Overview

This chapter includes the following sections:

Cisco UCS

Cisco Unified Computing System (Cisco UCS) is a next-generation data center platform that unites computing, network, storage access, and virtualization services into a cohesive system that reduces the total cost of ownership (TCO) and increases business agility. This system integrates a low-latency, lossless 10-Gigabit Ethernet unified network fabric with enterprise-class, x86-architecture servers. It is an integrated, scalable, multi-chassis platform in which all resources participate in a unified management domain.

System Management is performed using Cisco UCS Manager. For configuration information, see the *Configuration Guide* for the version of Cisco UCS Central that you are using. The configuration guides are available at the following URL: http://www.cisco.com/en/US/products/ps12502/products_installation_and_configuration_guides_list.html
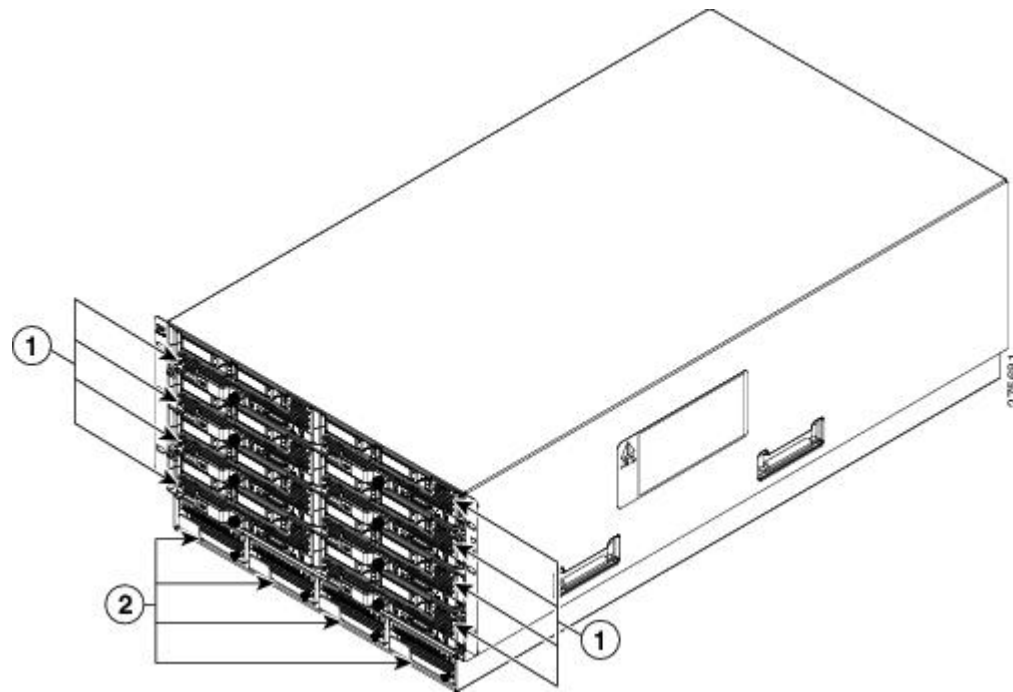
Cisco UCS 5108 Blade Server Chassis

The Cisco UCS 5108 Blade Server Chassis includes the following components:

- Cisco UCS 5108 Blade Server Chassis

- Cisco UCS 2100 and 2200 Series Fabric Extenders—Up to two Fabric Extenders (FEXes), each FEX provides four or eight ports of 10-Gigabit Ethernet, Cisco Data Center Ethernet, and Fibre Channel over Ethernet (FCoE)

- SFP+ transceiver choices that include copper and fiber optic

- Power supply units—Up to four 2500 W hot-swappable power supply units (AC and DC available)

