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Cisco Implementing Cisco Enterprise Advanced Routing and Services Sample Questions (Q222-Q227):

NEW QUESTION # 222

Which type of BFD session is created on a broadcast Ethernet interface with OSPF?

- A. only with the DR
- B. with the DR and BDR, but not any DROTHER routers
- C. with all OSPF routers
- D. only on P2P Ethernet interfaces

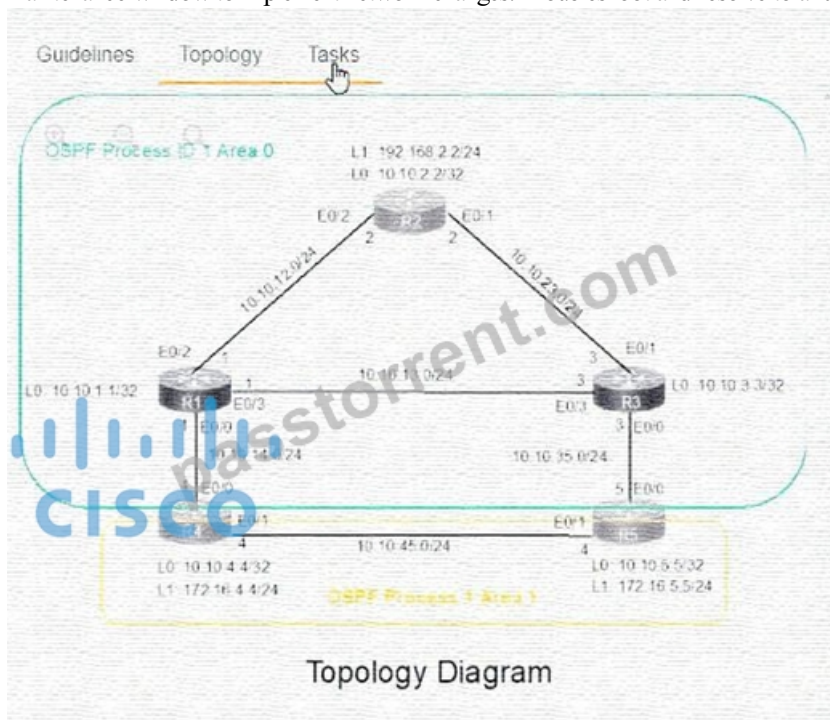
Answer: A

Explanation:

When Bidirectional Forwarding Detection (BFD) is configured with OSPF on a broadcast Ethernet interface, BFD sessions are only established with the Designated Router (DR). This is because, in OSPF broadcast networks, the DR is responsible for maintaining adjacencies with all routers, and only one OSPF adjacency is needed to optimize resource usage.

NEW QUESTION # 223

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:



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 ioam timestamp
!
!
!
control-plane
!
!
!
!
!
!
!
line con 0
```

Activate
Go to Setti

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--
```

Activate V
Go to Setting

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 V
Go to Setting

R2 R4 R5

```

!
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

```

Activate V
Go to Setting

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

```

Activate V
Go to Setting


```

router ospf 1
 redistribute connected subnets route-map to-ospf
 passive-interface default
  no passive-interface Ethernet0/0
  no passive-interface Ethernet0/1
 forward-protocol nd

ip http server
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

```

Explanation:
See the solution in Explanation below.

SOLUTION:-

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

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:-

A black screen with white text AI-generated content may be incorrect.

```

R2#show ip ospf nei
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 # 224

Refer to the exhibit.

