



200-301^{Q&As}

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

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QUESTION 1

What is a function of spine-and-leaf architecture?

- A. offers predictable latency of the traffic path between end devices
- B. mitigates oversubscription by adding a layer of leaf switches
- C. exclusively sends multicast traffic between servers that are directly connected to the spine
- D. limits payload size of traffic within the leaf layer

Correct Answer: A

With a spine-and-leaf architecture, no matter which leaf switch to which a server is connected, its traffic always has to cross the same number of devices to get to another server (unless the other server is located on the same leaf). This approach keeps latency at a predictable level because a payload only has to hop to a spine switch and another leaf switch to reach its destination.

Reference: <https://www.cisco.com/c/en/us/products/collateral/switches/nexus-7000-series-switches/white-paper-c11-737022.html>

QUESTION 2

Refer to exhibit.

```
CertBus-Router(config)#interface GigabitEthernet 1/0/1
CertBus-Router(config-if)#ip address 192.168.16.143 255.255.255.240
Bad mask /28 for address 192.168.16.143
```

Which statement explains the configuration error message that is received?

- A. It belongs to a private IP address range.
- B. The router does not support /28 mask.
- C. It is a network IP address.
- D. It is a broadcast IP address.

Correct Answer: D

QUESTION 3

A network engineer starts to implement a new wireless LAN by configuring the authentication server and creating the dynamic interface. What must be performed next to complete the basic configuration?



- A. Create the new WLAN and bind the dynamic interface to it.
- B. Configure high availability and redundancy for the access points.
- C. Enable Telnet and RADIUS access on the management interface.
- D. Install the management interface and add the management IP.

Correct Answer: A

After configuring the authentication server and creating the dynamic interface, the next step in configuring a new WLAN is to create the WLAN and bind the dynamic interface to it. This will allow the wireless clients to connect to the WLAN and authenticate using the configured authentication server. Configuring high availability and redundancy for the access points, enabling Telnet and RADIUS access on the management interface, and installing the management interface and adding the management IP are all important steps in configuring a wireless LAN, but they come after creating the WLAN and binding the dynamic interface to it.

QUESTION 4

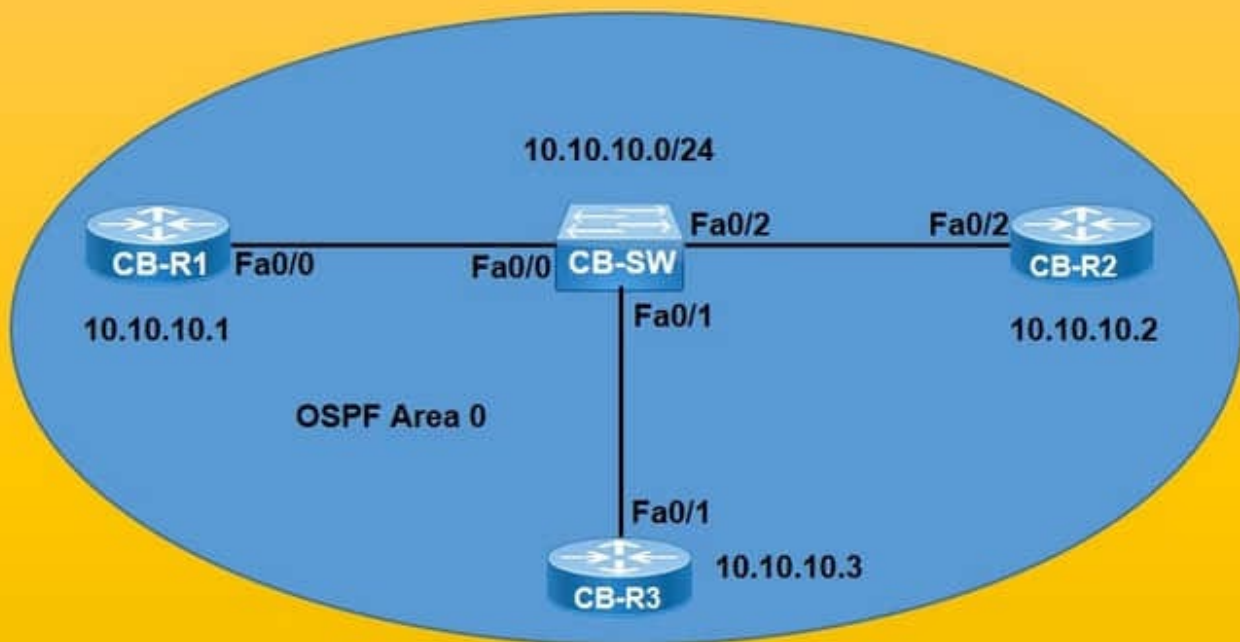
What is the default port-security behavior on a trunk link?

- A. It causes a network loop when a violation occurs.
- B. It disables the native VLAN configuration as soon as port security is enabled.
- C. It places the port in the err-disabled state if it learns more than one MAC address.
- D. It places the port in the err-disabled slate after 10 MAC addresses are statically configured.

Correct Answer: C

QUESTION 5

Refer to the exhibit.



CB-R1#show ip ospf neighbor

Neighbor ID	Pri	State	Dead Time	Address	Interface
10.10.10.2	1	FULL/BDR	00:00:37	10.10.10.2	FastEthernet0/0
10.10.10.3	1	FULL/DR	00:00:35	10.10.10.3	FastEthernet0/0

CB-R1 has taken the DROTHER role in the OSPF DR/BDR election process.

Which configuration must an engineer implement so that CB-R1 is elected as the DR?

- A. CB-R1(config)#interface FastEthernet 0/0 CB-R1(config-if)#ip ospf priority 1 CB-R1#clear ip ospf process
- B. CB-R1(config)#interface FastEthernet 0/0 CB-R1(config-if)#ip ospf priority 200 CB-R1#clear ip ospf process
- C. CB-R3(config)#interface FastEthernet 0/1 CB-R3(config-if)#ip ospf priority 200 CB-R3#clear ip ospf process
- D. CB-R2(config)#interface FastEthernet 0/2 CB-R2(config-if)#ip ospf priority 1 CB-R2#clear ip ospf process

Correct Answer: B