



Cisco NX-OS for IOS Administrators (DCNXA)

Course ID#: 1575-913-ZZ-W

Hours: 35

Course Content

Course Description:

The Cisco NX-OS for IOS Administrators (DCNXA) v1.0 is a five-day instructor-led course designed for network administrators who are migrating from a traditional Cisco IOS environment to routing and switching platforms that use the Nexus Operating System (NX-OS). This course covers the key components and procedures you need to know to install and manage Cisco Nexus 7000, 5000, 2000 and 1000v series switches. This course will also cover important troubleshooting procedures for these platforms as well.

Prerequisites:

The following skills and knowledge are recommended for learners to fully benefit from this course:

- CCNA Switching and Routing knowledge level. CCNP level preferred.

Topics:

Module 1: The Cisco Nexus platform and NX-OS

- Identifying Cisco Nexus Products
- Nexus 7000 Features at a high level
- The NX-OS Software Architecture
- Configuring Nexus Management Features
- Modularity
- Features
- Licensing
- Command syntax
- Context-sensitive help
- RBAC
- Navigation between configuration modes
- ISSU

Module 2: Configuring Layer 2 Features using the NX-OS

- Configuring Layer 2 Switching Features
- Unidirectional Link Detection (UDLD)
- Link Layer Discovery Protocol (LLDP)
- Port Profiles
- Maximum Transmission Unit (MTU)
- Multiple Spanning Tree
- Traffic Storm Control
- Configuring Nexus Fabric Extenders (FEX)
- Port Channels and Virtual Port Channels (VPCs)
- FabricPath
- Virtual Device Contexts (VDCs)



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Module 3: Layer 3 Features using the NX-OS

- Virtual Routing and Forwarding (VRF) Contexts
- Static Routing
- EIGRP
- OSPF
- BGP
- IS-IS
- Unicast RIB and FIB
- Route Policy Manager
- Policy-Based Routing (PBR)
- First Hop Redundancy Protocols (HSRP/VRRP/GLBP)
- Multi-Protocol Label Switching (MPLS)
- Overlay Transport Virtualization (OTV)

Module 4: Fiber Channel and FCoE

- Understanding the Fiber Channel protocol
- Configuring FCoE
- Configuring SAN Switching Features

Module 5: Troubleshooting Cisco NX-OS

- SPAN/ERSPAN
- NetFlow
- GOLD
- Embedded Event Manager (EEM)
- Onboard Failure Logging (OBFL)

Module 6: Cisco NX-OS on the Nexus 1000v Virtual Switch

- Fundamentals of the Nexus 1000v Virtual Switch
- Integrating the Nexus 1000v with the VMware vCenter Server
- Basic Integration process
- Configuring Port Profiles
- Configuring Security Features