Cisco UCS Director Release Notes, Release 6.9

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Cisco UCS Director Release Notes

Cisco UCS Director

Cisco UCS Director delivers unified, highly secure management for supported compute, network, storage, and virtualization platforms and for the industry's leading converged infrastructure solutions, which are based on the Cisco Unified Computing System (Cisco UCS) and Cisco Nexus platforms. Cisco UCS Director extends the unification of computing and network layers through Cisco UCS to provide data center administrators with comprehensive visibility and management capabilities for compute, network, storage, and virtualization. For more information, see Cisco UCS Director on Cisco.com.

Revision History

Release	Date	Description
6.9	May 7, 2024	Created for Release 6.9(0.0). • Supported Migration Paths to Cisco UCS Director, Release 6.9(0.0), on page 7 • Supported Migration Paths for Bare Metal Agent Release 6.9(0.0), on page 8 • New and Changed Features in Release 6.9, on page 20 • Open Bugs in Release 6.9(0.0), on page 23 • Resolved Bugs in Release 6.9(0.0), on page 24

Release	Date	Description
6.9(1.0)	October 15, 2024	Created for Release 6.9(1.0). • Supported Migration Paths to Cisco UCS Director, Release 6.9(1.0) • Supported Upgrade Paths to Cisco UCS Director, Release 6.9(1.0) • Supported Migration Paths for Bare Metal Agent, Release 6.9(1.0) • Supported Upgrade Paths for Bare Metal Agent, Release 6.9(1.0) • New and Changed Features in Release 6.9(1.0) • Open Bugs in Release 6.9(1.0) • Resolved Bugs in Release 6.9(1.0)
6.9(2.0)	April 24, 2025	Created for Release 6.9(2.0). • Supported Upgrade Paths to Cisco UCS Director, Release 6.9(2.0) • Supported Upgrade Paths for Cisco UCS Director Bare Metal Agent, Patch Release 6.9(2.0) • New and Changed Features in Release 6.9(2.0) • Open Bugs in Release 6.9(2.0) • Resolved Bugs in Release 6.9(2.0)

Release	Date	Description
6.9(3.0)	September 25, 2025	Created for Release 6.9(3.0). • Supported Upgrade Paths to Cisco UCS Director, Release 6.9(3.0) • Supported Upgrade Paths for Cisco UCS Director Bare Metal Agent, Patch Release 6.9(3.0) • New and Changed Features in Release 6.9(3.0) • Open Bugs in Release 6.9(3.0) • Resolved Bugs in Release 6.9(3.0)
6.9(4.0)	May 05, 2026	Created for Release 6.9(4.0). • Supported Upgrade Paths to Cisco UCS Director, Release 6.9(4.0) • Supported Upgrade Paths for Cisco UCS Director Bare Metal Agent, Patch Release 6.9(4.0) • New and Changed Features in Release 6.9(4.0) • Open Bugs in Release 6.9(4.0) • Resolved Bugs in Release 6.9(4.0)

System Requirements

The system requirements for this release are available in the Cisco UCS Director installation and upgrade guides for the following:

- VMware vSphere
- Microsoft Hyper-V

Supported Browser Versions

Cisco UCS Director supports the following browsers:

- Microsoft Edge version 120.x.x.x or higher

- Firefox version 120.x or higher
- Safari 17.x or higher
- Google Chrome version 120.x.x.x or higher

Minimum System Requirements for a Single-Node Setup

The following tables detail the minimum resource requirements for a single-node setup of . Cisco recommends a single-node setup for installations of up to 5000 VMs.

For optimal performance, the entire memory and CPU allocations specified in the table below should be reserved. Failure to follow these specifications could affect performance. For example, 4 vCPU cores with 3000 MHz and 16G of memory must be reserved for the VM.

The minimum memory required for the **inframgr** service is automatically set during deployment. To enable the **inframgr** service to use more than the minimum required memory, edit the `inframgr.env` file available in the following location:

`/opt/infra/bin/`

In this file, update the MEMORY_MAX parameter to the value you want. To activate the changes, restart the **inframgr** service.

The default memory settings are MEMORY_MIN=8192m and MEMORY_MAX=8192m.

For information about minimum system requirements for a multi-node setup, see the Cisco UCS Director Multi-Node Installation and Configuration Guide.

Table 1: Minimum system requirements for a single-node installation (up to 5,000 VMs)

Element	Minimum Supported Requirement
vCPU	4
Allocated Memory	16 GB
Reserved Memory	16 GB
Disk Space	100 GB
Disk Write I/O Bandwidth	4 MBps
Disk Read I/O Bandwidth	4 MBps
Memory Allocated for **inframgr**	8 GB

Restart the database and all services after making these changes to the `/etc/my.cnf`.

Minimum System Requirements for a Multi-Node Setup

System Requirements for the Primary Node

Number of VMs	vCPU Allocation	Memory Allocation (GB)	Memory Reservation (GB)	Disk Size (GB)	Inframgr Memory Allocation (GB)
1 - 5000	4	16	16	100	8
5001 - 10000	4	22	22	100	12
10001 - 15000	4	28	28	100	12
15001 - 20000	4	34	34	100	16
20001 - 25000	8	40	40	100	16
25001 - 30000	8	46	46	100	24
30001 - 35000	8	52	52	100	24
35001 - 40000	8	58	58	100	28
40001 - 45000	8	64	64	100	28
45001 - 50000	8	64	64	100	32

System Requirements for the Database Node

Number of VMs	vCPU Allocation	Memory Allocation (GB)	Memory Reservation (GB)	Disk Read I/O Bandwidth (MBps)	Disk Write I/O Bandwidth (MBps)	Disk Size (GB)	Database InnoDB Buffer Pool (GB)
1 - 5000	4	12	12	4	4	100	8
5001 - 10000	4	16	16	6	6	100	12
10001 - 15000	4	28	28	8	8	100	24
15001 - 20000	4	40	40	10	10	200	36
20001 - 25000	8	52	52	12	12	200	48
25001 - 30000	8	64	64	14	14	200	60
30001 - 35000	8	76	76	16	16	300	72

Number of VMs	vCPU Allocation	Memory Allocation (GB)	Memory Reservation (GB)	Disk Read I/O Bandwidth (MBps)	Disk Write I/O Bandwidth (MBps)	Disk Size (GB)	Database InnoDB Buffer Pool (GB)
35001 - 40000	16	90	90	18	18	600	84
40001 - 45000	16	90	90	20	20	600	84
45001 - 50000	16	90	90	22	22	600	84



Note To determine the currently configured disk read I/O bandwidth and disk write I/O bandwidth, use the **Collect Diagnostics** option from the Cisco UCS Director Shelladmin menu.

