EXPERTS FOR TRAINING
الخبراء للتدريب

CISCO CERTIFIED CCNA

Chapter 1: Network Access:

1.1 Describe switching concepts.
1.2 Layer 2 and Layer 3 switches.
1.3 Power Over Ethernet (POE).
1.4 Configure and verify VLANs.
1.5 Configure and verify Interswitch connectivity.
1.6 Configure and verify Layer 2 discovery protocols (CDP and LLDP).
1.7 Configure and verify (Layer 2/Layer 3) EtherChannel.
1.8 Interpret basic operations of Spanning Tree Protocol.

Chapter 2: IP Connectivity:

2.1 Overview of Cisco Routers.
2.2 Configure and verify IPv4 subnetting
2.3 Configure and verify IPv4 and IPv6 static routing.
2.4 Configure and verify IPv4 Floating static.
2.5 Configure and verify single area OSPFv2, Neighbor adjacencies, Point-to-point, Broadcast (DR/BDR selection), Router ID.
2.6 Configure and verify inter-VLAN routing, Router on a stick, SVI.
2.7 Configure and verify concepts of first hop redundancy Protocols.

Chapter 3 : Security Fundamentals:

3.1 Define key security concepts (threats, vulnerabilities, exploits).
3.2 Next-generation firewalls and IPS.
3.3 Describe IPsec remote access and site-to-site VPNs and WAN.
3.4 Configure and verify access control lists.
3.5 Configure and verify Layer 2 security features.
3.6 Compare authentication, authorization, and accounting concepts.

Chapter 4: IP Services:

4.1 Configure and verify NAT.
4.2 Configure and verify NTP.
4.3 Configure and verify DHCP client and relay.
4.4 Explain QoS, such as classification, marking.
4.5 Configure network devices for remote access using SSH.
4.6 Describe and Configure the capabilities and function of TFTP/FTP in the network.

Chapter 5: Describe wireless principles:

5.1 Wi-Fi channels, SSID, RF, Encryption.
5.2 Describe Cisco Wireless Architectures.
5.3 Describe physical infrastructure connections of WLAN components (AP, WLC).
5.4 Describe AP and WLC management access connections.
5.5 Describe wireless security protocols (WPA, WPA2, and WPA3).
5.6 Configure and verify WLAN within the GUI using WPA2 PSK.

Chapter 6: Describe characteristics of network topology architectures:

6.1 Two-tier, Three-tier and Spine-leaf.
6.2 Explain virtualization fundamentals.
6.3 On-premise and cloud.

Chapter 7: Automation and Programmability:

7.1 Explain how automation impacts network management.
7.2 Describe controller-based, software defined architecture (overlay, underlay,fabric).
7.3 Northbound and Southbound APIs.
7.4 Cisco Digital Network Architecture Center (DNA).
7.5 Describe characteristics of REST-based APIs.

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