



Cisco

Exam Questions 300-410

Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)

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NEW QUESTION 1

- (Exam Topic 3)

A newly installed spoke router is configured for DMVPN with the ip mtu 1400 command. Which configuration allows the spoke to use fragmentation with the maximum negotiated TCP MTU over GRE?

- A. ip tcp adjust-mss 1360crypto ipsec fragmentation after-encryption
- B. ip tcp adjust-mtu 1360crypto ipsec fragmentation after-encryption
- C. ip tcp adjust-mss 1360crypto ipsec fragmentation mtu-discovery
- D. ip tcp adjust-mtu 1360crypto ipsec fragmentation mtu-discovery

Answer: A

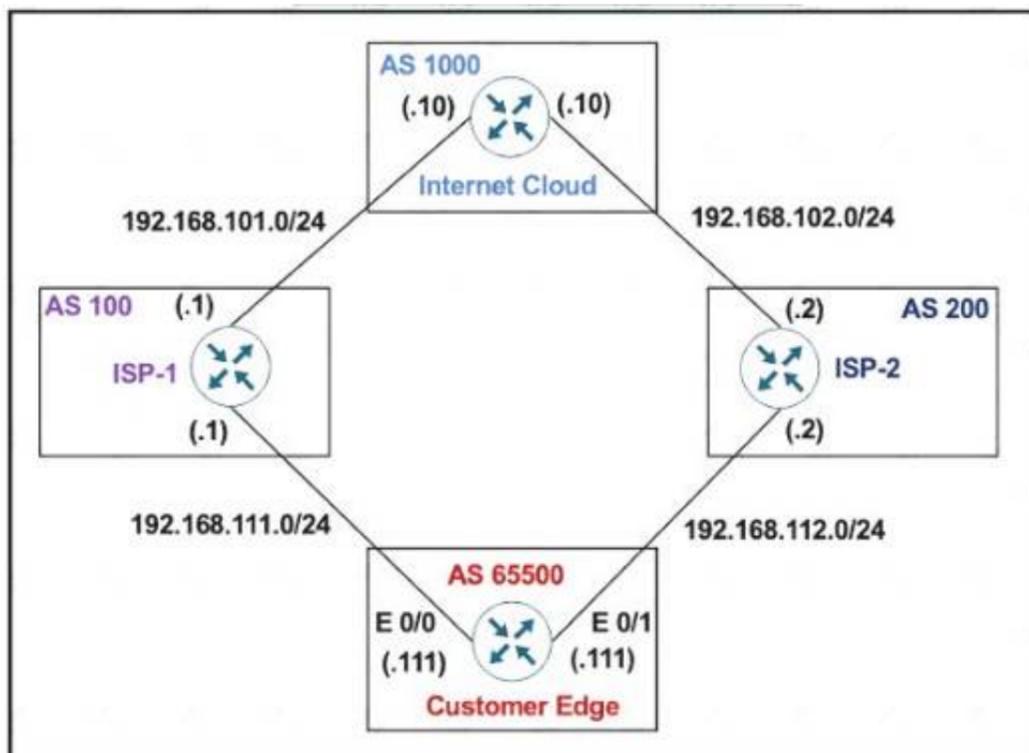
Explanation:

<https://www.cisco.com/c/en/us/support/docs/security/dynamic-multipoint-vpn-dmvpn/111976-dmvpn-troublesh>

NEW QUESTION 2

- (Exam Topic 3)

Refer to the exhibit.



The Customer Edge router (AS 65500) wants to use ASC100 as the preferred ISP for all external routes.

```
Customer Edge
route-map SETLP
set local-preference 111
!
router bgp 65500
neighbor 192.168.111.1 remote-as 100
neighbor 192.168.111.1 route-map SETLP out
neighbor 192.168.112.2 remote-as 200
```

This configuration failed to send routes to AS 100 as the preferred path. Which set of configuration resolves the issue?

- route-map SETLP
 - set local-preference 111
 - !
 - router bgp 65500
 - neighbor 192.168.111.1 remote-as 100
 - neighbor 192.168.111.1 route-map SETLP out
- route-map SETLP
 - set local-preference 111
 - !
 - router bgp 65500
 - neighbor 192.168.111.1 remote-as 100
 - neighbor 192.168.111.1 route-map SETLP in
- route-map SETPP
 - set as-path prepend 111 111
 - !
 - router bgp 65500
 - neighbor 192.168.111.1 remote-as 100
 - neighbor 192.168.111.1 route-map SETPP out
- route-map SETPP
 - set as-path prepend 100 100
 - !
 - router bgp 65500
 - neighbor 192.168.111.1 remote-as 100
 - neighbor 192.168.111.1 route-map SETPP in

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

Answer: B

NEW QUESTION 3

- (Exam Topic 3)

An engineer notices that R1 does not hold enough log messages to identify the root cause during troubleshooting. Which command resolves this issue?

- A. #logging buffered 4096 critical
- B. (config)#logging buffered 16000 informational
- C. #logging buffered 16000 critical
- D. (config)#logging buffered 4096 informational

Answer: B

NEW QUESTION 4

- (Exam Topic 3)

Which technique removes the outermost label of an MPLS-tagged packet before the packet is forwarded to an adjacent LER?

- A. label swap
- B. explicit-null
- C. label imposition
- D. PHP

Answer: D

NEW QUESTION 5

- (Exam Topic 3)

Refer to the exhibit.

```
R1#
router ospf 1
 redistribute rip subnets
 network 131.108.1.0 0.0.0.255 area 2
 network 131.108.2.0 0.0.0.255 area 2
 distribute-list 1 out
 !
 access-list 1 permit 132.108.4.0 0.0.0.255
```

The R1 OSPF neighbor is not receiving type 5 external LSAs for 132.108.2.0/24 and 132.108.3.0/24 networks. Which configuration command resolves the issue?

- A. access-list 1 permit 132.108.0.0 0.0.1.255
- B. access-list 1 permit 132.108.0.0 0.0.3.255
- C. access-list 1 permit 132.108.2.0 0.0.0.255
- D. access-list 1 permit 132.108.4.0 0.0.3.255

Answer: B

NEW QUESTION 6

- (Exam Topic 3)

Refer to the exhibit.

```
R1#show ip interface GigabitEthernet0/0 | include drops
 0 verification drops
 0 suppressedverification drops

R1#show ip interface GigabitEthernet0/1 | include drops
 5 verification drops
 0 suppressedverification drops
```

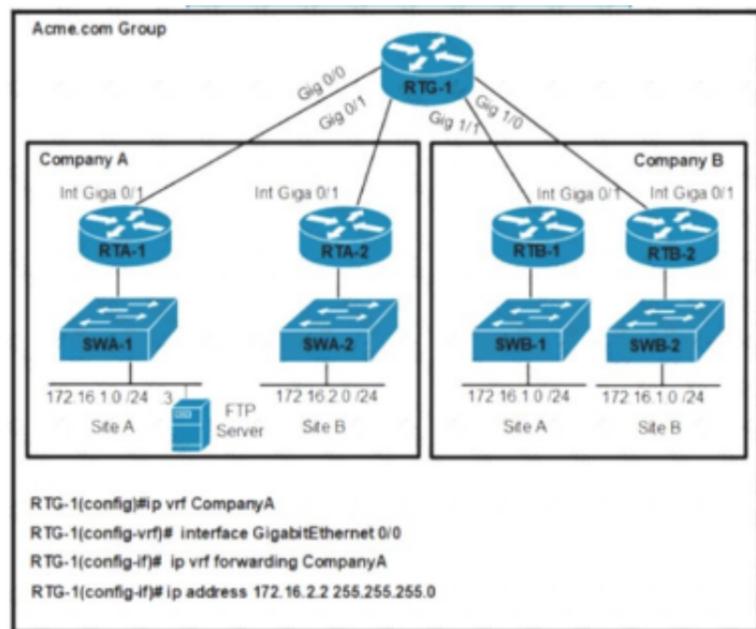
R1 is configured with uRPF, and ping to R1 is failing from a source present in the R1 routing table via the GigabitEthernet 0/0 interface. Which action resolves the issue?

- A. Remove the access list from the interface GigabitEthernet 0/0
- B. Modify the uRPF mode from strict to loose
- C. Enable Cisco Express Forwarding to ensure that uRPF is functioning correctly
- D. Add a floating static route to the source on R1 to the GigabitEthernet 0/1 interface

Answer: B

NEW QUESTION 7

- (Exam Topic 3)



Refer to the exhibit. An engineer must configure a per VRF for TACACS+ for company A. Which configuration on RTG-1 accomplishes the task?

- `aaa new-model`
`aaa group server tacacs+ Tacacscluster`
`server-private 172.16.1.1 port 49 key routing`
`ip tacacs source-interface GigabitEthernet 0/0`
`ip vrf forwarding CompanyA`
- `aaa new-model`
`aaa group server tacacs+ Tacacscluster`
`server-private 172.16.1.3 port 49 key routing`
`ip tacacs source-interface GigabitEthernet 0/1`
`ip vrf forwarding CompanyA`
- `aaa new-model`
`aaa group server tacacs+ Tacacscluster`
`server-private 172.16.1.1 port 49 key routing`
`ip tacacs source-interface GigabitEthernet 0/1`
`ip vrf CompanyA`
- `aaa new-model`
`aaa group server tacacs+ Tacacscluster`
`server-private 172.16.1.3 port 49 key routing`
`ip tacacs source-interface GigabitEthernet 0/0`
`ip vrf CompanyA`

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

Answer: D

NEW QUESTION 8

- (Exam Topic 3)

A newly Installed router starts establishing an LDP session from another MPLS router to which it is not directly connected. Which LDP message type responds by target router to the Initiating router using UDP protocol?

- A. notification message
- B. session message
- C. extended discovery message
- D. advertisement message

Answer: C

NEW QUESTION 9

- (Exam Topic 3)

What is an MPLS LDP targeted session?

- A. session between neighbors that are connected no more than one hop away
- B. LDP session established between LSRs by exchanging TCP hello packets
- C. label distribution session between non-directly connected neighbors
- D. LDP session established by exchanging multicast hello packets

Answer: C

NEW QUESTION 10

- (Exam Topic 3)

```

March 10 19:28:53.254 GMT: %SNMP-3-AUTHFAIL: Authentication
failure for SNMP request from host 10.1.1.1

snmp-server community public RO 15
snmp-server community private RW 16
!
logging snmp-authfail
!
access-list 15 permit 10.1.1.1
!
access-list 16 permit 10.1.1.2
    
```

Refer to the exhibit Which action resolves the issue?

