



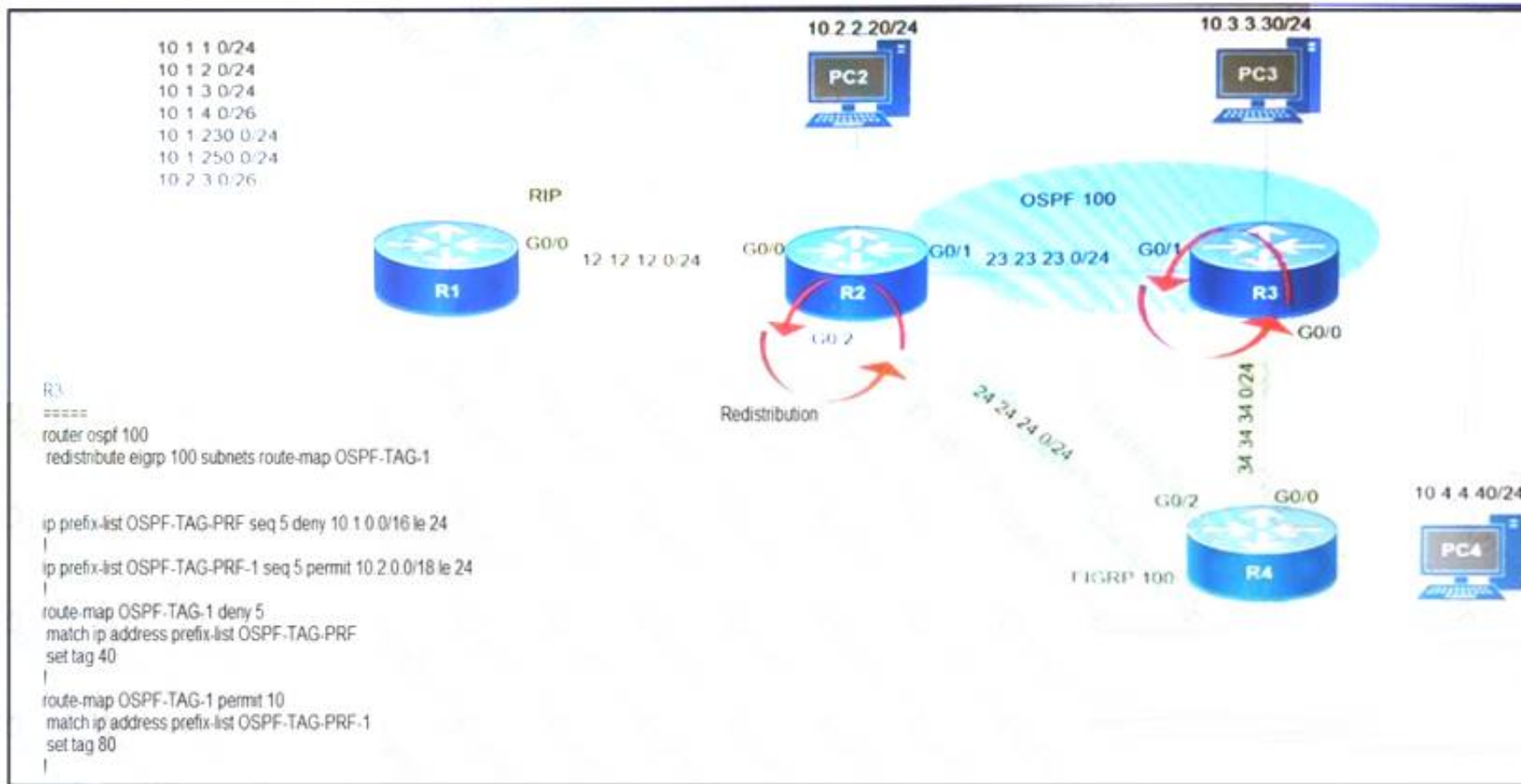
**Cisco**

## **Exam Questions 300-410**

Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)

### NEW QUESTION 1

Refer to the exhibit.



Which subnet is redistributed from EIGRP to OSPF routing protocols?

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

**Answer:** A

### NEW QUESTION 2

An engineer is trying to copy an IOS file from one router to another router by using TFTP. Which two actions are needed to allow the file to copy? (Choose two.)

