



300-410^{Q&As}

Implementing Cisco Enterprise Advanced Routing and Services
(ENARSI)

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QUESTION 1

DRAG DROP

Drag and drop the MPLS terms from the left onto the correct definitions on the right.

Select and Place:

PE	device that forwards traffic based on labels
P	path that the labeled packet takes
CE	device that is unaware of MPLS labeling
LSP	device that removes and adds the MPLS labeling

Correct Answer:

	P
	LSP
	CE
	PE

QUESTION 2

Refer to the exhibit. Which option describes why the EIGRP neighbors of this router are not learning routes that are received from OSPF?



```
router eigrp 1
 redistribute ospf 100
 network 10.10.10.0 0.0.0.255
 auto-summary
 !
router ospf 100
 network 172.16.0.0 0.0.255.255 area 100
 redistribute eigrp 1
```

- A. The subnet defined in OSPF is not part of area 0.
- B. Default metrics are not configured under EIGRP.
- C. There is no overlap in the subnets advertised.
- D. The routing protocols do not have the same AS number.

Correct Answer: B

QUESTION 3

Exhibit:



```
policy-map COPP-7600
class COPP-CRITICAL-7600
  police cir 2000000 bc 62500
  conform-action transmit
  exceed-action transmit
!
class class-default
  police cir 200000 bc 6250
  conform-action transmit
  exceed-action drop
!
class-map match-all COPP-CRITICAL-7600
  match access-group name COPP-CRITICAL-7600
!
ip access-list extended COPP-CRITICAL-7600
  permit ip any any eq http
  permit ip any any eq https
```

BGP is flapping after the Copp policy is applied. What are the two solutions to fix the issue? (Choose two)

- A. Configure a three-color policer instead of two-color policer under Class COPP-CRITICAL-7600
- B. Configure IP CEF for CoPP policy and BGP to work
- C. Configure a higher value for CIR under the default class to allow more packets during peak traffic
- D. Configure a higher value for CIR under the Class COPP-CRITICAL-7600
- E. Configure BGP in the COPP-CRITICAL-7600 ACL

Correct Answer: CE

The policy-map COPP-7600 only rate-limit HTTP and HTTPS traffic (based on the ACL conditions) so any BGP packets will be processed in the class "class-default", which drops exceeded BGP packets. Therefore we have two ways to solve this problem:

+

Add BGP to the ACL with the statement "permit tcp any any eq bgp"



+

Configure higher value for CIR in default class as 2Mbps is too low for web traffic (http and https)

QUESTION 4

After some changes in the routing policy, it is noticed that the router in AS 45123 is being used as a transit AS router for several service providers. Which configuration ensures that the branch router in AS 45123 advertises only the local networks to all SP neighbors?

A)

```
ip as-path access-list 1 permit ^45123
|
router bgp 45123
 neighbor SP-Neighbors filter-list 1 out
```

B)

```
ip as-path access-list 1 permit ^
|
router bgp 45123
 neighbor SP-Neighbors filter-list 1 out
```

C)

```
ip as-path access-list 1 permit ^45123$
|
router bgp 45123
 neighbor SP-Neighbors filter-list 1 out
```

D)

```
ip as-path access-list 1 permit ^$
|
router bgp 45123
 neighbor SP-Neighbors filter-list 1 out
```

A. Option A

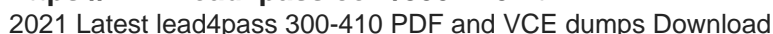
B. Option B

C. Option C

D. Option D

Correct Answer: D

By default BGP advertises all prefixes to external BGP neighbors. This means that if you are multi-homed (connected to two or more ISPs) then you might become a transit AS. For example, ISP 2 in AS 200 can send traffic to your router in



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- A. 10.2.2.0/24
- B. 10.1.4.0/26
- C. 10.1.2.0/24
- D. 10.2.3.0/26

Correct Answer: A

QUESTION 7

```
Router#sh ip route ospf
```

```
<output omitted>
```

```
Gateway is last resort is not set
```

```
10.0.0.0/24 is subnetted, 1 subnets
```

- o E2 10.0.0.0 [110/20] via 192.168.12.2, 00:00:10, Ethernet0/0
- o 192.168.3.0/24 [110/20] via 192.168.12.2, 00:00:50, Ethernet0/0

```
Router#
```

```
Router#show ip bgp
```

```
<output omitted>
```

	Network	Next Hop	Metric	LocPrf	Weight	Path
>*	192.168.1.1/32	0.0.0.0	0		32768	?
>*	192.168.3.0	192.168.12.2	20		32768	?
>*	192.168.12.0	0.0.0.0	0		32768	?

```
Router#show running-config | section router bgp
```

```
router bgp 65000
```

```
bgp log-neighbor-changes
```

```
redistribute ospf 1
```

```
Router#
```

Refer to the exhibit. An engineer is trying to redistribute OSPF to BGP, but not all of the routes are redistributed. What is the reason for this issue?