Database Parameters

VMs	Thread Cache Size	Maximum Connections	innodb lock wait timeout	Query Cache Size (MB)	Maximum Connection Errors	Connection Timeout	innodb read I/O Threads	innodb write I/O Threads
1 - 5000	1000	1000	100	128	10000	20	64	64
5001 - 10000	1000	1000	100	128	10000	20	64	64
10001 - 15000	1000	1000	100	128	10000	20	64	64
15001 - 20000	1000	1000	100	128	10000	20	64	64
20001 - 25000	2000	2000	100	128	10000	20	64	64
25001 - 30000	2000	2000	100	128	10000	20	64	64
30001 - 35000	4000	2000	100	128	10000	20	64	64
35001 - 40000	4000	4000	100	128	10000	20	64	64
40001 - 45000	4000	4000	100	128	10000	20	64	64
45001 - 50000	4000	4000	100	128	10000	20	64	64

Important Upon successful definition of required VMs in the Shelladmin option, the inframgr memory allocation and database configuration values are automatically updated in the **/opt/infra/bin/inframgr.env** and **/etc/my.cnf** files respectively. In order for the modifications to take effect, the Shelladmin restarts the database and services through Shelladmin options. For more information, see Cisco UCS Director Shell Guide.

Installation and Upgrade Notes

Cisco UCS Director uses a standard virtual machine that is delivered in OVA format for VMware, and in VHD format for Microsoft Hyper-V. It can be hosted on VMware vSphere or vCenter, or on Microsoft Hyper-V Manager. For installation instructions, see the appropriate Cisco UCS Director installation guide.

Installation and Upgrade Notes for Cisco UCS Director, Release 6.9

Cisco UCS Director Release 6.9 uses a new version of Almalinux operating system and Maria DB version. The previous releases of Cisco UCS Director uses CentOS version 7.x, which is about to reach End of Life. To continue to receive support for security issues and patches, upgrade to Cisco UCS Director 6.9 and Cisco UCS Director Bare Metal Agent 6.9

Note Cisco UCS Director OVA and VHD zip files are created using zip 3.x in Cisco UCS Director, Release 6.9. For Linux systems, you can extract the zip files with unzip 6.x or higher or with the latest version of the 7-Zip archiving tool. For Windows systems, you can extract the zip files with the native Extract All in Windows Explorer for Windows or with the latest versions of archiving tools such as 7-Zip or WinRAR.

Installing Cisco UCS Director Powershell Agent

Installing a newer version of the PowerShell Agent requires that you uninstall the older version first. To remove the older version of PowerShell Agent, stop the Cisco PSA Service first and then uninstall the agent. For instructions on installing, see Cisco UCS Director PowerShell Agent Installation and Configuration Guide, Release 6.9.

Supported Migration Paths to Cisco UCS Director, Release 6.9(0.0)

See the Cisco UCS Director Upgrade Guide for detailed steps on how to migrate to Release 6.9 from your current release.

Important You must upgrade to Cisco UCS Director, Release 6.7(4.3) or should be in Release 6.8(x.x) before migrating to Cisco UCS Director, Release 6.9. For more information, see the *Supported Upgrade Paths to Cisco UCS Director, Release 6.7* and and Supported Migration Paths to Cisco UCS Director, Release 6.8 documented in the Cisco UCS Director Release Notes, Release 6.7 and Cisco UCS Director Release Notes, Release 6.8 respectively.

The following are the supported migration paths for the Cisco UCS Director Release 6.9:

- From Release 6.7(4.3) to Release 6.9(0.0)
- From Release 6.8(0.0) to Release 6.9(0.0)

- From Release 6.8(1.0) to Release 6.9(0.0)
- From Release 6.8(2.0) to Release 6.9(0.0)
- From Release 6.8(3.0) to Release 6.9(0.0)
- From Release 6.8(4.0) to Release 6.9(0.0)
- From Release 6.8(5.0) to Release 6.9(0.0)
- From Release 6.8(6.0) to Release 6.9(0.0)
- From Release 6.8(7.0) to Release 6.9(0.0)
- From Release 6.8(8.0) to Release 6.9(0.0)

Note Before migrating from Release 6.7(4.3)/6.8(x.x) to Release 6.9, in progress service requests (SRs) must be in completed state (no in progress service requests) because you cannot complete the service requests after migrating to Release 6.9.

Supported Migration Paths for Bare Metal Agent Release 6.9(0.0)

The following are the supported migration paths for the Bare Metal Agent Release 6.9:

Important You must upgrade to Bare Metal Agent Patch, Release 6.7(4.2) or should be in Release 6.8 (x.x) before migrating to Bare Metal Agent, Release 6.9. For more information, see the *Supported Upgrade Paths for Bare Metal Agent Patch, Release 6.7(4.x)* and 6.8 in the Cisco UCS Director Release Notes, Release 6.7 and the Cisco UCS Director Release Notes, Release 6.8.

