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Cisco Implementing and Operating Cisco Service Provider Network Core Technologies Sample Questions (Q511-Q516):

NEW QUESTION # 511

Refer to the exhibit.

```
R1
interface gigabitEthernet1/0/0
  ipv6 enable ipv6 ospf 1 area 1
interface gigabitEthernet2/0/0
  ipv6 enable ipv6 ospf 1 area 2
```

An engineer implemented OSPF neighbor relationship on an IOS device. Which configuration must be applied to get the OR/BOR election removed from interfaces running OSPF?

- A. ip ospf network point-to-point on interfaces running OSPF
- B. ip ospf network broadcast on interfaces running OSPF
- C. ip ospf network multipoint-point on interfaces running OSPF
- D. ip ospf network non-broadcast on interfaces running OSPF

Answer: D

Explanation:

In OSPF, the election of the designated router (DR) and backup designated router (BDR) is based on the OSPF network type. The network types include:

* Broadcast: This is the default network type for Ethernet interfaces. In a broadcast network, OSPF elects a DR and BDR. All other routers become DROTHERs. To prevent the election of a DR/BDR, you can configure the interface as non-broadcast (NBMA) using the ip ospf network non-broadcast command.

* Point-to-Point: This network type is used for point-to-point links (e.g., serial links). There is no DR/BDR election in point-to-point networks.

* Point-to-Multipoint: This network type is used for point-to-multipoint links (e.g., Frame Relay). There is no DR/BDR election in point-to-multipoint networks.

* Point-to-Multipoint Non-Broadcast: Similar to point-to-multipoint, but explicitly configured as non-broadcast. There is no DR/BDR election in point-to-multipoint non-broadcast networks.

* Loopback: Loopback interfaces are always treated as point-to-point.

* Virtual-Link: Used for OSPF virtual links.

* Sham-Link: Used for OSPF sham links.

* Demand Circuit: Used for demand circuits (e.g., ISDN).

* Non-Broadcast: Explicitly configured as non-broadcast. There is no DR/BDR election in non-broadcast networks.

:

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NEW QUESTION # 512

How do intent APIs make it easier for network engineers to deploy and manage networks?

- They allow the engineer to use a single interface as the entry point for control access to the entire device.
- They pull stored SNMP data from a single network location to multiple monitoring tools.
- They extend the Layer 2 infrastructure and reduce the necessary number of virtual connections to Layer 3 devices.
- They streamline repetitive workflows and support more efficient implementation.

- A. Option A

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

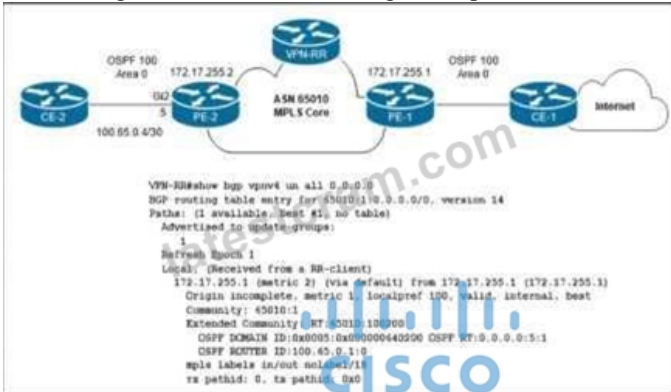
Answer: C

NEW QUESTION # 513

Refer to the exhibit. The network engineer who manages ASN 65010 is provisioning a customer VRF named CUSTOMER-ABC on PE-2.

The PE-CE routing protocol is OSPF Internet reachability is available via the OSPF 0 0 0.0/0 route advertised by CE-1 to PE-1 In the customer VRF.

Which configuration must the network engineer Implement on PE-2 so that CE-2 has connectivity to the Internet?



- A.


```

vrf definition CUSTOMER-ABC
rd 65010:1
address-family ipv4
route-target both 65010:1
!
router ospf 100 vrf CUSTOMER-ABC
network 100.65.0.4 0.0.0.3 area 0
redistribute bgp 65010 subnets
default-information originate
!
router bgp 65010
address-family ipv4 unicast vrf CUSTOMER-ABC
redistribute ospf 100 match internal external
      
```
- B.


```

vrf definition CUSTOMER-ABC
rd 65010:2
address-family ipv4
route-target both 65010:100200
!
router ospf 100 vrf CUSTOMER-ABC
network 100.65.0.4 0.0.0.3 area 0
redistribute bgp 65010 subnets
default-information originate
!
router bgp 65010
address-family ipv4 unicast vrf CUSTOMER-ABC
redistribute ospf 100 match internal external
      
```
- C.


```

vrf definition CUSTOMER-ABC
rd 65010:1
address-family ipv4
route-target both 65010:100200
!
router ospf 100 vrf CUSTOMER-ABC
network 100.65.0.4 0.0.0.3 area 0
redistribute bgp 65010 subnets
!
router bgp 65010
address-family ipv4 unicast vrf CUSTOMER-ABC
redistribute ospf 100 match internal external
      
```

```

vrf definition CUSTOMER-ABC
rd 65010:2
address-family ipv4
route-target both 65010:1
!
router ospf 100 vrf CUSTOMER-ABC
network 100.65.0.4 0.0.0.3 area 0
redistribute bgp 65010 subnets
!
router bgp 65010
address-family ipv4 unicast vrf CUSTOMER-ABC
redistribute ospf 100 match internal external

```

- D.