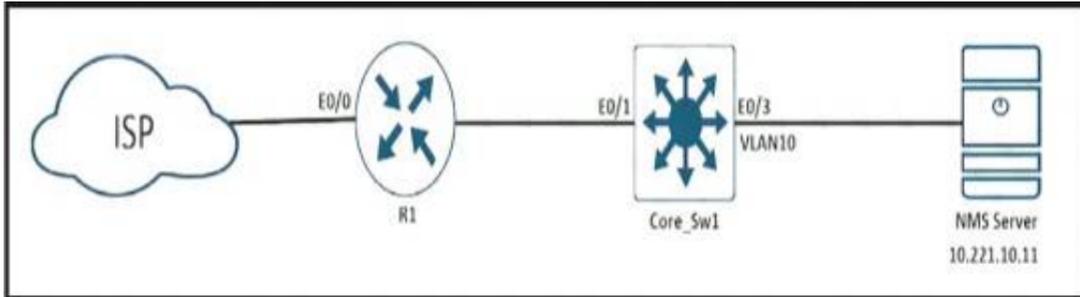
- A. Configure host IP address in access-list 16
- B. Configure SNMPv3 on the router
- C. Configure SNMP authentication on the router
- D. Configure a valid SNMP community string

Answer: D

NEW QUESTION 10

- (Exam Topic 3)

Refer to the exhibit.



During ISP router maintenance, the network produced many alerts because of the flapping interface. Which configuration on R1 resolves the issue?

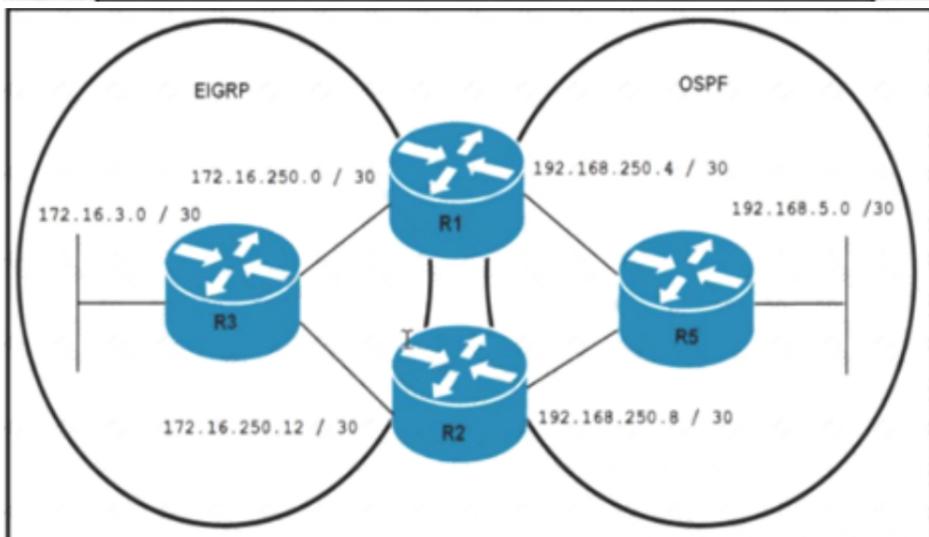
- A. no snmp trap link-status
- B. snmp trap link-status down
- C. snmp trap ip verify drop-rate
- D. ip verify drop-rate notify hold-down 60

Answer: D

NEW QUESTION 15

- (Exam Topic 3)

<pre> R1#show running-config begin router eigrp router eigrp 100 network 172.16.250.0 0.0.0.255 redistribute ospf 1 metric 1 1 1 1 1 ! router ospf 1 redistribute eigrp 100 subnets network 192.168.250.0 0.0.0.255 area 0 </pre>	<pre> R5#traceroute 172.16.3.1 Type escape sequence to abort. Tracing the route to 172.16.3.1 VRF info: (vrf in name/id, vrf out name/id) 0 192.168.250.9 66 msec 1 192.168.250.6 6 msec 2 192.168.250.9 8 msec 3 172.16.250.2 33 msec 4 172.16.250.14 88 msec 5 172.16.250.2 11 msec R5# </pre>
<pre> R2#show runn begin router eigrp router eigrp 100 network 172.16.250.0 0.0.0.255 redistribute ospf 1 metric 1 1 1 1 1 ! router ospf 1 redistribute eigrp 100 subnets network 192.168.250.0 0.0.0.255 area 0 ! ip forward-protocol nd </pre>	



Refer to the exhibit. An engineer is troubleshooting a routing loop on the network to reach the 172.16.3.0/16 from the OSPF domain. Which configuration on router R1 resolves the issue?

A)

```
router ospf 1
 redistribute eigrp 100 subnets route-map LOOPFILT
 !
 route-map LOOPFILT deny 10
  match ip address 15
 !
 route-map LOOPFILT permit 20
 !
 access-list 15 permit 172.16.0.0 0.0.255.255
```

B)

```
router eigrp 100
 redistribute ospf 1 metric 1 1 1 1 1 route-map LOOPFILT
 !
 route-map LOOPFILT deny 10
  match ip address 15
 !
 route-map LOOPFILT permit 20
 !
 access-list 15 permit 172.16.0.0 0.0.255.255
```

C)

```
router ospf 1
 redistribute eigrp 100 route-map LOOPFILT
 !
 route-map LOOPFILT deny 10
  match ip address 15
 !
 access-list 15 permit 172.16.0.0 0.0.255.255
```

D)

```
router eigrp 100
 redistribute ospf 1 metric 1 1 1 1 1 route-map LOOPFILT
 !
 route-map LOOPFILT deny 10
  match ip address 15
 !
 access-list 15 permit 172.16.0.0 0.0.255.255
```

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

Answer: C

NEW QUESTION 17

- (Exam Topic 3)

What is a function of IPv6 Source Guard?

- A. It works with address glean or ND to find existing addresses.
- B. It inspects ND and DHCP packets to build an address binding table.
- C. It denies traffic from known sources and allocated addresses.
- D. It notifies the ND protocol to inform hosts if the traffic is denied by it.

Answer: A

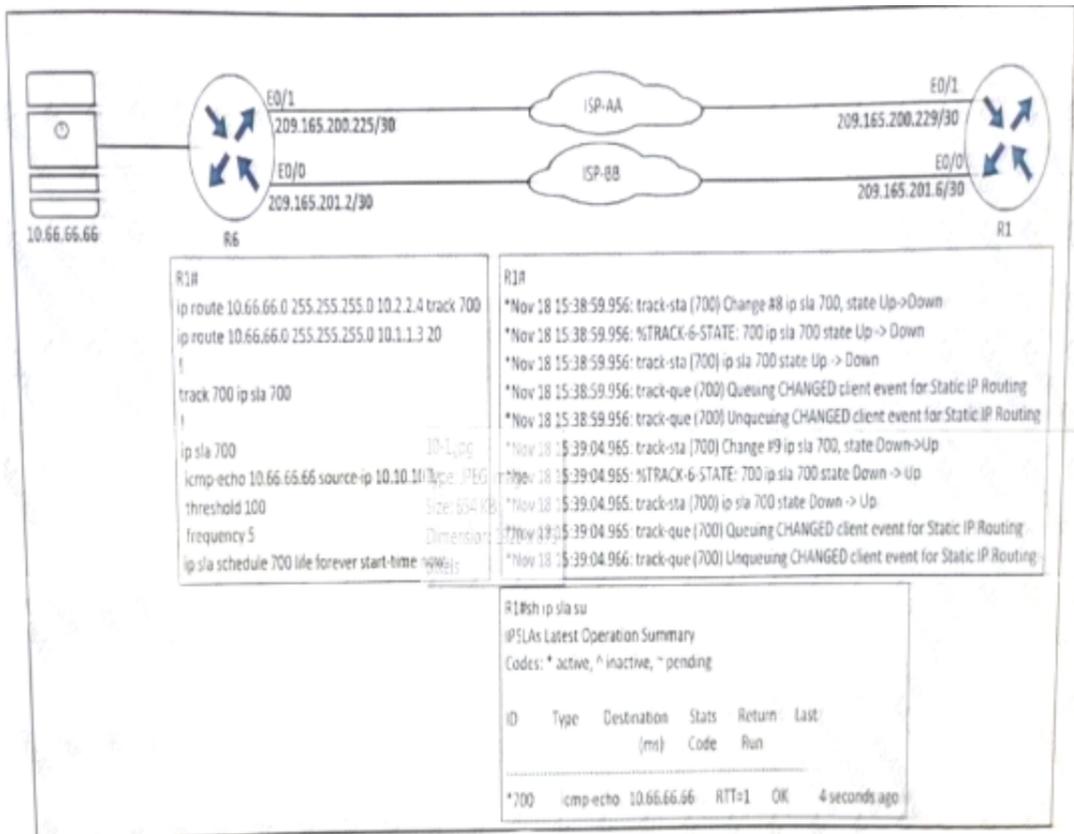
Explanation:

IPv6 source guard is an interface feature between the populated binding table and data traffic filtering. This feature enables the device to deny traffic when it is originated from an address that is not stored in the binding table. IPv6 source guard does not inspect ND or DHCP packets; rather, it works in conjunction with IPv6 neighbor discovery (ND) inspection or IPv6 address glean, both of which detect existing addresses on the link and store them into the binding table.

NEW QUESTION 21

- (Exam Topic 3)

Refer to the exhibit.



An engineer configured IP SLA on R1 to avoid the ISP link flapping problem. but it is not working as designed IP SLA should wait 30 seconds before switching traffic to a secondary connection and then revert to the primary link after waning 20 seconds, when the primary link is available and stabilized. Which configuration resolves the issue?

- A. R1(config)#ip sla 700R1(config-ip-sla)#delay down 30 up 20
- B. R1(config)#ip sla 700R1(config-ip-sla)#delay down 20 up 30
- C. R1(config)#track 700 ip sla 700R1(config-track)#delay down 30 up 20
- D. R1(config)#track 700 ip sla 700R1(config-track)#delay down 20 up 30

Answer: C

Explanation:

“wait 30 seconds before switching traffic to a secondary connection” -> delay down 30 “then revert to the primary link after waiting 20 seconds” -> up 20 Under the track object, you can specify delays so we have to configure delay under “track 700 ip sla 700” (not under “ip sla 700”).

NEW QUESTION 26

- (Exam Topic 3)

What are the two prerequisites to enable BFD on Cisco routers? (Choose two)

- A. A supported IP routing protocol must be configured on the participating routers.
- B. OSPF Demand Circuit must run BFD on all participating routers.
- C. ICMP must be allowed on all participating routers.
- D. UDP port 1985 must be allowed on all participating routers.
- E. Cisco Express Forwarding and IP Routing must be enabled on all participating routers.

