Oracle® Integrated Lights Out Manager (ILOM) 3.0

Quick Start Guide

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Contents

Using This Documentation

This guide will help you get the Oracle Integrated Lights Out Manager (ILOM) 3.0 firmware up and running so that you can remotely manage your Oracle Sun servers and Oracle Sun blade chassis systems. Although this guide provides only the details you need to get started with Oracle ILOM, more in-depth information is available from the *Concepts* and *Procedures Guide* topics listed in the Related Information sections.

Use this guide in conjunction with other guides in the Oracle ILOM 3.0 Documentation Library. This guide is intended for technicians, system administrators, authorized Oracle service providers, and users who have experience managing system hardware.

- "Documentation and Feedback" on page vi
- "Product Downloads" on page vii
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- "Documentation, Support, and Training" on page ix

Documentation and Feedback

You can download the Oracle ILOM 3.0 Documentation Library at:
(http://www.oracle.com/pls/topic/lookup?ctx=E19860-01&id=homepage)

Application	Title	Format
Online Documentation Set	*Oracle Integrated Lights Out Manager (ILOM) 3.0 HTML Documentation Collection*	HTML
Quick Start	*Oracle Integrated Lights Out Manager (ILOM) 3.0 Quick Start Guide*	PDF
Remote KVMS	*Oracle Integrated Lights Out Manager (ILOM) 3.0 Remote Redirection Consoles — CLI and Web Guide*	PDF
Daily Management Features	*Oracle Integrated Lights Out Manager (ILOM) 3.0 Daily Management — Concepts Guide*	PDF
Daily Management Web Procedures	*Oracle Integrated Lights Out Manager (ILOM) 3.0 Daily Management — Web Procedures Guide*	PDF
Daily Management CLI Procedures	*Oracle Integrated Lights Out Manager (ILOM) 3.0 Daily Management — CLI Procedures Guide*	PDF
Protocol Management	*Oracle Integrated Lights Out Manager (ILOM) 3.0 Protocol Management — SNMP, IPMI, CIM, WS-MAN Guide*	PDF
CMM Administration	*Oracle Integrated Lights Out Manager (ILOM) 3.0 CMM Administration Guide for Sun Blade 6000 and 6048 Modular Systems*	PDF
Maintenance and Diagnostics	*Oracle Integrated Lights Out Manager (ILOM) 3.0 Maintenance and Diagnostics — CLI and Web Guide*	PDF
Late-Breaking Information	*Oracle Integrated Lights Out Manager (ILOM) 3.0 Feature Updates and Release Notes*	PDF

You can provide feedback on this documentation at:
(http://www.oracle.com/goto/docfeedback)

Product Downloads

Updates to the Oracle ILOM 3.0 firmware are available through standalone software updates that you can download from the My Oracle Support (MOS) web site for each Sun server or Sun blade chassis system. To download these software updates from the MOS web site, see the instructions that follow.

▼ Download Product Software and Firmware

1. **Go to** (http://support.oracle.com).

2. **Sign in to My Oracle Support.**

3. **At the top of the page, click the Patches and Updates tab.**

4. **In the Patches Search box, select Product or Family (Advanced Search).**

5. **In the Product? Is field, type a full or partial product name, for example Sun Fire X4470, until a list of matches appears, and then select the product of interest.**

6. **In the Release? Is list box, click the Down arrow.**

7. **In the window that appears, click the triangle (>) by the product folder icon to display the choices, then select the release of interest.**

8. **In the Patches Search box, click Search.**

   A list of product downloads (listed as patches) appears.

9. **Select the patch name of interest, for example Patch 10266805 for the ILOM and BIOS portion of the Sun Fire X4470 SW 1.1 release.**

10. **In the right pane that appears, click Download.**

Oracle ILOM 3.0 Firmware Version Numbering Scheme

Oracle ILOM 3.0 uses a firmware version numbering scheme that helps you to identify the firmware version you are running on your server or chassis monitoring module (CMM). This numbering scheme includes a five-field string, for example, `a.b.c.d.e`, where:

- `a` – Represents the major version of Oracle ILOM.
- `b` – Represents a minor version of Oracle ILOM.
- `c` – Represents the update version of Oracle ILOM.
- `d` – Represents a micro version of Oracle ILOM. Micro versions are managed per platform or group of platforms. See your platform product notes for details.
- `e` – Represents a nano version of Oracle ILOM. Nano versions are incremental iterations of a micro version.

For example, Oracle ILOM 3.1.2.1.a would designate:

- Oracle ILOM 3 as the major version
- Oracle ILOM 3.1 as a minor version
- Oracle ILOM 3.1.2 as the second update version
- Oracle ILOM 3.1.2.1 as a micro version
- Oracle ILOM 3.1.2.1.a as a nano version of 3.1.2.1

Tip – To identify the Oracle ILOM firmware version installed on your Sun server or CMM, click System Information --> Versions in the web interface, or type `version` in the command-line interface.

