



Cisco HyperFlex Data Center QuickStart Implementation*

*Cisco HyperFlex Edge QuickStarts are also available.

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- · Consulting Services
- Installation Services
- Network Design
- Staff Augmentation

For an in-depth discussion regarding your technical and staffing needs, our team is with you every step of the way.

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Cisco HyperFlex Overview

The Cisco HyperFlex™ platform includes hybrid, all-flash, and all-NVMe configurations to scale to any workload. It is built on the proven UCS integrated network fabric and UCS Servers. This faster-to-deploy, simpler-to-manage, and easier-to-scale system provides a unified pool of infrastructure resources to power applications as your business needs dictate.

Description

The Cisco HyperFlex Data Center QuickStart Implementation is a unique five (5) day Skyline ATS onsite offering designed to assist partners/customers who are new to Cisco's Hyperconverged Infrastructure (HCI) technology. A dedicated Skyline ATS Data Center Engineer is assigned to the partner's/customer's site location for the QuickStart implementation. The engagement is focused on the initial design, preparation of partner's/customer's existing infrastructure, implementation, and deployment of an operational Cisco HyperFlex system.

The intended audience is partner/customer support personnel who not only need deployment services, but also need a well-defined knowledge transfer on UCS, Cisco HyperFlex Storage, deploying servers, and attaching them to the Network.





Training Objectives

- Describe the Cisco UCS/HX system architecture, hardware components, and options.
- Cisco UCS Manager familiarity and configuring Service Profile templates.
- Cisco HyperFlex installer and Management interface overview.
- Maintenance processes and High Availability (HA) configuration.
- Define connectivity requirements for the Cisco UCS platform.
- Explain the Cisco HyperFlex Data Platform's features and function.

Cisco HyperFlex Deployment

- 1. A bill of material design overview pre-installation.
- Install 1 UCS system with 2 Fabric Interconnects and 3 Cisco HyperFlex Nodes.
- 3. Configure Service Profile templates for HX servers.
- 4. Connection of the Fabric Interconnects to the upstream network.
- Install and configure HX server ESXi operating systems, and vCenter.
- 6. Deploy Cisco HyperFlex Data Platform on the Cluster.
- 7. Test failover and functionality of the system

Prerequisites

The knowledge and skills that a learner must have prior to the engagement is as follows:

Some familiarity with VMware ESXi and vCenter.

Who Should Purchase this QuickStart?

The primary audience for this QuickStart is:

- · Server Administrators
- Storage/SAN Administrators
- Systems/Storage Engineers
- Network Engineers

The secondary audience for this workshop is:

· Network Administrators

Customer Responsibilities

- A bill of material design overview before installation.
- Partner/Customer must be prepared to assist with network, UCS, and VMware connectivity and configuration.
- Personnel to help with physical lifting, and rack and stack.
- Proper power circuits and cables for the Cisco HyperFlex equipment.
- Proper rack and other supporting infrastructure (e.g.,HVAC).
- Provide all Hardware, Software, and Licensing.

Statement of Work

After the Skyline ATS Data Center Engineer thoroughly qualifies the partner's/customer's Cisco HyperFlex requirements, a detailed statement of work will be submitted for partner/customer approval prior to the QuickStart implementation engagement.

Disclaimer

This service is intended to assist partners/customers with a basic implementation and understanding of Cisco HyperFlex. The following services are out of scope and are NOT INCLUDED in this service:

- Migration of customer network/infrastructure.
- Compute only node installation.
- Cisco HyperFlex Edge Deployments
 - Cisco HyperFlex Edge QuickStarts are also available.
- Cisco HyperFlex Stretch Deployments

NOTE: Skyline can provide these services after scoping the specific requirements. Additional costs may apply





Cisco HyperFlex QuickStart Schedule

Day 1

- Whiteboard Session 1 Provide an overview of the Unified Computing System, review of network design and physical connections. Plan for between 2 to 4 hours for the whiteboard session. Topics to be discussed:
 - · UCS Architecture Overview
 - · Fabric Interconnects
 - · UCS Server types
 - · Upstream networking
 - · How the system is interconnected.
- 2. Inventory Hardware.
- 3. Rack, stack, and cable hardware.

Day 2

- Gather/Verify Configuration information (e.g., VLANs, MACs, IPs, Passwords, NTP server etc.).
- Configure Fabric Interconnect Network and Server Ports.
- Buildout all needed pools in UCS Manager.
- 4. Perform Software Upgrades as needed.

Day 3

- Whiteboard Session 2 Provide an overview of server profiles and configuration. Plan for 2 hours for the whiteboard session. Topics to be discussed:
 - · UCS Service Profiles.
 - · Initial Configuration.
 - · Local Storage / vHBA SAN Storage.
 - · vNIC Networking.
 - · Boot Policy.
 - · Server OS Installation.
 - · Auto-Configuration.
- 2. Configure server profiles.
- 3. Install and configure ESXi on all servers.
- 4. Set up vCenter.
- 5. Complete configuration for UCS and VMware (e.g., NTP, DNS, SNMP, Licensing etc.).

Day 4

- Whiteboard Session 3 Provide an overview of Cisco HyperFlex Data Platform and its integration with VMware. Plan for between 2 to 4 hours for the whiteboard session. Topics to be discussed:
 - · Cisco HyperFlex Architecture Overview.
 - o Cisco HyperFlex deployment types.
 - Cisco HyperFlex Converged Node servers.
 - Cisco HyperFlex Data Platform components.
 - o Cisco HyperFlex deployment process.
 - o Cisco HyperFlex management.
 - o ESXi Cisco HyperFlex Integrations.
- 2. Deploy Cisco HyperFlex Installer OVA.
- 3. Go through the install process for Cisco HyperFlex.
- 4. Verify Cisco HyperFlex Health.
- 5. Install Cisco HyperFlex plugin for vCenter.
- Create Volumes.
- 7. Deploy a VM for testing.
 - a. Verify VLANs.
 - b. Verify Cisco HyperFlex volumes.
 - c. Verify redundancy.

Day 5

- 1. Provide on-site support for any outstanding issues.
- 2. Backup configuration.
- 3. Finalize documentation.
- 4. Provide installation and configuration review with customer.