Answer: CE

NEW QUESTION 30

- (Exam Topic 3)

Refer to the exhibit.

```

*17:40:07.826: AAA/BIND(00000055): Bind i/f
*17:40:07.826: AAA/AUTHEN/LOGIN (00000055): Pick method list 'default'
*17:40:07.826: TPLUS: Queuing AAA Authentication request 85 for processing
*17:40:07.826: TPLUS: TPLUS(00000055) login timer started 1020 sec timeout
*17:40:07.826: TPLUS: processing authentication start request id 85
*17:40:07.826: TPLUS: Authentication start packet created for 85()
*17:40:07.826: Using server 10.106.60.182
*17:40:07.826: TPLUS(00000055)/0/NB_WAIT/225FE2DC: Started 5 sec timeout
*17:40:07.830: TPLUS(00000055)/0/NB_WAIT: socket event 2
*17:40:07.830: TPLUS(00000055)/0/NB_WAIT: wrote entire 38 bytes request
*17:40:07.830: TPLUS(00000055)/0/READ: socket event 1
*17:40:07.830: TPLUS(00000055)/0/READ: Would block while reading
*17:40:07.886: TPLUS(00000055)/0/READ: socket event 1
*17:40:07.886: TPLUS(00000055)/0/READ: read entire 12 header bytes (expect 6 bytes data)
*17:40:07.886: TPLUS(00000055)/0/READ: socket event 1
*17:40:07.886: TPLUS(00000055)/0/READ: read entire 18 bytes response
*17:40:07.886: TPLUS(00000055)/0/225FE2DC: Processing the reply packet
*17:40:07.886: TPLUS: received bad AUTHEN packet: length = 6, expected 43974
*17:40:07.886: TPLUS: Invalid AUTHEN packet (check keys).
    
```

An engineer is troubleshooting a TACACS problem. Which action resolves the issue?

- A. Configure a matching TACACS server IP.
- B. Configure a matching preshared key.
- C. Generate authentication from a relative source interface.
- D. Apply a configured AAA profile to the VTY.

Answer: B

Explanation:

Reference:

<https://community.cisco.com/t5/network-access-control/issues-with-tacacs-authentication/td-p/3412001> The last line shows us the reason, which is "Invalid AUTHEN packet (check keys)" so the most likely cause of this problem is key mismatch.

NEW QUESTION 32

- (Exam Topic 3)

An engineer is creating a policy that overrides normal routing behavior. If the route to a destination of 10.100.100.0/24 is withdrawn from the routing table, the policy must direct traffic to a next hop of 10.1.1.1. If the route is present in the routing table, then normal forwarding must occur. Which configuration meets the requirements?

- A. access-list 100 permit ip any any!route-map POLICY permit 10 match ip address 100set ip next-hop recursive 10.1.1.1
- B. access-list 100 permit ip any 10.100.100.0 0.0.0.255!Route-map POLICY permit 10 match ip address 100set ip default next-hop 10.1.1.1
- C. access-list 100 permit ip any 10.100.100.0 0.0.0.255!route-map POLICY permit 10 match ip address 100set ip next-hop 10.1.1.1!route map POLICY permit 20
- D. access-list 100 permit ip any 10.100.100.0 0.0.0.255!route map POLICY permit 10 match ip address 100Set ip next-hop recursive 10.1.1.1!route-map POLICY permit 20

Answer: D

NEW QUESTION 35

- (Exam Topic 3)

```
R1(config)#interface GigabitEthernet 0/0
R1(config-if)#ip address 10.10.10.10 255.255.255.252
R1(config-if)#ospfv3 1 ipv4 area 0

R2(config)#interface GigabitEthernet 0/0
R2(config-if)#ip address 10.10.10.11 255.255.255.252
R2(config-if)#ospfv3 10 ipv4 area 0
R2(config-if)#ospfv3 network broadcast
```

Refer to the exhibit An engineer is troubleshooting an OSPF adjacency issue between directly connected routers R1 and R2 Which configuration resolves the issue?

- A)


```
R1(config)#interface GigabitEthernet 0/0
R1(config-if)#ospfv3 network broadcast
```
- B)


```
R2(config)#interface GigabitEthernet 0/0
R2(config-if)#ip address 10.10.10.9 255.255.255.252
```
- C)


```
R1(config)#interface GigabitEthernet 0/0
R1(config-if)#ospfv3 10 ipv4 area 0
```
- D)


```
R2(config)#interface GigabitEthernet 0/0
R2(config-if)#no ospfv3 network broadcast
```

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

Answer: B

NEW QUESTION 39

- (Exam Topic 3)

configuration on the hub router meets this requirement?

- A. interface Tunnel0tunnel mode gre multipoint

- B. interface Tunnel0 tunnel mode dvmrp
- C. interface Tunnel0 tunnel mode ipsec ipv4
- D. interface Tunnel0 tunnel mode ip

Answer: A

NEW QUESTION 41

- (Exam Topic 3)

A company is redesigning WAN infrastructure so that all branch sites must communicate via the head office and the head office can directly communicate with each site independently. The network engineer must configure the head office router by considering zero-touch technology when adding new sites in the same WAN infrastructure. Which configuration must be applied to the head office router to meet this requirement?

- Interface Tunnel0
tunnel mode ip
ip nhrp map multicast dynamic
- Interface Tunnel0
tunnel mode dvmrp
ip nhrp redirect
- Interface Tunnel0
tunnel mode ip
ip nhrp redirect
- Interface Tunnel0
tunnel mode gre multipoint
ip nhrp map multicast dynamic

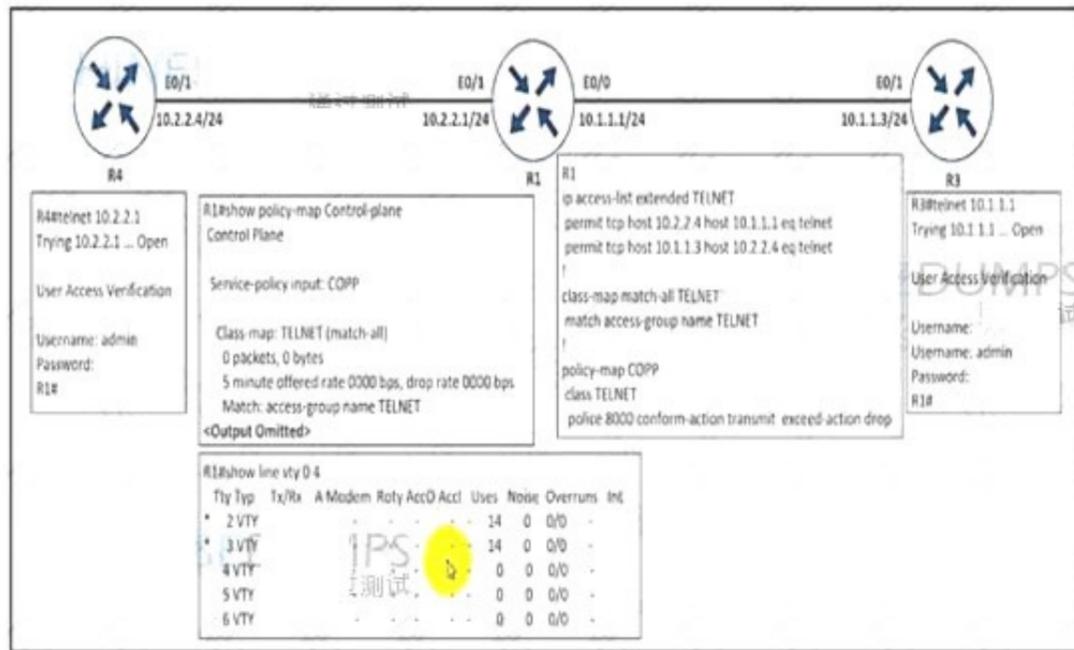
- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: D

NEW QUESTION 44

- (Exam Topic 3)

Refer to the exhibit.



An engineer implemented CoPP to limit Telnet traffic to protect the router CPU. It was noticed that the Telnet traffic did not pass through CoPP. Which configuration resolves the issue?

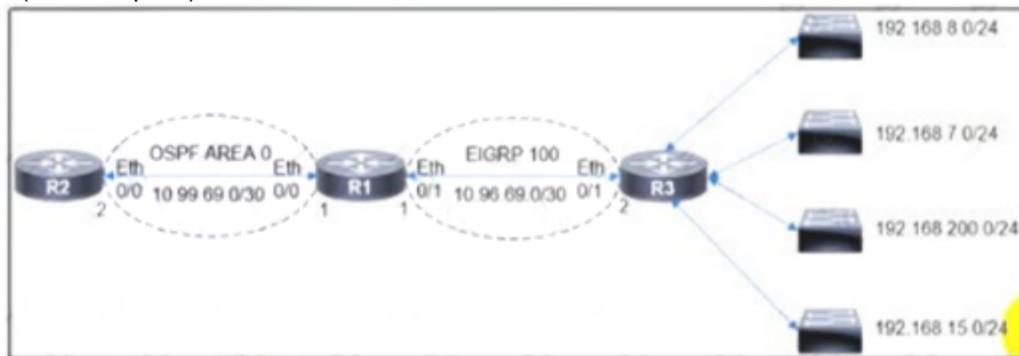
- policy-map COPP
class TELNET
police 8000 conform-action transmit exceed-action transmit
- policy-map COPP
class TELNET
police 8000 conform-action transmit exceed-action transmit violate-action drop
- ip access-list extended TELNET
permit tcp host 10.2.2.1 host 10.2.2.4 eq telnet
permit tcp host 10.1.1.1 host 10.1.1.3 eq telnet
- ip access-list extended TELNET
permit tcp host 10.2.2.4 host 10.2.2.1 eq telnet
permit tcp host 10.1.1.3 host 10.1.1.1 eq telnet

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

Answer: D

NEW QUESTION 47

- (Exam Topic 3)



```

R1#show route-map
route-map FROM->EIGRP, permit, sequence 10
  Match clauses:
    ip address (access-lists): 10
  Set clauses:
    Policy routing matches: 0 packets, 0 bytes
R1#show run | sec router
router eigrp 100
network 10.96.69.0 0.0.0.3
no auto-summary
eigrp router-id 1.1.1.1
router ospf 100
router-id 1.1.1.1
log-adjacency-changes
redistribute eigrp 100 subnets route-map FROM->EIGRP
network 10.99.69.0 0.0.0.3 area 0
R1#show ip access-list
Standard IP access list 10
 10 permit 192.168.16.0, wildcard bits 0.0.3.255
 11 permit 192.168.0.0, wildcard bits 0.0.7.255
 20 deny any
    
```

Refer to the exhibit The engineer configured route redistribution in the network but soon received reports that R2 cannot access 192.168.7.0/24 and 192.168.15.0/24 subnets Which configuration resolves the issue?