- A. Copy the file to the destination router with the copy tftp: flash: command
- B. Enable the TFTP server on the source router with the tftp-server flash: <filename> command
- C. TFTP is not supported in recent IOS versions, so an alternative method must be used
- D. Configure a user on the source router with the username tftp password tftp command
- E. Configure the TFTP authentication on the source router with the tftp-server authentication local command

**Answer:** AB

### NEW QUESTION 3

Drag and drop the SNMP attributes in Cisco IOS devices from the left onto the correct SNMPv2c or SNMPV3 categories on the right.

community string

username and password

authentication

no encryption

privileged

read-only

SNMPv2c

SNMPv3

- A. Mastered  
B. Not Mastered

Answer: A

Explanation:

community string

username and password

authentication

no encryption

privileged

read-only

SNMPv2c

community string

no encryption

read-only

SNMPv3

username and password

authentication

privileged

NEW QUESTION 4  
Refer to the exhibit.

```

service timestamps debug datetime msec
service timestamps log datetime
clock timezone MST -7 0
clock summer-time MST recurring
ntp authentication-key 1 md5 00101A0B0152181206224747071E 7
ntp server 10.10.10.10

R1#show clock
*06:13:44.045 MST Sun Dec 30 2018

R1#conf t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config) #logging host 10.10.10.20
R1(config) #end
R1#
*Dec 30 13:15:28: %SYS-5-CONFIG_I: Configured from console by console
R1#
*Dec 30 13:15:28: %SYS-6-LOGGINGHOST_STARTSTOP: Logging to host 10.10.10.20 port 514
started - CLI initiated
    
```

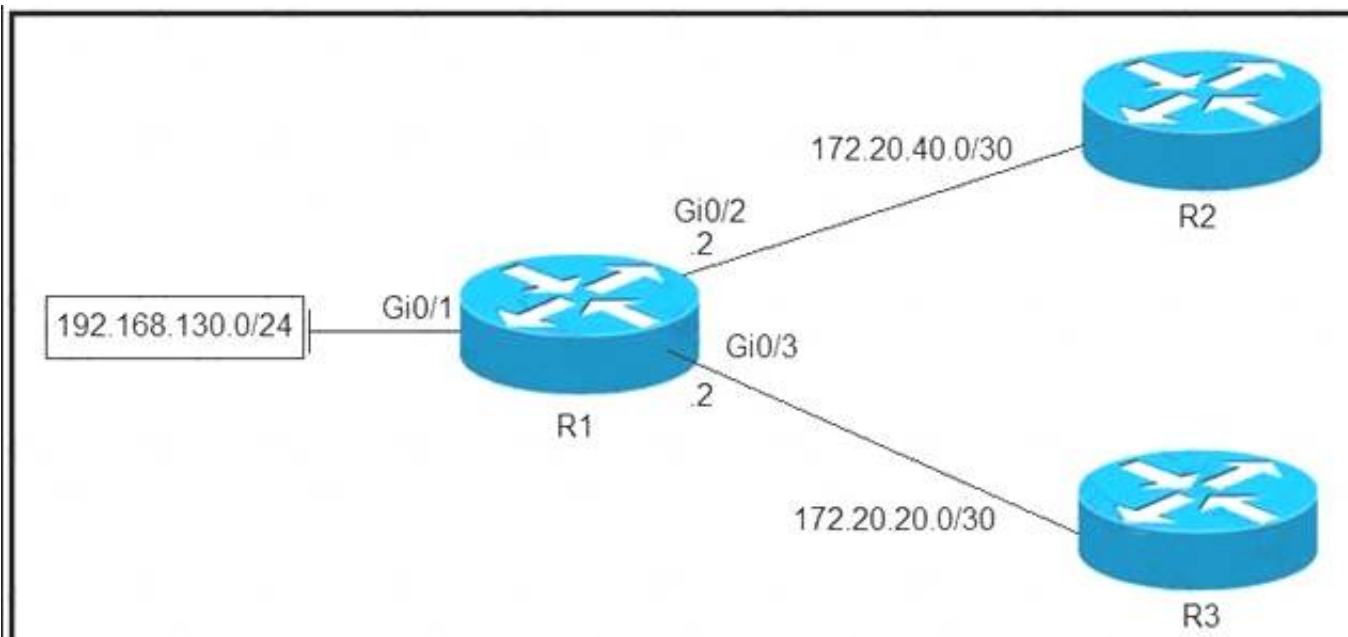
An administrator noticed that after a change was made on R1, the timestamps on the system logs did not match the clock. What is the reason for this error?

