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Vendor:Cisco

Exam Code:350-501

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

Version:Demo

QUESTION 1

While implementing TTL security, an engineer issues the PE(config-router-af)#neighbor 2.2.2.2 ttl-security hops 2 command. After issuing this command, which BGP packets does the PE accept?

- A. from 2.2.2.2, with a TTL of less than 2
- B. to 2.2.2.2, with a TTL of less than 253
- C. from 2.2.2.2, with a TTL of 253 or more
- D. to 2.2.2.2, with a TTL of 2 or more

Correct Answer: C

QUESTION 2

Which protocol is used for communication between the PCE and PCC?

- A. POP
- B. CEF
- C. PCEP
- D. ICMP

Correct Answer: C

QUESTION 3

What is an enhancement that Cisco IOS XE Software has over Cisco IOS Software?

- A. It is built on a QNX Neutrino Microkernel
- B. It allows all processes to use the same pool of memory
- C. It runs on a 32-bit operating system
- D. It supports symmetric multiprocessing

Correct Answer: D

Reference: <https://layer3life.wordpress.com/2018/02/08/ios-xe-xr-nx-os/#:~:text=Thanks%20to%20the%20feature%20set,same%20as%20traditional%20Cisco%20IOS.>

QUESTION 4

What is the function of the FEC field within the OTN signal structure?

- A. It allows the sending devices to apply QoS within the OTN forwarding structure.
- B. It allows deep inspection of data payload fields.
- C. It allows receivers to correct errors upon data arrival
- D. It allows source nodes to discard payload errors before transmitting data on the network.

Correct Answer: C

QUESTION 5

A network engineer is deploying VPLS configuration between multiple PE routers so that customer's remote offices have end-to-end LAN connectivity. Which additional configuration should the engineer perform on the PE routers to enable the virtual switch instance?

- A. `I2 vfi ciscotest manual vpn id 100 neighbor 192.168.2.2 encapsulation mpls neighbor 192.168.3.3 encapsulation mpls`
- B. `interface GigEthernet 1/1 switchport mode trunk switchport trunk encap dot1q switchport trunk allow vlan 2-10`
- C. `interface Vlan 5 xconnect vfi ciscotest`
- D. `interface Vlan 100 xconnect vfi ciscotest ip address 192.168.1.1 255.255.255`

Correct Answer: A

Provisioning a Virtual Private LAN Services (VPLS) link involves provisioning the associated attachment circuit and a virtual forwarding instance (VFI) on a provider edge (PE) device. https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_l2_vpns/configuration/xe-3s/mp-l2-vpns-xe-3s-book/mp-vpls.html

QUESTION 6

Refer to the exhibit.

```
172.16.0.0/16
```

```
AS 321, med 420, external, rid 10.2.54.12 via 10.2.54.12
AS 51, med 500, external, rid 7.4.5.2 via 7.4.5.2
AS 321, med 300, internal, rid 10.2.34.5 via 10.2.34.5
```

Tier 2 ISP A on AS 653 is connected to two Tier 1 ISPs on AS 321 and AS 51 respectively. The network architect at ISP A is planning traffic flow inside the network to provide predictable network services. Cisco Express Forwarding is disabled on the edge router. How should the architect implement BGP to direct all traffic via the Tier 1 ISP with next-hop 7.4.5.2?

- A. Implement the BGP routing protocol and run the `bgp deterministic-med` command.
- B. Implement MP-BGP with a 4-byte AS number with the `bgp best path compare-routerid` command.
- C. Implement the BGP routing protocol and the `maximum-paths 2` configuration.
- D. Implement BGP route-reflector functionality with the `bgp always-compare-med` configuration.

Correct Answer: A

QUESTION 7

Which QoS model allows hosts to report their OoS needs to the network?