- Fan modules—Eight hot-swappable fan modules

• Cisco UCS Blade Servers —Up to eight half-wide blade servers or four full-width blade servers, each holding RAID capable hard drives
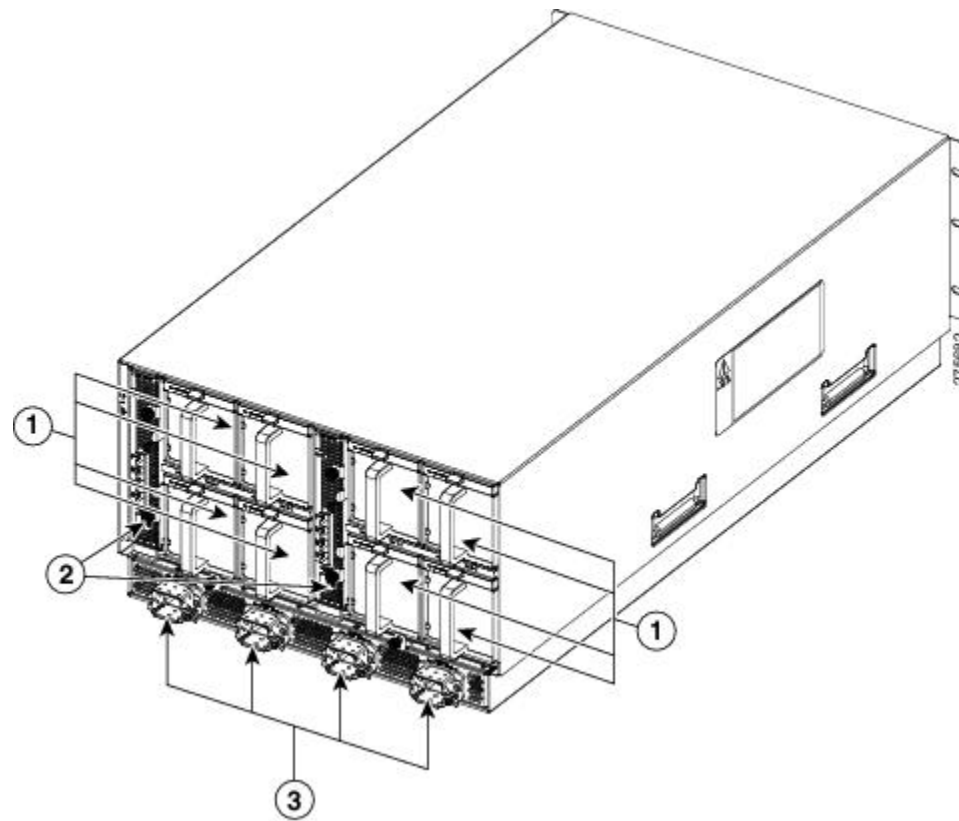
For specific instructions to install the blade server chassis and blades, see the Cisco UCS 5108 Server Chassis Hardware Installation Guide.

Figure 1: Cisco UCS 5108 Blade Server Chassis (Front View)

1	Blade server (up to 8)	2	Power supplies (up to 4)

Figure 2: Cisco UCS 5108 Blade Server Chassis (Rear View)

1	Fan modules (8)	3	Power supply AC connectors (up to 4)
			DC chassis available but not shown
2	Fabric Extenders (up to 2)		

Cisco UCS 6100 Fabric Interconnect Series

The Cisco UCS 6100 Series Fabric Interconnect consists of the following components:

- UCS 6100 series Fabric Interconnect (20 port and 40 port models available)
- Uplink expansion module—Can use any of the following four modules:
    ◦ N10-E0080 with eight Fibre Channel ports
    ◦ N10-E0600 with six 10-Gbps Ethernet ports
    ◦ N10-E0440 with four 10-Gbps Ethernet ports and four Fibre Channel ports

◦ N10-E0060 provides 6 8/4/2/1 G Fibre Channel uplink connections

• Power supply units—Up to two hot-swappable power supply units

• Fan modules—Two hot-swappable modules

For information about installing the fabric interconnect, see the Cisco UCS 6100 Series Fabric Interconnect Hardware Installation Guide. For translations of the warnings in those guides, see the Regulatory Compliance and Safety Information for the Cisco Unified Computing System.

Cisco UCS 6200 Fabric Interconnect Series

The Cisco UCS 6200 Series Fabric Interconnect consists of the following components:

• UCS 6200 Series Fabric Interconnect

• Expansion module—Can use the following module:

◦ 16-port 10Gb Unified Port Expansion Module (UCS-FI-E16UP)

• Power supply units—Up to two hot-swappable power supply units, AC and DC versions available

• Fan modules—Two hot-swappable modules

For information about installing the fabric interconnect, see the Cisco UCS 6200 Series Fabric Interconnect Hardware Installation Guide. For translations of the warnings in those guides, see the Regulatory Compliance and Safety Information for the Cisco Unified Computing System document.