- From Release 6.7(4.2) to Release 6.9(0.0)
- From Release 6.8(0.0) to Release 6.9(0.0)
- From Release 6.8(1.0) to Release 6.9(0.0)
- From Release 6.8(2.0) to Release 6.9(0.0)
- From Release 6.8(3.0) to Release 6.9(0.0)
- From Release 6.8(4.0) to Release 6.9(0.0)
- From Release 6.8(5.0) to Release 6.9(0.0)
- From Release 6.8(6.0) to Release 6.9(0.0)
- From Release 6.8(7.0) to Release 6.9(0.0)
- From Release 6.8(8.0) to Release 6.9(0.0)

Supported Migration Paths to Cisco UCS Director, Release 6.9(1.0)

See the Cisco UCS Director Upgrade Guide, Release 6.9 for detailed steps on how to migrate to Release 6.9(1.0) from your current release.

The following are the supported migration paths for the Cisco UCS Director Release 6.9(1.0):

- From Release 6.7(4.3) to Release 6.9(1.0)
- From Release 6.8(0.0) to Release 6.9(1.0)
- From Release 6.8(1.0) to Release 6.9(1.0)
- From Release 6.8(2.0) to Release 6.9(1.0)
- From Release 6.8(3.0) to Release 6.9(1.0)
- From Release 6.8(4.0) to Release 6.9(1.0)
- From Release 6.8(5.0) to Release 6.9(1.0)
- From Release 6.8(6.0) to Release 6.9(1.0)
- From Release 6.8(7.0) to Release 6.9(1.0)
- From Release 6.8(8.0) to Release 6.9(1.0)
- From Release 6.8(9.0) to Release 6.9(1.0)

Supported Upgrade Paths to Cisco UCS Director, Release 6.9(1.0)

See the Cisco UCS Director Upgrade Guide, Release 6.9 for detailed steps on how to upgrade to Release 6.9(1.0) from your current release.

The following are the supported upgrade paths for Cisco UCS Director, Release 6.9(1.0):

Upgrade Paths from Release 6.9

- From Release 6.9 to Release 6.9(1.0)

Upgrading from Versions Prior to Release 6.8

- If you have a version prior to Release 6.7(4.3) installed, refer Cisco UCS Director Upgrade Guide, Release 6.8 for the upgrade paths.

Supported Migration Paths for Bare Metal Agent, Release 6.9(1.0)

The following are the supported migration paths for the Bare Metal Agent, Release 6.9(1.0):

- From Release 6.7(4.2) to Release 6.9(1.0)
- From Release 6.8(0.0) to Release 6.9(1.0)
- From Release 6.8(1.0) to Release 6.9(1.0)
- From Release 6.8(2.0) to Release 6.9(1.0)
- From Release 6.8(3.0) to Release 6.9(1.0)
- From Release 6.8(4.0) to Release 6.9(1.0)
- From Release 6.8(5.0) to Release 6.9(1.0)
- From Release 6.8(6.0) to Release 6.9(1.0)
- From Release 6.8(7.0) to Release 6.9(1.0)

- From Release 6.8(8.0) to Release 6.9(1.0)
- From Release 6.8(9.0) to Release 6.9(1.0)

Migration from Versions Prior to Release 6.8

If you have a version prior to Release 6.7(4.2) installed, refer Cisco UCS Director Upgrade Guide, Release 6.8 for the migration paths.

Supported Upgrade Paths for Bare Metal Agent, Release 6.9(1.0)

The following is the supported upgrade path for the Bare Metal Agent, Release 6.9(1.0):

- From Release 6.9 to Release 6.9(1.0)

Supported Upgrade Paths to Cisco UCS Director, Patch Release 6.9(2.0)

The following is the supported upgrade path for Cisco UCS Director, Patch Release 6.9(2.0):

- From Release 6.9(1.0) to Patch Release 6.9(2.0)
- From Release 6.9(0.0) to Release 6.9(1.0) to Patch Release 6.9(2.0)



Note To upgrade from a version of Cisco UCS Director older than 6.9(0.0), you must first migrate to Cisco UCS Director 6.9(1.0) before upgrading to Cisco UCS Director 6.9(2.0).

Supported Upgrade Paths for Cisco UCS Director Bare Metal Agent, Patch Release 6.9(2.0)

The following is the supported upgrade path for the Cisco UCS Director Bare Metal Agent, Patch Release 6.9(2.0):

- From Release 6.9(1.0) to Patch Release 6.9(2.0)
- From Release 6.9(0.0) to Release 6.9(1.0) to Patch Release 6.9(2.0)



Note To upgrade from a version of Cisco UCS Director Bare Metal Agent older than 6.9(0.0), you must first migrate to Cisco UCS Director Bare Metal Agent 6.9(1.0) before upgrading to Cisco UCS Director Bare Metal Agent 6.9(2.0).

Supported Upgrade Paths to Cisco UCS Director, Patch Release 6.9(3.0)

The following upgrade paths are supported for Cisco UCS Director, Patch Release 6.9(3.0):

- From Release 6.9(2.0) to Patch Release 6.9(3.0)
- From Release 6.9(1.0) to Patch Release 6.9(3.0)
- From Release 6.9(0.0) to Release 6.9(1.0) to Patch Release 6.9(3.0)

Note To upgrade from a version of Cisco UCS Director older than 6.9(0.0), you must first migrate to Cisco UCS Director 6.9(1.0) before upgrading to Cisco UCS Director 6.9(3.0).

Supported Upgrade Paths for Cisco UCS Director Bare Metal Agent, Patch Release 6.9(3.0)

The following upgrade paths are supported for the Cisco UCS Director Bare Metal Agent, Patch Release 6.9(3.0):

- From Release 6.9(2.0) to Patch Release 6.9(3.0)
- From Release 6.9(1.0) to Patch Release 6.9(3.0)
- From Release 6.9(0.0) to Release 6.9(1.0) to Patch Release 6.9(3.0)

Note To upgrade from a version of Cisco UCS Director Bare Metal Agent older than 6.9(0.0), you must first migrate to Cisco UCS Director Bare Metal Agent 6.9(1.0) before upgrading to Cisco UCS Director Bare Metal Agent 6.9(3.0).