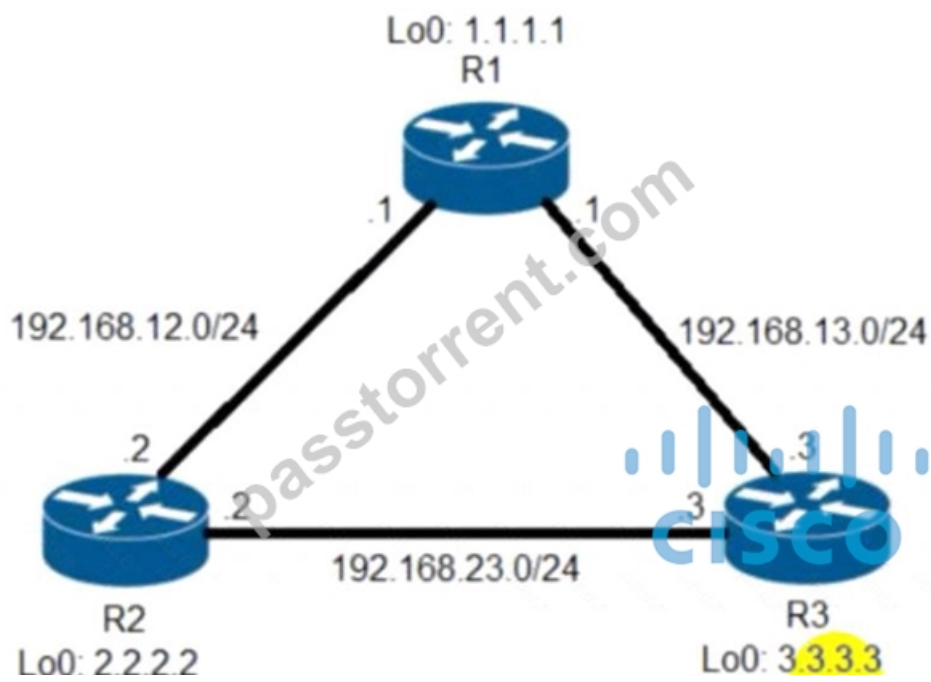


User in the branch network of 2001. db8 0.4 report they cannot access the internet. Which command is issued in IPv6 router EIGRP 100 configuration mode to solve this issue?

- A. Issue the eigrp command on R2.
- B. Issue the no neighbor stub command on R2.
- C. Issue the no eigrp stub command on R2.
- D. Issue the eigrp stub command on R1

Answer: B

NEW QUESTION # 225



```

R2#show ip protocols | include eigrp|maximum
Routing Protocol is "eigrp 1"
  Maximum path: 4
  Maximum hopcount 100
  Maximum metric variance 1

R2#show ip eigrp topology 192.168.13.0/24
EIGRP-IPv4 Topology Entry for AS(1)/ID(2.2.2.2) for 192.168.13.0/24
State is Passive, Query origin flag is 1, 1 Successor(s), FD is 1075200
Descriptor Blocks:
192.168.23.3 (FastEthernet0/1), from 192.168.23.3, Send flag is 0x0
  Composite metric is (1075200/281600), route is Internal
  Vector metric:
    Minimum bandwidth is 2500 Kbit
    Total delay is 2000 microseconds
    Reliability is 255/255
    Load is 255/255
    Minimum MTU is 1500
    Hop count is 1
    Originating router is 3.3.3.3
192.168.12.1 (FastEthernet0/0), from 192.168.12.1, Send flag is 0x0
  Composite metric is (2611200/281600), route is Internal
  Vector metric:
    Minimum bandwidth is 1000 Kbit
    Total delay is 2000 microseconds
    Reliability is 255/255
    Load is 1/255
    Minimum MTU is 1500
    Hop count is 1
    Originating router is 1.1.1.1

R2#show ip route 192.168.13.0
Routing entry for 192.168.13.0/24
Known via "eigrp 1", distance 90, metric 1075200, type internal
Redistributing via eigrp 1
Last update from 192.168.23.3 on FastEthernet0/1, 00:00:57 ago
Routing Descriptor Blocks:
* 192.168.23.3, from 192.168.23.3, 00:00:57 ago, via FastEthernet0/1
  Route metric is 1075200, traffic share count is 1
  Total delay is 2000 microseconds, minimum bandwidth is 2500 Kbit
  Reliability 255/255, minimum MTU 1500 bytes
  Loading 255/255, Hops 1

```

Refer to the exhibit. R2 has two paths to reach 192.168.13.0/24, but traffic is sent only through R3. Which action allows traffic to use both paths?