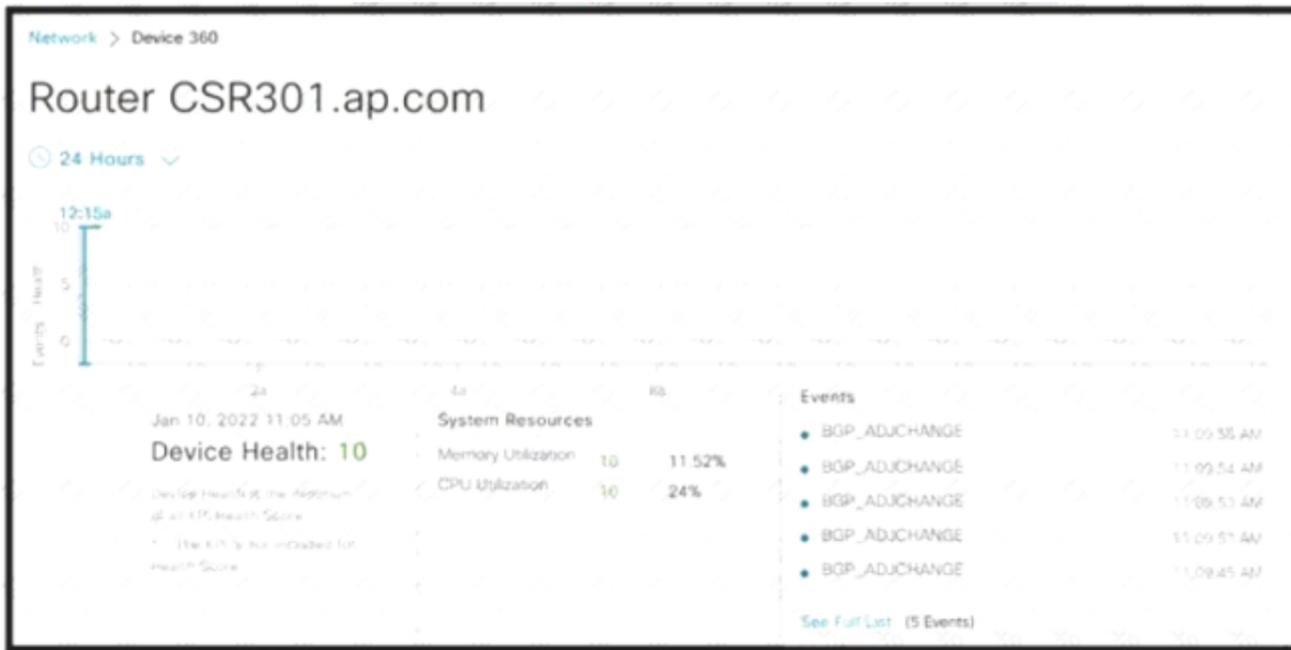
- A. R1(config)#ip access-list standard 10
R1(config-std-nacl)#no 10 permit
R1(config-std-nacl)#no 11 permit
R1(config-std-nacl)#10 permit 192.168.0.0 0.0.3.255
R1(config-std-nacl)#11 permit 192.168.8.0 0.0.3.255
- B. R1(config)#ip access-list standard 10
R1(config-std-nacl)#no 10 permit
R1(config-std-nacl)#no 11 permit
R1(config-std-nacl)#10 permit 192.168.0.0 0.0.7.255
R1(config-std-nacl)#11 permit 192.168.8.0 0.0.3.255
- C. R1(config)#ip access-list standard 10
R1(config-std-nacl)#no 10 permit
R1(config-std-nacl)#no 11 permit
R1(config-std-nacl)#10 permit 192.168.0.0 0.0.3.255
R1(config-std-nacl)#11 permit 192.168.8.0 0.0.7.255
- D. R1(config)#ip access-list standard 10
R1(config-std-nacl)#no 10 permit
R1(config-std-nacl)#no 11 permit
R1(config-std-nacl)#10 permit 192.168.4.0 0.0.3.255
R1(config-std-nacl)#11 permit 192.168.12.0 0.0.3.255

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

Answer: D

NEW QUESTION 51

- (Exam Topic 3)



```
atomic-aggregate, best
Extended Community: RT:1:4099
rx pathid: 0, tx pathid: 0x0
Updated on Jul 28 2022 15:17:49 UTC

router#

router#sh ip bgp 10.140.217.0/24
% Network not in table
router#

router#sh ip bgp 10.140.212.5
BGP routing table entry for 10.140.212.5, version 685
Paths: (1 available, best #1, table default)
  Advertised to update-groups:
    5      11
  Refresh Epoch 1
  65396, (aggregated by 65396 10.140.210.2), imported path from
1:4099:10.140.217.0/24 (Guest_VN)

    10.140.212.5 from 10.140.212.5 (10.140.210.2)
    Origin IGP, metric 0, localpref 100, valid, external,
atomic-aggregate, best
Extended Community: RT:1:4099
rx pathid: 0, tx pathid: 0x0
Updated on Jul 31 2022 18:32:12 UTC
```

Refer to the exhibit. In Cisco DNA Center, a network engineer identifies that BGP-learned networks are repeatedly withdrawn from peers. Which configuration must the engineer apply to resolve the issue?

- A)


```
router bgp 100
  bgp graceful-restart
```
- B)


```
router bgp 100
  bgp dampening
```
- C)


```
route-map Dampening permit 10
  set dampening 15 750 2000 60
router bgp 100
  neighbor 10.140.212.5 route-map Dampening in
```
- D)


```
route-map Dampening permit 10
  set dampening 15 750 2000 60
router bgp 100
  neighbor 10.140.212.5 route-map Dampening out
```

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

Answer: D

NEW QUESTION 56

- (Exam Topic 3)

Which protocol must be secured with MD-5 authentication across the MPLS cloud to prevent hackers from introducing bogus routers?

- A. MP-BGP
- B. LSP
- C. RSVP
- D. LDP

Answer: A

NEW QUESTION 60

- (Exam Topic 3)

The network administrator configured the router for Control Plane Policing to limit OSPF traffic to be policed to 1 Mbps. Any traffic that exceeds this limit must also be allowed at this point for traffic analysis. The router configuration is:

```
access-list 100 permit ospf any any
!
class-map CM-OSPF match access-group 100
!
policy-map PM-COPP class CM-OSPF
police 1000000 conform-action transmit
!
control-plane
service-policy output PM-COPP
```

The Control Plane Policing failed to monitor and police OSPF traffic. Which configuration resolves this issue?

- no access-list 100
access-list 100 permit tcp any any eq 179
access-list 100 permit ospf any any
access-list 101 permit tcp any any range 22 23
!
!
class-map CM-MGMT
no match access-group 100
match access-group 101
!
control-plane
no service-policy output PM-COPP
service-policy input PM-COPP
- No access-list 100
access-list 100 permit tcp any any eq 179
access-list 100 permit tcp any any range eq 22
access-list 100 permit tcp any any range eq 23
access-list 100 permit ospf any any
- control-plane
no service-policy output PM-COPP
service-policy input PM-COPP
- no access-list 100
access-list 100 permit tcp any any eq 179
access-list 100 permit ospf any any
access-list 101 permit tcp any any range 22 23
!
!
class-map CM-MGMT
no match access-group 100
match access-group 101

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

Answer: A

NEW QUESTION 65

- (Exam Topic 3)

```
R1#
*Jan 15 19:45:17.027: TPLUS: Queuing AAA Authentication request 20 for
processing
*Jan 15 19:45:17.031: TPLUS: processing authentication start request id 20
*Jan 15 19:45:17.031: TPLUS: Authentication start packet created for 20()
*Jan 15 19:45:17.031: TPLUS: Using server 172.20.32.1
*Jan 15 19:45:17.035: TPLUS(00000014)/0/NB_WAIT/68937BB0: Started 5 sec
timeout
*Jan 15 19:45:22.035: TPLUS(00000014)/0/NB_WAIT/68937BB0: timed out
*Jan 15 19:45:22.035: TPLUS(00000014)/0/NB_WAIT/68937BB0: timed out, clean
up
*Jan 15 19:45:22.035: TPLUS(00000014)/0/68937BB0: Processing the reply
packet

R2#
R2#telnet 192.168.1.1
Trying 192.168.1.1 ... Open
% Authorization failed.
[Connection to 192.168.1.1 closed by foreign host]
```

Refer to the exhibit A network engineer is troubleshooting an AAA authentication issue for R1 from R2 When an engineer tries to open a telnet connection to R1 it opens the connection but shows a %Authorization failed error message on the terminal and closes the connection silently Which action resolves the issue?

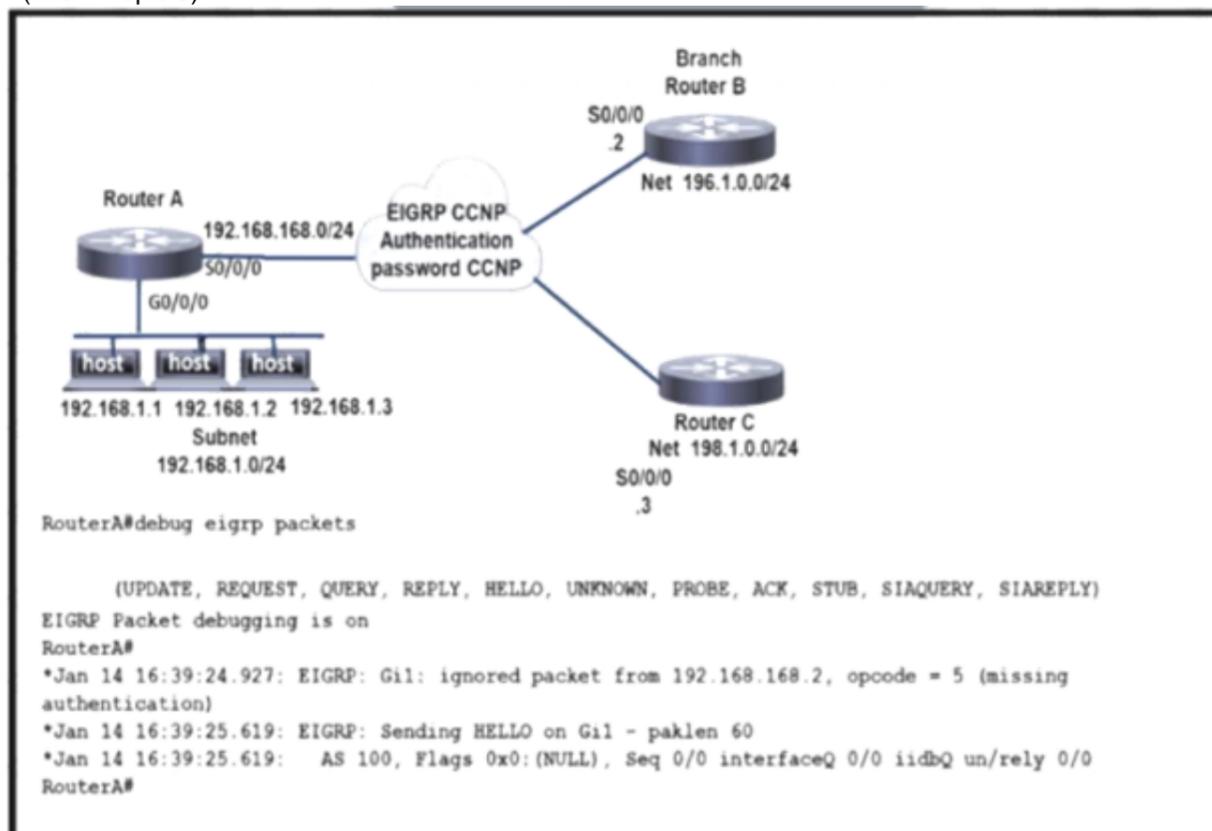
- A. Resolve tacacs+ server host IP authentication miss configuration on the R1 router

- B. Resolve tacacs+ server reachability from the R1 router.
- C. Configure the tacacs+ server host IP on the R1 router
- D. Configure authorization commands in the tacacs* server for the R1 router.

