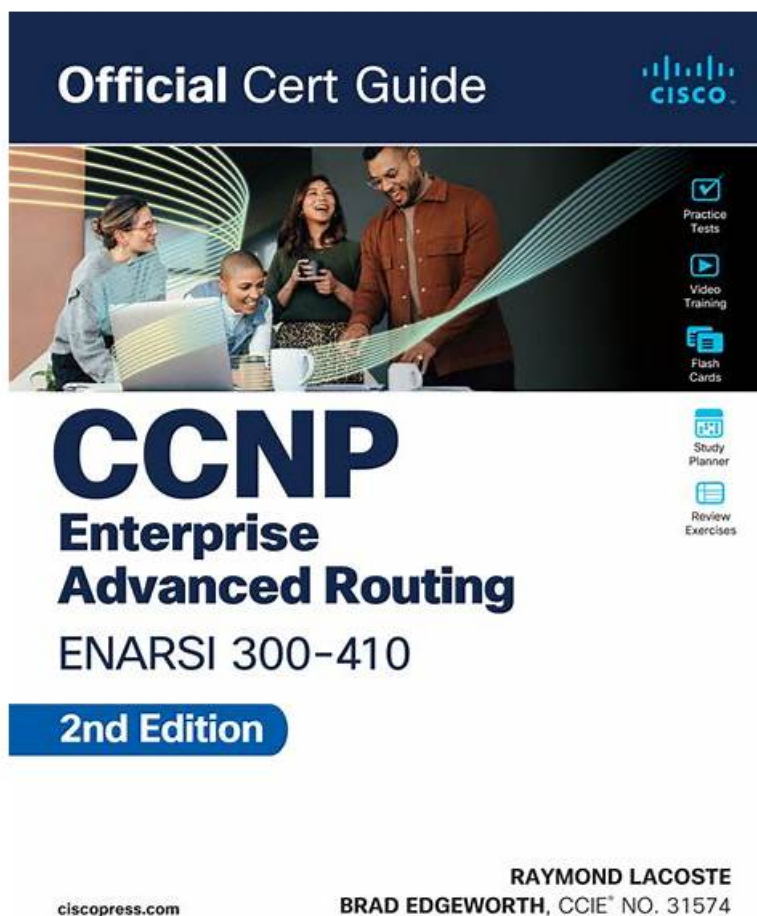


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Cisco Implementing Cisco Enterprise Advanced Routing and Services Sample Questions (Q105-Q110):

NEW QUESTION # 105

Drag and drop the actions from the left into the correct order on the right to configure a policy to avoid following packet forwarding based on the normal routing path.

Configure route map instances.	step 1
Configure set commands.	step 2
Configure fast switching for PBR.	step 3
Configure ACLs.	step 4
Configure match commands.	step 5
Configure PBR on the interface.	step 6

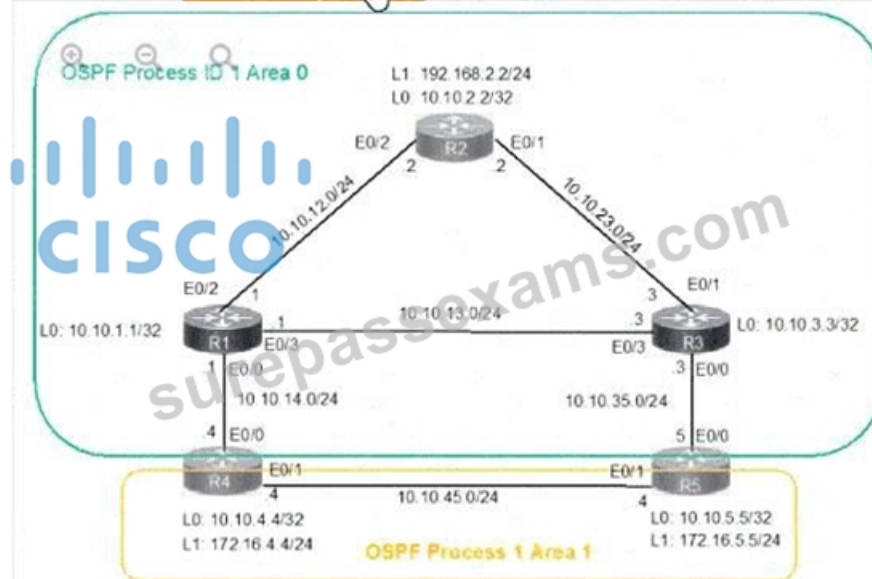
Answer:

Explanation:

Configure route map instances.	Configure ACLs.
Configure set commands.	Configure route map instances.
Configure fast switching for PBR.	Configure match commands.
Configure ACLs.	Configure set commands.
Configure match commands.	Configure PBR on the interface.
Configure PBR on the interface.	Configure fast switching for PBR.

NEW QUESTION # 106

A network is configured with IP connectivity, and the routing protocol between devices started having problems right after the maintenance window to implement network changes. Troubleshoot and resolve to a fully functional network to ensure that:



Topology Diagram

A network is configured with IP connectivity, and the routing protocol between devices started having problems right after the maintenance window to implement network changes. Troubleshoot and resolve to a fully functional network to ensure that:

1. Inter-area links have link authentication (not area authentication) using MD5 with the key 1 string CCNP.
2. R3 is a DR regardless of R2 status while R1 and R2 establish a DR/BDR relationship.
3. OSPF uses the default cost on all interfaces. Network reachability must follow OSPF default behavior for traffic within an area over intra-area VS inter-area links.
4. The OSPF external route generated on R4 adds link cost when traversing through the network to reach R2. A network command to advertise routes is not allowed.

R2 R4 R5

```
R2>en
R2#
R2#
R2#
R2#
R2#
R2#
R2#sh run
Building configuration...

Current configuration : 1279 bytes
!
version 15.8
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R2
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
!
!
!
clock timezone PST -8 0
mmi polling-interval 60
no mmi auto-configure
```

Activate Windows
Go to Settings to activate Windows.

R2 R4 R5

```
interface Loopback0
ip address 10.10.2.2 255.255.255.255
ip ospf 1 area 0
!
interface Loopback1
ip address 192.168.2.2 255.255.255.0
ip ospf 1 area 0
!
interface Ethernet0/0
no ip address
shutdown
duplex auto
!
interface Ethernet0/1
ip address 10.10.23.2 255.255.255.0
ip ospf 1 area 0
duplex auto
!
interface Ethernet0/2
ip address 10.10.12.2 255.255.255.0
ip ospf 1 area 0
duplex auto
!
interface Ethernet0/3
no ip address
shutdown
duplex auto
!
router ospf 1
passive-interface default
no passive-interface Ethernet0/1
no passive-interface Ethernet0/2
```

Activate Windows
Go to Settings to activate

R2 R4 R5

```
interface Ethernet0/3
no ip address
shutdown
duplex auto
!
router ospf 1
passive-interface default
no passive-interface Ethernet0/1
no passive-interface Ethernet0/2
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
!
ipv6 nd eui64
!
!
!
control-plane
!
!
!
!
!
!
!
line con 0
```

Activate
Go to Settings to activate

R4

R2 R4 R5

```

R4>
R4>
R4>
R4>
R4>en
R4#sh run
Building configuration...

Current configuration : 1479 bytes
!
version 15.8
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
hostname R4
!
boot-start-marker
boot-end-marker
!
!
no aaa new-model
!
!
clock timezone PST -8 0
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
--More--