Documentation, Support, and Training

These web sites provide additional resources:

- Documentation (http://www.oracle.com/technetwork/indexes/documentation/index.html)
- Support (https://support.oracle.com)
- Training (https://education.oracle.com)

Oracle ILOM 3.0 – Quick Start

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Factory Default Settings

TABLE: Oracle ILOM 3.0 Factory Default Property Values

Property	Default Value	For details, see
IPv4	DHCP enabled; Automatic DNS	Network settings in the *Daily Management Concepts*, *Web Procedures*, or *CLI Procedures Guide*.
IPv6	Stateless auto-configuration enabled; Automatic DNS	
IPMI	Enabled	IPMI server management in the *Protocol Management Reference*.
Serial consoles port	Enabled: serial port 9600; baud, no flow	Network ports in the *Daily Management Concepts Guide*.
SNMP management	Enabled: port 161	SNMP server management in the *Protocol Management Reference*.
SNMP service state	Enabled	
SNMP set (write permission)	Disabled	
Security certificate or private key	None	SSL certificate in the *Daily Management Web Procedures* or *CLI Procedures Guide*.
SSH	Enabled	Configure secure shell settings in the *Daily Management CLI Procedures Guide*.
Session time-out	15	Set time-out session in the *Daily Management Web Procedures* or *CLI Procedures Guide*.
SP clock	GMT	Configure clock settings in the *Daily Management Web Procedures* or *CLI Procedures Guide*.
SMTP client	Enabled	SNTP client in the *Daily Management Web Procedures* or *CLI Procedures Guide*.
LDAP	Disabled	User management in the *Daily Management Concepts*, *Web Procedures*, or *CLI Procedures Guide*.
RADIUS users	Disabled	
Active Directory	Disabled	
Factory `root` account	Login: `root` Password: `changme`	"Add New Users to Oracle ILOM" on page 6

TABLE: Oracle ILOM 3.0 Factory Default Property Values *(Continued)*

Property	Default Value	For details, see
Web interface ports	Enabled port: 80; SSL443	Network ports and protocols in the *Daily Management Concepts Guide*.
Storage Redirection CLI socket port on management station	2121	Remote storage redirection in the *Remote Redirection Consoles CLI and Web Guide*.
Power consumption notifications	Disabled	Alert management in the *Daily Management Concepts*, *Web Procedures*, or *CLI Procedures Guide*.

Mandatory Setup Tasks

- "Connect to Oracle ILOM" on page 3
- "Log In to Oracle ILOM" on page 5
- "Add New Users to Oracle ILOM" on page 6

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

1. Local Serial Management Connection Procedure

a. Attach a serial cable between a console (workstation or terminal) and the SER MGT port on the server or the Sun 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 will be required. Use the adapter cable that is supplied with your system to achieve a null modem configuration.

    b. Press Enter on the terminal device to create a connection between the terminal device and the Oracle ILOM SP or CMM.

2. Network Management Connection Procedure

    a. 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 Sun 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 Settings" on page 11.

    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 28
- "Log In to Oracle ILOM" on page 5
- "Modify Default Network Settings" on page 11
- *Oracle ILOM 3.0 Daily Management Concepts*, network management
- *Sun Blade Chassis Modular System 6000 or 6048 Installation*, connecting cables and apply power to the system
- Sun server installation guide, connecting cables and applying power to the system
- Sun x86 server service manual, configuring 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 – Login Procedure 1
- Web browser-based network management connection – Login Procedure 2
- Command-line SSH network management connection – Login Procedure 3

Note – The following procedure assumes that you will use the `root` account to initially log in to ILOM. This account provides built-in administrative privileges (read and write) for all Oracle ILOM features, functions, and commands. To prevent unauthorized access to system, you should change the root account password (changeme) on each service processor (SP) or chassis monitoring module (CMM).

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1. **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` **user account and the password,** `changeme`**.**

      The Oracle ILOM web interface appears.

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

   a. **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** `changme`**.**

      The ILOM CLI prompt appears (->).

Related Information

- "Connect to Oracle ILOM" on page 3
- "Add New Users to Oracle ILOM" on page 6

- *Oracle ILOM 3.0 Daily Management Web Procedures*, configuring user accounts
- *Oracle ILOM 3.0 Daily Management Web Procedures*, logging in to and out of Oracle ILOM
- *Oracle ILOM 3.0 Daily Management CLI Procedure*, logging in to and out of Oracle ILOM

▼ Add New Users to Oracle ILOM

Before You Begin

- You can create up to 10 local user accounts in Oracle ILOM.

  To locate instructions for configuring Oracle ILOM for 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 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 ILOM as a root user. For root user login instructions, see "Log In to Oracle ILOM" on page 5.