Supported Upgrade Paths to Cisco UCS Director, Patch Release 6.9(4.0)

The following upgrade paths are supported for Cisco UCS Director, Patch Release 6.9(4.0):

- From Release 6.9(3.0) to Patch Release 6.9(4.0)
- From Release 6.9(2.0) to Patch Release 6.9(4.0)
- From Release 6.9(1.0) to Patch Release 6.9(4.0)
- From Release 6.9(0.0) to Release 6.9(1.0) to Patch Release 6.9(4.0)

Note To upgrade from a version of Cisco UCS Director older than 6.9(0.0), you must first migrate to Cisco UCS Director 6.9(1.0) before upgrading to Cisco UCS Director 6.9(4.0).

Supported Upgrade Paths for Cisco UCS Director Bare Metal Agent, Patch Release 6.9(4.0)

The following upgrade paths are supported for the Cisco UCS Director Bare Metal Agent, Patch Release 6.9(4.0):

- From Release 6.9(3.0) to Patch Release 6.9(4.0)
- From Release 6.9(2.0) to Patch Release 6.9(4.0)
- From Release 6.9(1.0) to Patch Release 6.9(4.0)
- From Release 6.9(0.0) to Release 6.9(1.0) to Patch Release 6.9(4.0)

Note To upgrade from a version of Cisco UCS Director Bare Metal Agent older than 6.9(0.0), you must first migrate to Cisco UCS Director Bare Metal Agent 6.9(1.0) before upgrading to Cisco UCS Director Bare Metal Agent 6.9(4.0).

New and Changed Features

This section provides an overview of the significant new and changed features in this release. This section does not provide an exhaustive list of all enhancements included in this release.

Note For information about the physical and virtual devices and software supported by Cisco UCS Director in this release, see the Compatibility Matrix for this release.

New and Changed Features in Release 6.9(4.0)

Cisco UCS Director Release 6.9(4.0) includes fixes for security vulnerabilities reported in the Release 6.9(3.0).

Enforcement of Default Values for Password Policy Parameters

From this release of Cisco UCS Director, the default values for the following parameters are changed to improve the password strength and enhance security:

- Minimum Password Length
- Minimum Character Classes
- Disallow Login in Password
- Disallow Previous Password
- Previous Password Counts

Documented in the Cisco UCS Director Administration Guide, Release 6.9.

Viewing User Management Activities in Syslog Server

Starting with this release, the Cisco UCS Director sends a message to the configured Syslog server whenever you perform user management activities. These activities include user account creation, modification, and deletion in Cisco UCS Director and external identity management systems such as Active Directory and Cisco Identity Services Engine.

Documented in the Cisco UCS Director Administration Guide, Release 6.9.

Automating PXE-based Windows OS Deployment

From this release of Cisco UCS Director, you can automate the Windows OS deployment on Cisco UCS and third party servers without manual preparation of `WinPE.wim` and `install.wim` files.

Documented in the Cisco UCS Director Bare Metal Agent Installation and Configuration Guide, Release 6.9.

Support for LDAP Redundancy

Starting with this release, you can select a check box **Enable LDAP Redundancy** to enable LDAP redundancy support. When this check box is selected, the system performs DNS-based discovery of LDAP servers for the specified domain.

Documented in the Cisco UCS Director Administration Guide, Release 6.9.

Showing Warning Message if NTP Lacks Authentication

From this release of Cisco UCS Director, to emphasize the importance of NTP authentication, the following warning message is displayed when you configure NTP servers during the initial system setup:

It is strongly recommended to configure NTP authentication to ensure that the system time is synchronized only with trusted, legitimate NTP servers. Use the Shelladmin option 'Time Sync' to configure NTP authentication.

Documented in the Cisco UCS Director Administration Guide, Release 6.9 and Cisco UCS Director Shell Guide, Release 6.9.

Deprecation Notice and UI Report for Insecure Protocols

Cisco UCS Director 6.9(4.0) displays a warning message in the **Diagnostic System Messages** area regarding the usage of insecure protocols such as HTTP, Telnet, and FTP. A relevant deprecation warning message is also displayed when you use the Shelladmin options `Apply Patch, Apply Signed Patch, Backup Database, Restore Database, and Enable/Disable HTTP`, and when you attempt to access a remote server from any SSH client using Telnet protocol.

You can also select **Administration** > **System** > **Insecure Protocol Usage** to view details about the insecure protocols.

Cisco UCS Director 6.9(4.0) allows you to use **SFTP** or **SCP** as an secure alternative to FTP for CMDB integration and Metering data export setting.

Documented in the Cisco UCS Director Administration Guide, Release 6.9 and Cisco UCS Director Shell Guide, Release 6.9.

Viewing License Details and Intersight Claim Status

Starting with this release, you can select **Download All Logs** option from the **Support Information** drop-down list to download a bundled file in which the Intersight claim status and license details, including License ID, License PID, License count, and Expiry Status are present.

You can also get the same files by selecting the `Collect essential diagnostics, Collect basic diagnostics, Collect full diagnostics` options from the **Collect Diagnostics** Shelladmin menu.

Documented in the Cisco UCS Director Administration Guide, Release 6.9 and Cisco UCS Director Shell Guide, Release 6.9.

New Fields and Profiles Support for Application Centric Infrastructure Multi-Site Controller

From the Cisco UCS Director Release 6.9(4.0), the following reports and fields are added for ACI Multi-Site Controller:

New Reports

- VzAny Provider Contract

- VzAny Consumer Contract
- Intra-EPG Contract
- Selectors

New Fields

Report	New Fields
VRF	• Description • Annotations • Policy Control Enforcement Preference • IP Data-Plane Learning • L3 Multicast • Fabric-aware Policy Enforcement Mode • Preferred Group • BD Enforcement Status
Contract	• Description • Annotations • QoS Level
Bridge Domain	• Description • Annotations • Virtual MAC Address • Unknown Multicast Flooding • IPv6 Unknown Multicast Flooding • Multi-Destination Flooding • EP Move Detection Mode • ARP Flooding • Unicast Routing
EPG	• Description • Annotations • Interfabric Multicast Source • Include in Preferred Group • QoS Level

Report	New Fields
External EPG	• Description • Annotations • Select Fabric Type • Include in Preferred Group • QoS Level • Application Profile
Filter	• Description • Annotations

Documented in the Cisco UCS Director APIC Management Guide, Release 6.9.

