

CISCO UCS-X MENTORED INSTALL

Service Overview:

At Netnology, we specialize in Cisco enablement and implementation services to expedite the adoption of Cisco UCS-X Series. As part of this Mentored Install service offer, our subject matter experts (SME) partner with your team to ensure a smooth deployment of the UCS-X solution in the production environment and provide knowledge transfer to equip your staff with the necessary skills to configure and manage the UCS-X environment.

Solution Overview:

Cisco UCS-X provides a powerful way for businesses to handle growing complexity in the data center, by alleviating the manual management of an infrastructure, supporting new node types, such as PCIe, drive and memory nodes, and providing a new UCS X Fabric – a fabric built for new PCIe and CXL interconnect. Once as it's managed by the cloud-based Cisco Intersight solution, it also provides better control over data center components across all locations.

- Simplified Management through Intersight and IMM Fabric Interconnect;
- Power efficient Chassis
- New Powerful Compute Node
- Unified Fabric supporting more backplane traffic
- UCS X Fabric future proofing the UCS for PCIe and CXL

Service Benefits:

Netnology has a team of world class engineers who specialize in the Cisco UCS-X solutions and are passionate about customer success. Netnology will partner with you to provide:

- Step-by-step guidance from an SME on UCS-X and Intersight solution deployment.
- Configuration and documentation of the UCS-X solution.
- Knowledge transfer to ensure customer is ready to configure and manage the environment

Service Scope:

As part of the 10-day Mentored Install engagement, Netnology will help with the following:

- Solution Overview
- UCS X Single Chassis Deployment (up to 6 Nodes)
- VMware Based Deployment Solution and Features
- FI IMM Deployment (Single Pair of Fabric Interconnects)
- Intersight Features and Monitoring
- Cisco Intersight UCS X Policy/Templates/Profiles Setup
- Firmware Upgrades using Cisco Intersight
- OS install using Cisco Intersight

- New vCenter Install (Optional)
- Network Connectivity Validation (Standard or DVS) (up to 2 per node)
- Storage connectivity (up to 1 VSAN storage cluster) or (up to 1 External Storage device)
- Knowledge Transfer

Target Audience:

This service is designed for Network Architects, Network Engineers, Systems Engineers, Security Engineers and Administrators configuring, deploying, and managing the Cisco UCS-X environments.

Prerequisites:

Customer needs to ensure that all equipment and devices are racked & stacked, cabled and powered-up prior to the kick-off. Customer should upgrade the network devices to the required software version. The customer should have the necessary Cisco UCS-X and Cisco Intersight software licenses.

Customer must have either pre-existing VMware vCenter server environment (6.5 or newer), or deployment details of a new VMware vCenter server environment.

Service Deliverables:

No	Deliverable	Service Details
1.	Project Kickoff	<ul style="list-style-type: none"> • Project Overview • Solution Overview • Pre-Requisites
2.	Pre-Requisite Validation	<ul style="list-style-type: none"> • Review/Confirm Hardware Readiness • License Validation (ESXi, vCenter, vSAN) • Network Readiness • Intersight Readiness
3.	UCS-X Deployment	<ul style="list-style-type: none"> • Initialize FI in IMM mode <ul style="list-style-type: none"> ○ Discover FI/Chassis/Blades • IP Pool Policy • Basic Domain Profile Setup • Port Policy, VLANS/vSAN, Network Connectivity policy • Server Profile Templates / Server Profiles <ul style="list-style-type: none"> ○ BIOS / Boot / LAN ○ vNIC / vHBA ○ Disk
4.	Firmware Review / Upgrades	<ul style="list-style-type: none"> • Check Firmware version for compliance <ul style="list-style-type: none"> ○ Setup Firmware repository ○ Upgrade Firmware if needed from Intersight
5.	Node OS Install	<ul style="list-style-type: none"> • Install OS (ESXi) <ul style="list-style-type: none"> ○ Setup image repository ○ Deploy OS Install from Intersight
6.	Register Nodes / Setup vCenter	<ul style="list-style-type: none"> • Register nodes to vCenter • Setup New vCenter for Cluster (optional) <ul style="list-style-type: none"> ○ Deploy new VCSA UCS X Cluster
7.	Testing Validation	<ul style="list-style-type: none"> • Test Network Connectivity • Test Storage Connectivity • Test VM Deployment Connectivity
8.	Knowledge Transfer	<ul style="list-style-type: none"> • Intersight Overview <ul style="list-style-type: none"> ○ Intersight Dashboards ○ Cisco Connected TAC • UCS X Overview Management and Operations