Answer: D

NEW QUESTION 66

- (Exam Topic 3)



Refer to the exhibit. The services at branch B are down. An engineer notices mal rouser A and router B are not exchanging any routes Which configuration resolves the issue on router B?

A)

```

router eigrp 100
 network 192.168.168.0

key chain CCNP
 key 1
  key-string EIGRP

interface serial0/0/0
 ip address 192.168.168.2 255.255.255.0
 ip authentication mode eigrp 100 md5
 ip authentication key-chain eigrp 100 EIGRP
 negotiation auto
    
```

B)

```

router eigrp 100
 network 192.168.168.0

key chain EIGRP
 key 1
  key-string CCNP

interface serial0/0/0
 ip address 192.168.168.2 255.255.255.0
 ip authentication mode eigrp 100 md5
 negotiation auto
    
```

C)

```

router eigrp 100
 network 192.168.168.0

key chain EIGRP
 key 1
  key-string CCNP

interface serial0/0/0
 ip address 192.168.168.2 255.255.255.0
 ip authentication mode eigrp 100 md5
 ip authentication key-chain eigrp 100 EIGRP
 negotiation auto
    
```

D)

```
router eigrp 100
 network 192.168.168.0

key chain EIGRP
 key 1
 key-string CCNP

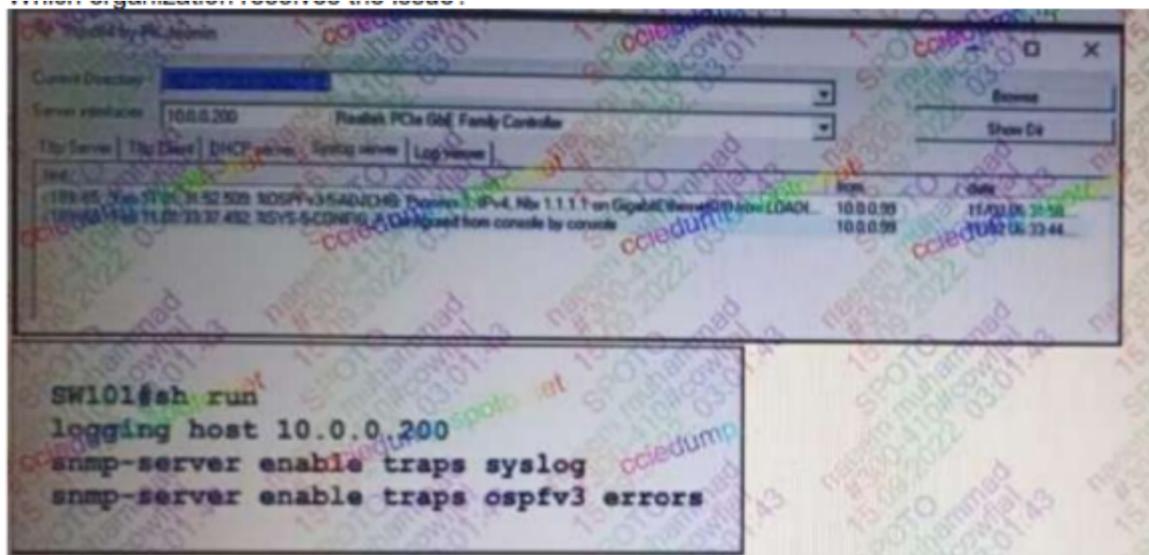
interface serial0/0/0
 ip address 192.168.168.2 255.255.255.0
 ip authentication key-chain eigrp 100 EIGRP
 negotiation auto
```

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

Answer: C

NEW QUESTION 71

- (Exam Topic 3)
Refer to the exhibit.



An engineer configures SW101 to send OSPFv3 interfaces state change messages to the server. However, only some OSPFv3 errors are being recorded. which organization resolves the ..?

- A. snmp-server enable traps ospfv3 state-change if-state-change
- B. snmp-server enable traps ospfv3 state-change restart-status-change
- C. snmp-server enable traps ospfv3 state-change neighbor-state-change.
- D. snmp-server enable traps ospfv3 state-change if-state-change neighbor-state-change

Answer: D

NEW QUESTION 76

- (Exam Topic 3)
Refer to the exhibit.



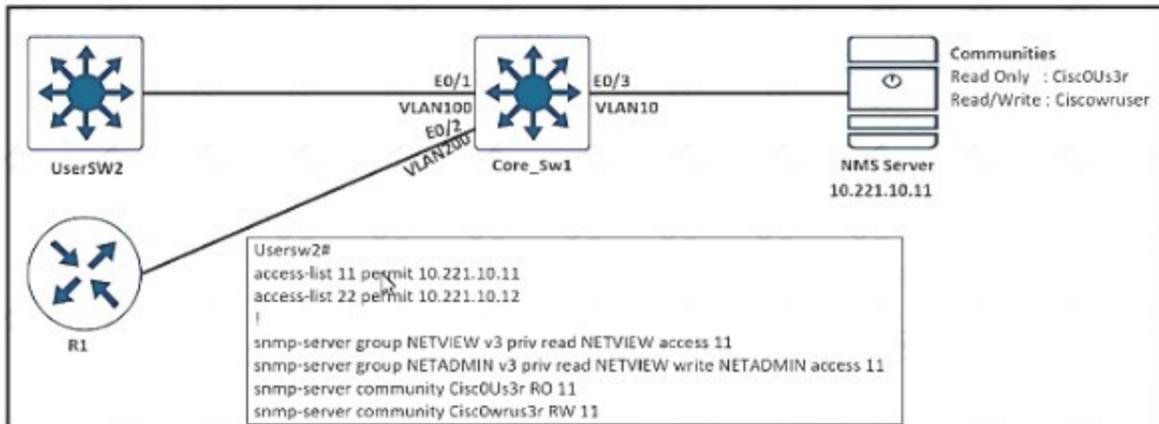
Which action restores OSPF adjacency between R1 and R2?

- A. Change the IP MTU of R1 Fa1/0 to 1300
- B. Change the IP MTU of R2 Fa0/0 to 1300
- C. Change the IP MTU of R1 Fa1/0 to 1500
- D. Change the IP MTU of R2 Fa0/0 to 1500

Answer: D

NEW QUESTION 80

- (Exam Topic 3)



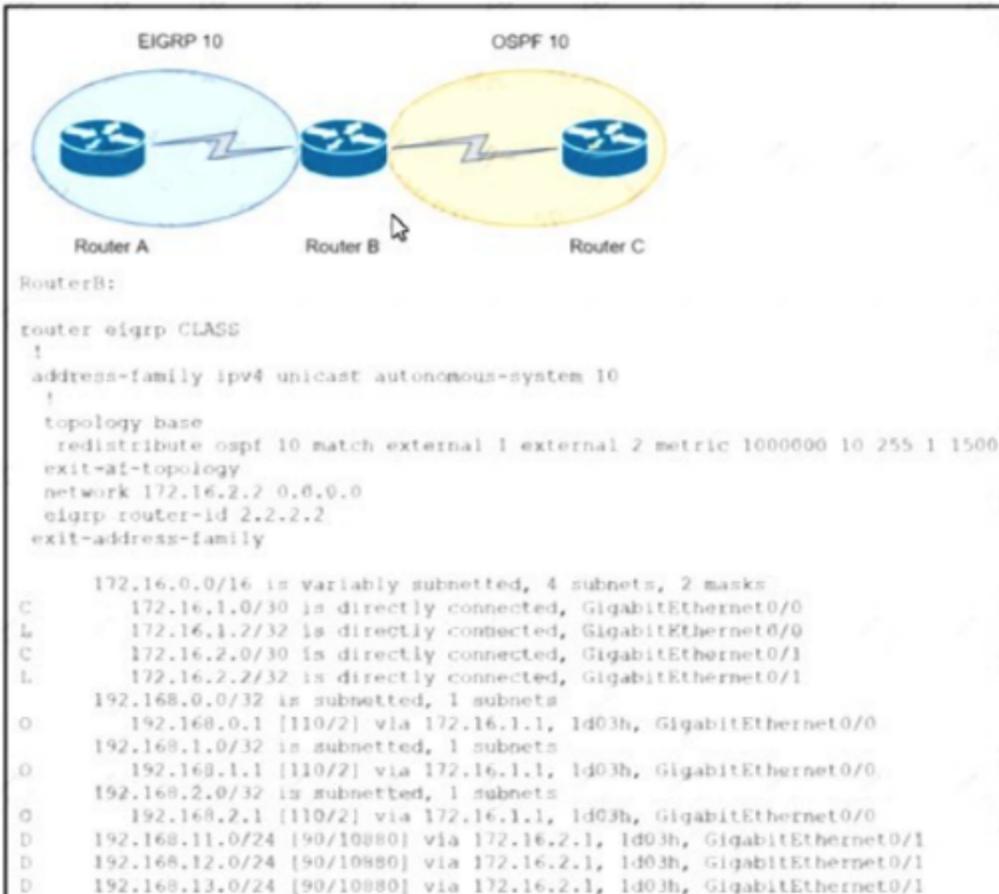
Refer to the exhibit. An engineer configured SNMP Communities on UserSW2 switch, but the SNMP server cannot upload modified configurations to the switch. Which configuration resolves this issue?

- A. snmp-server community Ciscowruser RW 11
- B. snmp-server group NETADMIN v3 priv read NETVIEW write NETADMIN access 22
- C. snmp-server community CiscOU3r RW 11
- D. snmp-server group NETVIEW v2c priv read NETVIEW access 11

Answer: A

NEW QUESTION 83

- (Exam Topic 3)



Refer to the exhibit. An engineer configured route exchange between two different companies for a migration project EIGRP routes were learned in router C but no OSPF routes were learned in router A. Which configuration allows router A to receive OSPF routes?

- A. (config-router-af)#redistribute ospf 10 1000000 10 255 1 1500
- B. (config-router-af-topology)#redistribute ospf 10 metric 1000000 10 255 1 1500
- C. (config-router-af-topology)#redistribute connected
- D. (config-router-af-topology)#no redistribute ospf 10 match external 1 external 2 metric 1000000 10 255 1 1500

Answer: B

NEW QUESTION 86

- (Exam Topic 3)

A company is expanding business by opening 35 branches over the Internet. A network engineer must configure DMVPN at the branch routers to connect with the hub router and allow NHRP to add spoke routers securely to the multicast NHRP mappings automatically Which configuration meets this requirement at the hub router?

