INTUCSX - ADMINISTERING CISCO UCS X-SERIES SOLUTIONS WITH INTERSIGHT

Course Code: 821639

The INTUCSX course provides deep-dive training which covers Cisco UCS X-Series server family, how Intersight can be the enablement platform for all UCS servers. Intersight features such as IWOM, IST, ICO, and programmability either On-Prem or in the Cloud are also covered.

This deep-dive training covers Cisco UCS X-Series server family and how Intersight can be the enablement platform for all UCS servers. We will cover Intersight features such as IWOM, IST, ICO, and programmability either On-Prem or in the Cloud. Attendees will learn the breadth of the physical X-Series (pools, policies, firmware, so much more) platform as well as maintaining existing infrastructure with Intersight Infrastructures Services. Also covered is how to manage physical, virtual, cloud platforms and deploy to any or all.

What You'll Learn

Upon completion of this course, the student will be able to meet these overall objectives:

- Understand, describe, and configure Cisco Intersight (on prem and SaaS models)
- Understand, describe, and configure Intersight Advanced features (IST, ICO, IWOM)
- Understand, describe, and configure IMM and UMM mode for UCS
- Understand, describe, and configure Cisco X-Series (FI, IFM, X210c Server, Adv Fabric Module)
- Create Intersight Pools, Policies, and Management for X-Series
- Design and operate Cisco UCS with Intersight Managed Mode Solutions

Who Needs to Attend

The primary audience for this course is as follows:

- Server Administrators
- Systems Engineers
- Storage Administrators
- Technical Solutions Architects
- Integrators and Partners

- Consulting Systems Engineers
- Network Administrators
- Network Engineers
- Network Managers
- Architects

Prerequisites

The recommended knowledge and skills the learner should have before attending this course is as follows:

- Students should understand networking protocols, routing, and switching
- Students should be familiar with Cisco data center technologies
- Students should be familiar with the Cisco UCS architecture

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CLASSROOM LIVE	$6,095 CAD	5 Day

Classroom Live Outline

Section 1: Intersight Foundations

- Intersight Architecture
- Licensing
- Essentials
- Advantage
- Premier
- Security
- Role-Based Access Control (RBAC)
- Administration
- Dashboards Management
- Create and Manage Widgets
- Intersight Managed Mode vs. UCS Managed Mode

Section 2: Monitoring and Maintaining UCS Infrastructure with Intersight

- Device health and Monitoring
- Virtualization Monitoring
- Integrated Support
- Infrastructure Configuration
- Server Deployment
- Standalone C-Series Management

Section 3: Designing and Operationalizing Cisco UCS Solutions with Intersight

- Hyperconvergence Overview
- Cisco HyperFlex HX-Series Servers
- Designing Intersight Deployment Options
- Configuring Intersight Managed Mode

Section 4: Configuring Cisco UCS Server Hardware

- Cisco UCS X-Series Blade Servers
- Cisco UCS B-Series Blade Servers
- Cisco UCS C-Series Rack Servers
- Cisco UCS S-Series Rack Servers
- Cisco Virtual Interface Cards
- Cisco X-Fabric Modules

Section 5: Designing Cisco UCS LAN and SAN Connectivity

- Cisco UCS Fabric Interconnects
- Cisco UCS Fabric Interconnect Ethernet End-Host Mode Compared to Switching Mode
- Cisco UCS Fabric Interconnect Uplink Pinning
- Cisco UCS X-Series Connectivity

Section 6: Configuring Cisco UCS-X in IMM Mode

- Fabric Interconnect Domain Profiles and Policies
- Chassis Policies
- Cisco UCS Server Profiles
- Identity Pools
- Server Pools
- IP Pools
- Intersight Provisioning Policies
- Server Policies
- Domain Policies
- Cluster Policies
- Configuring Cisco UCS Server Profile Templates
- Deriving Profiles to Blades
- Deploying ESX to a Blade using Intersight
- Managing vCenter in Intersight

Section 7: Implementing Cisco UCS Firmware Updates

- Update X-Series Firmware with Intersight
- Update Cisco UCS C-Series Server Firmware
- Download Tasks for the Infrastructure Image
- Download Tasks for Cisco UCS B-Series Firmware Packages
- Best Practices for Updating Firmware in Cisco UCS Manager
- Firmware Upgrades Using Auto Install
- Capability Catalog Updates
- Host Firmware Packages
- Driver Updates for Operating Systems and Hypervisors
- INTUCSX Advanced Topics

Section 8: IWO (Intersight Workload Optimizer)

- Overview
- App/Infrastructure Dependencies
- Analytics
- Full Stack Automation

- Ecosystem (AppD, SolarWinds, etc.)
- Application Resource and Performance Management

Section 9: IKS (Intersight Kubernetes Services)

- Overview K8s
- App and Infrastructure integration
- Creating a Profile
- Out of Box Container Interfaces
- Networking
- Storage
- Load Balancing
- Managing K8s Clusters
- IWE

Section 10: ICO (Intersight Cloud Orchestrator)

- Overview
- Tasks
- Workflows
- Customized Workflows
- Deploying Virtual Infrastructure
- Deploying Physical Infrastructure
- Managing Infrastructure

Section 11: IST (Intersight Services for Terraform)

- Overview
- Connecting to Git
- Deploying the IST Agent to Intersight
- Creating an Agent Pool
- Setting Variables
- Deploying a Run from ICO
- Deleting a Run from ICO

Section 12: Intersight API Overview

- Architecture of API
- Access methods
- Request Semantics
- Management Information Model
- Querying the API
- Performing Tasks

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Sep 22 - 26, 2025 | 10:00 AM - 6:00 PM EST

Nov 17 - 21, 2025 | 10:00 AM - 6:00 PM EST

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PRIVATE GROUP TRAINING	5 Day

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