New and Changed Features in Release 6.9(3.0)

Cisco UCS Director Release 6.9(3.0) includes fixes for security vulnerabilities reported in the Release 6.9(2.0).

Retirement of NFR and Permanent Physical Server Licenses

From this release of Cisco UCS Director, the support for permanent and subscription-based NFR licenses, and permanent physical server licenses is discontinued. These licenses can still be used for up to 90 days from the activation date of Cisco UCS Director Release 6.9(3.0). During this grace period, a warning message is displayed indicating the limited support for these licenses. However, the physical server licenses with valid expiry dates will remain supported until their expiry.

Documented in the Cisco UCS Director Administration Guide, Release 6.9.

Windows Server 2025 OS Deployment Through vMedia

Starting with this release, the Cisco UCS Director allows deployment of Windows Server 2025 OS to the Dell, HP, and UCSM bare metal servers using vMedia.

Documented in the Cisco UCS Director Bare Metal Agent Installation and Configuration Guide, Release 6.9.

RHEL, SUSE, and ESXi OS Deployment Through UEFI

From this release of Cisco UCS Director, you can deploy RHEL 10.0, SUSE 15 SP7, and ESXi 9.0 OS to Dell, HP, and UCSM Bare Metal Servers through UEFI.

Documented in the Cisco UCS Director Compatibility Matrix, Release 6.9.

Managing Hosts Configuration Through Shelladmin

Starting with this release, you can manage hosts configuration using the Shelladmin option **Hosts Configuration**. With this option, you can add IP addresses, Fully Qualified Domain Names (FQDNs), and aliases to configure hosts. Additionally, you can view the host configurations, and update and delete host entries.

Documented in the Cisco UCS Director Shell Guide, Release 6.9.

Defining Expiry Period for Approval Tasks

From this release of Cisco UCS Director, you can specify how long an approval task must wait for approval from the approvers. Once this period ends, the system will cancel the respective approval tasks automatically.

Documented in the Cisco UCS Director Administration Guide, Release 6.9.

Generating Custom ESXi ISO Image

Starting with this release, you can generate the required Custom ESXi ISO image with all the drivers by selecting one of the following options and uploading the ESXi Depot file and Driver Zip file, which can be downloaded from support.broadcom.com and Cisco website respectively:

- Custom-ESXi option in the Bare Metal Agent Image Upload form under the Image Repository tab
- BMA OS Image Upload task

A workflow named `UCS Custom ESXi Image Generation and BareMetal Provisioning` has been introduced to facilitate the Custom ESXi ISO image creation and OS installation through PXE on Cisco UCS Manager based bare metal servers.

Documented in the Cisco UCS Director Bare Metal Agent Installation and Configuration Guide, Release 6.9.

Viewing Compatibility Matrix Information

From this release of Cisco UCS Director, you can view the compatibility matrix information for both hardware and software components, including Operating Systems by clicking **Compatibility Matrix** under the **Administration** tab.

Documented in the Cisco UCS Director Administration Guide, Release 6.9.

Predicting Failure Scenarios and Showing Critical Alerts

The Cisco UCS Director 6.9(3.0) performs system audits and shows diagnostic system messages, enabling you to quickly assess issues and take necessary actions to prevent potential outages and ensure system stability.

Documented in the Cisco UCS Director Administration Guide, Release 6.9.

Resetting System Task

Starting with this release, you can select **Reset Task** option for a system task in the **System Tasks** area to quickly reset and schedule the particular system task that has been stuck in the in-progress state for a long time, leading to inventory failure. This eliminates a need to stop and restart the Cisco UCS Director services.

Documented in the Cisco UCS Director Administration Guide, Release 6.9.

New and Changed Features in Release 6.9(2.0)

Cisco UCS Director Release 6.9(2.0) includes fixes for security vulnerabilities reported in the Release 6.9(1.0).

Adding Match AS Path Regex Terms to a Route Map Match Rule in APIC

Starting with Cisco UCS Director 6.9(2.0), you can add a Border Gateway Protocol (BGP) filtering condition called 'Match AS Path Regex Terms' to a Route Map Match Rule. This feature enables you to match or filter the BGP routes based on the **AS Path** attribute using **regular expressions**. Additionally, the Cisco UCS Director allows you to add a Route Map Match Rule to a Route Control Context.

Documented in the Cisco UCS Director APIC Management Guide, Release 6.9.

Hybrid Slots Configuration

The Cisco UCS Director 6.9(2.0) provides Hybrid Slots Configuration support on UCS rack servers for Cisco Tri-Mode 24G SAS RAID Controller w/4GB Cache (UCSC-RAID-HP) that indicates whether the RAID controller can handle U.3 drives in RAID or Direct attached modes.

Documented in the Cisco UCS Director Management Guide for Cisco UCS Manager, Release 6.9 and Cisco UCS Director Task Library Reference, Release 6.9.

PCIe Nodes Report

Starting with Cisco UCS Director 6.9(2.0), you can view inventory reports for PCIe nodes of a blade server in the following ways:

- **PCIe nodes report for a chassis**—Shows details about all PCIe nodes installed in all servers attached to a chassis.
- **PCIe nodes report for a server**—Shows details about a PCIe node installed in a particular server.

The Cisco UCS Director allows you to view PCIe connector information on the **Server Summary** page, and details about the retimer, GPU, and faults when you select a specific PCIe node from the **PCIe Nodes** page.

Documented in the Cisco UCS Director Management Guide for Cisco UCS Manager, Release 6.9.

