



CCIE HUB

CCNP DATA CENTER

DCCOR 350-601 v1.2

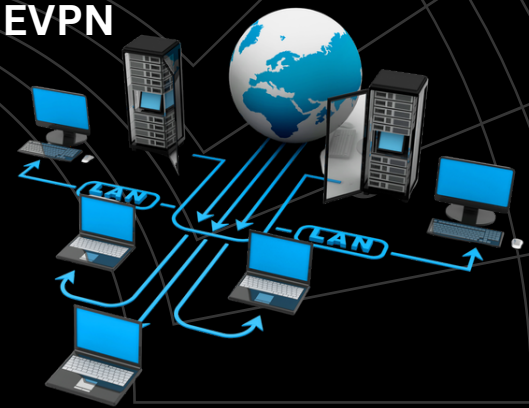


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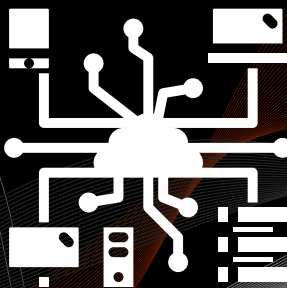
1.0 NETWORK 25%

- ▶ **1.1 Apply routing protocols**
 - 1.1.a OSPFv2 and 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**
- ▶ **1.4 Apply ACI concepts**
 - 1.4.a Fabric setup
 - 1.4.b Access policies
 - 1.4.c VMM
- ▶ **1.5 Analyze packet flow (unicast, multicast, and broadcast)**
- ▶ **1.6 Describe 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 using traditional and AI-powered tools such as NetFlow, SPAN, and Cisco Nexus Dashboard**
- ▶ **1.10 Explain network assurance concepts such as streaming telemetry**
- ▶ **1.11 Describe the capabilities and features of Nexus Dashboard**



2.0 COMPUTE 20%

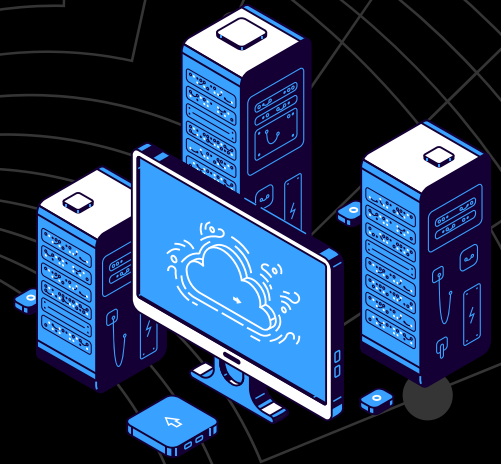
- ▶ **2.1 Implement Cisco Unified Compute System Rack Servers**
- ▶ **2.2 Implement Cisco Unified Compute System Blade Chassis**
 - 2.2.a Initial setup
 - 2.2.b Infrastructure management
 - 2.2.c Network management (VLANs, pools and policies, templates, QoS)
 - 2.2.d Storage management (SAN connectivity, Fibre Channel zoning, VSANs, WWN pools, SAN policies, templates)
 - 2.2.e Server management (Server pools and boot policies)
- ▶ **2.3 Explain UCS-X in Intersight Managed Mode**
- ▶ **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 Cisco Intersight**



3.0 STORAGE NETWORK 20%

▶ 3.1 Implement Fibre Channel

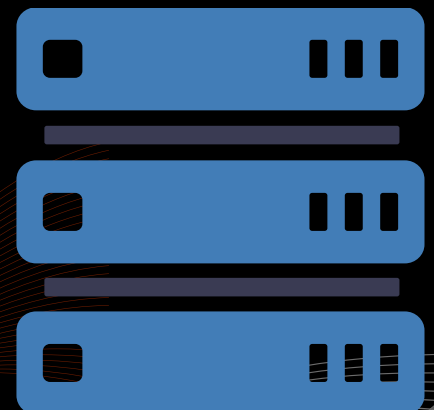
- 3.1.a Switch fabric initialization
- 3.1.b Port channels
- 3.1.c FCID
- 3.1.d CFS
- 3.1.e Zoning
- 3.1.f FCNS
- 3.1.g Device alias
- 3.1.h NPV and NPIV
- 3.1.i VSAN



▶ 3.2 Describe network storage systems and concepts such as NFS and iSCSI

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

▶ 3.4 Implement infrastructure monitoring using traditional and AI-powered tools such as SPAN and Cisco Nexus Dashboard



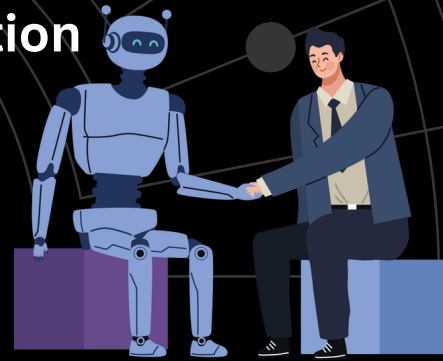
4.0 AUTOMATION AND ARTIFICIAL INTELLIGENCE 15%

► 4.1 Implement automation and scripting tools

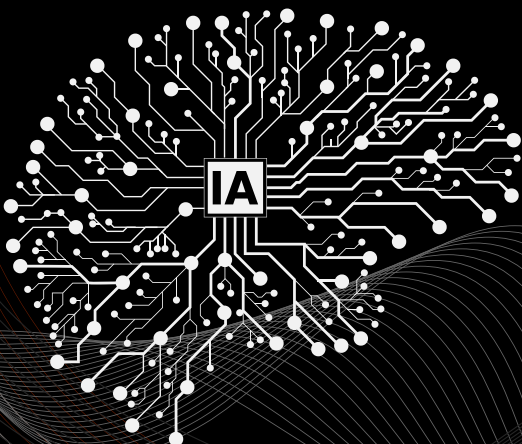
- 4.1.a EEM
- 4.1.b Scheduler
- 4.1.c Bash Shell and Guest Shell for NX-OS
- 4.1.d REST API (NX-API, JSON and XML encodings)
- 4.1.e On-box Python

► 4.2 Evaluate automation and orchestration technologies

- 4.2.a Ansible
- 4.2.b Python
- 4.2.c POAP
- 4.2.d Cisco Nexus Dashboard Fabric Controller
- 4.2.e PowerShell
- 4.2.f Terraform CLI
- 4.2.g Intersight



► 4.3 Describe high-performance network enabling technologies for AI in data center infrastructure



5.0 SECURITY 15%

- ▶ **5.1 Apply network security**
 - 5.1.a AAA and RBAC
 - 5.1.b ACI contracts and microsegmentation
 - 5.1.c First-hop security features
 - 5.1.d Keychain authentication
 - 5.1.e MACsec
- ▶ **5.2 Apply compute security**
 - 5.2.a AAA and RBAC
- ▶ **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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