



640-878^{Q&As}

Building Cisco Service Provider Next-Generation Network

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QUESTION 1

Refer to the configuration snippet below. A network engineer has been tasked with implementing a security policy that prevents subnet 209.165.202.128/27 from accessing web server 209.165.200.224. All users are now unable to access the web server. What command is missing from the access list configuration?

```
Configuration: switch(config)#access-list 1 deny 209.165.202.128 0.0.0.31 209.165.200.224 switch(config)#interface FastEthernet 0/0 switch(config-if)# ip access-group 1 in
```

- A. switch(config-if)#ip access-group 1 out
- B. switch(config)#ip access-list 2 permit any any
- C. switch#ip access-list 2 permit any any
- D. switch(config)#ip access-list 1 permit any any

Correct Answer: D

QUESTION 2

You have installed a new router and configured OSPF on it. However, this new router is not able to establish an OSPF neighbor relationship with the neighbor OSPF router. Which four conditions could cause this problem? (Choose four.)

- A. mismatched OSPF hello/dead interval between the new router and the neighbor router
- B. mismatched OSPF area ID between the new router and the neighbor router
- C. mismatched OSPF authentication data between the new router and the neighbor router
- D. mismatched OSPF router ID between the new router and the neighbor router
- E. mismatched interface MTU between the new router and the neighbor router
- F. mismatched interface bandwidth between the new router and the neighbor router

Correct Answer: ABCE

QUESTION 3

Which two statements about NAT444 are true? (Choose two.)

- A. NAT444 packets are translated three times.
- B. NAT packets traverse three IPv4 addressing domains.
- C. NAT444 needs to work together with DNS64.
- D. There are two types of NAT444 (stateful or stateless).
- E. NAT is performed by the CPE and also by the service provider router.



Correct Answer: BE

Carrier-grade NAT (CGN), also known as large-scale NAT (LSN), is an approach to IPv4 network design in which end sites, in particular residential networks, are configured with private network addresses that are translated to public IPv4 addresses by middlebox network address translator devices embedded in the network operator's network, permitting the sharing of small pools of public addresses among many end sites. This shifts the NAT function and configuration thereof from the customer premises to the Internet service provider network. Carrier-grade NAT has been proposed as an approach for mitigating IPv4 address exhaustion.[1] Critics of carrier-grade NAT argue the following aspects: Like any form of NAT, it breaks the end-to-end principle.[2] It has significant security, scalability, and reliability problems, by virtue of being stateful. It makes record keeping for law-enforcement operations more difficult. It makes it impossible to host services on well known ports. It does not solve the IPv4 address exhaustion problem when a routable IP address is needed, such as in web hosting. One use scenario of CGN can be described as NAT444,[3] because some customer's connections to public servers would pass through three different IPv4 addressing domains: the customer's own private network, the carrier's private network, and the public Internet. Another CGN scenario is Dual-Stack Lite, in which the carrier's network uses IPv6 and thus only two IPv4 addressing domains are needed.

QUESTION 4

Refer to the exhibit.

```
Router# configure terminal
Router(config)# router bgp 100
Router(config-router)# network
209.165.200.224 mask 255.255.255.224
Router(config-router)# address-family ipv4
vrf vrf-cisco
Router(config-router-af)# neighbor
10.10.10.10 remote-as 10
Router(config-router-af)# neighbor
10.10.10.10 activate
Router(config-router-af)# end
Router# copy running-config startup-config
```

A network engineer configured BGP PE to CE neighbor sessions with the commands shown. What does the `address-family ipv4 vrf vrf-cisco` from the configuration allow?

- A. activates the advertisement of the IPv4 address family
- B. defines customer's routing context
- C. specifies a network and mask to announce in VRF-Cisco
- D. redistribute VRF-Cisco

Correct Answer: B



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QUESTION 5

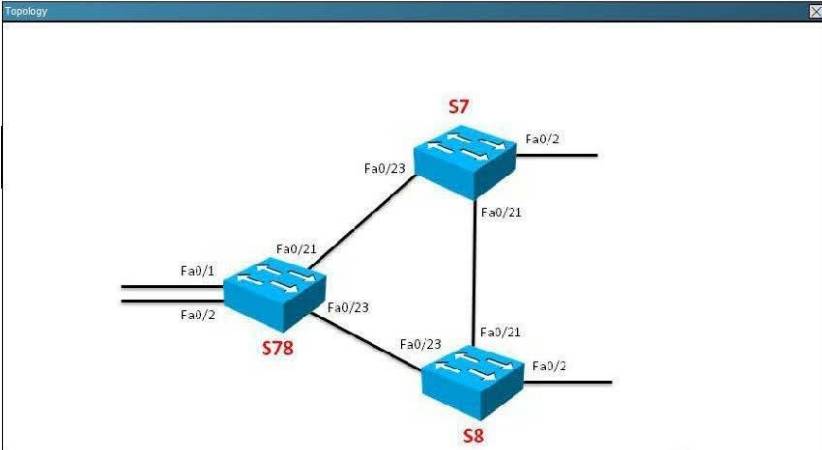


Instructions

- Enter the proper IOS CLI show commands and analyze the show outputs on the Cisco switches to answer the multiple-choice questions
- Not all show commands or show commands options are supported or required for this simulation.
- THIS TASK DOES NOT REQUIRE DEVICE CONFIGURATION.
- From the Topology, click on the switch icon to gain access to the console of the switch. No console or enable passwords are required.
- To access the multiple-choice questions, click on the numbered boxes on the left of the top pane.
- There are four multiple-choice questions with this task. Be sure to answer all four questions before selecting the Next button.

Scenario

Refer to the topology diagram. Use the appropriate show commands on the Cisco switches to answer the multiple-choice questions.



S7

```
S7#
```

S78

```
S78#
```

S8

```
S8#
```

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Hot Area:

Questions

1 What is the bridge priority and the MAC address of the root bridge for vlan1?

2 Priority 24577 and MAC Address e8ba.70b5.7180

3 Priority 24577 and MAC Address e8ba.70b5.6c00

4 Priority 24577 and MAC Address e8ba.70e1.d980

Priority 24578 and MAC Address e8ba.70b5.6c00

Priority 24578 and MAC Address e8ba.70b5.7180

Priority 24578 and MAC Address e8ba.70e1.d980

Priority 32768 and MAC Address e8ba.70b5.7180

Priority 32768 and MAC address e8ba.70b5.6c00

Priority 32768 and MAC address e8ba.70e1.d980

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Priority 32768 and MAC Address e8ba.70b5.7180

Priority 32768 and MAC address e8ba.70b5.6c00

Priority 32768 and MAC address e8ba.70e1.d980

Correct Answer:



Questions

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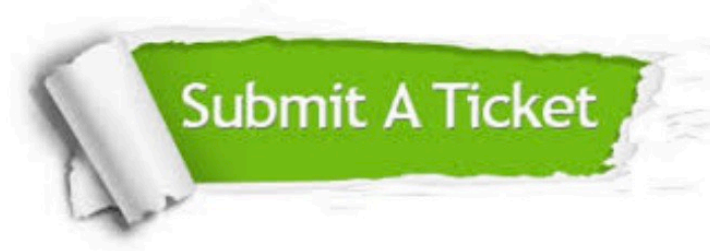
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