Data Sanitization

This Cisco UCS Director release introduces a data sanitization feature that enables the secure erasure of data from Cisco UCS M5 and later blade and rack servers managed by Cisco UCS Manager, Release 4.3(4a) and later. The data can be securely erased using the following methods:

- GUI actions
- Workflow
- REST API

Documented in the Cisco UCS Director Management Guide for Cisco UCS Manager, Release 6.9 and Cisco UCS Director Task Library Reference, Release 6.9.

Windows Server 2025 OS Deployment Using PXE

From this release of Cisco UCS Director, you can perform deployment of Windows Server 2025 OS images to the Dell, HP, and UCSM bare metal servers using PXE boot and installation operations.

Documented in the Cisco UCS Director Bare Metal Agent Installation and Configuration Guide, Release 6.9.

Windows Server 2022 OS Provisioning Through vMedia

Starting with this release, the Cisco UCS Director allows provisioning of Windows Server 2022 OS to the Dell, HP, and UCSM bare metal servers using vMedia.

Documented in the Cisco UCS Director Bare Metal Agent Installation and Configuration Guide, Release 6.9.

Disabling Root User Access for Cisco UCS Director

From this release of Cisco UCS Director, the **root** user access is disabled and **ucsdadmin** user access is enabled by default. To provide administrative privileges, the following Shell admin options are introduced:

- **Manage ucsdadmin Access**—Allows you to enable, disable, and configure a password for the ucsdadmin user.
- **Login as ucsdadmin**—Allows you to log in to Cisco UCS Director Shell as **ucsdadmin**, with **ucsdadmin** as the default password. When you log in for the first time, the system will prompt you to change the password according to the password policy.

Documented in the Cisco UCS Director Shell Guide, Release 6.9.

Configuring Password Policy for Cisco UCS Director

Starting with this release, the Cisco UCS Director allows you to configure a password policy that must be followed while setting passwords for the shelladmin, ucsdadmin, and root users.

Documented in the Cisco UCS Director Shell Guide, Release 6.9.

Disabling Root User Access for Cisco UCS Director Bare Metal Agent

From this release of Cisco UCS Director Bare Metal Agent, the **root** user access is disabled and **bmaadmin** user access is enabled by default. To provide administrative privileges, the following BMA Shell admin options are introduced:

- **Manage bmaadmin Access**—Allows you to enable, disable, and configure a password for the bmaadmin user.
- **Login as bmaadmin**—Allows you to log in to the Cisco UCS Director Bare Metal Agent Shell as **bmaadmin**, with **bmaadmin** as the default password. When you log in for the first time, the system will prompt you to change the password according to the password policy.

Documented in the Cisco UCS Director Bare Metal Agent Installation and Configuration Guide, Release 6.9 and Cisco UCS Director Upgrade Guide, Release 6.9.

Configuring Password Policy for Cisco UCS Director Bare Metal Agent

Starting with this release, the Cisco UCS Director Bare Metal Agent allows you to configure a password policy that must be followed while setting passwords for shelladmin, bmaadmin, and root users.

Documented in the Cisco UCS Director Bare Metal Agent Installation and Configuration Guide, Release 6.9.

New and Changed Features in Release 6.9(1.0)

Cisco UCS Director Release 6.9(1.0) includes fixes for security vulnerabilities reported in the Release 6.9(0.0).

Scale Setup Configuration through Shelladmin Option

In this release of Cisco UCS Director, the Shelladmin can define a number of required VMs for the Standalone node, Primary node, and Database node. Based on the VM value, Cisco UCS Director fetches the related information from the VMware vCenter and automatically updates the inframgr memory allocation values and database configuration values in the **/opt/infra/bin/inframgr.env** and /**etc/my.cnf** files respectively.

Documented in the Cisco UCS Director Shell Guide, Release 6.9.

Configuration of DNS with DNSSEC through Shelladmin Option

Starting from Cisco UCS Director 6.9(1.0), the Shelladmin can use **Configure DNS** option to configure a DNS server with DNSSEC (Domain Name System Security Extensions) which is a feature in AlmaLinux 9 OS for enhancing the security and integrity of DNS operations.

Documented in the Cisco UCS Director Shell Guide, Release 6.9.

NTP Authentication with NTP Server During Time Sync through Shelladmin Option

Starting with this release, the Shelladmin can use an NTP server auth key and its value for time synchronization with the NTP server. The Cisco UCS Director confirms that the NTP authentication is successful if the auth key and its value are valid.

Documented in the Cisco UCS Director Shell Guide, Release 6.9.

SR-MPLS VRF L3Out in APIC

In this release of Cisco UCS Director, SR-MPLS L3Out feature is implemented. This feature combines advanced routing technologies to enable scalable, efficient, and secure connectivity between isolated network segments (VRFs) and external networks. By leveraging Segment Routing with MPLS, VRFs, and L3Outs, this functionality offers robust traffic engineering capabilities, network segmentation, and seamless external connectivity, all managed through the ACI fabric.

Documented in the Cisco UCS Director APIC Management Guide, Release 6.9.

Creating Route Map in APIC

Starting with Cisco UCS Director 6.9(1.0), you can now create a route map that includes multiple route control contexts.

Documented in the Cisco UCS Director APIC Management Guide, Release 6.9.

User Approval for Rollback Service Request

In this release of Cisco UCS Director, the **Skip Approvals** check box is included on the **Schedule Rollback** settings page. If selected, the service request requires no approval from the user who created the rollback service request during the execution process.

Documented in the Cisco UCS Director Orchestration Guide, Release 6.9.

Exporting Searched Workflow with Encryption in WFDX Format

In this release of Cisco UCS Director, you can export searched workflows in **WFDX** format. Before exporting, you have the option to encrypt the file by setting a password. When importing the file into another Cisco UCS Director appliance, you can decrypt it by entering the password set during export.

Documented in the Cisco UCS Director Orchestration Guide, Release 6.9.