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**

   a. **In the Oracle ILOM web interface, click User Management --> User Accounts.**

   b. **In the Users table, click Add.**

      The Add User dialog appears.

   c. **In the Add User dialog, 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, and Advanced. For a description of each user role profile, see EXAMPLE: Oracle ILOM User Role Descriptions on page 8.

   d. **Click Save to add the user account properties.**

2. **Add New Local User Accounts – CLI Procedure**

   a. **To add a local user account using the Oracle ILOM CLI, type:**

   ```
   —> create /SP/users/username password=password
   ```

   For example:

   ```
   -> create /SP/users/user5
   Creating user...
   Enter new password: ********
   Enter new password again: ********
   Created /SP/users/user5
   ```

   b. **Type the following command to assign a role to the user account:**

   ```
   —> set /SP/users/username role=aucr
   ```

   For example:

   To grant **user5** read and write permissions to all user role privileges, type:

   ```
   -> set /SP/users/user5 role=aucro
   Set 'role' to 'aucro'
   ```

Note – `aurco` is equivalent to the setting the Administrator role profile option in the web interface.

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

EXAMPLE: Oracle ILOM User Role Descriptions

User Role Descriptions	
User role profiles (web)	**User role profile permissions granted (web)**
Administrator	When selected, the Administrator role profile in the Oracle ILOM web interface automatically grants read and write permissions to the following user roles: • Admin (a) • User Management (u) • Console (c) • Reset and Host Control (r) • Read only (o) For definitions of roles supported by the Administrator role profile, see the user role definitions listed in this table under **User role permissions granted (CLI)**.
Operator	When selected, the Operator role profile in the Oracle ILOM web interface automatically grants the following user role permissions: • Console (c) • Reset and Host Control (r) • Read only (o) For definitions of roles granted by the Operator role profile, see the user role definitions listed in this table under **User role permissions granted (CLI)**.
Advanced	When selected, the Advanced role profile in the Oracle ILOM Web interface automatically grants Read Only (o) permissions to all Oracle functions and enables you to assign all or any combination of the following role permissions of interest: • Admin (a) • User Management (u) • Console (c) • Reset and Host Control (r). • Services (s) For definitions of roles granted by the Advanced role profile, see the user role definitions listed in this table under **User role permissions granted (CLI)**.
User roles (CLI)	**User role permissions granted (CLI)**
(a)	Admin (a) – Read and write permissions are granted to a user for all Oracle ILOM system management functions with the exception of the functions that would require the Admin to have these additional user roles enabled: User Management (u), Reset and Host Control (r), Console (c), and Services (s).
(u)	User Management (u) – Read and write permissions are granted to a user for all Oracle ILOM user account management functions.
(c)	Console (c) – Read and write permissions are granted to a user to perform these remote console management functions: manage remote console lock options, manage SP console history log options, launch and use Oracle ILOM Remote Console, and launch and use Oracle ILOM Storage Redirection CLI.

User Role Descriptions	
(r)	Reset and Host Control (r) – Read and write permissions are granted to a user to perform these remote host management functions: host boot device control, run and configure diagnostics utilities, reset SP, reset CMM, component management service actions, fault management actions, SPARC TPM management actions, and downloads of SNMP MIBs.
(o)	Read-Only (o) – Read-only permissions are granted to a user to view the state of all ILOM configuration properties. In addition, write permissions are granted to a user to change only the password and session time-out properties assigned to their own user account.
(s)	Services (s) – Read and write permissions are granted to a user to assist Oracle service engineers if on-site service is required.
(aucro)	A combination of all these users roles (aucro) grant read and write permissions to a user to perform backup and restore configuration functions. **Note -** `aucro` is equivalent to the Administrator user role profile in the web interface.

Related Information

- *Oracle ILOM 3.0 Daily Management Concepts*, user management
- *Oracle ILOM 3.0 Daily Management Web Procedures*, configure active directory properties
- *Oracle ILOM 3.0 Daily Management Web Procedures*, configure LDAP properties
- *Oracle ILOM 3.0 Daily Management Web Procedures*, configure RADIUS properties
- *Oracle ILOM 3.0 Daily Management CLI Procedures*, user management
- *Oracle ILOM 3.0 Daily Management CLI Procedures*, configure active directory properties
- *Oracle ILOM 3.0 Daily Management CLI Procedures*, configure LDAP properties
- *Oracle ILOM 3.0 Daily Management CLI Procedures*, configure RADIUS properties
- *Oracle ILOM 3.0 Protocol Management Reference*, SNMP, user management
- *Oracle ILOM 3.0 Protocol Management Reference*, SNMP, IPMI administrator and operator roles

Optional Setup Tasks

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

▼ Set Descriptive System Identification Labels

Before You Begin

- Admin (a) role privileges are required to set SP system identification labels in Oracle ILOM.

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

- Set descriptive system identification labels – Web Procedure 1
- Set descriptive system identification labels – CLI Procedure 2

1. **Web Procedure – Set Descriptive System Identification Labels**

   a. **To set descriptive system identification labels from the web interface, click System Information --> Identification Information.**

   The Identification Information page appears providing fields to specify:

   - SP Hostname – Type a host name for the SP.
     The SP host name can contain up to 60 characters. It must begin with a letter and it must contain only alphanumeric, hyphen, and underscore characters.

   - SP System Identifier –Type system identifier for the SP. The system identifier can consist of a text string using any standard keyboard keys except quotation marks.