A)

```
interface Tunnel0
ip address 10.0.0.1 255.255.255.0
ip nhrp authentication KEY1
ip nhrp nhs dynamic
ip nhrp network-id 10
tunnel mode mgre auto
```

B)

```
interface Tunnel0
ip address 10.0.0.1 255.255.255.0
ip nhrp authentication KEY1
ip nhrp registration no-unique
ip nhrp network-id 10
tunnel mode gre nmba
```

C)

```
interface Tunnel0
ip address 10.0.0.1 255.255.255.0
ip nhrp authentication KEY1
ip nhrp map multicast dynamic
ip nhrp network-id 10
tunnel mode gre multipoint
```

D)

```
interface Tunnel0
ip address 10.0.0.1 255.255.255.0
ip nhrp authentication KEY1
ip nhrp map multicast 224.0.0.0
ip nhrp network-id 10
tunnel mode gre ipv4
```

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

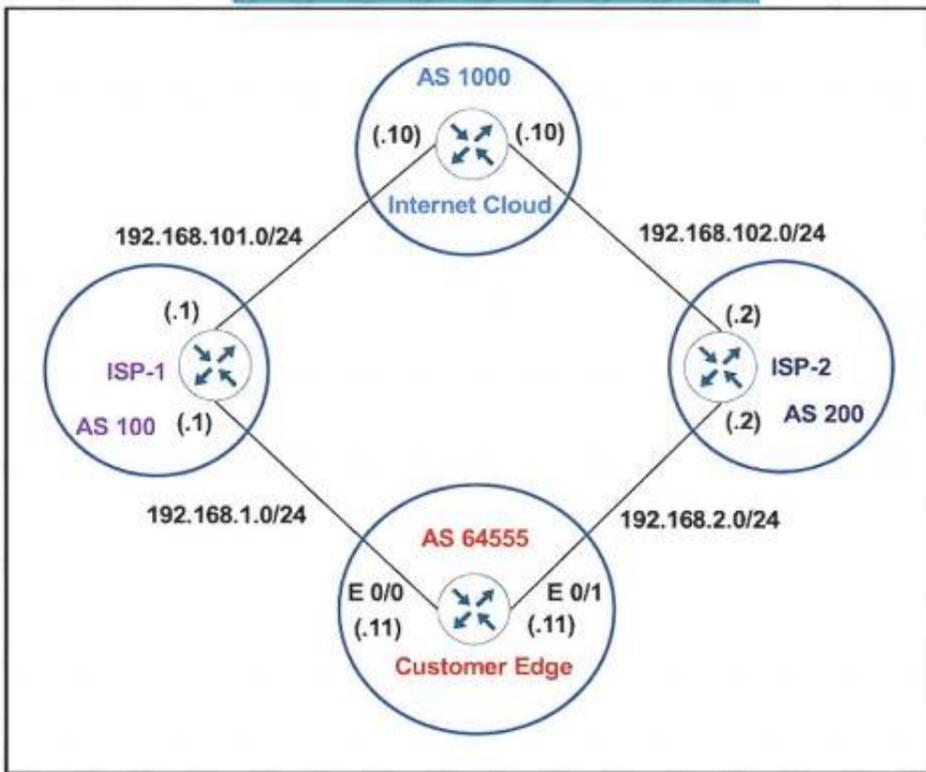
Answer: C

Explanation:

The command "ip nhrp map multicast dynamic" allows NHRP to automatically add spoke routers to the multicast NHRP mappings.

NEW QUESTION 87

- (Exam Topic 3)



Refer to the exhibit. The Customer Edge router wants to use AS 100 as the preferred ISP for all external routes and ISP-2 as a backup.

Customer-Edge

```
route-map SETAS
set as-path prepend 111
!
router bgp 64555
neighbor 192.168.1.1 remote-as 100
neighbor 192.168.2.2 remote-as 200
neighbor 192.168.2.2 route-map SETAS in
```

After this configuration, all the backup routes have disappeared from the BGP table on the Customer Edge router. Which set of configurations resolves the issue on the Customer Edge router?

A)

```
route-map SETAS
set as-path prepend 111
!
router bgp 64555
neighbor 192.168.2.2 remote-as 100
neighbor 192.168.1.1 remote-as 200
neighbor 192.168.1.1 route-map SETAS in
```

B)

```
route-map SETAS
set as-path prepend 200
!
router bgp 64555
neighbor 192.168.1.1 remote-as 100
neighbor 192.168.2.2 remote-as 200
neighbor 192.168.2.2 route-map SETAS in
```

C)

```
route-map SETAS
set as-path prepend 200
!
router bgp 64555
neighbor 192.168.1.1 remote-as 100
neighbor 192.168.2.2 remote-as 200
neighbor 192.168.2.2 route-map SETAS out
```

D)

```
route-map SETAS
set as-path prepend 111
!
router bgp 64555
neighbor 192.168.1.1 remote-as 100
neighbor 192.168.2.2 remote-as 200
neighbor 192.168.2.2 route-map SETAS out
```

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

Answer: C

NEW QUESTION 92

- (Exam Topic 3)

Refer to the exhibit.

```
ip prefix-list DMZ-STATIC seq 5 permit 10.1.1.0/24
!
route-map DMZ permit 10
  match ip address prefix-list DMZ-STATIC
!
router ospf 1
network 0.0.0.0 0.0.0.0 area 0
redistribute static route-map DMZ
!
ip route 10.1.1.0 255.255.255.0 10.20.20.1
```

The static route is not present in the routing table of an adjacent OSPF neighbor router. Which action resolves the issue?

- A. Configure the next hop of 10.20.20.1 in the prefix list DMZ-STATIC
- B. Configure the next-hop interface at the end of the static router for it to get redistributed
- C. Configure a permit 20 statement to the route map to redistribute the static route
- D. Configure the subnets keyword in the redistribution command

Answer: D

NEW QUESTION 96

- (Exam Topic 3)

```

PE1# show run | sec router bgp
router bgp 65000
  bgp log-neighbor-changes
  neighbor 10.255.255.3 remote-as 65000
  neighbor 10.255.255.3 update-source Loopback0
  
```

```

PE1# debug ip top transactions
PE1# debug ip icmp
[...snip...]
*Feb 22 14:04:12.374: TCP: sending SYN, seq 379810712, ack 0
*Feb 22 14:04:12.374: TCP0: Connection to 10.255.255.3:179,
advertising MSS 1460
*Feb 22 14:04:12.374: TCP0: state was CLOSED -> SYNSENT [21381 -
> 10.255.255.3(179)]
*Feb 22 14:04:12.375: ICMP: dst (10.255.255.1) administratively
prohibited unreachable rcv from 10.0.12.2
*Feb 22 14:04:12.375: TCP0: ICMP destination unreachable
received
*Feb 22 14:04:12.375: Released port 21381 in Transport Port
Agent for TCP IP type 1 delay 240000
*Feb 22 14:04:12.375: TCP0: state was SYNSENT -> CLOSED [21381 -
> 10.255.255.3(179)]
*Feb 22 14:04:12.375: TCB 0xE35A92B8 destroyed
  
```

Refer to the exhibit. The administrator is troubleshooting a BGP peering between PE1 and PE3 that is unable to establish. Which action resolves the issue?

- A. P2 must have a route to PE3 to establish a BGP session to PE1
- B. Disable sending ICMP unreachables on P2 to allow PE1 to establish a session with PE3
- C. Ensure that the PE3 loopback address is used as a source for BGP peering to PE1
- D. Remove the traffic filtering rules on P2 blocking the BGP communication between PE1 and PE3

Answer: C

NEW QUESTION 99

- (Exam Topic 3)

What are the two reasons for RD and VPNv4 addresses in an MPLS Layer 3 VPN? (Choose two.)

- A. RD is prepended to each prefix to make routes unique.
- B. VPN RT communities are used to identify customer unique routes.
- C. When the PE redistributes customer routes into MP-BGP, they must be unique.
- D. They are on a CE device to use for static configuration.
- E. They are used for a BGP session with the CE device.

Answer: AC

NEW QUESTION 101

- (Exam Topic 3)

```

100.0.0.0/32 is subnetted, 3 subnets
C   100.1.1.1 is directly connected, Loopback0
D   100.2.2.2 [90/156160] via 10.1.1.2, 00:00:46, FastEthernet0/0
D   100.3.3.3 [90/158720] via 10.1.1.14, 00:00:44, FastEthernet1/0
    [90/158720] via 10.1.1.2, 00:00:44, FastEthernet0/0
10.0.0.0/8 is variably subnetted, 13 subnets, 4 masks
D   10.1.1.8/30 [90/30720] via 10.1.1.14, 00:00:44, FastEthernet1/0
C   10.1.1.12/30 is directly connected, FastEthernet1/0
C   10.1.1.0/30 is directly connected, FastEthernet0/0
D   10.1.1.4/30 [90/30720] via 10.1.1.2, 00:00:45, FastEthernet0/0
C   10.100.1.40/32 is directly connected, Loopback40
D EX 10.1.1.80/29 [170/33280] via 10.1.1.14, 00:00:45, FastEthernet1/0
    [170/33280] via 10.1.1.2, 00:00:45, FastEthernet0/0
C   10.100.1.50/32 is directly connected, Loopback50
C   10.100.1.10/32 is directly connected, Loopback10
S   10.100.1.0/24 is a summary, 00:00:48, Null0
C   10.100.1.30/32 is directly connected, Loopback30
C   10.100.1.20/32 is directly connected, Loopback20
C   10.200.1.0/24 is directly connected, FastEthernet0/1
D EX 10.247.10.0/30 [170/2174976] via 10.1.1.14, 00:00:46, FastEthernet1/0
    [170/2174976] via 10.1.1.2, 00:00:46, FastEthernet0/0
  
```

Refer to the exhibit. R1 must advertise all loopback interfaces IP addresses to neighbors, but EIGRP neighbors receive a summary route. Which action resolves the issue?

- A. Redistribute connected routes into EIGRP Enable
- B. EIGRP on loopback Interfaces.
- C. Disable auto summarization on R1.
- D. Remove the 10.100.1.0/24 static route.