- A. An authentication error with the NTP server results in an incorrect timestamp.
- B. The keyword localtime is not defined on the timestamp service command.
- C. The NTP server is in a different time zone.
- D. The system clock is set incorrectly to summer-time hours.

**Answer:** D

#### NEW QUESTION 5

Refer to the exhibit.



Which configuration configures a policy on R1 to forward any traffic that is sourced from the 192.168.130.0/24 network to R2?



- A. `access-list 1 permit 192.168.130.0 0.0.0.255`  
!  
`interface Gi0/2`  
`ip policy route-map test`  
!  
`route-map test permit 10`  
`match ip address 1`  
`set ip next-hop 172.20.20.2`
- B. `access-list 1 permit 192.168.130.0 0.0.0.255`  
!  
`interface Gi0/1`  
`ip policy route-map test`  
!  
`route-map test permit 10`  
`match ip address 1`  
`set ip next-hop 172.20.40.2`
- C. `access-list 1 permit 192.168.130.0 0.0.0.255`  
!  
`interface Gi0/2`  
`ip policy route-map test`  
!  
`route-map test permit 10`  
`match ip address 1`  
`set ip next-hop 172.20.20.1`
- D. `access-list 1 permit 192.168.130.0 0.0.0.255`  
!  
`interface Gi0/1`  
`ip policy route-map test`  
!  
`route-map test permit 10`  
`match ip address 1`  
`set ip next-hop 172.20.40.1`

- A. Option A  
B. Option B  
C. Option C  
D. Option D

**Answer:** D

#### NEW QUESTION 6

Refer to the exhibit.

```
* Jun 28 14:41:57: %BGP-5-ADJCHANGE: neighbor 192.168.2.2 Down User reset
* Jun 28 14:41:57: %BGP_SESSION-5-ADJCHANGE: neighbor 192.168.2.2 IPv4 Unicast
topology base removed from session User reset
* Jun 28 14:41:57: %BGP-5-ADJCHANGE: neighbor 192.168.2.2 Up
R1#show clock
*15:42:00.506 CET Fri Jun 28 2019
```

An engineer is troubleshooting BGP on a device but discovers that the clock on the device does not correspond to the time stamp of the log entries. Which action ensures consistency between the two times?

- A. Configure the service timestamps log uptime command in global configuration mode.  
B. Configure the logging clock synchronize command in global configuration mode.  
C. Configure the service timestamps log datetime localtime command in global configuration mode.  
D. Make sure that the clock on the device is synchronized with an NTP server.

**Answer:** D

#### NEW QUESTION 7

Refer to the exhibit.

```
access-list 100 deny tcp any any eq 465
access-list 100 deny tcp any eq 465 any
access-list 100 permit tcp any any eq 80
access-list 100 permit tcp any eq 80 any
access-list 100 permit udp any any eq 443
access-list 100 permit udp any eq 443 any
```

During troubleshooting it was discovered that the device is not reachable using a secure web browser. What is needed to fix the problem?

- A. permit tcp port 443
- B. permit udp port 465
- C. permit tcp port 465
- D. permit tcp port 22

**Answer:** A

#### NEW QUESTION 8

When provisioning a device in Cisco DNA Center, the engineer sees the error message "Cannot select the device. Not compatible with template". What is the reason for the error?

- A. The template has an incorrect configuration.
- B. The software version of the template is different from the software version of the device.
- C. The changes to the template were not committed.
- D. The tag that was used to filter the templates does not match the device tag.

**Answer:** B

#### NEW QUESTION 9

Refer to the exhibit.

```
!
neighbor 10.222.1.1 route-map SET-WEIGHT in
neighbor 10.222.1.1 remote-as 1
!
ip as-path access-list 200 permit ^690$
ip as-path access-list 200 permit ^1800
!
route-map SET-WEIGHT permit 10
match as-path 200
set local-preference 250
set weight 200
```

A router receiving BGP routing updates from multiple neighbors for routers in AS 690. What is the reason that the router still sends traffic that is destined to AS 690 to a neighbor other than 10.222.1.1?