```

R2 R4 R5

```

key chain CCNP
key 1
  key-string ccnp
  cryptographic-algorithm md5
!
!
!
!
!
!
!
!
!
!
ip address 172.16.4.4 255.255.255.0
!
interface Ethernet0/0
ip address 10.10.14.4 255.255.255.0
ip ospf authentication key-chain CCNP
ip ospf 1 area 0
duplex auto
!
interface Ethernet0/1
ip address 172.16.45.4 255.255.255.0
ip ospf 1 area 1
duplex auto
!
interface Ethernet0/2
no ip address
shutdown
duplex auto
!
interface Ethernet0/3
no ip address
shutdown
duplex auto

```




Activate Wi-Fi
Go to Settings

R5

R2

R4

R5

```
R5>
R5>
R5>en
R5#
R5#
R5#sh run
Building configuration...

Current configuration : 1496 bytes
!
version 15.8
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R5
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
!
!
!
clock timezone PST -8 0
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
--More--
```

R2

R4

R5



```
!
!
!
no ip domain lookup
ip cef
no ipv6 cef
!
multilink bundle-name authenticated
!
!
!
key chain CCNP
key 1
  key-string CCNP
  cryptographic-algorithm md5
!
!
```


R2 R4 R5

CISCO

```
!
!
!
interface Loopback0
 ip address 10.10.5.5 255.255.255.255
 ip ospf 1 area 1
!
interface Loopback1
 ip address 172.16.5.5 255.255.255.0
!
interface Ethernet0/0
 ip address 10.10.35.3 255.255.255.0
 ip ospf authentication key-chain CCNP
 ip ospf 1 area 0
 duplex auto
!
interface Ethernet0/1
 ip address 172.16.45.5 255.255.255.0
 ip ospf 1 area 1
 ip ospf cost 60
 duplex auto
!
interface Ethernet0/2
 no ip address
 shutdown
 duplex auto
!
interface Ethernet0/3
 no ip address
```



```
!
router ospf 1
 redistribute connected subnets route-map to-ospf
 passive-interface default
 no passive-interface Ethernet0/0
 no passive-interface Ethernet0/1
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
!
ipv6 ioam timestamp
!
route-map to-ospf permit 10
 match interface Loopback1
!
!
!
control-plane
!
!
!
!
!
!
!
!
!
line con 0
 logging synchronous
line aux 0
```

Answer:

Explanation:

See the solution below in Explanation.

Explanation:

R4

Int range et0/0 - 1

Ip ospf authentication message-digest

Ip ospf message-digest-key 1 md5 CCNP

Router ospf 1

Redistribute connected subnets route-map to-ospf metric-type 1

Copy run start

R5

Int range et0/0 - 1

Ip ospf authentication message-digest

Ip ospf message-digest-key 1 md5 CCNP

Interface eth 0/1

Ip ospf cost 10

Copy run start

VERIFICATION:-

Graphical user interface, text, application Description automatically generated

```

R2#show ip ospf neighbor
R2#show ip ospf neighbor

Neighbor ID      Pri   State           Dead Time   Address      Interface
10.10.1.1        1     FULL/BDR        00:00:38    10.10.12.1   Ethernet0/2
10.10.3.3        1     FULL/BDR        00:00:30    10.10.23.3   Ethernet0/1

```

NEW QUESTION # 107

Drag and drop the MPLS VPN device types from the left onto the definitions on the right.

Customer (C) device	device in the core of the provider network that switches MPLS packets
CE device	device that attaches and detaches the VPN labels to the packets in the provider network
PE device	device in the enterprise network that connects to other customer devices
Provider (P) device	device at the edge of the enterprise network that connects to the SP network

Answer:

Explanation:

Customer (C) device	Customer (C) device
CE device	Provider (P) device
PE device	PE device
Provider (P) device	CE device

