

350-501^{Q&As}

Implementing and Operating Cisco Service Provider Network Core Technologies (SPCOR)

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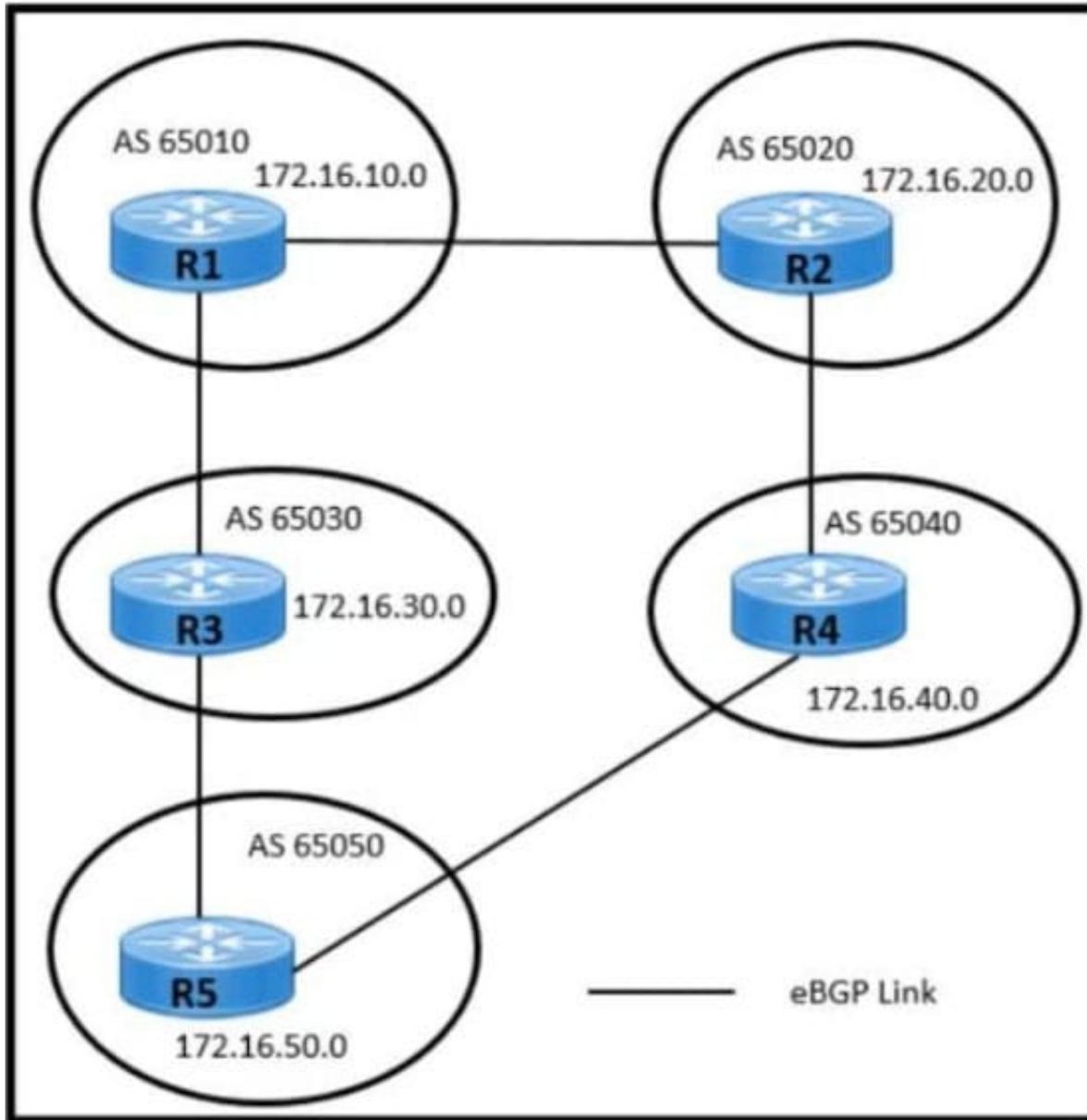
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QUESTION 1

Refer to the exhibit.