- A. By default, only internal routes and external type 1 routes are redistributed into BGP
- B. Only classful networks are redistributed from OSPF to BGP
- C. BGP convergence is slow, so the route will eventually be present in the BGP table
- D. By default, only internal OSPF routes are redistributed into BGP

Correct Answer: D



If you configure the redistribution of OSPF into BGP without keywords, only OSPF intra-area and inter-area routes are redistributed into BGP, by default.

You can redistribute both internal and external (type-1 and type-2) OSPF routes via this command:

```
Router(config-router)#redistribute ospf 1 match internal external 1 external 2
```

QUESTION 8

Which protocol does VRF-Lite support?

- A. S-IS
- B. ODR
- C. EIGRP
- D. IGRP

Correct Answer: C

QUESTION 9

Which IGPs are supported by the MPLS LDP autoconfiguration feature?

- A. RIPv2 and OSPF
- B. OSPF and EIGRP
- C. OSPF and ISIS
- D. ISIS and RIPv2

Correct Answer: C

QUESTION 10

DRAG DROP

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

Select and Place:



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

Correct Answer:

	DHCPNAK
	DHCPDECLINE
	DHCPACK
	DHCPINFORM

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.

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



QUESTION 11

Which command enables NAT-PT on an IPv6 interface?

- A. IPv6 nat-pt enable
- B. ipv6 nat
- C. ipv6 nat-pt
- D. ipv6 nat enable

Correct Answer: B

QUESTION 12

DRAG DROP

Drag and drop the BGP states from the left to the matching definitions on the right.

Select and Place:

OpenSent	refuses connections (the initial state)
OpenConfirm	waits for the connection to be completed
Established	listens for and accepts connections
Idle	waits for an OPEN message
Active	waits for a KEEPALIVE or NOTIFICATION message
Connect	UPDATE, NOTIFICATION, and KEEPALIVE messages are exchanged with peers.

Correct Answer:

**Label Switch Router**

1. Reads labels and forwards the packet based on the based on the label.
2. Performs PHP

Label Edge Router:

- 1 Assigns labels and unlabeled packets.
2. Handle traffic between multiple VPNs

QUESTION 13

Refer to the exhibit. A network engineer executes the show ipv6 ospf database command and is presented with the output that is shown. Which flooding scope is referenced in the link-state type?



OSPFv3Router with ID (2.2.2.2) (Process ID 1)

Router Link States (Area 0)

ADV Router	Age	Seg#	Fragment ID	Link count	Bits
2.2.2.2	1694	0x80000002	0	1	B
4.4.1.4	1695	0x80000002	0	1	None

Inter Area Prefix Link States (Area 0)

ADV Router	Age	Seg#	Prefix
2.2.2.2	1692	0x30000001	2001:DB8 :0:123::/64

Link (Type 8) Link States (Area 0)

ADV Router	Age	Seg#	Link ID	InterFace
2.2.2.2	1696	0x80000002	6	Se1/0
4.4.1.4	1699	0x80000002	6	Se1/0