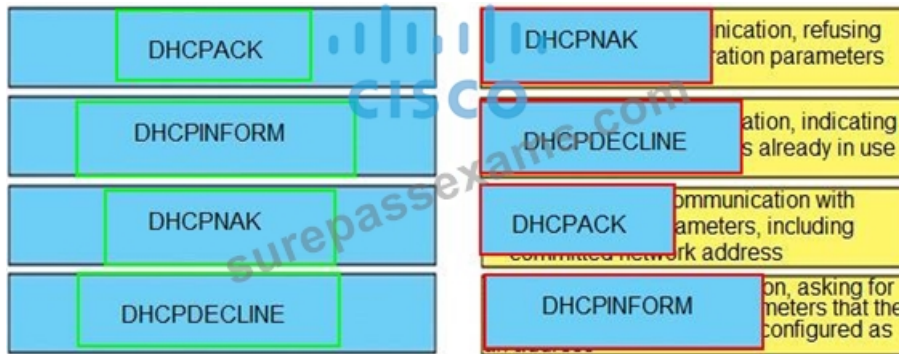
NEW QUESTION # 108

Drag and drop the DHCP messages from the left onto the correct uses on the right.

DHCPACK	server-to-client communication, refusing the request for configuration parameters
DHCPINFORM	client-to-server communication, indicating that the network address is already in use
DHCPNAK	server-to-client communication with configuration parameters, including committed network address
DHCPDECLINE	client-to-server communication, asking for only local configuration parameters that the client has already externally configured as an address

Answer:

Explanation:



Reference:

DHCPINFORM: If a client has obtained a network address through some other means or has a manually configured IP address, a client workstation may use a DHCPINFORM request message to obtain other local configuration parameters, such as the domain name and Domain Name Servers (DNSs). DHCP servers receiving a DHCPINFORM message construct a DHCPACK message with any local configuration parameters appropriate for the client without allocating a new IP address. This DHCPACK will be sent unicast to the client.

DHCPNAK: If the selected server is unable to satisfy the DHCPREQUEST message, the DHCP server will respond with a DHCPNAK message. When the client receives a DHCPNAK message, or does not receive a response to a DHCPREQUEST message, the client restarts the configuration process by going into the Requesting state. The client will retransmit the DHCPREQUEST at least four times within 60 seconds before restarting the Initializing state.

DHCPACK: After the DHCP server receives the DHCPREQUEST, it acknowledges the request with a DHCPACK message, thus completing the initialization process.

DHCPDECLINE: The client receives the DHCPACK and will optionally perform a final check on the parameters. The client performs this procedure by sending Address Resolution Protocol (ARP) requests for the IP address provided in the DHCPACK. If the client detects that the address is already in use by receiving a reply to the ARP request, the client will send a DHCPDECLINE message to the server and restart the configuration process by going into the Requesting state.

<https://www.cisco.com/c/en/us/support/docs/ip/dynamic-address-allocation-resolution/27470-100.html>

NEW QUESTION # 109

A company is expanding business by opening 35 branches over the Internet. A network engineer must configure DMVPN at the branch routers to connect with the hub router and allow NHRP to add spoke routers securely to the multicast NHRP mappings automatically.

Which configuration meets this requirement at the hub router?

- A.

```
interface Tunnel0
ip address 10.0.0.1 255.255.255.0
ip nhrp authentication KEY1
ip nhrp nhs dynamic
ip nhrp network-id 10
tunnel mode gre auto
```
- B.

```
interface Tunnel0
ip address 10.0.0.1 255.255.255.0
ip nhrp authentication KEY1
ip nhrp registration no-unique
ip nhrp network-id 10
tunnel mode gre nmba
```
- C.

```
interface Tunnel0
ip address 10.0.0.1 255.255.255.0
ip nhrp authentication KEY1
ip nhrp map multicast 224.0.0.0
ip nhrp network-id 10
tunnel mode gre ipv4
```
- D.

```
interface Tunnel0
ip address 10.0.0.1 255.255.255.0
ip nhrp authentication KEY1
ip nhrp map multicast dynamic
ip nhrp network-id 10
tunnel mode gre multipoint
```

Answer: D

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