- A. Configure the variance 4 command under the EIGRP process on R2.
- B. Configure the delay 1 command under interface FastEthernet0/0 on R2.
- C. Configure the bandwidth 2000 command under interface FastEthernet0/0 on R2.
- D. Configure the variance 2 command under the EIGRP process on R2

Answer: A

Explanation:

From the output of the "show ip eigrp topology ..." command, we notice network 192.168.13.0/24 was learned via two routes: + From 192.168.23.3 (R3) with FD = 1075200 and AD = 281600 + From 192.168.12.1 (R1) with FD = 2611200 and AD = 281600 From the output of the "show ip route ..." command, we learned that the best (and chosen) path is via 192.168.23.3 (R3).

To use both paths (called unequal cost load balancing) with EIGRP, the second path via R1 must satisfy the feasibility condition. The feasibility condition states that, the Advertised Distance (AD) of a route must be lower than the feasible distance of the current

successor route.

In this case, the second path satisfies the feasible condition as its AD (281600) is smaller than the FD (1075200) of the best path. Therefore we can configure loadbalancing with "variance" command.

In other words, EIGRP will install all paths with $\text{metric} < \text{variance} * \text{best_metric}$ into the local routing table, provided that it meets the feasibility condition to prevent routing loop. Therefore we can calculate the variance

$> \text{metric} / \text{best_metric} = 2611200 / 1075200 = 2.4$.

So with a variance greater than 2 (and must be an integer), we can load balance traffic to network 192.168.13.0/24.

NEW QUESTION # 226

Refer to the exhibit. An engineer configured summarization for the R1 loopback addresses and failed. Which action permits the successful advertisement of the R1 loopback addresses?

```
R1#
interface Loopback0
ip address 100.1.1.1 255.255.255.255
!
interface Loopback10
ip address 10.100.1.10 255.255.255.255
!
interface Loopback20
ip address 10.100.1.20 255.255.255.255
!
interface Loopback30
ip address 10.100.1.30 255.255.255.255
!
interface Loopback40
ip address 10.100.1.40 255.255.255.255
!
interface Loopback50
ip address 10.100.1.50 255.255.255.255
!
interface FastEthernet0/0
ip address 10.1.1.1 255.255.255.252
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 EIGRPKEY
ip summary-address eigrp 100 10.100.1.0 255.255.255.0 5 leak-map LOOPBACK50
!
router eigrp 100
network 10.1.1.0 0.0.0.3
network 10.1.1.12 0.0.0.3
neighbor 10.1.1.2 FastEthernet0/0
neighbor 10.1.1.14 FastEthernet1/0
default metric 1000000 10 255 1 1500
no auto-summary
!
ip prefix-list LOOPBACK50 seq 5 permit 10.100.1.50/32
!
route-map LOOPBACK50 permit 10
match ip address prefix-list LOOPBACK50
```

- A. Configure EIGRP 100 with a network statement for loopback 0 and remove the leak map for loopback 50.
- **B. Configure EIGRP 100 with a network statement for loopback 0 and redistribute the connected route for loopback 50.**
- C. Configure EIGRP 100 with a network statement for loopback 0 and configure and redistribute the static route for loopback 50.
- D. Configure 100.1.1.1 permit statement in the prefix list LOOPBACK50 and redistribute the connected route for loopback 50.

Answer: B

Explanation:

The issue is with the summarization configuration for R1's loopback interfaces. While the summarization is correctly configured, the leak-map used for loopback 50 does not ensure that the loopback address is redistributed into EIGRP.

To successfully advertise all the loopback addresses:

1. Add a network statement for loopback 0: This ensures that the EIGRP process recognizes the loopback interface as part of its routing domain.

```
router eigrp 100
network 100.1.1.1 0.0.0.0
```

- The specific route for loopback 50 (10.100.1.50/32) is leaked through the summary due to the leak-map.

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