- A. The local preference value in another neighbor statement is higher than 250.
- B. The local preference value should be set to the same value as the weight in the route map.
- C. The route map is applied in the wrong direction.
- D. The weight value in another statement is higher than 200.

**Answer:** D

#### NEW QUESTION 10

An engineer configured the wrong default gateway for the Cisco DNA Center enterprise interface during the install. Which command must the engineer run to correct the configuration?

- A. sudo maglev-config update
- B. sudo maglev install config update
- C. sudo maglev reinstall
- D. sudo update config install

**Answer:** A

#### NEW QUESTION 10

Which attribute eliminates LFAs that belong to protected paths in situations where links in a network are connected through a common fiber?



- A. shared risk link group-disjoint
- B. linecard-disjoint
- C. lowest-repair-path-metric
- D. interface-disjoint

Answer: A

#### NEW QUESTION 14

Which statement about route distinguishers in an MPLS network is true?

- A. Route distinguishers allow multiple instances of a routing table to coexist within the edge router.
- B. Route distinguishers are used for label bindings.
- C. Route distinguishers make a unique VPNv4 address across the MPLS network.
- D. Route distinguishers define which prefixes are imported and exported on the edge router.

Answer: C

#### NEW QUESTION 19

Drag and drop the addresses from the left onto the correct IPv6 filter purposes on the right.

<pre>permit ip 2001:d8b:800:200c::/117 2001:0DBB:800:2010::/64 eq 443</pre>	Permit NTP from this source 2001:0D8B:0800:200c::1f
<pre>permit ip 2001:D88:800:200C::e/126 2001:0DBB:800:2010::/64 eq 514</pre>	Permit syslog from this source 2001:0D88:0800:200c::1c
<pre>permit ip 2001:d8b:800:200c::800 /117 2001:0DBB:800:2010::/64 eq 80</pre>	Permit HTTP from this source 2001:0D8B:0800:200c::0fff
<pre>permit ip 2001:D8B:800:200C::c/126 2001:0DBB:800:2010::/64 eq 123</pre>	Permit HTTPS from this source 2001:0D8B:0800:200c::07ff

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

<pre>permit ip 2001:d8b:800:200c::/117 2001:0DBB:800:2010::/64 eq 443</pre>	<pre>permit ip 2001:D8B:800:200C::c/126 2001:0DBB:800:2010::/64 eq 123</pre>
<pre>permit ip 2001:D88:800:200C::e/126 2001:0DBB:800:2010::/64 eq 514</pre>	<pre>permit ip 2001:D88:800:200C::e/126 2001:0DBB:800:2010::/64 eq 514</pre>
<pre>permit ip 2001:d8b:800:200c::800 /117 2001:0DBB:800:2010::/64 eq 80</pre>	<pre>permit ip 2001:d8b:800:200c::800 /117 2001:0DBB:800:2010::/64 eq 80</pre>
<pre>permit ip 2001:D8B:800:200C::c/126 2001:0DBB:800:2010::/64 eq 123</pre>	<pre>permit ip 2001:d8b:800:200c::/117 2001:0DBB:800:2010::/64 eq 443</pre>

#### NEW QUESTION 20

Refer to the exhibit.

```
R1#show running-config | include aaa
aaa new-model
aaa authentication login default group tacacs+ local
aaa authentication login Console local
R1#show running-config | section line
line con 0
 logging synchronous
R1#
```

An engineer is trying to configure local authentication on the console line, but the device is trying to authenticate using TACACS+. Which action produces the desired configuration?

- A. Add the aaa authentication login default none command to the global configuration.
- B. Replace the capital "C" with a lowercase "c" in the aaa authentication login Console local command.
- C. Add the aaa authentication login default group tacacs+ local-case command to the global configuration.
- D. Add the login authentication Console command to the line configuration

**Answer:** D

#### NEW QUESTION 21

Refer to the exhibit.

```
snmp-server community ciscotest1
snmp-server host 192.168.1.128 ciscotest
snmp-sever enable traps bgp
```

Network operations cannot read or write any configuration on the device with this configuration from the operations subnet. Which two configurations fix the issue? (Choose two.)

- A. Configure SNMP rw permission in addition to community ciscotest.
- B. Modify access list 1 and allow operations subnet in the access list.
- C. Modify access list 1 and allow SNMP in the access list.
- D. Configure SNMP rw permission in addition to version 1.
- E. Configure SNMP rw permission in addition to community ciscotest 1.

