

Designing and Deploying Cisco UCS Director with ACI (UCSDACI) v6.6

What you'll learn in this course

The **Designing and Deploying Cisco UCS Director with ACI (UCSDACI) v6.6** course shows you how to use Cisco UCS[®] Director software to manage physical and virtual infrastructure elements, including Cisco Application Centric Infrastructure (Cisco ACI[™]). You will learn to use orchestration and automation functions of Cisco UCS Director to effectively manage infrastructure and automate IT processes. The course offers hands-on experience installing and configuring Cisco UCS Director software. You will also learn about features such as bare-metal provisioning; compute, network, and storage management; orchestration, including Application Policy Infrastructure Controller (APIC); Cisco UCS Director custom tasks, and more.

Course duration

- Instructor-led training: 4 days in the classroom with hands-on lab practice
- Virtual instructor-led training: 4 days of web-based classes with hands-on lab practice

How you'll benefit

This course will help you:

- Learn how to use Cisco UCS Director to automate provisioning, orchestration, and management of infrastructure resources
- Gain knowledge and skills through Cisco's unique combination of lessons and hands-on practice using enterprise-grade Cisco learning technologies, and Cisco cloud solution and software

Who should enroll

- Data center architects
- Cloud infrastructure architects
- Network engineers
- System administrators
- Storage administrators
- Engineers requiring advanced configuration skills
- Cisco integrators and partners

How to enroll

- For instructor-led training, visit the [Cisco Learning Locator](#).
- For private group training, visit [Cisco Private Group Training](#).

Technology areas

- Cloud

Course details

Objectives

After taking this course, you should understand:

- Data center challenges and cloud solutions
- Cisco UCS Director architecture
- Cisco UCS Director setup and configuration
- Cisco ACI
- Multitenancy in FlexPod Cisco ACI infrastructure
- Resource groups and service offerings
- Tenant onboarding
- Self-service provisioning
- Application containers

Prerequisites

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

- Understanding of server design and architecture
- Familiarity with Cisco UCS, Cisco ACI, server virtualization, and storage concepts

Outline

- Introducing Cisco UCS Director
 - Understanding Data Center Challenges
 - Understanding the Benefits of Cisco UCS Director
- Understanding Cisco UCS Director Components
 - Explaining Cisco UCS Director Architecture
 - Explaining Bare-Metal Agent
- Introducing Cisco Application Centric Infrastructure
 - Understanding Cisco ACI Overview
 - Understanding Cisco ACI Terms and Constructs
- Understanding Cisco UCS Director Infrastructure Management
 - Understanding Cisco UCS Director Deployment
- Introducing Role-Based Access Control
 - Explaining User Groups/Roles/Users
- Introducing Orchestration
 - Understanding Orchestration
- Introducing Cisco UCS Director ACI
 - Explaining Cisco UCS Director with ACI Solution
- Understanding Multitenancy with Cisco UCS Director ACI
 - Explaining Multitenancy with Cisco UCS Director ACI
 - Understanding Resource Groups and Service Offerings

- Introducing Advanced Tenant Onboarding
 - Onboarding a Tenant
 - Tagging Resources
- Introducing Application Containers
 - Understanding Application Profiles
 - Understanding Service Container Catalog
- Understanding Deployment Through Self-Service Portal
 - Understanding Self-Service Provisioning Portal
 - Understanding Service Request
- Understanding Virtual Data Center
 - Understanding Policies
 - Understanding vDC and Groups Use Case

Lab outline

- Configure Cisco UCS Director
- Cisco UCS Director Discovery
- Cisco UCS Director User Interface Familiarization
- APIC Orchestration Using Workflows
- Import Advance APIC Workflow
- Create Environmental Variables
- Create Resource Groups
- Create Service Offering and Tenant Profiles
- Onboard a Tenant in Cisco ACI Environment
- Create Application Container
- Deploy Multitier Application Container
- Self-Service Portal – End User Experience
- Service Design
- Catalogs
- Self-Service Portal – Standard VM Provisioning (End User)
- Advance Workflow with Dynamic Input Filter




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