   - SP System Contact – Type a system contact for the SP. The system contact can consist of a text string using any standard keyboard keys except quotation marks.

- SP System Location – Type a system location for the SP. The system location can consist of a text string using any standard keyboard keys except quotation marks.

  b. Click Save for your settings to take effect.

2. CLI Procedure – Set Descriptive System Identification Labels

  a. To view the system SP identification labels from the CLI, type:

  -> **show /SP**

  b. To set identification labels for the SP, type:

  - -> **set /SP hostname=***text_string*
  - -> **set /SP system_identifier=***text_string*
  - -> **set /SP system_contact=***text_string*
  - -> **set /SP system_location=***text_string*

  Where:

  The *text_string* for hostname can contain up 60 characters and include alphanumeric characters, hyphen, and underscore characters.

  The *text_string* for system_identifier can identify the system contact or system location. It can include all standard keyboard keys except for quotation marks.

Related Information

- *Oracle ILOM 3.0 Daily Management Web Procedures*, assign host name and system identifier
- *Oracle ILOM 3.0 Daily Management CLI Procedures*, assign host name and system identifier

▼ Modify Default Network 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 .
- 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 will automatically configure 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 will automatically configure its dynamic address using the IPv6 router advertisement messages. In addition, the SP or the CMM will always generate a non-routable Link-Local IPv6 address, which allows it to be reachable from its local subnet.

Note – The IPv6 network setting are supported in Oracle ILOM as of Oracle ILOM version 3.0.12 or later.

- Admin (a) role privileges are required to modify network settings in Oracle ILOM.
- You can modify the network settings in Oracle ILOM using the CLI or web interface, or by using an SNMP client. To locate instructions on performing this task from an SNMP client, see the Related Information section following this procedure.

To modify the default network settings in Oracle ILOM, perform one of the following steps:

- Modify default network settings – Web Procedure 1
- Modify default network settings – CLI Procedure 2

1. **Modify Default Network Settings – Web Procedure**

    a. **Click Configuration --> Network.**

    b. **To assign a static IPv4 address, 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 Network Settings – CLI Procedure**

    a. **To change the default IPv4** dhcp **property and set property values for a static IPv4 address, type:**

    -> **set /SP/network pendingipdiscovery=static pendingipaddress=***<IPv4_address>* **pendingipgateway=***<gateway_address>* **pendingipnetmask=***<netmask_address>*

b. **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 *property 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*

c. **To save** `static` **IPv4 or IPv6 property changes, navigate to the** `/network`
target and type:

`-> ` **`set commitpending=true`**

Related Information

-
- *Oracle ILOM 3.0 Daily Management Concepts*, Oracle ILOM communication settings
- *Oracle ILOM 3.0 Daily Management Web Procedures*, configure Oracle ILOM's communication settings
- *Oracle ILOM 3.0 Daily Management CLI Procedures*, configure network settings
- *Oracle ILOM 3.0 Protocol Management Reference*, configure network settings

▼ Install Software Using Remote KVMS

Before You Begin

- The Oracle ILOM Remote Console, available from the 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.

- Console (c) role privileges are required to operate the Oracle ILOM Remote Console.

- The Java Runtime Environment (1.5 or later) must be installed on your local system.

 To launch the Oracle ILOM Remote Console in the web interface, follow these steps:

1. **To verify that the default KVMS settings provided in Oracle ILOM match your desktop environment, perform these steps:**

   a. **In the web interface, click Remote Control --> KVMS.**

   b. **In the KVMS 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 chosen for Oracle Solaris-based operating systems, and relative mode is chosen for Linux-based operating systems.

      Tip – To toggle the keyboard or mouse input between the managed server and the local desktop, use one of the following key sequences: **alt-m** (for mouse) or **alt-k** (for keyboard).

2. **For Windows Internet Explorer (IE) web browser users, register the 32-bit JDK file on your local system before launching the Oracle ILOM Remote Console.**

   a. **In the Windows Explorer dialog, 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 Console, click Remote Control --> Redirection --> Launch Remote Console.**

   For details about how to use the redirection options available in the Oracle ILOM Remote Console, refer to *Oracle ILOM 3.0 Remote Redirection Console Guide*.

Related Information

- *Oracle ILOM 3.0 Remote Redirection Consoles*, overview

- *Oracle ILOM 3.0 Remote Redirection Consoles*, Oracle ILOM Remote Console initial setup
- *Oracle ILOM 3.0 Remote Redirection Consoles*, launching Oracle ILOM Remote Console redirection
- *Oracle ILOM 3.0 Remote Redirection Consoles,* using Oracle ILOM Storage Redirection CLI to redirect storage devices

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Daily Management Tasks

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.

▼ Monitor System Status and View Faults

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

- Monitor system status and view faults – Web Procedure 1
- Monitor system status and view faults – CLI Procedure 1

1. **Web Procedure – Monitor System Status and View faults**

   a. **To monitor the system status, click System Information --> Overview.**

   View the System Status field to determine the current state of the system.

   b. **To view a list of faulty system components detected by Oracle ILOM, click System Information --> Fault Management.**

Note – Oracle ILOM populates this list only when it detects a system component in a faulted state.

