



# 300-410<sup>Q&As</sup>

Implementing Cisco Enterprise Advanced Routing and Services (ENARSI) (Include 2023 Newest Simulation Labs)

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**QUESTION 1**

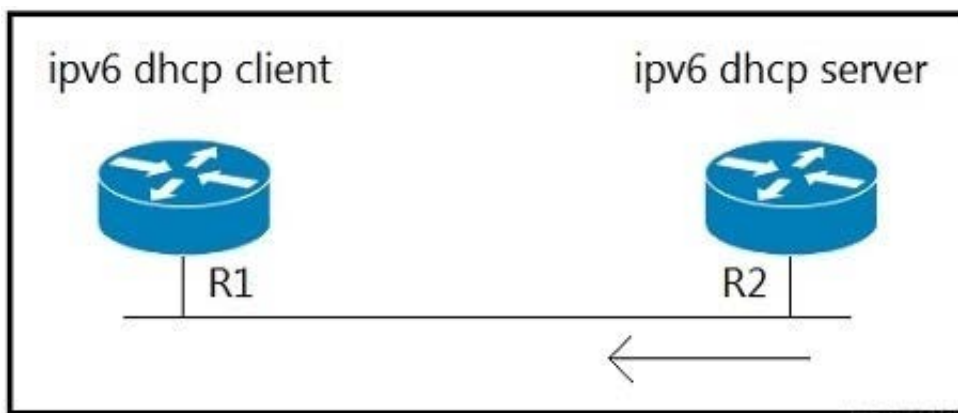
Refer to the exhibit. A network administrator is troubleshooting IPv6 address assignment for a DHCP client that is not getting an IPv6 address from the server.

ipv6 dhcp server:

```
ipv6 unicast-routing !
int e0/1
ipv6 enable
ipv6 add 2001:11::1/64
ipv6 nd other-config-flag no shut
ipv6 dhcp server IPv6Pool !
ipv6 dhcp pool IPv6Pool
dns-server 2002:555::1
domain-name my.net
```

ipv6 dhcp client:

```
interface Ethernet0/1
no ip address
ipv6 address dhcp
ipv6 enable
no shut
```



Which configuration retrieves the client IPv6 address from the DHCP server?

- A. ipv6 address autoconfig command on the interface
- B. ipv6 dhcp server automatic command on DHCP server
- C. ipv6 dhcp relay-agent command on the interface
- D. service dhcp command on DHCP server

Correct Answer: A

**QUESTION 2**

Consider the following output of the show ip bgp summary command:



```
RouterA# show ip bgp summary
BGP router identifier 10.1.1.1, local AS number 210
BGP table version is 45, main routing table version 45
7 network entries using 1715 bytes of memory
9 path entries using 3318 bytes of memory
15 BGP path attribute entries using 156 bytes of memory
1 multipath network entries and 4 multipath paths
1 BGP AS-PATH entries using 50 bytes of memory
3 BGP community entries using 150 bytes of memory
0 BGP route-map cache entries using 0 bytes of memory
0 BGP filter-list cache entries using 0 bytes of memory
3 received paths for inbound soft reconfiguration
BGP using 10249 total bytes of memory
Dampening enabled. 4 history paths, 0 dampened paths
BGP activity 7/570 prefixes, 10/1 paths, scan interval 15 secs

Neighbor V AS MsgRcvd MsgSent TblVer InQ OutQ Up/Down State/PfxRcd
10.1.1.1 4 950 78 80 45 0 0 01:53:41 OPENSENT
10.2.1.1 4 950 23 22 45 0 0 00:10:32 15
10.3.1.1 4 950 30 44 45 0 0 00:24:11 IDLE
10.4.1.1 4 950 12 56 45 0 0 00:56:06 ACTIVE
10.5.1.1 4 950 67 67 45 0 0 01:17:34 OPENCONFIRM
```

Which of the following neighbors have an established connection with RouterA?

- A. 10.1.1.1
- B. 10.2.1.1
- C. 10.3.1.1
- D. 10.4.1.1
- E. 10.5.1.1

Correct Answer: B

The neighbor with the IP address 10.2.1.1 has an established connection with RouterA. This is because the State/PfxRcd value for this neighbor is a number, 15, which indicates the number of prefixes received by RouterA from the neighbor.

The prefixes are exchanged between BGP neighbors through the update message, which can be transmitted only if an established connection exists between the neighbors. An established connection exists between two neighbors if the local

router is in Open Confirm state and it receives a KEEPALIVE or an UPDATE message.

The connection between RouterA and the neighbor with the IP address 10.1.1.1 is not established. This is because the State/PfxRcd value for this neighbor is OPENSENT. In this state, RouterA sends an OPEN message to a neighbor to

determine the parameters for establishing a connection. The OPENSENT state occurs before the connection is established.

The connection between RouterA and the neighbor with the IP address 10.3.1.1 is not established. This is because the State/PfxRcd value for this neighbor is IDLE. In this state, RouterA does not accept any incoming connections from the



neighbor.

The connection between RouterA and the neighbor with the IP address 10.4.1.1 is not established. This is because the State/PfxRcd value for this neighbor is ACTIVE. In this state, RouterA is attempting to establish a BGP peering session

but it is not yet complete.

The connection between RouterA and the neighbor with the IP address 10.5.1.1 is not established. This is because the State/PfxRcd value for this neighbor is OPENCONFIRM. In this state, RouterA waits for a KEEPALIVE or NOTIFICATION

message from the neighbor.