Answer: D

NEW QUESTION 105

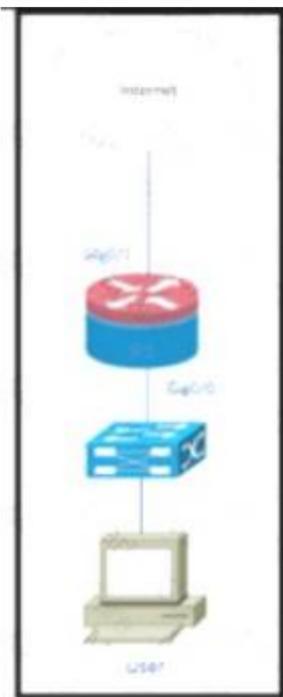
- (Exam Topic 3)

```
R1#show time-range

time-range entry: timer (active)
  periodic weekend 9:00 to 17:00
  used in: IP ACL entry
  used in: IP ACL entry

R1#show ip access-list interface gig0/0

Extended IP access list NO_Internet in
 10 deny tcp any any eq www time-range timer (active)
 20 deny tcp any any eq 443 time-range timer (active)
 30 permit ip any any
```



Refer to the exhibit. Users on a call center report that they cannot browse the internet on Saturdays during the afternoon. Which configuration resolves the issue?
 A)

- interface gig0/0**
ip access-group NO_Internet out
- B)
ip access-list extended NO_Internet
15 permit tcp any any eq www
- C)
no time-range timer
- D)
time-range timer
no periodic weekend 9:00 to 17:00
periodic weekend 17:00 to 23:59

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

Answer: D

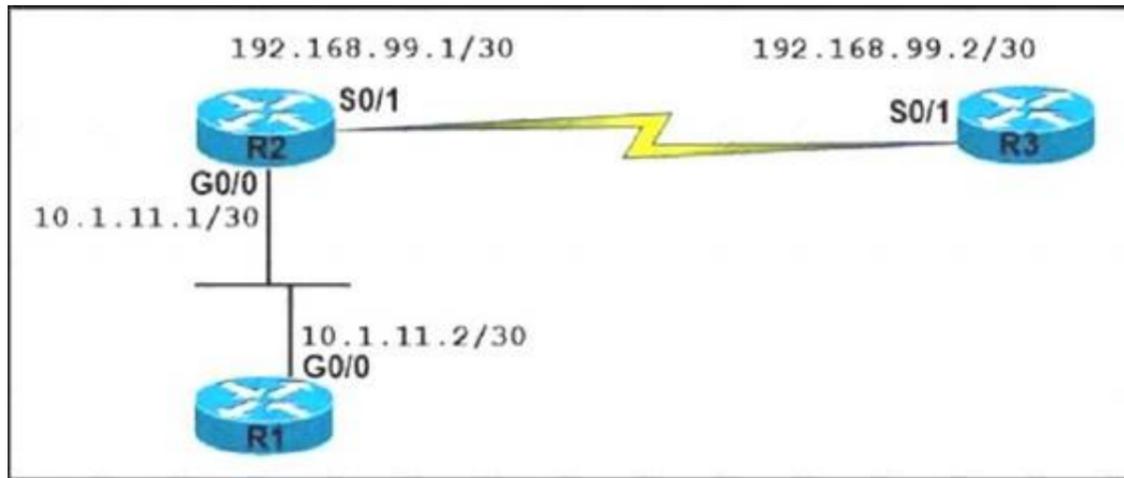
NEW QUESTION 106

- (Exam Topic 3)

Refer to the exhibit.

```
R2# show ip ospf neighbor
Neighbor ID   Pri  State           Dead Time   Address      Interface
192.168.99.2  1    EXCHANGE/      00:00:36   192.168.99.1 Serial0/1
router-6#

R3# show ip ospf neighbor
Neighbor ID   Pri  State           Dead Time   Address      Interface
192.168.99.1  1    EXSTART/       00:00:33   192.168.99.2 Serial0/1
```



An OSPF neighbor relationship between R2 and R3 is showing stuck in EXCHANGE/EXSTART state. The neighbor is established between R1 and R2. The network engineer can ping from R2 to R3 and vice versa, but the neighbor is still down. Which action resolves the issue?

- A. Restore the Layer 2/Layer 3 connectivity issue in the ISP network.
- B. Match MTU on both router interfaces or ignore MTU.
- C. Administrative "shut then no shut" both router interfaces.
- D. Enable OSPF on the interface, which is required.

Answer: B

Explanation:

After two OSPF neighboring routers establish bi-directional communication and complete DR/BDR election (on multi-access networks), the routers transition to the exstart state. In this state, the neighboring routers establish a master/slave relationship and determine the initial database descriptor (DBD) sequence number to use while exchanging DBD packets.

Neighbors Stuck in Exstart/Exchange State

The problem occurs most frequently when attempting to run OSPF between a Cisco router and another vendor's router. The problem occurs when the maximum transmission unit (MTU) settings for neighboring router interfaces don't match. If the router with the higher MTU sends a packet larger than the MTU set on the neighboring router, the neighboring router ignores the packet.

NEW QUESTION 111

- (Exam Topic 3)

```

interface GigabitEthernet0/0
description FTP SERVER
no ip address
ipv6 address 2001:DB8::F/33
ipv6 enable
ipv6 traffic-filter FTP-SERVER in
!
interface GigabitEthernet0/1
description FTP CLIENT
no ip address
ipv6 address 2001:DB8:8000::F/33
ipv6 enable
ipv6 traffic-filter FTP-CLIENT in

ipv6 access-list FTP-CLIENT
permit tcp host 2001:DB8:8000::1 host 2001:DB8::1 eq ftp
permit tcp host 2001:DB8:8000::1 host 2001:DB8::1 eq ftp-data

ipv6 access-list FTP-CLIENT
permit tcp host 2001:DB8:8000::1 host 2001:DB8::1 eq ftp
permit tcp host 2001:DB8:8000::1 host 2001:DB8::1 eq ftp-data
!
ipv6 access-list FTP-SERVER
permit tcp host 2001:DB8::1 host 2001:DB8:8000::1 eq ftp established
permit tcp host 2001:DB8::1 host 2001:DB8:8000::1 eq ftp-data established
    
```

Refer to the exhibit. When an FTP client attempts to use passive FTP to connect to the FTP server, the file transfers fail. Which action resolves the issue?

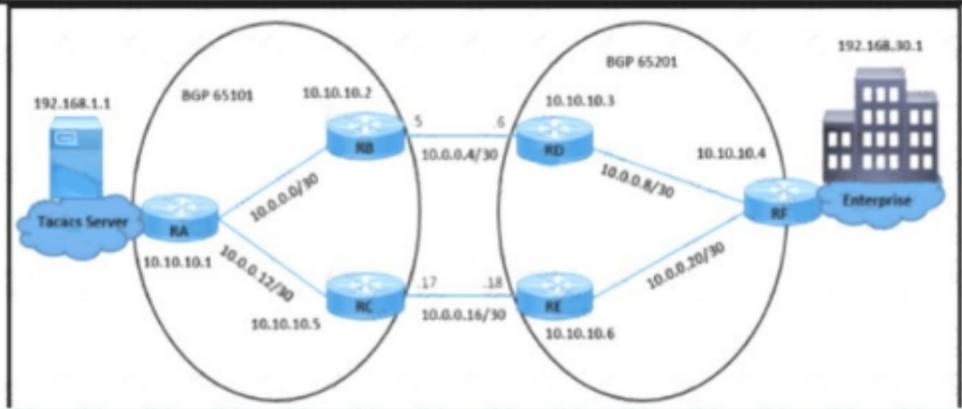
- A. Configure active FTP traffic.
- B. Modify FTP-SERVER access list to remove established at the end.
- C. Modify traffic filter FTP-SERVER in to the outbound direction.
- D. Configure to permit TCP ports higher than 1023.

Answer: D

NEW QUESTION 116

- (Exam Topic 3)

```
RF#traceroute 192.168.1.1
 1 10.0.0.9 40 msec 28 msec 24 msec
 2 * * *
 3 * * *
RE#show ip prefix-list detail
Prefix-list with the last deletion/insertion: Customer
ip prefix-list Customer:
  count: 2, range entries: 1, sequences: 5 - 10, refcount: 3
  seq 5 deny 192.168.1.1/32 (hit count: 5, refcount: 1)
  seq 10 permit 0.0.0.0/0 le 32 (hit count: 26, refcount: 1)
RC#show ip prefix-list detail
Prefix-list with the last deletion/insertion: Customer
ip prefix-list Customer:
  count: 1, range entries: 1, sequences: 10 - 10, refcount: 4
  seq 10 permit 0.0.0.0/0 le 32 (hit count: 7, refcount: 1)
```



Refer to the exhibit The enterprise users fail to authenticate with the TACACS server when a direct fiber link fails between RB and RD The NOC team observes

- > Users connected on AS65201 fail to authenticate with TACACS server 192.168.1.1
- > Users connected on AS65101 successfully authenticate with TACACS server 192.168.1.1 \
- > All AS65101 and AS65201 users are configured to authenticate with the TACACS server

Which configuration resolves the issue?

A)

```
RC(config)# ip prefix-list Customer seq 5 permit 192.168.30.1/32
```

B)

```
RC(config)#router bgp 65101
RC(config-router)# neighbor 10.0.0.18 prefix-list Customer in
```

C)

```
RF(config)#no ip prefix-list Customer seq 5 deny 192.168.1.1/32
```

D)

```
RF(config)#router bgp 65201
RF(config-router)# neighbor 10.0.0.17 prefix-list Customer out
```

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

Answer: C

NEW QUESTION 121

- (Exam Topic 3)

```
R1#show bgp ipv6 unicast 2001:db8::1/128
BGP routing table entry for 2001:db8::1/128, version 3
Paths: (1 available, best #1, table Global-IPv6-Table)
Not advertised to any peer
Local
 2001:db8:33:33::33 (metric 128) from 2001:db8:11:11::11 (1.1.1.1)
  Origin IGP, metric 0, localpref 100, valid, internal, best
  Originator: 3.3.3.3, Cluster list: 1.1.1.1
```

Refer to the exhibit. An engineer examines the BGP update for the IPv6 prefix 2001:db8::1/128. which should have been summarized into a /64 prefix. Which sequence of actions achieves the summarization?

- A. R1 is a route reflector client of a RR with a router ID of 1.1.1.1. and the originator of the prefix has a router ID of 3.3.3.3. Both routers belong to different AS
- B. The prefix is not advertised to any peer and must be advertised using the network statement on R3.
- C. R1 is a route reflector with a router ID of 3.3.3.3. and the originator of the prefix is a route reflector client, which has a router ID of 3.3.3.3. Both routers belong to the same AS Configure an aggregate address on the router with ID 1.1.1.1 for the prefix
- D. R1 is a route reflector with a router ID of 1.111. and the originator of the prefix is a route reflector client, which has a router ID of 3.3.3.3. Both routers belong to

the same AS Configure an aggregate address on the router with ID 1.1.1.1 for the prefix

E. R1 is a route reflector client of a RR with a router ID of 1.1.1.1. and the originator of the prefix has a router ID of 3.3.3.3. Both routers belong to the same A
 F. Configure an aggregate address on the router with ID 3 3.3.3 for the prefix.

Answer: D

NEW QUESTION 124

- (Exam Topic 3)

```

S1#ping 10.0.0.1
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.0.0.1, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/1 ms

S1#telnet 10.0.0.1
Trying 10.0.0.1 ... Open

[Connection to 10.0.0.1 closed by foreign host]

R3#
hostname R3
!
enable password cisco
!
no aaa new-model
!
username admin password 0 cisco
!
interface Ethernet0/1
ip address 10.0.0.1 255.255.252.252
!
line con 0
logging synchronous
line aux 0
line vty 0 4
password cisco
login
no exec
transport input all
!
end
    
```

Refer to the exhibit. A network engineer cannot remote access R3 using Telnet from switch S1. Which action resolves the issue?

- A. Allow the inbound connection via the exec command on R3.
- B. Add the transport input telnet command on R3.
- C. Allow to use the ssh -l admin 10.0.0.1 command on the switch.
- D. Add the login admin command on the switch.