Users in AS 65010 are connected with the application server in AS 65050 with these requirements:

1. AS 65010 users are experiencing latency and congestion to connect with application server 172.16.50.10.
2. AS 65030 must be restricted to become Transient Autonomous System for traffic flow.
- 3.

Links connected to AS 65020 and AS 65040 are underutilized and must be used efficiently for traffic. Which two configurations must be implemented to meet these requirements? (Choose two.)

- A. Apply the AS-Path route-map policy for traffic received from R3.
- B. Configure the route map to prepend the AS-Path attribute for R5-R3 BGP peering.
- C. Apply the MED route-map policy for traffic received from R4.
- D. Configure a higher Local preference for R5-R4 BGP peering.
- E. Configure the route map to set the MED 50 attribute for R5-R4 BGP peering.

Correct Answer: BE

QUESTION 2

An engineer must apply an 802.1ad-compliant configuration to a new switchport with these requirements:

1.

The switchport must tag all frame when it enters the port

2.

The switchport is expected to provide the same level of service to traffic from any customer VLAN

Which configuration must the engineer use?

- A. `interface GigabitEthernet1/0/1switchport mode trunkswitchport trunk encapsulation dot1qencapsulation ISLbridge-domain 12`
- B. `interface GigabitEthernet1/0/1ethernet dot1ad uni c-portservice instance 12 encapsulation dot1qrewrite ingress tag push dot1ad 21 symmetricbridge-domain 12`
- C. `interface GigabitEthernet1/0/1ethernet dot1ad uni s-portservice instance 12 encapsulation defaultrewrite ingress tag push dot1ad 21 symmetricbridge-domain 12`
- D. `interface GigabitEthernet1/0/1ethernet dot1ad nni service instance 12 encapsulation dot1adbridge-domain 12`

Correct Answer: C

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/cether/configuration/xe-3s/asr903/16-12-1/b-ce-xe-16-12-asr900/m_ce_802_1ad_900.html

QUESTION 3

An engineer needs to implement QOS mechanism on customer's network as some applications going over the internet are slower than others. Which two actions must the engineer perform when implementing traffic shaping on the network in order to accomplish this task? (Choose two)

- A. Configure a queue with sufficient memory to buffer excess packets.
- B. Configure the token values in bytes.
- C. Implement packet remarking for excess traffic.
- D. Implement a scheduling function to handle delayed packets.
- E. Configure a threshold over which excess packets are discarded.

Correct Answer: AD

QUESTION 4

In a service provider network, a NOC engineer identifies an interface that flaps continuously. This interface connects to an EBGP peer. Which feature can reduce this instability on the service provider network?

- A. Non-Stop Forwarding
- B. BGP PIC
- C. IGP Prefix Prioritization
- D. IP Event Dampening

Correct Answer: D

QUESTION 5

Which BGP attribute is used first when determining the best path?

- A. origin
- B. AS path
- C. local preference
- D. weight

Correct Answer: D

QUESTION 6

A network engineer is implementing NetFlow to observe traffic patterns on the network. The engineer is planning to review the patterns to help plan future strategies for monitoring and preventing congestion as the network grows. If the captures must include BGP next-hop flows, which configuration must the engineer apply to the router?

- A. `ip cefip flow-export version 5 bgp-nexthopip flow-export destination 192.168.1.1 9995`
`interface gigabitethernet 1/0/1`
`ip flow egress`

B. ip cefip flow-export version 9 bgp-nexthopip flow-export destination 192.168.1.1 9996interface gigabitethernet 1/0/1

ip flow ingress

C. ip cefip flow-export version 5ip flow-export destination 192.168.1.1 9995interface gigabitethernet 1/0/1

ip flow ingress

cdp enable

D. no ip cefip flow-export version 9ip flow-export destination 192.168.1.1 9996interface gigabitethernet 1/0/1

ip flow ingress

ip flow egress

Correct Answer: B

QUESTION 7

A network engineer must enable the helper router to terminate the OSPF graceful restart process if it detects any changes in the LSA.

Which command enables this feature?

A. nsf ietf helper disable

B. nsf cisco helper disable

C. nsf ietf helper strict-lsa-checking

D. nsf cisco enforce global

Correct Answer: C

Reference: https://www.cisco.com/c/en/us/td/docs/ios/12_4t/ip_route/configuration/guide/tgrhelp.html

QUESTION 8

Refer to the exhibit.

```
R1# configure terminalR1(config)# router isis area2R1(config-router)# metric-style wide level-1
```

An engineer is configuring multi-topology IS-IS for IPv6 on router R1. Which additional configuration must be applied to complete the task?