- A. DiffServ
- B. CB-WFQ
- C. IntServ
- D. MQC

Correct Answer: B

To facilitate true end-to-end QoS on an IP-network, the Internet Engineering Task Force (IETF) has defined two models: Integrated Services (IntServ) and Differentiated Services (DiffServ). IntServ follows the signaled-QoS model, where the end-hosts signal their QoS needs to the network, while DiffServ works on the provisioned-QoS model, where network elements are set up to service

QUESTION 8

Refer to the exhibit.

```
RP/0/RP0/CPU0:router(config)# router bgp 65534
RP/0/RP0/CPU0:router(config-bgp)# neighbor 192.168.223.7
RP/0/RP0/CPU0:router(config-bgp-nbr)# remote-as 65507
RP/0/RP0/CPU0:router(config-bgp-nbr)#
```

An engineer is securing a customer's network. Which command must the engineer use to complete this configuration to prevent a DoS attack?

- A. `neighbor ttl-security`
- B. `ebgp-multihop`
- C. `neighbor ebgp-multihop`

D. ttl-security

Correct Answer: D

QUESTION 9

Refer to the exhibit.

A network engineer is implementing a standard customer route-policy on ASBR1 with these requirements:

1.

It must accept only customer-assigned prefixes

2.

It must preserve customer advertised BGP communities

3.

It must set the local-preference to 110 for all prefixes

4.

It must attach the ORIGIN-PE and LOCAL-CITY communities to all accepted prefixes.

Which route policy must the engineer implement on ASBR1 to satisfy the requirements?

- A. `route-policy BGP-CUSTOMER-IN($CUSTOMER_PREFIX)
if destination in $CUSTOMER_PREFIX then
done
else
drop
endif
set local-preference 110
set community ORIGINATION-PE additive
set community LOCAL-CITY additive
end-policy`
- B. `route-policy BGP-CUSTOMER-IN($CUSTOMER_PREFIX)
if destination in $CUSTOMER_PREFIX then
pass
else
drop
endif
set local-preference 110
set community ORIGINATION-PE
set community LOCAL-CITY additive
end-policy`
- C. `route-policy BGP-CUSTOMER-IN($CUSTOMER_PREFIX)
if destination in $CUSTOMER_PREFIX then
done
else
drop
endif
set local-preference 110
set community ORIGINATION-PE
set community LOCAL-CITY additive
end-policy`
- D. `route-policy BGP-CUSTOMER-IN($CUSTOMER_PREFIX)
if destination in $CUSTOMER_PREFIX then
pass
else
drop
endif
set local-preference 110
set community ORIGINATION-PE additive
set community LOCAL-CITY additive
end-policy`

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: D

QUESTION 10

Refer to the exhibit.

```
interface GigabitEthernet 1/0/1
  ip address 192.168.1.1 255.255.255.0
  ip router isis
  isis tag 15

route-map match-tag permit 10
  match tag 15
```

A large organization is merging the network assets of a recently acquired competitor with one of its own satellite offices in the same geographic area. The newly acquired network is running a different routing protocol than the company's primary network. As part of the merger, a network engineer implemented this route map. Which task must the engineer perform to complete the implementation?

- A. Attach the route map to the redistribution command to manipulate the routes as they are shared.
- B. Enable metric-style wide to allow the use of extended metrics from the protocols.
- C. Configure an additional route map sequence to override the implicit deny at the end of the route map.
- D. Attach the route map to an IS-IS network statement to advertise the routes learned on this interface to IS-IS.

Correct Answer: A

QUESTION 11

You are creating new Cisco MPLS TE tunnels. Which type of RSVP message does the headend router send to reserve bandwidth on the path to the tailend router?

