



200-301^{Q&As}

Implementing and Administering Cisco Solutions (CCNA) (Include Newest Simulation Labs)

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QUESTION 1

When implementing a router as a DHCP server, which two features must be configured? (Choose two)

- A. relay agent information
- B. address pool
- C. smart-relay
- D. database agent
- E. manual bindings

Correct Answer: BE

QUESTION 2

What is a characteristic of private IPv4 addressing?

- A. is used when the ISP requires the new subnet to be advertised to the internet for web services
- B. allows multiple companies to use the same addresses without conflict
- C. is used on the external interface of a firewall
- D. allows endpoints to communicate across public network boundaries

Correct Answer: B

QUESTION 3

Which interface is used for out-of-band management on a WLC?

- A. management
- B. virtual
- C. dynamic
- D. service port

Correct Answer: D

Out of band is service-port interface In band is management interface



QUESTION 4

Refer to me exhibit. Which action is taken by the router when a packet is sourced from 10.10.10.2 and destined for 10.10.10.16?

```
Router1#show ip route
Gateway of last resort is not set
 209.165.200.0/27 is subnetted, 1 subnets
B    209.165.200.224 [20/0] via 10.10.12.2, 00:09:57
 10.0.0.0/8 is variably subnetted, 4 subnets, 3 masks
C    10.10.10.0/28 is directly connected, GigabitEthernet0/0
C    10.10.11.0/30 is directly connected, FastEthernet2/0
O    10.10.13.0/24 [110/2] via 10.10.10.1, 00:08:34, GigabitEthernet0/0
C    10.10.12.0/30 is directly connected, GigabitEthernet0/1
```

- A. It uses a route that is similar to the destination address
- B. It discards the packets.
- C. It floods packets to all learned next hops.
- D. It Queues the packets waiting for the route to be learned.

Correct Answer: B

Referring to routing table, 10.10.10.0/28 supports network from 10.10.10.0-10.10.10.15.

Gateway of last resort is not set

So traffic destined to 10.10.10.16 will be discarded.

QUESTION 5

Refer to the exhibit.

```
GigabitEthernet1 is up, line protocol is up
Hardware is CSR vNIC, address is 5000.0004.0000 (bia 5000.0004.0000)
Internet address is 192.168.1.1/24
MTU 1500 bytes, BW 1000000 Kbit/sec, DLY 10 usec,
    reliability 255/255, txload 1/255, rxload 1/255
Encapsulation ARPA, loopback not set
Keepalive set (10 sec)
Full Duplex, 1000Mbps, link type is auto, media type is RJ45
```

Which format matches the Modified EUI-64 IPv6 interface address for the network 2001:db8::/64?