2. **CLI Procedure – Monitor System Status and View Faults**

   a. **To monitor the system fault state from a server SP, type:**

   -> **show /SYS fault_state**

   Under the Properties verify the fault_state status.

   b. **To view a tabular output of faulty system targets, properties, and values, type:**

   -> show faulty

Related Information

- *Oracle ILOM 3.0 Daily Management CLI Procedures*, monitoring system
- *Oracle ILOM 3.0 Protocol Management Reference*, monitoring system sensors, indicators, and event log (SNMP)

▼ Clear System Component Fault States

Before You Begin

- Reset and Host Control (r) role privileges are required to clear the status of a faulted component.

To clear the state of a faulted component, you can use the Oracle ILOM CLI or web interface.

- Clear system component faults – Web Procedure 1
- Clear system component faults – CLI Procedure 2

1. **Web Procedure – Clear System Component Faults**

   To clear the state of a faulted component (*after fixing or replacing the faulted component*) in the web interface, perform these steps:

   a. **Click System Information --> Component.**

   b. **Select the radio button that is adjacent to the faulty components, then click Clear Faults.**

2. **CLI Procedure – Clear system component faults**

a. **To clear the state of a faulty component** (*after fixing or replacing the faulted component*)**, type:**

```
-> set component_path clear_fault_action=true
Are you sure you want to clear component_path (y/n)? y
Set 'clear_fault_action' to 'true'
```

Where *component_path* is one of the following faulted components:

- Host CPU (/SYS/MB/P#)
- Memory Riser (/SYS/MB/P0/MR#)
- DIMM (/SYS/MB/P0/MR0/D#)
- Motherboard (/SYS/MB)
- Fan module (/SYS/FM#)
- Power supply (/SYS/PS#)
- CMM (/CH/CMM)
- NEM (/CH/NEM#)
- PCI card (SYS/MB/PCIE#)

For example, to clear a fault on the host CPU, you would type the following:

```
-> set /SYS/MB/P0 clear_fault_action=true
Are you sure you want to clear /SYS/MB/P0 (y/n)? y
Set 'clear_fault_action' to 'true'
```

Related Information

- *Oracle ILOM 3.0 Daily Management CLI Procedures*, clear faults detected by Oracle ILOM
- *Oracle ILOM 3.0 Daily Management Web Procedures*, clear faults detected by Oracle ILOM

▼ View and Clear System Event Log

Before You Begin

- Admin (a) role privileges are required to modify the event log.

To view and clear the system event log, you can use the Oracle ILOM CLI or web interface.

- View and clear system event log – Web Procedure 1
- View and clear system event log – CLI Procedure 2

1. **Web Procedure – View and Clear System Event Log**

    a. **To view the system event log in the web interface, click System Monitoring --> Event Log.**

    Use the page navigation controls at the top and the bottom of the table to navigate through the available data in the table.

    b. **To clear all system event log entries, click the Clear Log button.**

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

2. **CLI Procedure – View and Clear System Event Log**

    a. **To view the system event log entries from the CLI, type:**

    -> **show /SP/logs/event/list**

    b. **To clear all system event log entries, type:**

    -> **set /SP/logs/event clear=true**

Related Information

- *Oracle ILOM 3.0 Web Procedures*, view and clear Oracle ILOM event log
- *Oracle ILOM 3.0 CLI Procedures*, scroll, dismiss, or clear the Oracle ILOM event log
- *Oracle ILOM 3.0 Protocol Management Reference*, view and clear Oracle ILOM event log

▼ Monitor System Power Consumption

Before You Begin

- The following procedure assumes that ILOM 3.0.8 or later is running on the server SP, or ILOM 3.0.10 or later is running on the CMM.
- You can monitor the system power consumption 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 this procedure.

To monitor the system power consumption from the CLI or web interface, follow one of these procedures:

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

1. **Web Procedure – Monitor System Power Consumption**

    a. **In the Oracle ILOM SP or Oracle ILOM CMM web interface, click Power Management -->Power Consumption.**

b. In the Power Consumption page, view the following system power metrics: actual power, target limit, and peak permitted.

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

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2. CLI Procedure – Monitor System Power Consumption

    a. To view the total system power consumptions from the CLI, type one of the following:

      ■ From the server SP:
        `-> show /SP/powermgmt actual_power`

        or

        `-> show /SYS/VPS`

      ■ From the CMM:
        `-> show /CH/powermgt actual_power`

        or

        `-> show /CH/VPS`

Related Information

- *Oracle ILOM 3.0 Concepts*, power management
- *Oracle ILOM 3.0 Web Procedures*, monitor power consumption
- *Oracle ILOM 3.0 CLI Procedures*, monitor power consumption
- *Oracle ILOM 3.0 Protocol Management Reference*, monitor power consumption

▼ Manage SPARC Server Power Policy

Before You Begin

- The following procedure assumes that ILOM version 3.0.8 or later is running on the SPARC server SP.
- Administrator (a) role privileges are required to modify the power policy settings in Oracle ILOM.
- 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 this procedure.