A. R1# configure terminal R1(config)# router isis area2 R1(config-router)# address-family ipv6 R1(config-router-af)# multi-topology

B. R1# configure terminal R1(config)# router isis area1 R1(config-router)# metric-style wide level-2 R1(config-router)# address-family ipv6 R1(config-router-af)# multi-topology

C. R1# configure terminal R1(config)# router isis area2 R1(config-router)# metric-style wide R1(config-router)# address-family ipv6 R1(config-router-af)# multi topology

D. R1# configure terminal

R1(config)# router isis area1

R1(config-router)# metric-style wide level-1

R1(config-router)# address-family ipv6

R1(config-router-af)# multi topology

Correct Answer: A

Reference: https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_isis/configuration/15-mt/irs-15-mt-book/ip6-route-multi-isis.html

QUESTION 9

Which feature will an operator use while implementing MPLS TE on customer's network, to prevent an LSP from using any overseas links?

A. bandwidth

B. affinity

C. explicit path

D. SLRG

Correct Answer: B

QUESTION 10

Refer to the exhibit.

```
route-policy ciscotest
  if destination in acl10 then
    pass
  else
    set local-preference 300
  endif
end-policy end
```

A network engineer is implementing a BGP routing policy. Which effect of this configuration is true?

A. All traffic that matches acl10 is allowed without any change to its local-preference.

-
- B. All traffic that matches acl10 is dropped without any change to its local-preference.
- C. If traffic matches acl10, it is allowed and its local-preference is set to 300.
- D. All traffic is assigned a local-preference of 300 regardless of its destination.

Correct Answer: A

QUESTION 11

Refer to the exhibit.

Router1: tacacs-server host 192.168.1.2 single-connection tacacs-server key ciscotest

What is the result of this configuration?

- A. Router 1 opens and closes a TCP connection to the TACACS+ server every time a user requires authorization.
- B. Router 1 and the TACACS+ server maintain one open connection between them only when network administrator is accessing the router with password ciscotest.
- C. Router 1 and the TACACS+ server maintain one open connection between them.
- D. Router 1 opens and closes a TCP connection to the TACACS+ server every time a user requires authentication.

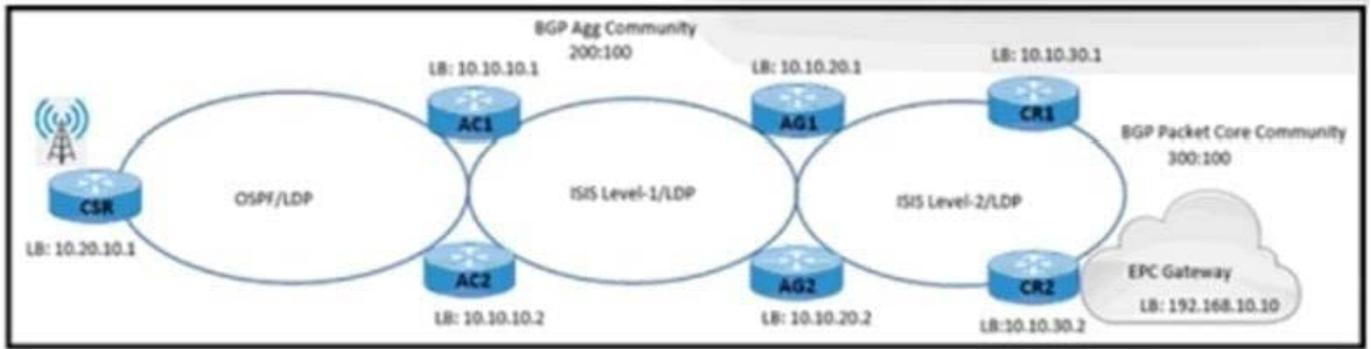
Correct Answer: C

<https://www.ccexpert.us/cisco-secure/configuring-tacacs-on-cisco-ios.html>

single-connection (Optional) Used to specify a single connection. Rather than have the router open and close a TCP connection to the daemon each time it must communicate, the single-connection option maintains a single open connection between the router and the daemon. This is more efficient because it allows the daemon to handle a higher number of TACACS operations.