- A. 2001:db8::5000:00ff:fe04:0000/64



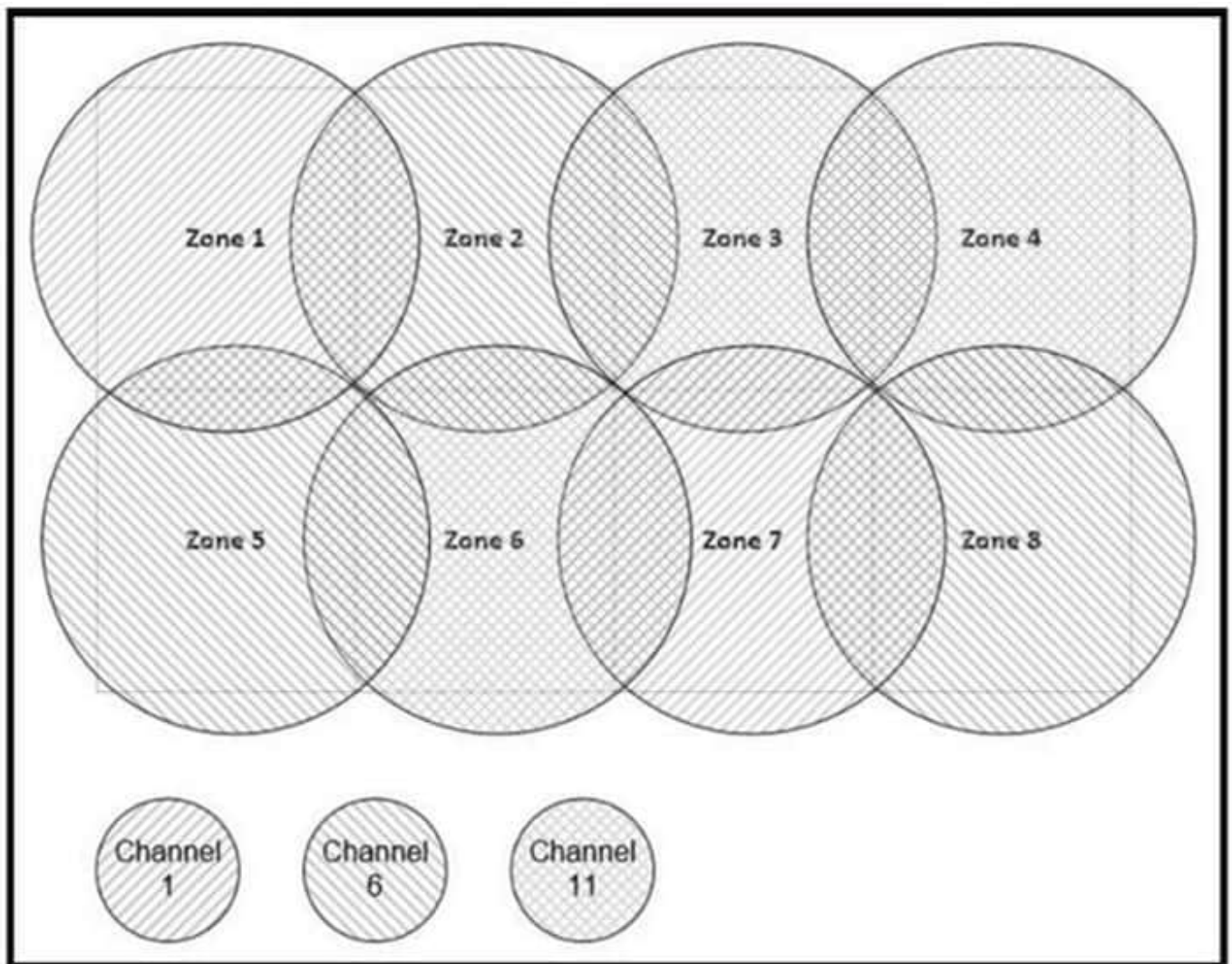
- B. 2001:db8::4332:5800:41ff:fe06:/64
- C. 2001:db8::5000:0004:5678:0090/64
- D. 2001:db8::5200:00ff:fe04:0000/64

Correct Answer: D

Given MAC = 50 00 00 04 00 00 To make it EUI-64 IPv6, insert FFEE in the middle of the MAC, so it will become: 50 00 00 FF FE 04 00 00 After this, "5" in binary will be written as "0101" and "0" in binary as "0000" OR we can say "50" in binary can be written as 01010"0"0. Now, flip the 7th bit, so it will become "010100"1"0" and now this "010100"1"0" can again be written in decimal as "52" after flipping the 7th bit. So, finally it will become: 52 00 00 FF FE 04 00 00

QUESTION 6

Refer to the exhibit.



Between which zones do wireless users expect to experience intermittent connectivity?

- A. between zones 1 and 2



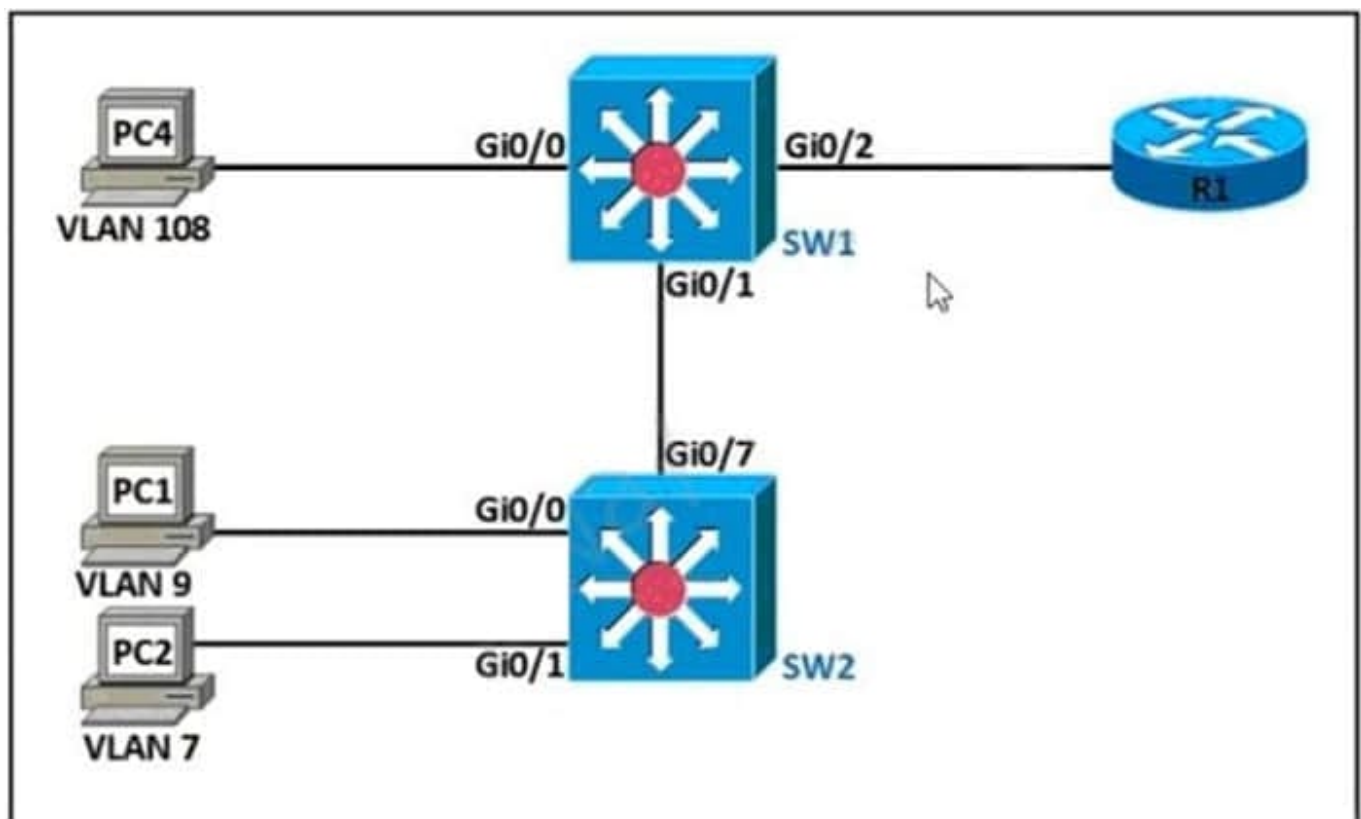
- B. between zones 2 and 5
- C. between zones 3 and 4
- D. between zones 3 and 6

