

4. MAC address table

Network Access

1. Configure and verify VLANs (normal range) spanning multiple switches
2. Access ports (data and voice)
3. Default VLAN
4. Connectivity

Configure and verify interswitch connectivity

1. Trunk ports
2. 802.1Q
3. Native VLAN
4. Configure and verify Layer 2 discovery protocols (Cisco Discovery Protocol and LLDP)
5. Configure and verify (Layer 2/Layer 3) EtherChannel (LACP)
6. Describe the need for and basic operations of Rapid PVST+ Spanning Tree Protocol and identify basic operations
7. Root port, root bridge (primary/secondary), and other port names
8. Port states (forwarding/blocking)
9. PortFast benefits
10. Describe AP and WLC management access connections (Telnet, SSH, HTTP, HTTPS, console, and TACACS+/RADIUS)

IP Connectivity

11. Interpret the components of routing table
12. Routing protocol code
13. Prefix
14. Network mask
15. Next hop
16. Administrative distance
17. Metric
18. Gateway of last resort

Determine how a router makes a forwarding decision by default

1. Longest match
2. Administrative distance
3. Routing protocol metric
4. Configure and verify IPv4 and IPv6 static routing

Configure and verify single area OSPFv2

1. Neighbor adjacencies
2. Point-to-point
3. Broadcast (DR/BDR selection)
4. Router ID
5. Describe the purpose of first hop redundancy protocol

IP Services

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Page 2 of 3