**Answer:** AB

#### NEW QUESTION 25

Drag and drop the packet types from the left onto the correct descriptions on the right.

data plane packets	user-generated packets that are always forwarded by network devices to other end-station devices
control plane packets	network device generated or received packets that are used for the creation of the network itself
management plane packets	network device generated or received packets; packets that are used to operate the network
services plane packets	user-generated packets that are forwarded by network devices to other end-station devices, but that require higher priority than the normal traffic by the network devices

- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

data plane packets	data plane packets
control plane packets	control plane packets
management plane packets	management plane packets
services plane packets	services plane packets

#### NEW QUESTION 27

Which method changes the forwarding decision that a router makes without first changing the routing table or influencing the IP data plane?

- A. nonbroadcast multiaccess
- B. packet switching
- C. policy-based routing
- D. forwarding information base

**Answer:** C



### NEW QUESTION 29

Refer to the exhibit.

```
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#
```

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

Answer: A

### NEW QUESTION 33

Refer to the exhibit.

```
Router#show ip route
<output omitted>
Gateway of last resort is not set

    192.168.1.0/32 is subnetted, 1 subnets
O       192.168.1.1 [110/11] via 192.168.12.1, 16:56:40, Ethernet0/0
    192.168.2.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.2.0/24 is directly connected, Loopback0
L       192.168.2.2/32 is directly connected, Loopback0
    192.168.3.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.3.0/24 is directly connected, Ethernet0/1
L       192.168.3.1/32 is directly connected, Ethernet0/1
    192.168.12.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.12.0/24 is directly connected, Ethernet0/0
L       192.168.12.2/32 is directly connected, Ethernet0/0
Router#show running-config | section ospf
router ospf 1
 summary-address 10.0.0.0 255.0.0.0
 redistribute static subnets
 network 192.168.3.0 0.0.0.255 area 0
 network 192.168.12.0 0.0.0.255 area 0
Router#
```

An engineer is trying to generate a summary route in OSPF for network 10.0.0.0/8, but the summary route does not show up in the routing table. Why is the summary route missing?

- A. The summary-address command is used only for summarizing prefixes between areas.
- B. The summary route is visible only in the OSPF database, not in the routing table.
- C. There is no route for a subnet inside 10.0.0.0/8, so the summary route is not generated.
- D. The summary route is not visible on this router, but it is visible on other OSPF routers in the same area.

Answer: A

#### NEW QUESTION 37

Refer to the exhibit.

```
Router#show running-config | include ip route
ip route 192.168.2.2 255.255.255.255 209.165.200.225 130
Router#show ip route

<output omitted>

Gateway of last resort is not set

    192.168.1.0/32 is subnetted, 1 subnets
C       192.168.1.1 is directly connected, Loopback0
    192.168.2.0/32 is subnetted, 1 subnets
O       192.168.2.2[110/11] via 192.168.12.2, 00:52:09, Ethernet0/0
    192.168.12.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.12.0/24 is directly connected, Ethernet0/0
L       192.168.12.1/32 is directly connected, Ethernet0/0
    209.165.200.0/24 is variably subnetted, 2 subnets, 2 masks
C       209.165.200.0/24 is directly connected, Ethernet0/1
        209.165.200.226/32 is directly connected, Ethernet0/1
```

An engineer configures a static route on a router, but when the engineer checks the route to the destination, a different next hop is chosen. What is the reason for this?

- A. Dynamic routing protocols always have priority over static routes.
- B. The metric of the OSPF route is lower than the metric of the static route.
- C. The configured AD for the static route is higher than the AD of OSPF.
- D. The syntax of the static route is not valid, so the route is not considered.

Answer: C

#### NEW QUESTION 41

Which statement about IPv6 RA Guard is true?

- A. It does not offer protection in environments where IPv6 traffic is tunneled.
- B. It cannot be configured on a switch port interface in the ingress direction.
- C. Packets that are dropped by IPv6 RA Guard cannot be spanned.
- D. It is not supported in hardware when TCAM is programmed.