Correct Answer: C

Zones 3 and 4 both have Channel 11 that is overlapped. Zones 3 and 6 do not overlap at all.

QUESTION 7

Refer to the exhibit.



The SW1 and SW2 Gi0/0 ports have been preconfigured. An engineer is given these requirements:

1.
Allow all PCs to communicate with each other at Layer 3.
2.
Configure untagged traffic to use VLAN 5.
3.
Disable VLAN 1 from being used.



Which configuration set meets these requirements?

A. SW1# interface Gi0/1 switchport mode trunk switchport trunk allowed vlan 5,7,9,108 switchport trunk native vlan 5

interface Gi0/2

switchport mode trunk

switchport trunk allowed vlan 5,7,9,108

SW2#

interface Gi0/1

switchport mode access

switchport access vlan 7

interface Gi0/7

switchport mode trunk

switchport trunk allowed vlan 7,9,108

B. SW1# interface Gi0/1 switchport mode trunk switchport trunk allowed vlan 5,7,9,108 switchport trunk native vlan 5

interface Gi0/2

switchport mode access

switchport trunk allowed vlan 7,9,108

SW2#

interface Gi0/1

switchport mode access

no switchport access vlan 1

switchport access vlan 7

interface Gi0/7

switchport mode trunk

switchport trunk allowed vlan 7,9,108

switchport trunk native vlan 5

C. SW#1 interface Gi0/1 switchport mode trunk switchport trunk allowed vlan 5,7,9,108 switchport trunk native vlan 5

interface Gi0/2

switchport mode trunk

switchport trunk allowed vlan 5,7,9,108



SW2#

interface Gi0/1

switchport mode access

switchport access vlan 7

interface Gi0/7

switchport mode trunk

switchport trunk allowed vlan 5,7,9,108

switchport trunk native vlan 5

D. SW1# interface Gi0/1 switchport mode trunk switchport trunk allowed vian 5,7,9,108

interface Gi0/2

switchport mode trunk

switchport trunk allowed vlan 7,9,108

SW2#

interface Gi0/1

switchport mode trunk

switchport trunk allowed vlan 7

interface Gi0/7

switchport mode trunk

switchport trunk allowed vlan 5,7,9,108

Correct Answer: C

QUESTION 8

What is a function of the Cisco DNA Center Overall Health Dashboard?

- A. It provides a summary of the top 10 global issues.
- B. It provides detailed activity logging for the 10 devices and users on the network.
- C. It summarizes the operational status of each wireless devise on the network.
- D. It summarizes daily and weekly CPU usage for servers and workstations in the network.

Correct Answer: A



QUESTION 9

Which configuration ensures that the switch is always the root for VLAN 750?

- A. Switch(config)#spanning-tree vlan 750 priority 38003685
- B. Switch(config)#spanning-tree vlan 750 root primary
- C. Switch(config)#spanning-tree vlan 750 priority 614440
- D. Switch(config)#spanning-tree vlan 750 priority 0

Correct Answer: D

In a Spanning Tree Protocol (STP) network, the switch with the lowest bridge priority value is elected as the root bridge for a particular VLAN.

