Introducing Cisco Data Center Networking Technologies (CS-DCICT v6.0)

Modality: Virtual Classroom

Duration: 2.5 Days

CLC: 27 Units

About this course:

The material on the exploratory level that is taught in these courses is targeted on learners that can execute just the more essential configuration work. The course labs will concentrate on verifying setups, with chosen practices involving making arrangements designing or changes new topologies. Also, this course helps the understudies in the groundwork for the exam of 200-155 DCICT.

This course is a greater amount of introductory information for those individuals who have just an essential understanding of design. In the course, the labs will aim on the best skillful way to verify configurations, with the utilization of certain selected exercises that comprise plan making changes or new topologies or in the arrangement.

The normal pay for a Cisco Certified Network Administrator is $72,991 annually.

Course Objectives:

- Explain and verify the fundamentals of Cisco data center
- Define Cisco data center virtualization
- Describe the storage networking of Cisco data center
- Explain Cisco data center unified fabric
- Explain and verify Cisco UCS
- Configure Virtual Forwarding and Routing by Using SSH
- Discover the Elements of Virtual Device Contexts
- Configure Nexus 2000 Fabric Extender of Cisco
- Install vCenter and VMware ESXi
- Design Cisco FabricPath
- Design Virtual Port Channels
- Explore the Environment of Cisco UCS Server
- Configure Virtual Port Channels with FEX
- Design Unified Ports on Nexus Switch of Cisco and Implement FCoE
- Configure Local RBAC
- Discover the Cisco UCS Manager XML API for the Management Information Tree
- Design Cisco UCS to Boot Servers from SAN
- Configure Cisco NX-OS with APIs
- Design User Accounts in Cisco UCS Director
- Define Cisco UCS Director Monitoring Capabilities
- Add Physical and Virtual Accounts to Cisco UCS Director
- Customize Cisco UCS Director

- Use the Cisco UCS Director Orchestration Features

Audience:

This course is planned for:

- Cisco Partners and Integrators
- Consulting Systems Engineer
- Network Engineer
- Network Designer
- Technical Solutions Architect
- Systems Engineer

This course secondary audience is:

- Network Administrator
- Server Administrator
- Network Manager
- Storage Administrator

This course tertiary audience is:

- Program Manager
- Project Manager

Prerequisites:

Learners must understand the basics of the Data Centers Networking in Cisco.

Suggested prerequisites courses:

DCICN -- Introducing Cisco Data Center Networking v1.x

Course Outline:

Module 1: Cisco Data Center Network Virtualization

- Lesson 1: Describing Switch Virtualization
- Lesson 2: Describing Machine Virtualization
- Lesson 3: Describing Network Virtualization

Module 2: Cisco Data Center Network Technologies Configuration

- Lesson 1: Describing Cisco FabricPath
- Lesson 2: Describing Cisco Fabric Extender
- Lesson 3: Describing Port Channels and Virtual Port Channels
- Lesson 4: Describing Cisco Unified Fabric

Module 3: Cisco Unified Computing System

- Lesson 1: Describing Cisco UCS Components
- Lesson 2: Cisco UCS RBAC
- Lesson 3: Deploying Servers in Cisco UCS

Module 4: Data Center Automation and Orchestration

- Lesson 1: Using Application Programming Interfaces
- Lesson 2: Cloud Computing
- Lesson 3: Describing Cisco UCS Director
- Lesson 4: Using Cisco UCS Director for Orchestration

Module 5: Cisco Application-Centric Infrastructure

- Lesson 1: Describing Cisco ACI
- Lesson 2: Describing Cisco ACI Traffic Forwarding
- Lesson 3: Programming and Orchestrating Cisco ACI

Lab Outline

- Guided Lab 1: Configure Virtual Routing and Forwarding by Using SSH
- Guided Lab 2: Explore the Elements of Virtual Device Contexts
- Guided Lab 3: Install VMware ESXi and vCenter
- Guided Lab 4: Configure Cisco FabricPath
- Guided Lab 5: Configure the Cisco Nexus 2000 Fabric Extender
- Guided Lab 6: Configure Virtual Port Channels
- Guided Lab 7: Configure Virtual Port Channels with FEX
- Guided Lab 8: Configure Unified Ports on Cisco Nexus Switch and Implement FCoE
- Guided Lab 9: Explore Cisco UCS Server Environment
- Guided Lab 10: Configure Local RBAC
- Guided Lab 11: Configure Cisco UCS to Boot Servers from SAN
- Guided Lab 12: Configure Cisco NX-OS with APIs
- Guided Lab 13: Explore the Management Information Tree of the Cisco UCS Manager XML API
- Guided Lab 14: Configure User Accounts in Cisco UCS Director
- Guided Lab 15: Add Virtual and Physical Accounts to Cisco UCS Director
- Guided Lab 16: Customize Cisco UCS Director
- Guided Lab 17: Explore Cisco UCS Director Monitoring Capabilities
- Guided Lab 18: Use Cisco UCS Director Orchestration Features