

COURSE OVERVIEW:

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.

WHO SHOULD ATTEND:

The primary audience for this course is as follows:

- Data Center Architects
- Cloud Infrastructure Architects
- Network Engineers
- System Administrators
- Storage Administrators
- Engineers Requiring Advanced Configuration Skills
- Cisco Integrators and Partners

PREREQUISITES:

The knowledge and skills that a learner should have before attending this course are as follows:

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

COURSE OBJECTIVES

Upon completion of this course, the learner will be able to meet the following objectives:

- Learn how to use Cisco UCS Director to automate provisioning, orchestration, and management of infrastructure resources



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- 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
- 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

COURSE OUTLINE:

Module 1: Introducing Cisco UCS Director

- Lesson 1: Understanding Data Center Challenges
- Lesson 2: Understanding the Benefits of Cisco UCS Director

Module 2: Understanding Cisco UCS Director Components

- Lesson 1: Explaining Cisco UCS Director Architecture
- Lesson 2: Explaining Bare-Metal Agent

Module 3: Introducing Cisco Application Centric Infrastructure

- Lesson 1: Understanding Cisco ACI Overview
- Lesson 2: Understanding Cisco ACI Terms and Constructs

Module 4: Understanding Cisco UCS Director Infrastructure Management

- Lesson 1: Understanding Cisco UCS Director Deployment

Module 5: Introducing Role-Based Access Control

- Lesson 1: Explaining User Groups/ Roles/ Users

Module 6: Introducing Orchestration

- Lesson 1: Understanding Orchestration

Module 7: Introducing Cisco UCS Director with ACI

- Lesson 1: Explaining Cisco UCS Director with ACI Solution

Module 8: Understanding Multi-Tenancy with Cisco UCS Director ACI

- Lesson 1: Explaining Multi-Tenancy with Cisco UCS Director ACI
- Lesson 2: Understanding Resource Groups and Service Offerings

Module 9: Introducing Advanced Tenant Onboarding

- Lesson 1: Onboarding a Tenant
- Lesson 2: Tagging Resources

Module 10: Introducing Application Containers

- Lesson 1: Understanding Application Profiles
- Lesson 2: Understanding Service Container Catalog

Module 11: Understanding Deployment Through Self-Service Portal

- Lesson 1: Understanding Self-Service Provisioning Portal
- Lesson 2: Understanding Service Request

Module 12: Understanding Virtual Data Center

- Lesson 1: Understanding Policies
- Lesson 2: Understanding vDC and Groups Use Case

LAB OUTLINE

- Lab 1: Configure Cisco UCS Director
- Lab 2: Cisco UCS Director Discovery
- Lab 3: Cisco UCS Director User Interface Familiarization
- Lab 4: APIC Orchestration Using Workflows
- Lab 5: Import Advance APIC Workflow
- Lab 6: Create Environmental Variables
- Lab 7: Create Resource Groups

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- Lab 8: Create Service Offering and Tenant Profiles
- Lab 9: Onboard a Tenant in Cisco ACI Environment
- Lab 10: Create Application Container
- Lab 11: Deploy Multi-Tier Application Container
- Lab 12: Self-Service Portal – End User Experience
- Lab 13: Service Design
- Lab 14: Catalogs
- Lab 15: Self-Service Portal – Standard VM Provisioning (End User)
- Lab 16: Advance Workflow with Dynamic Input Filter