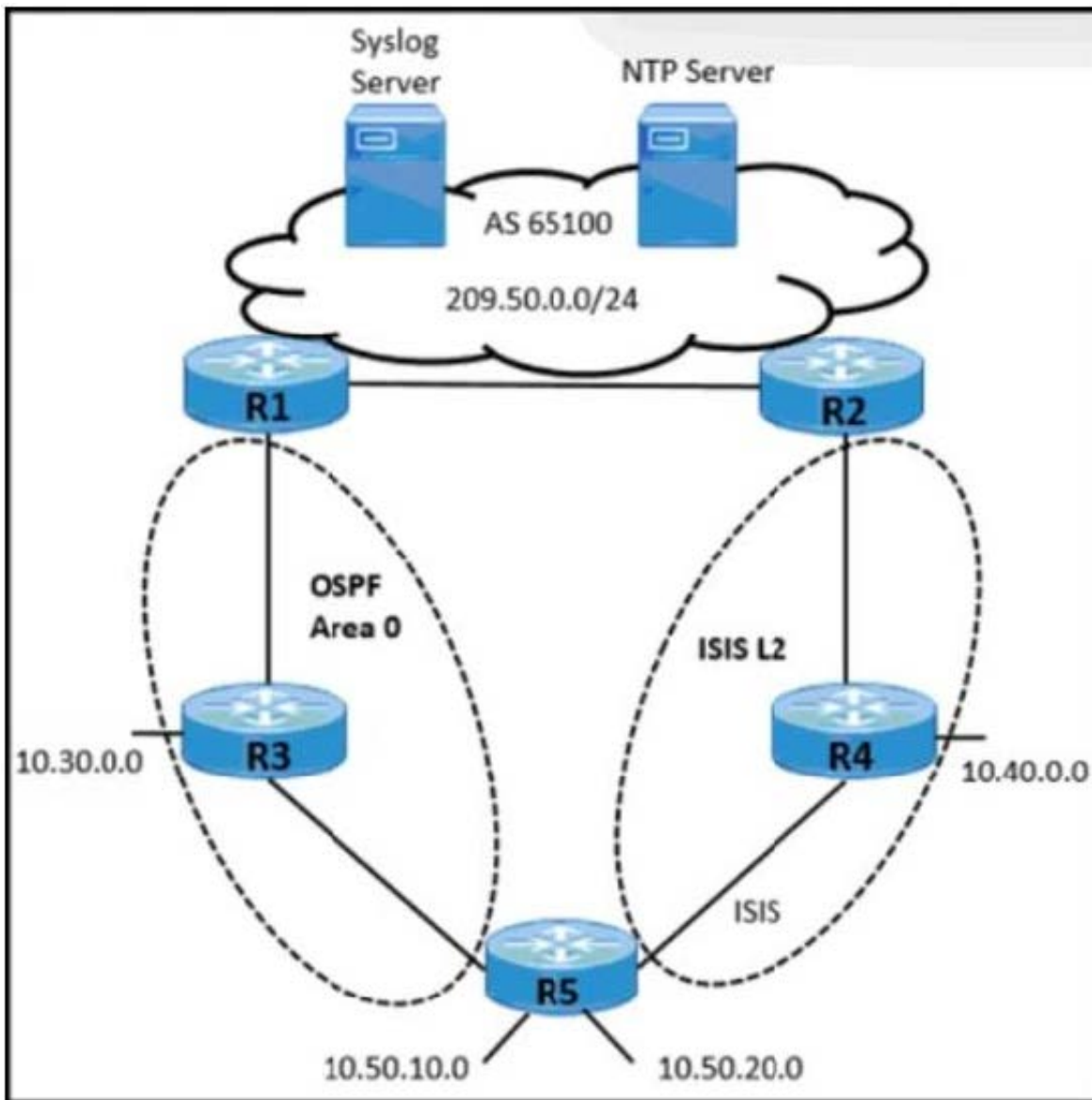
- A. path
- B. tear
- C. error
- D. reservation

Correct Answer: A

Reference: <https://packetpushers.net/rsvp-te-protocol-deep-dive/>

QUESTION 12

Refer to the exhibit.



A network operator working for a telecommunication company with an employee ID: 4350:47:853 must implement an IGP solution based on these requirements:

Subnet 10.50.10.0 traffic must exit through the R1 router to connect with the Syslog server. Subnet 10.50.20.0 traffic must exit through the R2 router to connect with the NTP server. In case of link failure between R2 and R4, traffic must be routed via R1 and R3.

Which two configurations must be implemented on R5 to meet these requirements? (Choose two.)

- A. Apply a route policy to redistribute 10.50.0.0 prefixes in OSPF to ISIS and ISIS to OSPF.
- B. Apply a route policy to redistribute 10.50.20.0 from ISIS-L2 to OSPF Area 0 at a higher cost.
- C. Enable a route policy to advertise 10.50.20.0 in ISIS-L2 at a higher cost.

D. Apply a route policy to redistribute 10.50.10.0 from OSPF Area 0 to ISIS-L2 at a lower cost.

E. Enable a route policy to advertise 10.50.10.0 In OSPF Area 0 at a low cost.

Correct Answer: B