The lower the bridge priority value, the higher the priority of the switch in the network. Option B sets the bridge priority value to 0, which ensures that the switch is always the root for VLAN 750, regardless of the other switches' bridge priority

values.

Option A sets the bridge priority value to 38418607, which is a lower value than the default but may not necessarily guarantee that the switch will always be the root bridge for VLAN 750.

Option C uses the root primary command, which makes the switch a primary root bridge for all VLANs, not just VLAN 750.

Option D sets the bridge priority value to 614440, which is higher than the default value and would make the switch less likely to be elected as the root bridge.

QUESTION 10

An engineer is asked to protect unused ports that are configured in the default VLAN on a switch. Which two steps will fulfill the request? (Choose two.)

- A. Configure the ports as trunk ports.
- B. Enable the Cisco Discovery Protocol.
- C. Configure the port type as access and place in VLAN 99.
- D. Administratively shut down the ports.
- E. Configure the ports in an EtherChannel.

Correct Answer: CD

C. Configuring the port type as access and placing the unused ports in a specific VLAN (such as VLAN 99) ensures that any connected devices will not have access to the default VLAN, thereby protecting it.

D. Administratively shutting down the unused ports completely disables them, preventing any traffic from passing



through and enhancing security. The other options are not directly related to protecting unused ports in the default VLAN:

- A. Configuring the ports as trunk ports is used for carrying multiple VLANs across a single link.
- B. Enabling the Cisco Discovery Protocol (CDP) is a network protocol used by Cisco devices for discovering and sharing information about neighboring devices.
- E. Configuring the ports in an EtherChannel is a technique for bundling multiple physical links into a logical link for increased bandwidth and redundancy.

QUESTION 11

A Cisco engineer is configuring a factory-default router with these three passwords:

1.

The user EXEC password for console access is p4ssw0rd1

2.

The user EXEC password for Telnet access is s3cr3t2

3.

The password for privileged EXEC mode is pnv4t3p4ss.

Which command sequence must the engineer configured

- A. enable secret priv4t3p4ss ! line con 0 password login p4ssword1 ! line vty 0 15 password login s3cr3t2 login
- B. enable secret privilege 15 priv4t3p4ss ! line con 0 password p4ssword1 login ! line vty 0 15 password s3cr3t2 login
- C. enable secret priv4t3p4ss ! line con 0 password p4ssword1 login ! line vty 0 15 password s3cr3t2 login
- D. enable secret priv4t3p4ss ! line con 0

Correct Answer: C

QUESTION 12

A network administrator needs to aggregate 4 ports into a single logical link which must negotiate layer 2 connectivity to ports on another switch

What must be configured when using active mode on both sides of the connection?

- A. 802.1q trunks
- B. Cisco vPC
- C. LLDP



D. LACP

Correct Answer: D

LACP-Active, Passive (Industry standard) PAgP -Desirable, Auto (Cisco Proprietary)

QUESTION 13

Why would a network administrator choose to implement automation in a network environment?

- A. To simplify the process of maintaining a consistent configuration state across all devices
- B. To centralize device information storage
- C. To implement centralized user account management
- D. To deploy the management plane separately from the rest of the network

Correct Answer: A

QUESTION 14

DRAG DROP

Refer to the exhibit. Drag and drop the prefix lengths from the left onto the corresponding prefixes on the right Not all prefixes are used see the answer below.

Answer Area

Global Unicast

- 2001:db8:600d:cafe::123
- 3ffe:e54d:620:a87a::f00d

Unique Local

- fcba:926a:e8e:7a25:b1:c6d2:1a76:8fdc
- fd6d:c83b:5cef:b6b2::1

Select and Place:

**Answer Area**

0	configured and managed by a WLC
0	managed from a web-based dashboard
0	accessible for management via Telnet, SSH, or a web GUI
0	requires a management IP address
0	supports automatic deployment

Autonomous Access Point	
0	
0	
Cloud-Based Access Point	
0	
0	

Correct Answer:

Answer Area

0	
0	managed from a web-based dashboard
0	
0	
0	

Autonomous Access Point	
0	accessible for management via Telnet, SSH, or a web GUI
0	configured and managed by a WLC
Cloud-Based Access Point	
0	requires a management IP address
0	supports automatic deployment

QUESTION 15

A network engineer is configuring a switch so that it is remotely reachable via SSH. The engineer has already configured the host name on the router. Which additional command must the engineer configure before entering the command to generate the RSA key?

- A. password password
- B. crypto key generate rsa modulus 1024



C. ip domain-name domain

D. ip ssh authentication-retries 2

Correct Answer: C

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