Disabling Cisco UCS Director BigData Express Personality

Starting with Cisco UCS Director 6.9(1.0), support for BigData Express personality is disabled as the BigData support has reached End of Life (EoL). For more information, see BigData EOL.

Before proceeding with the migration or upgrade to Cisco UCS Director 6.9(1.0), you must uncheck the **BigData** check box in the Cisco UCS Director user interface, and restart the services.

Documented in the Cisco UCS Director Administration Guide, Release 6.9 and Cisco UCS Director Upgrade Guide, Release 6.9.

Workflow Tasks for Bare Metal Server Provisioning with Secure Boot Enabled

In this release of Cisco UCS Director, you can enable secure boot on the following bare metal servers by executing the related workflow that includes the secure boot enable/disable task:

- HP ILO
- IPMI

On the **Task Inputs** page, you can select the required server and enable secure boot.

Documented in the Cisco UCS Director Task Library Reference, Release 6.9.

Bare Metal Server Provisioning Using vMedia

In this release of Cisco UCS Director, you can provision the following OSs to Dell, HP, and Cisco UCS Manager bare metal servers through the vMedia as the vMedia support is enabled on the Bare Metal Agent:

- ESXi
- RHEL

Some prerequisites must be met before executing the provisioning workflows. The prerequisites are documented in the Cisco UCS Director Bare Metal Agent Installation and Configuration Guide, Release 6.9.

New and Changed Features in Release 6.9

This section provides an overview of the significant new and changed features in this release. This section does not provide an exhaustive list of all enhancements included in this release.

Data Migration

In this release, you must migrate the data from Cisco UCS Director Release 6.7.4.3/6.8.x.x to Cisco UCS Director Release 6.9. If you have a version prior to Release 6.7.4.3 installed, you cannot upgrade directly to Release 6.9(0.0). You must first upgrade to Release 6.7(4.3) from Release 6.7(4.x), and then migrate to Release 6.9(0.0).



Note The `dhcpd.conf` file of Bare Metal Agent (version 6.7.4.2 / 6.8.x.x) appliance is copied into the migrated Bare Metal Agent (version 6.9.0.0) appliance in the `/etc/dhcp` path.

Before you add a Bare Metal Agent account, do the following:

- If the **Samba Service for Windows PXE** check box is enabled, make sure to use the same Samba password of the legacy BMA (version 6.7.4.2 / 6.8.x.x) in the **Samba Password** and **Confirm Samba Password** fields in the migrated BMA (version 6.9.0.0).
- If the legacy BMA (version 6.7.4.2 / 6.8.x.x) and migrated BMA (version 6.9.0.0) are deployed with different PXE IP addresses, log into Bare Metal Agent VM using SSH client and update WinPE.wim with ens224 IP address details of the migrated BMA (version 6.9.0.0).

- If the legacy BMA (version 6.7.4.2 / 6.8.x.x) and migrated BMA (version 6.9.0.0) are deployed with different PXEVLAN ID or a failed service request is available in the migrated Cisco UCS Director appliance (version 6.9.0.0), log into Cisco UCS Manager and update the service profile with PXE VLAN details of the migrated BMA (version 6.9.0.0), reset the server, and then resubmit the service request in Cisco UCS Director appliance.

Documented in the Cisco UCS Director Multi-Node Installation and Configuration Guide, Release 6.9 and Cisco UCS Director Bare Metal Agent Installation and Configuration Guide, Release 6.9.

Support for Downloading Rack server Firmware Images to Local Cisco UCS Director System

Starting with Cisco UCS Director Release 6.9(0.0), offline configuration of Cisco credentials under **Cisco.com User** configuration page for software downloads from Cisco is discontinued.

For enhanced security, you should activate your device first using Activate Device action under Images- Local page in order to download Standalone Rack server firmware from Cisco.com.



Note For enhanced security, device activation done once stays active for an hour, allowing secure downloads. After one hour, you have to re-activate your device with the **Activate Device** action to download software from Cisco.com .

Enhancement to Physical Compute Chassis Inventory Report and Global Equipment Policies

In this release of Cisco UCS Director, Physical Compute Chassis Inventory is enhanced with new XFM module report and Fan Module report under I/O modules to show the real-time status of the Fan modules and Fans under it.

New Global Equipment Policies such as **Power Policy, Cisco UCS X9508 Chassis Power Extended Policy, Cisco UCS X9508 Chassis Fan Control Policy** were added to support and manage the X9508 Chassis.

For more information please refer to the Cisco UCS Director Management Guide for Cisco UCS Manager, Release 6.9

Enhanced Custom Workflow Tasks

In this release of Cisco UCS Director, the Custom Workflow Tasks Report in the user interface was enhanced with a new column to filter and sort based on category.

Rollback Service Request Enhancements

From this release and later, you can do the following:

- See the rollback details of service requests, which includes the rollback service request ID's of selected service request.
- Schedule the rollback of a service request at a particular time

For more information, see the Cisco UCS Director Orchestration Guide, Release 6.9

CSV Format Type in Cloud Sense

This release introduces the capability to generate and export cloud sense reports in CSV format. For more information, see Managing CloudSense Analytics in the UCS Director Administration Guide, Release 6.9.

New Parameters for the APIC Device

This release introduces the following new parameters for the APIC device in the **Add Domain to APIC EPG** workflow task.

- Untagged VLAN Access
- Primary VLAN
- Active Uplinks Order
- Standby Uplinks
- Custom EPG Name

Edit Server IP Address in LDAP Integration

This release introduces the capability to edit the Server IP Address field in the LDAP Integration report - LDAP Configuration form.

Migration of F5 device communication to REST API from SOAP

In UCS Director, the loadbalancing communication process of an F5 device was migrated to REST API from SOAP. In addition, iControl Axis jar files were removed.

New End User VM Disk Report

In this release of Cisco UCS Director, a new VM Disk report has been brought in for End user in order to provide insight to the disk information in more detail.