Answer: A

#### NEW QUESTION 44

Refer to the exhibit.

```
R1 #show ip bgp summary
BGP router identifier 192.168.1.1, local AS number 65000
<output omitted>
Neighbor      V  AS    MsgRcvd  MsgSent    Tblver  InQ  OutQ  Up/Down  State/PfxRcd
192.168.2.2   4  65000    28      28         22     0    0    00:21:31         0
R1#show ip bgp
BGP table version is 22, local router ID is 192.168.1.1
Status codes: s suppressed, d damped, h history, * valid, > best, i – internal,
               r RIB-failure, s stale, m multipath, b backup-path, f RT-Filter,
               x best-external, a additional-path, C RIB-compressed,
Origin codes: i – IGP, e – EGP, ? – incomplete
RPKI validation codes: V valid, I invalid, N Not found

      Network                Next Hop                Metric LocPrf        Weight    Path
*>    172.16.25.0/24          209.165.200.225         0         0          32768     ?
R1#
```

---

```
R2 #show ip bgp summary
BGP router identifier 192.168.2.2, local AS number 65000
<output omitted>
Neighbor      V  AS    MsgRcvd  MsgSent    Tblver  InQ  OutQ  Up/Down  State/PfxRcd
192.168.1.1   4  65000    29      28         3       0    0    00:22:07         1
192.168.3.3   4  65000     7       8         3       0    0    00:02:55         0
R2#show ip bgp
BGP table version is 3, local router ID is 192.168.2.2
Status codes: s suppressed, d damped, h history, * valid, > best, i – internal,
               r RIB-failure, s stale, m multipath, b backup-path, f RT-Filter,
               x best-external, a additional-path, C RIB-compressed,
Origin codes: i – IGP, e – EGP, ? – incomplete
RPKI validation codes: V valid, I invalid, N Not found

      Network                Next Hop                Metric LocPrf        Weight    Path
*i    172.16.25.0/24          209.165.200.225         0        100         0         ?
R2#
```

---

```
R3 #show ip bgp summary
BGP router identifier 192.168.3.3, local AS number 65000
BGP table version is 4, main routing table version 4
Neighbor      V  AS    MsgRcvd  MsgSent    Tblver  InQ  OutQ  Up/Down  State/PfxRcd
192.168.2.2   4  65000     8       7         4       0    0    00:03:08         0
R3#
```

R2 is a route reflector, and R1 and R3 are route reflector clients. The route reflector learns the route to 172.16.25.0/24 from R1, but it does not advertise to R3. What is the reason the route is not advertised?

- A. R2 does not have a route to the next hop, so R2 does not advertise the prefix to other clients.
- B. Route reflector setup requires full IBGP mesh between the routers.
- C. In route reflector setup, only classful prefixes are advertised to other clients.
- D. In route reflector setups, prefixes are not advertised from one client to another.

**Answer:** A

#### NEW QUESTION 49

Which statement about IPv6 ND inspection is true?

- A. It learns and secures bindings for stateless autoconfiguration addresses in Layer 3 neighbor tables.
- B. It learns and secures bindings for stateless autoconfiguration addresses in Layer 2 neighbor tables.
- C. It learns and secures bindings for stateful autoconfiguration addresses in Layer 3 neighbor tables.
- D. It learns and secures bindings for stateful autoconfiguration addresses in Layer 2 neighbor tables.

**Answer:** B

#### NEW QUESTION 52

Refer to the exhibit.



```
Cat3850-Stack-2# show policy-map
```

```
Policy Map LIMIT_BGP
```

```
Class BGP
```

```
drop
```

```
Policy Map SHAPE_BGP
```

```
Class BGP
```

```
Average Rate Traffic Shaping
```

```
cir 10000000 (bps)
```

```
Policy Map POLICE_BGP
```

```
Class BGP
```

```
police cir 1000k bc 1500
```

```
conform-action transmit
```

```
exceed-action transmit
```

```
Policy Map COPP
```

```
Class BGP
```

```
police cir 1000k bc 1500
```

```
conform-action transmit
```

```
exceed-action drop
```

Which control plane policy limits BGP traffic that is destined to the CPU to 1 Mbps and ignores BGP traffic that is sent at higher rate?

- A. policy-map SHAPE\_BGP
- B. policy-map LIMIT\_BGP
- C. policy-map POLICE\_BGP
- D. policy-map COPP

**Answer:** D

#### NEW QUESTION 54

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