



Preface

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Audience

This guide is intended primarily for data center administrators with responsibilities and expertise in one or more of the following:

- Server administration
- Storage administration
- Network administration
- Network security

New and Changed Information for this Release

The following table provides an overview of the significant changes to this guide for this current release. The table does not provide an exhaustive list of all changes made to the configuration guides or of the new features in this release. For information about new supported hardware in this release, see the *Release Notes for Cisco UCS C-Series Rack-Mount Servers* available through the [Cisco UCS C-Series Servers Documentation Roadmap](#).

Feature	Description	Where Documented
Cisco Flexible Flash	Some models support an internal Secure Digital (SD) memory card for	Cisco Flexible Flash

Feature	Description	Where Documented
	storage of server software tools and utilities.	
Power statistics and policies	Power consumption statistics can be viewed in the CIMC GUI and CLI. In addition, you can now define: <ul style="list-style-type: none"> • The maximum amount of power a server can use • The action the system should take if the server exceeds the specified maximum • The action the system should take if the server unexpectedly loses power 	Viewing the Power Statistics
Network Interface Virtualization (NIV) mode	If your server has a supported network adapter card, such as the Cisco UCS P81E Virtual Interface Card, this feature enables vNICs to: <ul style="list-style-type: none"> • Be assigned to a specific channel • Be associated with a port profile • Fail over to another vNIC if there are communication problems 	Creating a vNIC
BIOS parameters	Some BIOS parameters can now be configured through the CIMC GUI and CLI.	Configuring Main BIOS Settings
PCI adapter information available	Details about any PCI adapters installed in the server are now available through the CIMC GUI and CLI.	Viewing PCI Adapter Properties
Fault sensor information	Fault sensor information is now available through the CIMC GUI and CLI.	Viewing the Fault Summary
SNMP changes	You can define SNMP access and contact information in the CIMC GUI and CLI.	Configuring SNMP Properties
SNMP trap changes	You can send a test SNMP trap message through the CIMC GUI and CLI.	Configuring SNMP Trap Settings

Feature	Description	Where Documented
Storage inventory	More storage details, including RAID information, are displayed in the CIMC GUI and CLI.	Viewing Storage Adapter Properties
Expanded memory details	More memory details are displayed in the CIMC GUI and CLI.	Viewing Memory Properties

Organization

This document includes the following chapters:

Chapter	Title	Description
Chapter 1	Overview	Describes the Cisco UCS C-Series Rack-Mount Servers and the CIMC CLI .
Chapter 2	Installing the Server OS	Describes how to configure an operating system (OS) on the server.
Chapter 3	Managing the Server	Describes how to configure the boot device order, how to control power to the server, and how to reset the server.
Chapter 4	Viewing Server Properties	Describes how to view the CPU, memory, power supply, storage, and PCI adapter properties of the server.
Chapter 5	Viewing Server Sensors	Describes how to view the power supply, fan, temperature, voltage, current, and storage sensors.
Chapter 6	Managing Remote Presence	Describes how to configure and manage the virtual KVM, virtual media, and the serial over LAN connection.
Chapter 7	Managing User Accounts	Describes how to add or modify user accounts, how to configure Active Directory to authenticate users, and how to manage user sessions.
Chapter 8	Configuring Network-Related Settings	Describes how to configure network interfaces, network settings, and network security.
Chapter 9	Managing Network Adapters	Describes how to create, configure, and manage network adapters.
Chapter 10	Configuring Communication Services	Describes how to configure server management communication by HTTP, SSH, IPMI, XML API, and SNMP.

Chapter	Title	Description
Chapter 11	Managing Certificates	Describes how to generate, upload, and manage server certificates.
Chapter 12	Configuring Platform Event Filters	Describes how to configure and manage platform event filters.
Chapter 13	CIMC Firmware Management	Describes how to obtain, install, and activate firmware images.
Chapter 14	Viewing Logs	Describes how to view, export, and clear CIMC and system event log messages.
Chapter 15	Server Utilities	Describes how to export support data, how to clear or recover the BIOS, how to reset the server configuration to factory defaults, how to back up the configuration, and how to reboot the management interface.

Conventions

This document uses the following conventions:

Convention	Indication
bold font	Commands, keywords, GUI elements, and user-entered text appear in bold font .
<i>italic font</i>	Document titles, new or emphasized terms, and arguments for which you supply values are in <i>italic font</i> .
<code>courierfont</code>	Terminal sessions and information that the system displays appear in <code>courier font</code> .
[]	Elements in square brackets are optional.
{x y z}	Required alternative keywords are grouped in braces and separated by vertical bars.
[x y z]	Optional alternative keywords are grouped in brackets and separated by vertical bars.
string	A nonquoted set of characters. Do not use quotation marks around the string or the string will include the quotation marks.
<>	Nonprinting characters such as passwords are in angle brackets.
[]	Default responses to system prompts are in square brackets.

Convention	Indication
!, #	An exclamation point (!) or a pound sign (#) at the beginning of a line of code indicates a comment line.

**Note**

Means *reader take note*.

**Tip**

Means *the following information will help you solve a problem*.

**Caution**

Means *reader be careful*. In this situation, you might perform an action that could result in equipment damage or loss of data.

**Timesaver**

Means *the described action saves time*. You can save time by performing the action described in the paragraph.

**Warning**

Means *reader be warned*. In this situation, you might perform an action that could result in bodily injury.

Related Cisco UCS Documentation

Documentation Roadmaps

For a complete list of all B-Series documentation, see the *Cisco UCS B-Series Servers Documentation Roadmap* available at the following URL: <http://www.cisco.com/go/unifiedcomputing/b-series-doc>.

For a complete list of all C-Series documentation, see the *Cisco UCS C-Series Servers Documentation Roadmap* available at the following URL: <http://www.cisco.com/go/unifiedcomputing/c-series-doc>.

Other Documentation Resources

An ISO file containing all B and C-Series documents is available at the following URL: <http://www.cisco.com/cisco/software/type.html?mdfid=283853163&flowid=25821>. From this page, click **Unified Computing System (UCS) Documentation Roadmap Bundle**.

The ISO file is updated after every major documentation release.

Follow [Cisco UCS Docs on Twitter](#) to receive document update notifications.

Documentation Feedback

To provide technical feedback on this document, or to report an error or omission, please send your comments to ucs-docfeedback@external.cisco.com. We appreciate your feedback.