Answer: B

NEW QUESTION # 514

```

ASBR-1#show bgp ipv4 unicast | begin Network
Network          Next Hop          Metric LocPrf Weight Path
*>i 198.18.15.0  172.31.255.1     0      100    0 65001 ?
* i              172.31.255.2     0      100    0 65001 ?

EDGE-1#show bgp ipv4 un | begin Network
Network          Next Hop          Metric LocPrf Weight Path
*> 198.18.15.0/25 100.65.0.2        0          0 65001 ?
*> 198.18.15.0   100.65.0.2        0          0 65001 ?
* i              172.31.255.2     0      100    0 65001 ?

EDGE-1#show bgp ipv4 un 198.18.15.0
BGP routing table entry for 198.18.15.0/25, version 9
Paths: (1 available, best #1, table default, not advertised to any peer)
Not advertised to any peer
Refresh Epoch 1
65001
 100.65.0.2 from 100.65.0.2 (198.18.100.1)
  Origin incomplete, metric 0, localpref 100, valid, external, best
  Community: 64611:65001 no-advertise

RP/0/0/CPU0:INT-R1#show bgp ipv4 unicast | begin Network
Network          Next Hop          Metric LocPrf Weight Path
*> 198.18.15.0/24 0.0.0.0           0          0 32768 ?
*> 198.18.15.0/25 0.0.0.0           0          0 32768 ?

```

Refer to the exhibit. The network engineer who manages ASN 65001 is troubleshooting suboptimal routing to the 198.18.15.0/24 prefix.

According to the network requirements:

Routing to IP destinations in the 198.18.15.0/25 block must be preferred via the EDGE-1 PE.

Routing to IP destinations in the 198.18.15.128/25 block must be preferred via the EDGE-2 PE.

More specific prefixes of the 198.18.15.0/24 block must not be advertised beyond the boundaries of ASN 64611.

Routing to 198.18.15.0/24 must be redundant in case one of the uplinks on INT-R1 fails.

Which configuration must the network engineer implement on INT-R1 to correct the suboptimal routing and fix the issue?

- A. configure terminal


```

route-policy ASN65001-SPECIFIC-OUT
if destination in (198.18.15.0/25) then
set community (no-export, peeras:65001)
done
endif
if destination in (198.18.15.0/24) then
prepend as-path 65001 3
done

```

```
endif
drop
end-policy
!
router bgp 65001
neighbor 100.65.0.1
address-family ipv4 unicast
route-policy ASN65001-SPECIFIC-OUT out
end
```

- B. configure terminal

```
route-policy ASN65001-SPECIFIC-OUT
if destination in (198.18.15.0/25) then
set community (no-advertise, peeras:65001)
done
endif
if destination in (198.18.15.128/25) then
prepend as-path 65001 3
done
endif
drop
end-policy
!
router bgp 65001
neighbor 100.65.0.1
address-family ipv4 unicast
route-policy ASN65001-SPECIFIC-OUT out
end
```

- C. configure terminal

```
route-policy ASN65001-SPECIFIC-OUT
if destination in (198.18.15.0/25) then
set community (no-export, peeras:65001)
done
endif
if destination in (198.18.15.128/25) then
prepend as-path 65001 3
done
endif
drop
end-policy
!
router bgp 65001
neighbor 100.65.0.1
address-family ipv4 unicast
route-policy ASN65001-SPECIFIC-OUT in
end
```

- D. configure terminal

```
route-policy ASN65001-SPECIFIC-OUT
if destination in (198.18.15.0/25) then
set community (internal, peeras:65001)
done
endif
if destination in (198.18.15.0/24) then
done
endif
drop
end-policy
!
router bgp 65001
neighbor 100.65.0.1
address-family ipv4 unicast
route-policy ASN65001-SPECIFIC-OUT out
end
```

Answer: D

NEW QUESTION # 515

Refer to the exhibit.

```
router bgp 100
  address-family ipv4 unicast
  address-family vpnv4 unicast
  neighbor 10.19.20.20
    remote-as 1
    address-family ipv4 unicast
  !
  !
  !
  !
  commit
  !
```

An engineer is trying to implement BGP configuration on a router. Which configuration error prevents the ASBR from establishing a BGP neighborship to a directly connected BGP speaker?

- A. The VPNv4 address family interferes with the BGP IPv4 address family negotiations.
- B. The IPv4 address family configuration under neighbor configuration-mode must be removed.
- C. The TCP session parameters are not specified.
- D. The routing policy is absent for this Cisco IOS XR eBGP instance.

Answer: D

Explanation:

https://www.cisco.com/c/en/us/td/docs/routers/xr12000/software/xr12k_r41/routing/configuration/guide/routing_cg41xr12k_chapter1.html

bgp router-id comes under TCP session parameters

BGP Router Identifier
For BGP sessions between neighbors to be established, BGP must be assigned a router ID. The router ID is sent to BGP peers in the OPEN message when a BGP session is established. BGP attempts to obtain a router ID in the following ways (in order of preference):

- By means of the address configured using the `bgp router-id` command in router configuration mode.
- By using the highest IPv4 address on a loopback interface in the system if the router is booted with saved loopback address configuration.
- By using the primary IPv4 address of the first loopback address that gets configured if there are not any in the saved configuration.

If none of these methods for obtaining a router ID succeeds, BGP does not have a router ID and cannot establish any peering sessions with BGP neighbors. In such an instance, an error message is entered in the system log, and the `show bgp summary` command displays a router ID of 0.0.0.0.

NEW QUESTION # 516

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