



Introducing Cisco Data Center Networking v6.2 - DCICN (Associate)

Course Details

Course Outline

1. Network Protocols and Host-to-Host Communication

- Describing Ethernet
- Describing OSI and TCP/IP Models
- Describing IPv4 and IPv6 Network Layer Addressing
- Describing Packet Delivery on a Hierarchical Network
- Describing the TCP/IP Transport Layer

2. Basic Data Center Networking Concepts

- Describing Data Center Network Architectures
- Describing the Cisco Nexus Family and NX-OS
- Implementing VLANs and Trunks
- Describing Redundant Switched Topologies

3. Advanced Data Center Networking Concepts

- Describing the Routing Process on Nexus Switches
- Describing Layer 3 First Hop Redundancy
- Describing AAA on Nexus Switches
- Describing ACLs on Nexus Switches

4. Basic Data Center Storage

- Describing Storage Connectivity Options in the Data Center
- Describing Fibre Channel Storage Networking
- Describing VSANs

5. Advanced Data Center Storage

- Describing Communication Between Initiator and Target



- Describing Fibre Channel Zone Types and Their Uses
- Describing Cisco NPV Mode and NPIV
- Describing Data Center Ethernet Enhancements
- Describing Fibre Channel over Ethernet

6. Cisco UCS Architecture

- Describing Cisco UCS Server Hardware Components
- Cisco UCS Physical Connectivity for a Fabric Interconnect Cluster
- Describing the Cisco UCS Manager Interfaces

7. Labs

- Explore IPv4 and IPv6 Addressing
- Explore LAN Communication
- Explore Protocol Analysis
- Explore TCP and UDP Communication
- Explore the Cisco NX-OS Command Line Interface
- Explore Topology Discovery and Documentation
- Implement VLANs and Trunks
- Map a Spanning Tree and Configure Port Channels
- Implement Multilayer Switching
- Configure OSPF
- Configure EIGRP
- Configure HSRP
- Configure AAA and Secure Remote Administration
- Configure ACLs
- Configure VSANs
- Validate FLOGI and FCNS
- Configure Zoning
- Explore the Cisco UCS Manager GUI