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

- Manage SPARC server power policy – Web Procedure 1
- Manage SPARC server power policy – CLI Procedure 2

1. **Web Procedure – Manage SPARC Server Power Policy**

   a. **In the Oracle ILOM SPARC server SP, click Power Management -->Settings.**

      The Power Management Page appears.

   b. **In the Power Policy list box, select either Performance or Elastic.**
      - **Performance** – The system is allowed to use all available power.
      - **Elastic** – The system power usage is adapted to the current utilization level. For example, the system will power up or down just enough system components to keep relative utilization at 70 percent at all times, even if workload fluctuates.

   c. **Click Save to save the Power Policy setting.**

2. **CLI Procedure – Manage SPARC Server Power Policy**

   a. **To view the current power policy property value set on SPARC server SP, type:**

      -> **show /SP/powermgmt policy**

   b. **To modify the power policy property value set on a SPARC server SP, type:**

      -> **set /SP/powermgmt policy=***Performance|Elastic*

Related Information
- *Oracle ILOM 3.0 Concepts*, power management
- *Oracle ILOM 3.0 Web Procedures*, set power policy
- *Oracle ILOM 3.0 CLI Procedures*, set power policy
- *Oracle ILOM 3.0 Protocol Management Reference*, set power policy

▼ Monitor Server Component Power Allocations

Before You Begin
- The following procedure assumes that ILOM 3.0.8 is running on the server.
- You can monitor the server component power allocations 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 this procedure.

To monitor the power allocations for an Oracle Sun server from the web interface or the CLI, perform one of these procedures.

- Monitor server component power allocations – Web Procedure 1

- Monitor server component power allocations – CLI Procedure 2

1. **Web Procedure – Monitor Server Component Power Allocations**

   a. **In the Oracle ILOM SP web interface, click Power Management --> Allocations.**

   The Power Allocation Plan page appears.

   b. **In the allocation power tables, view the following system power requirements for power capacity planning:**
      - **System Power Map** – The information in the System Power Map table reflects the total power allocated value in wattage for the following system power properties: Allocated Power, Installed Hardware Minimum, Peak Permitted Power, and Target Limit.
      - **Per Component Power Map** – The information in Component Power Map table reflects the allocated power wattage value for each server component category (for example, memory) and each server component (for example ME_PO_D0). It also identifies whether the allocated power value can be capped.

2. **CLI Procedure – Monitor Server Component Power Allocations**

   a. **To view the sum of power allocated to all components in the system, type:**
      - From an x86 server SP:

        `-> show /SP/powermgmt/budget`
      - From a SPARC server SP:

        `-> show /SP/powermgmt allocated_power`

   b. **To view power allocated to a component category (fans, CPUs, and so forth), type:**
      - From an x86 server SP:

        `-> show /SP/powermgmt/powerconf/`*component_type*`/`*component_name*
      - From a SPARC server SP:

        `-> show /SP/powermgmt/powerconf/`*component_type*`/`*component_name*

   Where *component_type* is the name of the component category and *component_name* is the name of the component.

Related Information
- *Oracle ILOM 3.0 Concepts*, power management
- *Oracle ILOM 3.0 Web Procedures*, monitor component power allocations
- *Oracle ILOM 3.0 CLI Procedures*, monitor component power allocations

▼ Monitor Blade Chassis Component Power Allocations

Before You Begin

- The following procedure assumes that ILOM version 3.0.10 or later is running on the CMM.

- You can monitor the power allocations for the CMM from the web interface or the CLI. To locate additional information about this task, see the Related Information section that follows this procedure.

To monitor server power allocations from the CMM, follow one of these procedures:

- Monitor blade chassis component power allocations – Web Procedure 1
- Monitor blade chassis component power allocations – CLI Procedure 2

1. **Web Procedure – Monitor Blade Chassis Component Power Allocations**

   a. **In the Oracle ILOM CMM web interface, click Power Management --> Allocation.**

      The CMM Power Allocation Plan page appears.

   b. **In the allocation power tables, view the CMM power allocation values for grantable power, grant limit, and granted power.**

2. **CLI Procedure – Monitor Blade Chassis Component Power Allocations**

   a. **To view the sum of power allocated to all chassis system components, type:**

      -> **show /CMM/powermgmt grantable_power**

   b. **To view the remaining power available to allocate to blade slots, type:**

      -> **show /CMM/powermgmt allocated_power**

   c. **To view the sum of power allocated to a CMM component category (fans, blade slots, and so forth), type:**

      -> **show /CMM/powermgmt/powerconf/***component_type*

      Where *component_type* is the name of the component category.

   d. **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**

      The granted_power value and reserved_power value allocated to all chassis blade slots appears.

e. **To view the sum of power granted to an individual blade or to the grant limit value set for a blade, type:**

-> **show /CMM/powermgmt/powerconf/bladeslot/BL***n*

Where *n* represents the slot location for the blade.

