
Designing and Deploying Cisco UCS Director with ACI

Duration: 4 Days **Course Code: UCSDACI** **Version: 6.6**

Overview:

This course is a hands-on course that enables participants to understand the different features of UCS Director software to manage Physical and Virtual Infrastructure elements including ACI. Participants will get a chance to explore Orchestration and Automation functions of Cisco UCS Director to effectively manage infrastructure and automate IT processes. Participants will get hands on experience to install and configure Cisco UCS Director software. In addition, participants will understand functionality around features such as Bare metal provisioning, Compute/Network/Storage Management, Orchestration including APIC, Cloupiascript, SSH and PowerShell Tasks, UCS Director Custom Tasks etc.

This course is worth 40 Credits in the Continuing Education Program

Target Audience:

Individuals involved in the design and deployment of Cisco UCS Director software for the management of Physical and Virtual Infrastructure elements including ACI.

Objectives:

- **After completing this course you should be able to understand:**
 - Data Center Challenges and Cloud Solutions
 - UCS Director Architecture
 - UCS Director Setup and Configuration
 - Multitenancy in FlexPod Cisco ACI Infrastructure
 - Resource groups and Service offerings
 - Tenant On-boarding
 - Self-Service Provisioning
 - Application Containers with Layer 4-7 services
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Prerequisites:

Attendees should meet the following prerequisites:

- Understanding of server design and architecture
- Familiarity with Cisco UCS, Cisco ACI, Server Virtualization, and Storage Concepts - **DCUCI, DCAC9K** and **VSICM** Recommended
- VSICM - VMware vSphere: Install, Configure, Manage

Testing and Certification

Recommended as preparation for exams:

- There are no exams currently aligned to this course.
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Content:

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 with ACI

- Explaining Cisco UCS Director with ACI Solution

Understanding Multi-Tenancy with Cisco UCS Director ACI

- Explaining Multi-Tenancy 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

Labs

- 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
- 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

Further Information:

For More information, or to book your course, please call us on Head Office 01189 123456 / Northern Office 0113 242 5931

info@globalknowledge.co.uk

www.globalknowledge.com/en-gb/

Global Knowledge, Mulberry Business Park, Fishponds Road, Wokingham Berkshire RG41 2GY UK