QUESTION 12

Refer to the exhibit.



```
AG1# router bgp 500
ibgp policy out enforce-modifications
bgp router-id 10.10.20.1
address-family ipv4 unicast
session-group Transport
remote-as 500
cluster-id 2001
update-source Loopback0
!
neighbor-group AGG
use session-group infra
address-family ipv4 labeled-unicast
route-reflector-client
!
route-policy BGP_Egress_Filter out
next-hop-self

neighbor-group Packet-Core
use session-group infra
address-family ipv4 labeled-unicast
route-reflector-client
next-hop-self
!
neighbor-group Core
use session-group infra
address-family ipv4 labeled-unicast
next-hop-self

community-set Allowed-Comm
300:100,
200:100,
!
route-policy BGP_Egress_Filter
if community matches-any Allowed-Comm then
pass
```

A NOC engineer is configuring label-based forwarding from CSR to the EPC gateway. Cell-site operation and maintenance for IPv4 traffic between 10.20.10.1 and 192.168.10.10 is already up. CR1 and CR2 are configured as route reflectors

for AG1 and AG2.

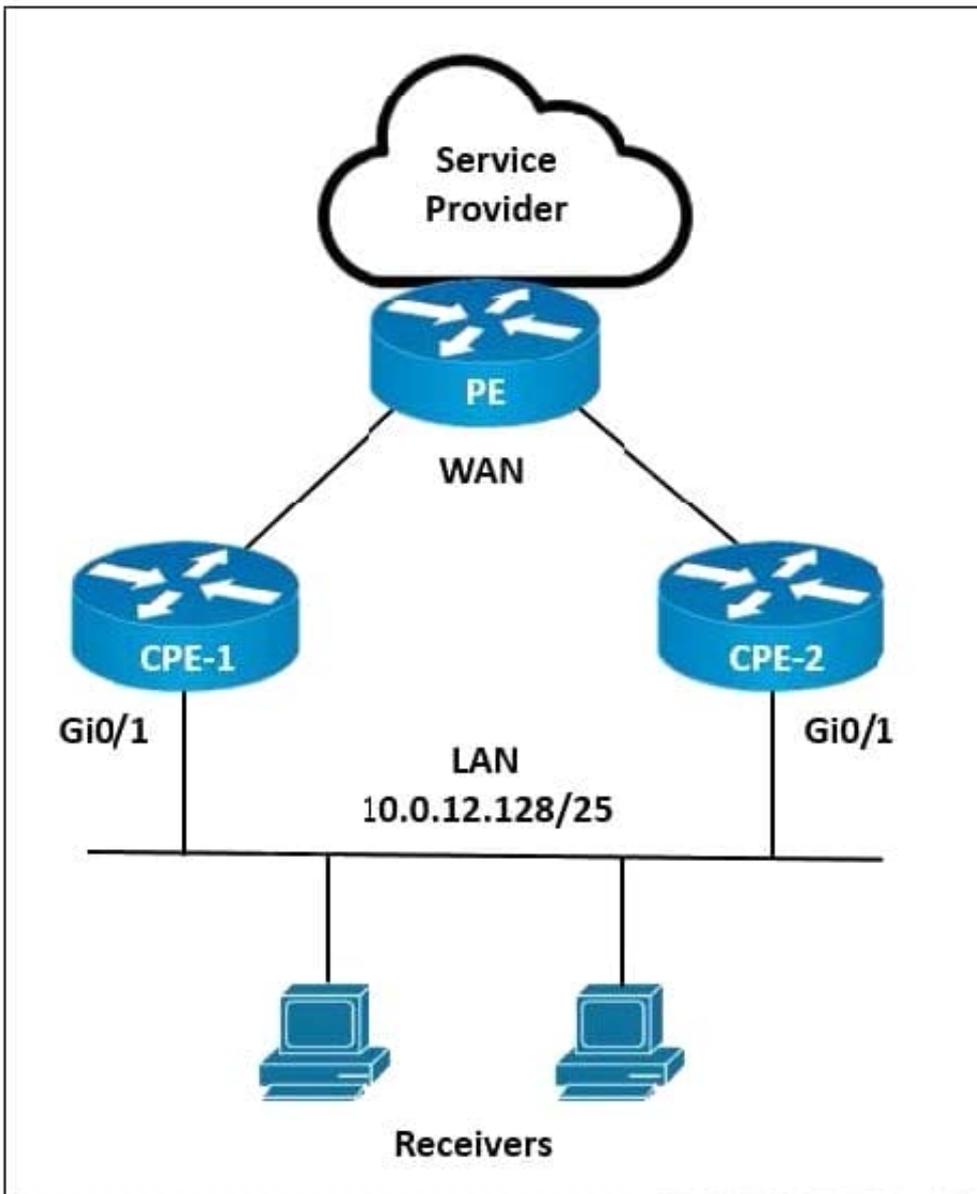
Which action completes the configuration?

