UCS X-Series Intersight, Deployment, Operations, Troubleshooting (UCSXDOT)

COURSE OVERVIEW
This five-day Cisco UCS X-Series with Intersight Deployment course enables participants to deploy, troubleshoot and operate a UCS X-Series production installation.

- Deploy: covers deployment of the X9508 chassis, X210c/X410c compute nodes, 6400/6500 Series Fabric Interconnects and other hardware options. Participants learn how to prepare the UCS X-Series hardware components for discovery by Intersight Managed Mode (IMM). Participants gain practical experience through hands-on labs.
- Troubleshoot: enables participants to effectively troubleshoot common issues with Fabric Interconnect configurations, vNIC/vHBA configuration issues, firmware update issues and profile/policy/pool configuration issues. Information is also provided on CLI/Intersight troubleshooting options and common troubleshooting methodologies. Participants gain practical experience through hands-on labs.
- Operate: participants will be provided with the information and tools to manage and support UCS X-Series in a production environment. The students will be using the most up-to-date tools in Cisco's Intersight Dashboard for day-to-day operations. This will include the new Telemetry Dashboard and the new Monitoring tool. Participants gain practical experience through hands-on labs.

WHO WILL BENEFIT FROM THIS COURSE?
Cisco customers, internal and Partner SEs/FEs looking to deploy the UCS X9508 chassis, X210c/X410c compute nodes, and 6400/6500 Series Fabric Interconnects.

PREREQUISITES
To fully benefit from this course, you should have the following knowledge and skills:

- Basic to intermediate understanding of UCS

COURSE OBJECTIVES
After taking this course, you should be able to:

- Articulate the solution level architecture of the UCS X-Series solution, and the role of IMM/Intersight and the key differentiators of the UCS X-Series solution from previous UCS architecture.
- Identify the function of each hardware component in the UCS X-Series solution and the communication and traffic flow between components.
- Enumerate the key requirements to successfully deploy a UCS X-Series solution with Intersight.
- Identify the key features of Cisco Intersight to manage a UCS X-Series deployment.

- Understand Troubleshooting Guidelines and able to successfully troubleshoot:
    - Fabric Interconnect issues
    - IOM issues
    - Frame and CRC issues
    - Firmware issues
- Successfully operate a UCS X-Series production installation.

COURSE OUTLINE

DAY 1
Section 1: Cisco UCS X-Series Hardware Components & Traffic Flow
- Cisco UCS X9508 System Chassis
- Fabric Components
- Compute Options (Needs Updated)
- Storage Options
- Networking & Data Flow
- Power/Cooling Efficiency

Section 2: Cisco UCS X-Series Installation Considerations
- Managing Cisco UCS 2.0 with Cisco Intersight
- Deployment Model Options

Section 3: Cisco UCS Migration and Monitoring Options
- Prerequisites
- Installing Cisco Intersight IMM Transition Tool
- Accessing Cisco Intersight IMM Transition Tool
- Initiate Migration
- Verification

DAY 2
Section 4: Cisco UCS X-Series Management Through Intersight
- IMM Overview
- Intersight Licensing
- Dashboard Navigation
- Domain Claiming
    - LAB 1 – Claiming a Domain
- Domain and Server Policies/Profiles
    - LAB 2 – Domain Profile Creation
    - LAB 3 – Domain Profile Deployment
    - LAB 4 – Creating Pools
    - LAB 5 – Server Policy Creation
    - LAB 6 – Server Profile Deployment
    - LAB 7 – Server Profile Template Deployment
    - LAB 8 – Installing VMware ESXi

DAY 3

Section 5: General Guidelines for Troubleshooting

- Faults
- Audit Log
- Requests Tab
    - o LAB 9 – Intersight Dashboard Overview
    - o LAB 10 – Add and Remove a Dashboard Widget
- Syslog
- Technical Support Files
- Section 6: Troubleshooting Fabric Interconnect Issues
- Recovering a Fabric Interconnect from the Boot Loader Prompt
- Resolving Fabric Interconnect Cluster ID Mismatch
- Section 7: Troubleshooting Firmware Issues
- Recovering Fabric Interconnect During Upgrade
- Recovering IO Modules During Firmware Upgrade
    - o LAB 11 – Updating Firmware (Review Only)

DAY 4

Section 8: Troubleshooting IOM Issues

- IOM Terminology
- Chassis Boot Sequence
- Link Pinning and Failover Behavior

Section 9: Troubleshooting Frame and CRC Issues

- Background Information
- Reasons for Bad Frames and CRC Errors
- Forwarding Mode Behavior (Cut-Through or Store-and-Forward)
- Main Forwarding ASICs Commands for UCS FIs, IOMs and VIC Cards

Section 10: Troubleshooting Pool/Policy/Profile Issues

- Diagnosing Common Pool/Policy/Profile Issues

DAY 5

Section 11: Day 2 Operations

- Topology Views
- Monitoring and Metrics Explorer
    - o LAB 12 – Using Metrics
- Telemetry Dashboard
    - o LAB 13 – Creating and Using Dashboards for Operations
- Policy Cloning
    - o LAB 14 – Policy Cloning
- Organizations and Shared Orgs
    - o LAB 15 – Creating Shared Orgs and Sharing Policies

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