Objective:

Layer 3 Technologies

Sub-Objective:

Describe, configure, and verify BGP peer relationships and authentication

References:

Cisco IOS IP Routing: BGP Command Reference > show ip bgp summary

---

### QUESTION 3

While troubleshooting connectivity issues to a router, these details are noticed:

1.

Standard pings to all router interfaces, including loopbacks, are successful.

2.

Data traffic is unaffected.

3.

SNMP connectivity is intermittent.

4.

SSH is either slow or disconnects frequently.

Which command must be configured first to troubleshoot this issue?

A. show policy-map control-plane

B. show policy-map

C. show interface | inc drop

D. show ip route



Correct Answer: A

#### QUESTION 4

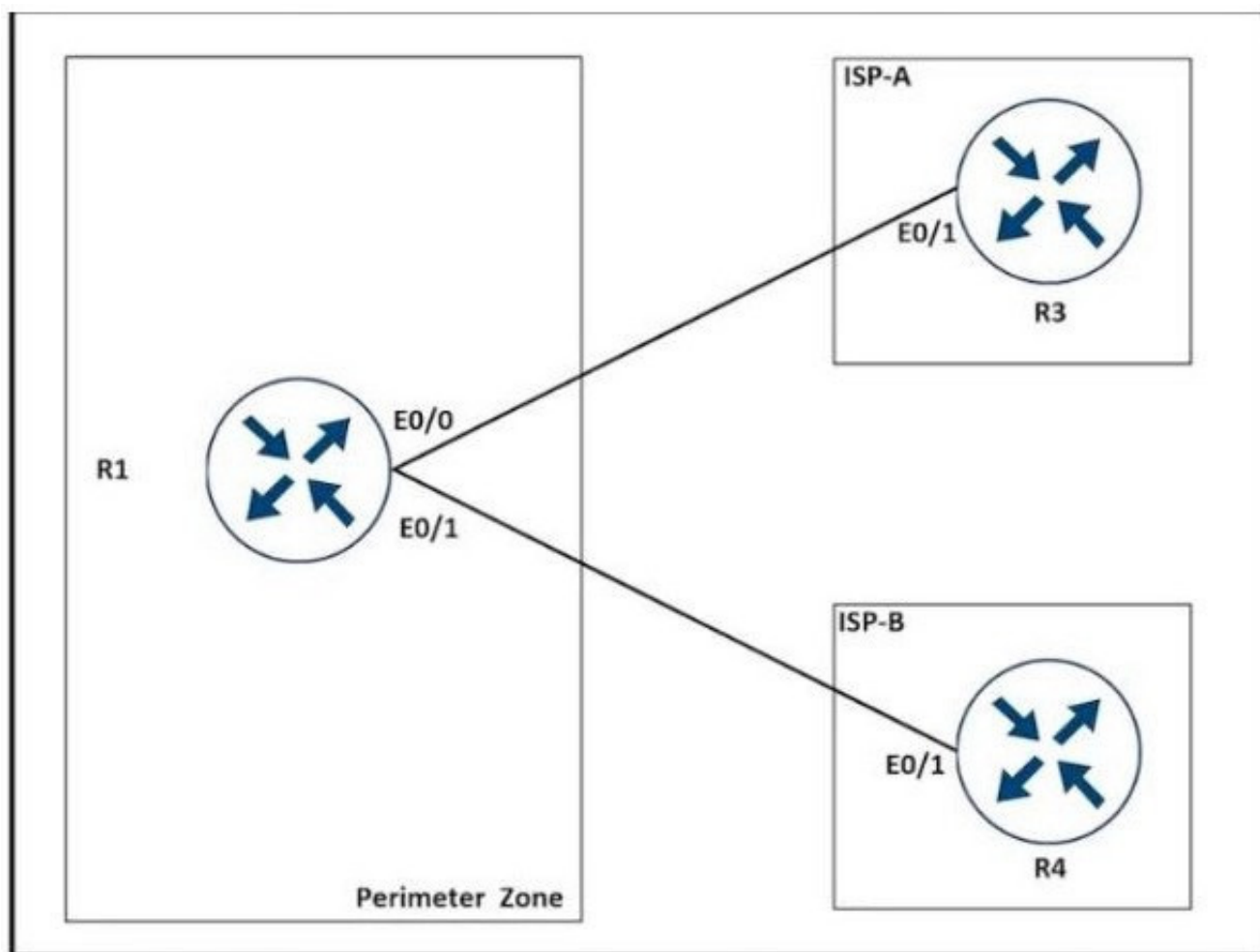
In an MPLS network, which of the following describes the role of the Provider (P) router?

- A. To connect to customer edge (CE) devices
- B. To connect to PE routers and act as transit routers
- C. To impose MPLS labels
- D. To filter VPN routes in the core

Correct Answer: B

#### QUESTION 5

Refer to the exhibit.





A network is under a cyberattack. A network engineer connected to R1 by SSH and enabled the terminal monitor via SSH session to find the source and destination of the attack. The session was flooded with messages, which made it impossible for the engineer to troubleshoot the issue. Which command resolves this issue on R1?

- A. #terminal no monitor
- B. (config)#terminal no monitor
- C. #no terminal monitor
- D. (config)#no terminal monitor

Correct Answer: A

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