Cisco UCS Director Foundation (UCSDF)

Course Content

Course Description:

The Cisco UCS Director Foundation (UCSDF) version 5.0 course is a five-day instructor-led hands-on training course. This training course will enable Cisco end customers and authorized Cisco System Engineers (SEs) to understand the concepts, architecture, and use cases that are related to the Cisco UCS Director deployment. This course will also prepare learners to implement basic Cisco UCS Director Deployment solutions. The focus is to ensure that students can implement the core features of the Cisco UCS Director that most implementations require. Students should already be familiar with basic Data Center Concepts.

Prerequisites:

The knowledge and skills that a learner must have before attending this course are as follows:
- General knowledge of cloud and datacenter virtualization
- Knowledge of Cisco UCS, NetApp Storage, Nexus, and VMware vCenter
- Knowledge of datacenter processes and best practices.

Topics:

Module 1: Cisco UCS Director Overview
- UCS Director Overview

Module 2: Cisco UCS Director Deployment
- Cisco UCS Director Installation
- Cisco UCS Director Configuration
- Virtual and Physical Account Management
- Administration and Troubleshooting

Module 3: Self-service Portal
- Overview of Self-service Portal
- Managing Users, Roles, and Groups
- Managing VDCs, Tenants, and Policies
- Managing Catalogs and Templates
- Managing Self-Service Provisioning
- Configuring Chargeback
- Reviewing Reports
- Implementing Customer Onboarding with Secure Multitenancy

Module 4: Orchestration
- Using Orchestration

Module 5: Virtualization
- Overview of VMware Integration
- Hosts, Clusters, and DRS Configuration
- VMware Datastore Clusters and DRS Configuration
- VMware: Virtual Networking
- Host Profiles
- VM Provisioning (Using an ISO Image), Template Management, VM Console
- Administration of VMs, vMotion, Linked Clones, VM Annotation Support
- SRM Integration
- VM-FEX
- Microsoft SCVMM Integration Overview
- Adding SCVMM Account and Discovery
- SCVMM Virtual Compute Management

- SCVMM Virtual Storage Management
- SCVMM Virtual Networking Management
- Policies, VDCs, and Catalogs

Module 6: Compute Management
- Theory of Operation, Benefits, and Value Proposition
- Managing Cisco UCS Infrastructure Using the Cisco UCS Director
- Cisco UCS Director Baremetal Agent
- Compute Policies in the Cisco UCS Director
- Monitoring and Reports in the Cisco UCS Director

Module 7: Storage Management
- Theory of Operation with NetApp and Cisco UCS Director
- Supported NetApp Device with the Cisco UCS Director
- NetApp Day Zero Configuration
- Adding NetApp Accounts to the Cisco UCS Director
- Monitoring and Managing the Cluster Mode NetApp Storage Devices with the Cisco UCS Director
- Orchestration with NetApp
- NetApp and Cisco UCS Director Integration Use Cases

Module 8: Network Management
- Theory of Operation, Benefits, and Value Proposition
- Managing Cisco Nexus and Other Network Infrastructure Using the Cisco UCS Director
- Network Policies in the Cisco UCS Director
- Monitoring and Reports in the Cisco UCS Director

Module 9: Integrations
- Integrations Overview