

CCNP DATACENTER - 350-601 DCCOR

Implementing and Operating Cisco Data Center Core Technologies (DCCOR)

1.0 Network

1.1 Apply routing protocols

- 1.1.a OSPFv2, OSPFv3
- 1.1.b MP-BGP
- 1.1.c PIM
- 1.1.d FHRP

1.2 Apply switching protocols such as RSTP+, LACP and vPC

1.3 Apply overlay protocols such as VXLAN EVPN and OTV

1.4 Apply ACI concepts

- 1.4.a Fabric setup
- 1.4.b Access policies
- 1.4.c VMM
- 1.4.d Tenant policies

1.5 Analyze packet flow (unicast, multicast, and broadcast)

1.6 Analyze Cloud service and deployment models (NIST 800-145)

1.7 Describe software updates and their impacts

- 1.7.a Disruptive / nondisruptive
- 1.7.b EPLD
- 1.7.c Patches

1.8 Implement network configuration management

1.9 Implement infrastructure monitoring such as NetFlow and SPAN

1.10 Explain network assurance concepts such as streaming telemetry

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2.0 Compute

2.1 Implement Cisco Unified Compute System Rack Servers

2.2 Implement Cisco Unified Compute System Blade Chassis

- 2.2.a Initial setup
- 2.2.b Infrastructure management
- 2.2.c Network management (VLANs, pools and policies, templates, QoS)
- 2.2.d Storage management (SAN connectivity, Fibre Channel zoning, VSANs, WWN pools, SAN policies, templates)
- 2.2.e Server management (Server pools and boot policies)

2.3 Explain HyperFlex Infrastructure Concepts and benefits (Edge and Hybrid Architecture vs all-flash)

2.4 Describe firmware and software updates and their impacts on B-Series and C-Series servers

2.5 Implement compute configuration management (Backup and restore)

2.6 Implement infrastructure monitoring such as SPAN and Intersight

3.0 Storage Network

3.1 Implement Fibre Channel

- 3.1.a Switch fabric initialization
- 3.1.b Port channels
- 3.1.c FCID
- 3.1.d CFS
- 3.1.e Zoning
- 3.1.f FCNS
- 3.1.g Device alias
- 3.1.h NPV and NPIV
- 3.1.i VSAN

3.2 Implement FCoE Unified Fabric (FIP and DCB)

3.3 Describe NFS and NAS concepts

3.4 Describe software updates and their impacts (Disruptive/nondisruptive and EPLD)

3.5 Implement infrastructure monitoring

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4.0 Automation

4.1 Implement automation and scripting tools

- 4.1.a EEM
- 4.1.b Schedule
- 4.1.c Bash Shell and Guest Shell for NX-OS
- 4.1.d REST API
- 4.1.e JSON and XML encodings

4.2 Evaluate automation and orchestration technologies

- 4.2.a Ansible
- 4.2.b Puppet
- 4.2.c Python
- 4.2.d POAP
- 4.2.e DCNM
- 4.2.f UCSD
- 4.2.g PowerShell

5.0 Security

5.1 Apply network security

- 5.1.a AAA and RBAC
- 5.1.b ACI contracts and micro segmentation
- 5.1.c First-hop security features such as dynamic ARP inspection (DAI), DHCP snooping, and port security
- 5.1.d CoPP

5.2 Apply compute security

- 5.2.a AAA and RBAC
- 5.2.b Keychain authentication

5.3 Apply storage security

- 5.3.a AAA and RBAC
- 5.3.b Port security
- 5.3.c Fabric binding

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