.0.x

▼ Log In to the Host OS From a Remote Serial Console

Before You Begin

- You need console (c) privileges to launch a remote serial console from the Oracle ILOM CLI. In addition, you also need user credentials to access the operating system on the host server.
- The power state on the host server must be powered on.

To log in to the host server operating system (OS) from the Oracle ILOM SP CLI:

1. Type:

start /host/console

A message appears prompting you to specify user credentials.

Type the required user credentials to access the host server OS.

You are now logged into the host server OS through your remote serial console.

Note - To issue standard Oracle ILOM CLI commands, you must first exit the remote serial console.

3. To exit the remote serial console, press these keys ESC and (...

Related Information

- "Install Software Using Remote KVMS" on page 22
- "Modify the Power State on a Managed Device" on page 38
- "Using Remote KVMS Consoles for Host Server Redirection" in Oracle ILOM Administrator's Guide for Configuration and Maintenance Firmware Release 4.0.x

Initial Setup FAQs

Question: Does the Oracle ILOM service processor (SP) boot up automatically?

Answer: The Oracle ILOM service processor boots automatically when a power cable is connected to your Oracle server or blade chassis system. For information about how

to connect a power cable to your system chassis or rackmount server, refer to the hardware installation documentation shipped with your rackmount server or system

chassis.

Question: Where can I locate documentation for connecting a serial console or terminal to

a managed device?

Answer: Refer to the Oracle server or blade chassis hardware installation guide.

Question: Is a root account provided with Oracle ILOM?

Answer: Oracle ILOM is shipped from the factory with a preconfigured root account. You

should use the preconfigured root account for initial login and initial setup of user

account(s).

To prevent unauthorized access to the managed device, you should change the preconfigured root account (login: root password: changeme) on each service

processor (SP) or chassis monitoring module (CMM).

Question: What format does Oracle ILOM accept for IPv4 and IPv6 network addresses?

Answer: If Oracle ILOM is operating in a dual-stack network environment, the IP address can be entered using either an IPv4 or IPv6 address format.

For example:

■ IPv4 format: 10.8.183.106

■ IPv6 format: fec0:a:8:b7:214:4fff:5eca:5f7e/64

Question: Are factory default settings provided with Oracle ILOM?

Answer:

Factory default settings are provided for most Oracle ILOM system management features. You can use these default settings, or you can customize them to meet your needs. For a list of factory default settings shipped with Oracle ILOM, see "Factory Default Settings" on page 9.

Question: Which Oracle ILOM user interface should I use?

Answer:

Most all Oracle ILOM features and functions are accessible from both the web interface and command-line interface (CLI). A sub-set of Oracle ILOM features and functions are also available from the SNMP interface and IPMI interface. For more information about Oracle ILOM features that are supported by SNMP and IPMI, refer to the Oracle ILOM Protocol Management Reference.

Question: I am not able to establish a network management connection to Oracle ILOM.

Answer: [

If you are experiencing difficulties with connecting to Oracle ILOM, see the following suggested solutions for resolving connection issues:

- Verify that a physical Ethernet connection between your network and the NET MGT port on your Oracle server or blade chassis is established.
- For a local (non-network) connection to Oracle ILOM, ensure that the IPv4 state is enabled, or both the IPv4 and IPv6 states are enabled for dual-stack network environments.
- Use a command-line network tool, like Ping, to verify connectivity to the network.
- For IPv6 management connections, ensure that the IPv6 address in the URL is enclosed by brackets.

For example:

Web interface URL format:

https://[fe80::221:28ff:fe77:1402]

- CLI download file URL format:
 - -> load -source tftp://[fec0:a:8:b7:214:rfff:fe01:851d]desktop.pkg

Question: If I prematurely deleted the root account, how can I recreate it?

Answer:

You can recover the Oracle ILOM root account provided with Oracle's x86 servers by using the Oracle ILOM Preboot Menu. For instructions, see the *Diagnostics Guide for x86 Servers*.

You can also recover the Oracle ILOM root account on the server SP or CMM by resetting the SP or CMM to factory defaults. In the web interface, click ILOM Administration > Configuration Management > Reset Defaults. Resetting the defaults to factory, removes all log files and reverts all configuration properties to default values.

For further information about recovering the root account provided with Oracle ILOM, contact Oracle Services.

Question: What are the latest features available with Oracle ILOM?

Answer: The *Oracle ILOM Feature Updates and Release Notes* identifies the new feature for each Oracle ILOM firmware release.