- A. Remove address-family labeled-unicast from the BGP session-group infra on AG1 for neighbor-group core.
- B. Apply the BGP_Egress_Filter route policy to the BGP neighbor-group packet core on AG1.
- C. Configure AG1 to allocate a label to the BGP routes that are received in the BGP session group transport.
- D. Configure AG1 to allow the 300:100 and 200:100 communities in the BGP_Egress_Filter route policy.

Correct Answer: B

QUESTION 13

Refer to the exhibit.



A network engineer is implementing multicast services on CPE-1 and CPE-2. CPE-1 must be configured as the preferred IGMP querier for the LAN segment. PIM-SM must be implemented on the LAN interfaces with an IGMP version that supports (*, G) joins only. Which configurations must the engineer implement on CPE-1 and CPE-2?

A. On CPE-1:

```
interface GigabitEthernet0/1
```

```
ip address 10.0.12.129 255.255.255.128
```

```
ip pim sparse-mode
```

```
ip igmp version 2
```

On CPE-2:

```
interface GigabitEthernet0/1
```

ip address 10.0.12.130 255.255.255.128

ip pim sparse-mode

ip igmp version 2

B. On CPE-1:

interface GigabitEthernet0/1

ip address 10.0.12.130 255.255.255.128

ip pim sparse-mode

ip igmp version 3

On CPE-2:

interface GigabitEthernet0/1

ip address 10.0.12.129 255.255.255. 128

ip pim sparse-mode

ip igmp version 3

C. On CPE-1:

interface GigabitEthernet0/1

ip address 10.0.12.130 255.255.255.128

ip pim sparse-mode

ip igmp version 2

On CPE-2:

interface GigabitEthernet0/1

ip address 10.0.12.129 255.255.255.128

ip pim sparse-mode

ip igmp version 2

D. On CPE-1:

interface GigabitEthernet0/1

ip address 10.0.12.129 255.255.255.128

ip pim sparse-mode

ip igmp version 3

On CPE-2:

interface GigabitEthernet0/1

ip address 10.0.12.130 255.255.255.128

ip pim sparse-mode

ip igmp version 3

Correct Answer: A

QUESTION 14

A company is expanding its existing office space to a new floor of the building, and the networking team is installing a new set of switches. The new switches are running IGMPv2, and the engineers configured them for VLAN10 only. The rest of the existing network includes numerous Layer 2 switches in multiple other VLANs, all running IGMPv3. Which additional task must the team perform when deploying the new switches so that traffic is switched correctly through the entire network?

- A. Configure the new switches to use IGMPv3 on all VLANs on the network.
- B. Configure all switches on the network to support IGMPv2 and IGMPv3 on all VLANs on the network.
- C. Configure the new switches to use IGMPv3 on VLAN10 only.
- D. Configure all switches on the network to support IGMPv2 and IGMPv3 on VLAN10 only.

Correct Answer: C

QUESTION 15

What is a characteristic of MVPN?

- A. It bypasses the use of MPLS in the service provider core and transmits packets using IP only.
- B. It uses pseudowires to route unicast and broadcast traffic over either a service provider MPLS or IP core.
- C. It allows VRF traffic to use the service provider MPLS VPN to route multicast traffic.
- D. It creates GRE tunnels to route multicast traffic over a service provider IP core.

Correct Answer: C