



Cisco Data Center Compute Technologies (DCCOMP)

***WHERE GREAT TRAINING
HAPPENS EVERYDAY!***



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Course Duration

3 days

Course Price

\$2,695.00
27 CLCs

Methods of Delivery

In-Person ILT
Virtual ILT
Onsite ILT

About this Class

The Cisco Data Center Compute Technologies (DCCOMP) training covers the essentials of deploying, configuring, and operating Cisco data center compute solutions. The focus is on the core lifecycle of Cisco compute solutions, guiding you through Day 0 physical deployment and Day 1 configuration using Cisco Intersight Managed Mode (IMM), to Day 2 operations, monitoring, and advanced troubleshooting using Cisco Intersight. This training also earns you 14 Continuing Education (CE) credits toward recertification.

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How you will benefit

This class will help you:

- Acquire essential skills to deploy, configure, and operate Cisco data center compute solutions across the full lifecycle, from physical deployment to advanced troubleshooting using Cisco Intersight
- Design and implement multi-tenant administrative structures with role-based access control and manage diverse infrastructure targets in Private Virtual Appliance environments
- Create and deploy Cisco UCS server profiles, templates, and policies for efficient, consistent server management and provisioning
- Gain expertise in proactive monitoring, troubleshooting, securing Cisco UCS infrastructure, and executing coordinated firmware upgrades using Cisco Intersight tools
- Integrate Cisco Intersight with third-party systems like ServiceNow and Splunk to enhance infrastructure telemetry visibility and analysis
- Earn 14 CE credits toward recertification

Why Attend with Current Technologies CLC

- Our Instructors are the top 10% rated by Cisco
- Our Lab has a dedicated 1 Gig Fiber Connection for our Labs
- Our Labs run up to Date Code for all our courses

Who Should Attend

The job roles best suited to the material in this course are:

- Data Center Engineers
- Systems Engineers
- Server Administrators
- Network Administrators
- Technical Solutions Architects
- Cisco Integrators/Partners
- Field Engineers
- Network Designers
- Network Managers
- Project Managers

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Objectives

After taking this course, you should be able to:

- Learn to select the appropriate Cisco Intersight deployment model for data privacy compliance, differentiate between telemetry polling and streaming via WebSocket transport, and deploy Cisco Intersight Assist to securely proxy third-party APIs
- Learn to operate, monitor, and support Cisco UCS X-Series infrastructure using Cisco Intersight, including customizing dashboards, utilizing global search, and applying tagging for efficient resource management
- Claim and troubleshoot diverse infrastructure targets in a Private Virtual Appliance environment
- Design and implement a multi-tenant administrative structure in Cisco Intersight using Organizations, Resource Groups, custom role-based access control, and IP Access Management
- Explain the architecture of Cisco IMM, configure Cisco UCS Fabric Interconnect ports, and create policy-based Domain, Chassis, and Server Profiles for Cisco UCS X-Series deployments
- Describe the fundamental and advanced concepts of Cisco UCS server profiles, pools, and policies within Cisco Intersight
- Learn to create, clone, and deploy server profiles and templates to efficiently manage standalone and Fabric Interconnect-attached servers, ensuring configuration consistency and rapid provisioning
- Understand Cisco Intersight Virtualization capabilities for managing, monitoring, and automating virtualized infrastructure across on-premises environments, including target claiming and workflow orchestration
- Learn to integrate and monitor third-party storage arrays within Cisco Intersight and design policy-driven storage configurations for consistent, scalable Cisco UCS server deployments using Cisco Intersight Managed Mode
- Execute coordinated fabric and server firmware upgrades with traffic evacuation and compliance validation



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Objectives Cont.

- Explain how to design and execute unattended operating system installation workflows within Cisco Intersight using the Software Repository, Cisco-validated, Custom, and Embedded installation methods, placeholder variable configuration, password encryption, and CSV-based bulk deployment across Cisco UCS server infrastructure
- Learn to proactively monitor, troubleshoot, and secure Cisco UCS infrastructure using Cisco Intersight's Topology View, Metrics Explorer, Alarms, Syslog/SNMP policies, Security Advisories, and Audit logs
- Learn to interpret, query, visualize, and analyze Cisco Intersight telemetry data using OTLP standards, the native Druid-powered Telemetry API, custom metric widgets, and capacity forecasting capabilities to deliver proactive infrastructure observability
- Use Cisco Intersight's proactive and reactive support tools to identify and resolve UCS hardware and firmware faults
- Describe the capabilities of the Device Console application, navigate its GUI and CLI, and generate diagnostic data for troubleshooting Cisco UCS components
- Systematically troubleshoot and resolve operational issues in Cisco IMM, including discovery failures, profile deployment errors, power and thermal violations, IMM Transition Tool failures, and emergency target unclaims
- Integrate Cisco Intersight with ServiceNow and Splunk to make infrastructure telemetry visible, connected, and analyzable across IT operations

Prerequisites

There are no prerequisites for this training. However, the knowledge and skills you are recommended to have before attending this training are:

- Familiarity with Cisco data center networking and computing
- Familiarity with Cisco UCS compute architecture and operations
- Familiarity with Data Center core technologies

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Course Outline

- Module 1: Cisco Intersight Locations, Organizations, and Role-Based Access Control
- Module 2: Cisco Intersight Targets
- Module 3: Domain and Chassis Profiles
- Module 4: Server Profiles, Templates, and Policies
- Module 5: Cisco Intersight Dashboards
- Module 6: Cisco Intersight Virtualization
- Module 7: Cisco Intersight Storage Management
- Module 8: Cisco Intersight Server Operating System Installation
- Module 9: Cisco Intersight Monitoring
- Module 10: Cisco Intersight Data Collection
- Module 11: Cisco Intersight Metrics
- Module 12: Cisco Intersight Diagnostic Data
- Module 13: Device Console
- Module 14: Software Repository and Firmware Management
- Module 15: Troubleshooting Use Cases
- Module 16: Cisco Intersight Add-On for Splunk and Incident Management Plugin

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Lab Outline

- Lab 1: Configure Organizations and Roles
- Lab 2: Navigate the Cisco Intersight User Interface
- Lab 3: Create Pools and Policies
- Lab 4: Create Server Profile
- Lab 5: Profiles from Templates
- Lab 6: Cisco Intersight Dashboards
- Lab 7: Automated Bare-Metal OS Installation Simulation
- Lab 8: Configure Cisco Intersight Assist as a Data Proxy
- Lab 9: Resolving Server Profile Association Failures Simulation