Related Information

- *Oracle ILOM 3.0 Concepts*, monitor power management
- *Oracle ILOM 3.0 Web Procedures*, monitor component power allocations
- *Oracle ILOM 3.0 CLI Procedures*, monitor component power allocations

Routine Maintenance Tasks

- "Locate Oracle Sun Server Using Locator LED" on page 23
- "Manage Host Server Power State" on page 25
- "Update Oracle ILOM Firmware" on page 26
- "Reset Oracle ILOM" on page 28

Note – The procedures in this section provide a quick overview of some of the maintenance tasks that you might need to perform from Oracle ILOM after setting up your system. If further assistance is needed to perform these tasks, refer to the guides in the Related Information section.

▼ Locate Oracle Sun Server Using Locator LED

Before You Begin

- User Management (u) role privileges are required to modify the system indicator settings in Oracle ILOM

To locate a specific Oracle Sun server among many servers in a data center, you can use either the Oracle ILOM CLI or web interface to illuminate the Locator LED that is typically located on both the front and back panel of an Oracle Sun server.

- Enable or disable Locator LED – Web Procedure 1
- Enable or disable Locator LED – CLI Procedure 2

1. **Web Procedure – Enable or Disable Locate LED**

   a. **In the web interface, click System Monitoring --> Indicators.**

   b. **In the Actions list box, click Name: Locate.**

   c. **To illuminate the Locator LED, select the radio button adjacent to /SYS/LOCATE, and then click Set LED to Fast Blink.**

   d. **To disable the Locator LED, select the radio button adjacent to /SYS/LOCATE, and then click Turn LED Off.**

2. **CLI Procedure – Enable or Disable Locate LED**

   ■ To illuminate the Locator LED from a server SP, type:

      -> **set /SYS/LOCATE value=fast_blink**

   ■ To disable the Locator LED from a server SP, type:

      -> **set /SYS/LOCATE value=off**

Related Information

■ *Oracle ILOM 3.0 Daily Management Web Procedures*, monitor system sensors and indicators

■ *Oracle ILOM 3.0 Daily Management CLI Procedures*, monitor system sensors and indicators

■ *Oracle ILOM 3.0 Protocol Management Reference*, monitor system sensors, indicators, and event log (SNMP)

▼ Manage Host Server Power State

Before You Begin

- Admin (a) role privileges are required to reset the host server power state.
- You can manage the host power state from the rackmount server SP, a blade server SP, or from a CMM. The following procedures pertain to managing the host server power state from a rackmount server SP.

  To locate instructions for how to perform this task from the CMM or a blade server SP, see the Related Information section that follows this procedure.

To manage the host server power states from a rackmount server SP, you can use the Oracle ILOM CLI or web interface.

- Manage host server power state – Web Procedure 1.
- Manage host server power state – CLI Procedure 2.

1. **Web Procedure – Manage Host Server Power State**

    a. **In the web interface, click Remote Control --> Remote Power Control.**

    b. **In the Actions list box, select one of the following host power states:**

    - Reset –Reboots the remote host server
    - Immediate Power Off – Immediately turns off the power on the remote host server.
    - Graceful Shutdown and Power Off – Gracefully shuts down the OS prior to powering off the remote host server.
    - Power On (default setting) – Turns on full power to the remote host server.
    - Power Cycle – Turns off the power on the remote host server, then applies full power to the remote host server.

2. **CLI Procedure – Manage host server power state**

    - Reset – To reboot the host server power state, type:

      `-> reset /SYS`

    - Immediate Power Off – To immediately turn off the power to the remote host server, type:

      `-> stop -force /SYS`

    - Graceful Shutdown and Power Off – To shut down the OS gracefully prior to powering off the host server, type:

      `-> stop /SYS`

    - Power On (default setting) – To turn on full power to the remote host server, type:

      `-> start /SYS`

Related Information

- *Oracle ILOM 3.0 Daily Management CLI Procedures*, issue remote power state commands
- *Oracle ILOM 3.0 Daily Management Web Procedures*, manage host server power states
- *Oracle ILOM 3.0 Daily Management Concepts*, remote power control

▼ Update Oracle ILOM Firmware

Before You Begin

- If required by your platform, shut down your host operating system before changing the firmware on your server SP.
- Admin (a) role privileges are required to update the firmware on an Oracle Sun server or CMM.
- You can initiate the firmware update process from the web interface, CLI, or SNMP client. In addition, as of ILOM 3.0.10, a new feature is available to manage firmware updates across modular system chassis components.

  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 this procedure.

- 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 will reboot.

To initiate the firmware update process from the web interface or CLI, follow these steps:

1. **Verify that the firmware version currently installed on the server SP or CMM.**

   - For the web interface, click System Information --> Versions.
   - For the CLI, at the command prompt, type: `version`

   For information about the numbering scheme used to identify the Oracle ILOM firmware version installed, see "Oracle ILOM 3.0 Firmware Version Numbering Scheme" on page viii.

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, see "Product Downloads" on page vii.