- A. link-local
- B. area
- C. As (OSPF domain)
- D. reserved

Correct Answer: B

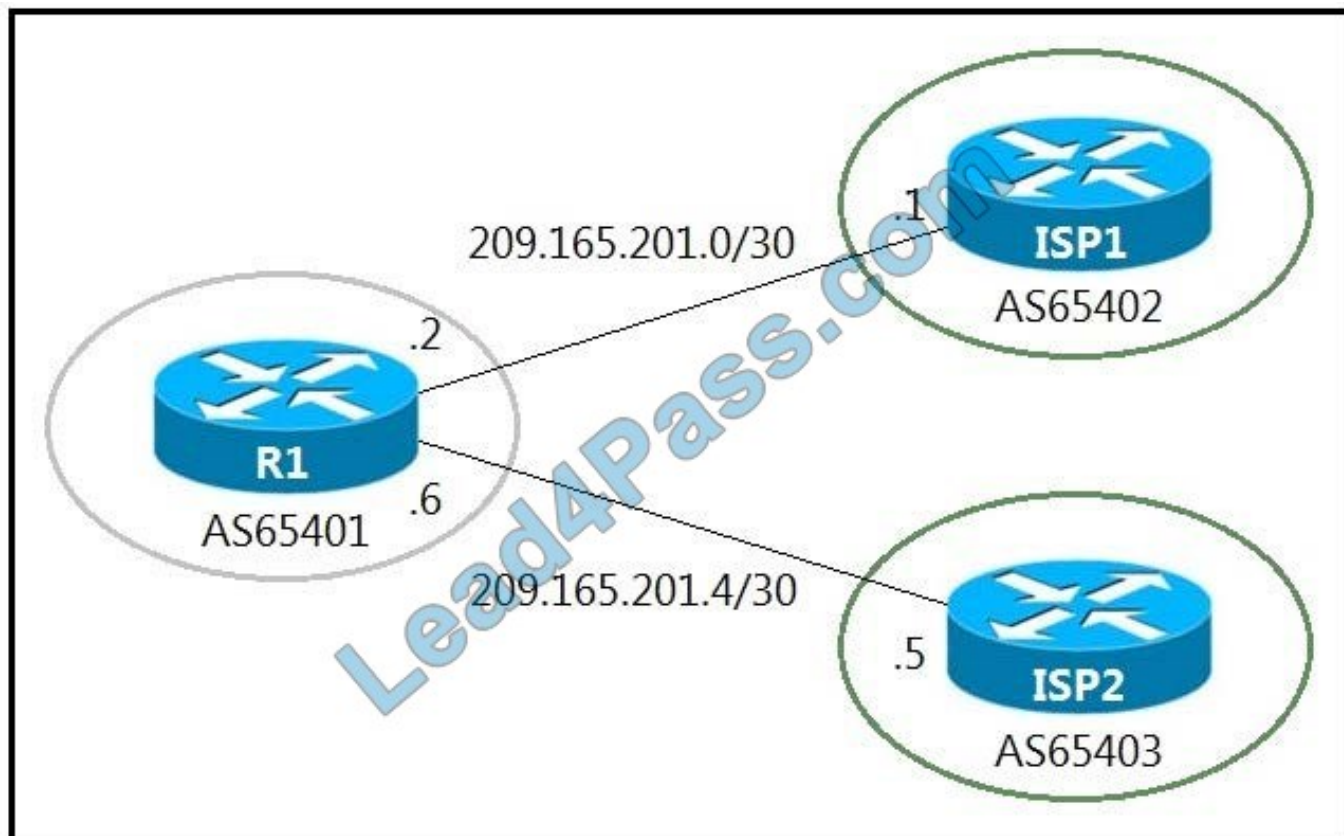
QUESTION 14

An engineer configured policy-based routing for a destination IP address that does not exist in the routing table. How is the packet treated through the policy for configuring the set ip default next-hop command?

- A. Packets are not forwarded to the specific next hop.
- B. Packets are forwarded based on the routing table.
- C. Packets are forwarded based on a static route.
- D. Packets are forwarded to the specific next hop.

Correct Answer: D

QUESTION 15



R1#

```
interface GigabitEthernet0/0
 ip address 209.165.201.2 255.255.255.252
!
interface GigabitEthernet0/1
 ip address 209.165.201.6 255.255.255.252
!
router bgp 65401
 bgp log-neighbor-changes
 redistribute static
 neighbor 209.165.201.1 remote-as 65402
 neighbor 209.165.201.5 remote-as 65403
!
ip route 209.165.200.224 255.255.255.224 Null0
ip route 209.165.202.128 255.255.255.224 Null0
!
```




Refer to the exhibits. A company with autonomous system number AS65401 has obtained IP address block 209.165.200.224/27 from ARIN. The company needed more IP addresses and was assigned block 209.165.202.128/27 from ISP2. An engineer in ISP1 reports that they are receiving ISP2 routes from AS65401.

Which configuration on R1 resolves the issue?

- ☐ A.

```
access-list 10 deny 209.165.202.128 0.0.0.31
access-list 10 permit any
!
router bgp 65401
 neighbor 209.165.201.1 distribute-list 10 out
```
- ☐ B.

```
access-list 10 deny 209.165.202.128 0.0.0.31
access-list 10 permit any
!
router bgp 65401
 neighbor 209.165.201.1 distribute-list 10 in
```
- ☐ C.

```
ip route 209.165.200.224 255.255.255.224 209.165.201.1
ip route 209.165.202.128 255.255.255.224 209.165.201.5
```
- ☐ D.

```
ip route 0.0.0.0 0.0.0.0 209.165.201.1
ip route 0.0.0.0 0.0.0.0 100 209.165.201.5
```

A. Option A

B. Option B

C. Option C

D. Option D

Correct Answer: A

<https://www.cisco.com/c/en/us/support/docs/ip/border-gateway-protocol-bgp/23675-27.html>



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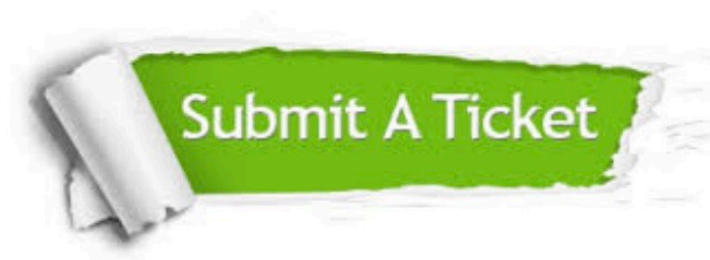
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