The Resize VM feature Supports Custom Input

In this release of Cisco UCS Director, custom user input is enabled for Resize VM Memory GUI action and workflow task instead of pre-defined drop down values in order to provide more flexibility to users in allocating the resources.

Support for New OS versions in Guest OS ISO Image Mapping Policy

In this release of Cisco UCS Director, the Guest OS ISO Image Mapping policy which is used to provision VM(s) using ISO images is enhanced to support SUSE Linux Enterprise 12 (64-bit), SUSE Linux Enterprise 15 (64-bit), CentOS 8 (64-bit), Red Hat Enterprise Linux 7 (64-bit), Red Hat Enterprise Linux 8 (64-bit) and Red Hat Enterprise Linux 9 (64-bit).

Open and Resolved Bugs

The open and resolved bugs for this release are accessible through the Cisco Bug Search Tool. This web-based tool provides you with access to the Cisco bug tracking system, which maintains information about bugs and vulnerabilities in this product and other Cisco hardware and software products.

Note You must have a Cisco.com account to log in and access the Cisco Bug Search Tool. For more information on creation of Cisco account, refer Login and Account Help.

For more information about the Cisco Bug Search Tool, see the Bug Search Tool Help & FAQ.

Open Bugs in Release 6.9(0.0)

You can find detailed information about all open bugs in Release 6.9 through the open bug search for Release 6.9. This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose **Series/Model** and enter Cisco UCS Director.
Releases drop-down list	Choose **Affecting or Fixed in these Releases** and enter 6.9(0.0).
Filter	Choose **Open** from the Status drop-down list.

Open Bugs in Release 6.9(1.0)

You can find detailed information about all open bugs in Release 6.9(1.0) through the open bug search for Release 6.9(1.0). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose **Series/Model** and enter **Cisco UCS Director**.
Release drop-down list	Choose **Affecting or Fixed in Releases** and enter **6.9(1.0)**.
Filters	Choose **Open** from the **Status** drop-down list.

Open Bugs in Release 6.9(2.0)

You can find detailed information about all open bugs in Release 6.9(2.0) through the open bug search for Release 6.9(2.0). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose **Series/Model** and enter **Cisco UCS Director**.
Release drop-down list	Choose **Affecting or Fixed in Releases** and enter **6.9(2.0)**.
Filters	Choose **Open** from the **Status** drop-down list.

Open Bugs in Release 6.9(3.0)

You can find detailed information about all open bugs in Release 6.9(3.0) through the open bug search for Release 6.9(3.0). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose **Series/Model** and enter **Cisco UCS Director**.

Field	Parameter
Release drop-down list	Choose **Affecting or Fixed in Releases** and enter **6.9(3.0)**.
Filters	Choose **Open** from the **Status** drop-down list.

Open Bugs in Release 6.9(4.0)

You can find detailed information about all open bugs in Release 6.9(4.0) through the open bug search for Release 6.9(4.0). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose **Series/Model** and enter **Cisco UCS Director**.
Release drop-down list	Choose **Affecting or Fixed in Releases** and enter **6.9(4.0)**.
Filters	Choose **Open** from the **Status** drop-down list.

Resolved Bugs in Release 6.9(0.0)

You can find detailed information about all resolved bugs in Release 6.9 through the resolved bug search query for Release 6.9. This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose **Series/Model** and enter Cisco UCS Director.
Releases drop-down list	Choose **Affecting or Fixed in these Releases** and enter 6.9(0.0).
Filter	Choose **Fixed** from the Status drop-down list.

Resolved Bugs in Release 6.9(1.0)

You can find detailed information about all resolved bugs in Release 6.9(1.0) through the resolved bug search query for Release 6.9(1.0). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose **Series/Model** and enter **Cisco UCS Director**.
Release drop-down list	Choose **Affecting or Fixed in Releases** and enter **6.9(1.0)**.
Filters	Choose **Fixed** from the **Status** drop-down list.

Resolved Bugs in Release 6.9(2.0)

You can find detailed information about all resolved bugs in Release 6.9(2.0) through the resolved bug search query for Release 6.9(2.0). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose **Series/Model** and enter **Cisco UCS Director**.
Release drop-down list	Choose **Affecting or Fixed in Releases** and enter **6.9(2.0)**.
Filters	Choose **Fixed** from the **Status** drop-down list.

Resolved Bugs in Release 6.9(3.0)

You can find detailed information about all resolved bugs in Release 6.9(3.0) through the resolved bug search query for Release 6.9(3.0). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose **Series/Model** and enter **Cisco UCS Director**.
Release drop-down list	Choose **Affecting or Fixed in Releases** and enter **6.9(3.0)**.
Filters	Choose **Fixed** from the **Status** drop-down list.

Resolved Bugs in Release 6.9(4.0)

You can find detailed information about all resolved bugs in Release 6.9(4.0) through the resolved bug search query for Release 6.9(4.0). This search uses the following parameters:

Field	Parameter
Product drop-down list	Choose **Series/Model** and enter **Cisco UCS Director**.
Release drop-down list	Choose **Affecting or Fixed in Releases** and enter **6.9(4.0)**.
Filters	Choose **Fixed** from the **Status** drop-down list.

Communications, Services, and Additional Information

- To receive timely, relevant information from Cisco, sign up at Cisco Profile Manager.
- To get the business results you're looking for with the technologies that matter, visit Cisco Services.
- To submit a service request, visit Cisco Support.
- To discover and browse secure, validated enterprise-class apps, products, solutions and services, visit Cisco Marketplace.

- To obtain general networking, training, and certification titles, visit Cisco Press.
- To find warranty information for a specific product or product family, access Cisco Warranty Finder.

Cisco Bug Search Tool

Cisco Bug Search Tool (BST) is a web-based tool that acts as a gateway to the Cisco bug tracking system that maintains a comprehensive list of defects and vulnerabilities in Cisco products and software. BST provides you with detailed defect information about your products and software.

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