Note – Generally, do not update the firmware on your system to a prior release. However, if you determine you need to run an earlier version of the firmware on your system, you can update the firmware to any prior firmware release that is available for download.

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3. **Place the firmware image on a server supporting one of the following protocols: TFTP, FTP, HTTP, HTTPS.**
   - For a web interface update, copy the image to the system on which the Oracle ILOM web browser is running.
   - For a CLI update, copy the image to a server that is accessible from your network.

4. **To update the Oracle ILOM firmware image using the Oracle ILOM web interface, click Maintenance --> Firmware Upgrade, and then click Enter Upgrade Mode.**

   For detailed instructions about using the firmware update dialogs, refer to *Oracle ILOM 3.0 Maintenance and Diagnostics CLI and Web Guide*, update Oracle ILOM firmware (web).

5. **To update the Oracle ILOM firmware image from the Oracle ILOM 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 3.0 Maintenance and Diagnostics CLI and Web Guide*, update Oracle ILOM firmware (CLI).

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

Related Information

- *Oracle ILOM 3.0 Maintenance and Diagnostics*, update Oracle ILOM firmware (web and CLI)
- *Oracle ILOM 3.0 Maintenance and Diagnostics*, recover from a network failure during the firmware update process
- *Oracle ILOM 3.0 Protocol Management*, update Oracle ILOM firmware (SNMP)
- *Oracle Integrated Lights Out Manager (ILOM) CMM Administration*, update firmware

▼ Reset Oracle ILOM

Before You Begin

- Reset and Host Control (r) role privileges are required to reset the server SP.

Note – If you need to reset your Oracle ILOM service processor (SP), you can do so without affecting the host OS. However, resetting the SP disconnects your current Oracle ILOM session and renders the SP unmanageable during reset.

To reset the Oracle ILOM SP using the web interface or CLI, follow these steps:

1. **To reset the Oracle ILOM server SP from the web interface, click Maintenance --> Reset SP --> Reset SP.**

2. **To reset the Oracle ILOM server SP from the CLI, type:**

   -> **reset /SP**

Related Information

- *Oracle ILOM 3.0 Daily Management CLI Procedures*, reset Oracle ILOM SP
- *Oracle ILOM 3.0 Daily Management Web Procedures*, reset Oracle ILOM SP

Initial Setup FAQs

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

The Oracle ILOM service processor boots automatically when a power cable is connected to your Oracle Sun server or CMM. 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.

Is a default user account and password provided with Oracle ILOM?

Oracle ILOM is shipped from the factory with a preconfigured root user account and a password. You should use the preconfigured account for initial login and user account setup.

To prevent unauthorized access to your system, you should change the preconfigured root account and password on each service processor (SP) or chassis monitoring module (CMM).

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

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

For example:

- For IPv4: *10.8.183.106*

  or

- For IPv6: *[fec0:a:8:b7:214:4fff:5eca:5f7e/64]*

For more information, refer to the topic about dual-stack IPv4 and IPv6 network configurations in the *Oracle ILOM 3.0 Daily Management Concepts Guide*.

Are factory default settings provided with Oracle ILOM?

Factory default settings are provided for most Oracle ILOM system management features. You can choose to use these default settings, or you can customize them to meet your needs. For a list of factory default settings shipped with Oracle ILOM 3.0, see "Factory Default Settings" on page 2.

Which Oracle ILOM user interface should I use?

All Oracle ILOM features and functions are accessible from the web interface and command-line interface (CLI). A sub-set of Oracle ILOM features and functions are also available from the SNMP interface, IPMI interface, and the CIM WS-Management interface. For more information about Oracle ILOM features that are supported by SNMP, IPMI, and CIM WS-Management, refer to O*racle ILOM 3.0 Protocol Management Reference*.

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

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 server or CMM is established.
- Through 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:

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

- CLI download file URL:

  -> **load -source** *tftp://[fec0:a:8:b7:214:rfff:fe01:851d]desktop.pkg*

If I prematurely deleted the root user account how can I recreate it?

You can re-create the root user account or recover a password for an account by using the default account provided in Oracle ILOM.

For instructions on how log in to Oracle ILOM using the default user account, refer to topic about recovering a password in the *Oracle ILOM 3.0 Daily Management CLI Procedures Guide*.

What features are now available with Oracle ILOM 3.0?

The *Oracle ILOM 3.0 Feature Updates and Release Notes* identifies the new feature updates for each Oracle ILOM 3.0 firmware point release.

Related Information

- *Oracle ILOM 3.0 Daily Management Concepts*
- *Oracle ILOM 3.0 Daily Management Web Procedures*
- *Oracle ILOM 3.0 Daily Management CLI Procedures*
- *Oracle ILOM 3.0 Remote Redirection Consoles Web and CLI*
- *Oracle ILOM 3.0 Maintenance and Diagnostics Web and CLI*
- *Oracle ILOM 3.0 SNMP, IPMI, CIM, WS-Man Protocol Management Reference*
- *Oracle Integrated Lights Out Manager (ILOM) CMM Administration*
- *Oracle ILOM 3.0 Feature Updates and Release Notes*