Answer: A

NEW QUESTION 129

- (Exam Topic 3)

Refer to the exhibit.

```

RR
router bgp 100
neighbor 10.1.1.1 remote-as 100
neighbor 10.1.2.2 remote-as 100
neighbor 10.1.3.3 remote-as 100

ASBR2
router bgp 100
neighbor 10.1.1.4 remote-as 100

ASBR3
router bgp 100
neighbor 10.1.2.4 remote-as 100

ASBR4
router bgp 100
neighbor 10.1.3.4 remote-as 100
    
```

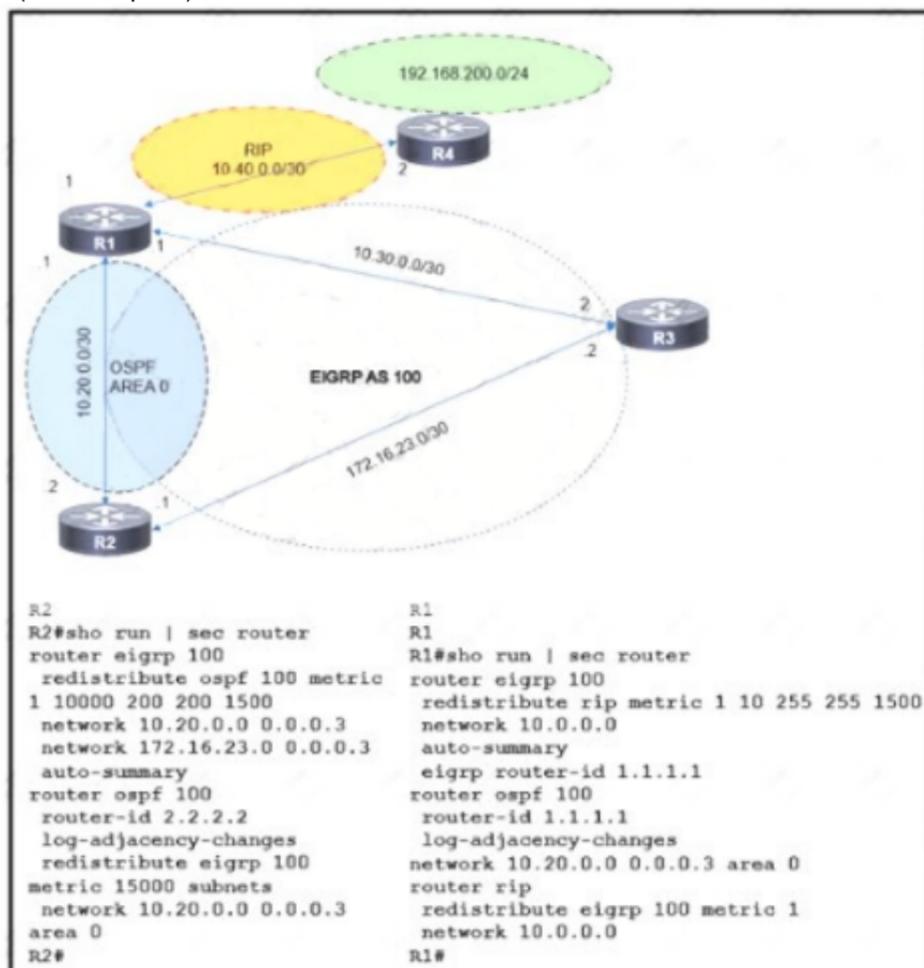
The administrator configured the network device for end-to-end reachability, but the ASBRs are not propagation routes to each other. Which set of configuration resolves this issue?

- A. router bgp 100 neighbor 10.1.1.1 route-reflector-client neighbor 10.1.2.2 route-reflector-client neighbor 10.1.3.3 route-reflector-client
- B. router bgp 100 neighbor 10.1.1.1 next-hop-self neighbor 10.1.2.2 next-hop-self neighbor 10.1.3.3 next-hop-self
- C. router bgp 100 neighbor 10.1.1.1 update-source Loopback0 neighbor 10.1.2.2 update-source Loopback0 neighbor 10.1.3.3 update-source Loopback0
- D. router bgp 100 neighbor 10.1.1.1 ebgp-multihop neighbor 10.1.2.2 ebgp-multihop neighbor 10.1.3.3 ebgp-multihop

Answer: A

NEW QUESTION 130

- (Exam Topic 3)



Refer to the exhibit The route to 192 168 200 0 is flapping between R1 and R2 Which set of configuration changes resolves the flapping route?

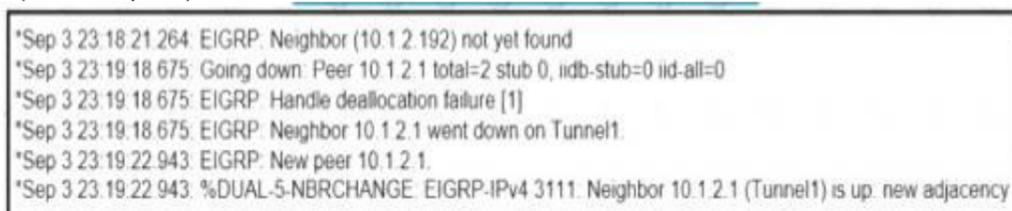
- R2(config)#router ospf 100
R2(config-router)#no redistribute eigrp 100
R2(config-router)#redistribute eigrp 100 metric 1 subnets
- R1(config)#no router rip
R1(config)#ip route 192.168.200.0 255.255.255.0 10.40.0.2
- R2(config)#router eigrp 100
R2(config-router)#no redistribute ospf 100
R2(config-router)#redistribute rip
- R1(config)#router ospf 100
R1(config-router)#redistribute rip metric 1 metric-type 1 subnets

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

Answer: D

NEW QUESTION 132

- (Exam Topic 3)



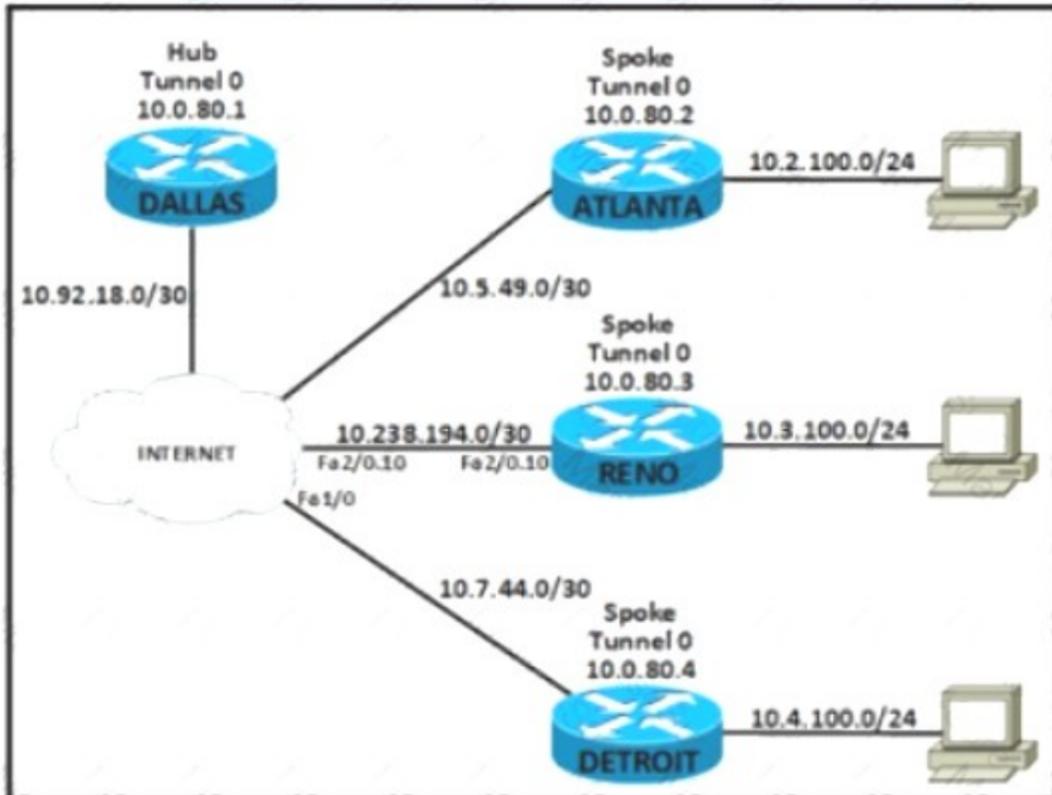
Refer to the exhibit. Which configuration command establishes an EIGRP neighbor adjacency between the hub and spoke?

- A. connected 10.1.2.192 command on spoke router
- B. network 10.1.2.192 command on spoke router
- C. eigrp-peer 10.1.2.192 command on the hub router
- D. neighbor 10.1.2.192 command on hub router

Answer: D

NEW QUESTION 133

- (Exam Topic 3)



Refer to the exhibit An engineer must connect the Reno and Detroit spokes using DMVPN phase 2 Hub tunnel configuration is

Dallas

```
interface Tunnel0
ip address 10.0.80.1 255.255.255.0
ip nhrp authentication cisco123
ip nhrp map multicast dynamic
ip nhrp network-id 5
tunnel source Serial0/0
tunnel mode gre multipoint
```

Which configuration accomplishes the task?

Reno

```
interface Tunnel0
ip address 10.0.80.3 255.255.255.0
ip nhrp authentication cisco321
ip nhrp map multicast 10.92.18.2
ip nhrp map 10.0.80.1 10.92.18.2
ip nhrp network-id 5
ip nhrp nhs 10.0.80.1
tunnel source 10.238.194.2
tunnel mode gre multipoint
```

Detroit

```
interface Tunnel0
ip address 10.0.80.4 255.255.255.0
ip nhrp authentication cisco321
ip nhrp map 10.0.80.1 10.92.18.2
ip nhrp map multicast 10.92.18.2
ip nhrp network-id 5
ip nhrp nhs 10.0.80.1
tunnel source 10.7.44.2
tunnel mode gre multipoint
```

Reno

```
interface Tunnel0
ip address 10.0.80.3 255.255.255.0
ip nhrp authentication cisco123
ip nhrp map multicast 10.92.18.2
ip nhrp map 10.92.18.2 10.0.80.1
ip nhrp network-id 5
ip nhrp nhs 10.0.80.1
tunnel source 10.238.194.2
tunnel mode gre multipoint
```

Detroit

```
interface Tunnel0
ip address 10.0.80.4 255.255.255.0
ip nhrp authentication cisco123
ip nhrp map 10.92.18.2 10.0.80.1
ip nhrp map multicast 10.92.18.2
ip nhrp network-id 5
ip nhrp nhs 10.0.80.1
tunnel source 10.7.44.2
tunnel mode gre multipoint
```

Reno
interface Tunnel0
ip address 10.0.80.3 255.255.255.0
ip nhrp authentication cisco123
ip nhrp map broadcast 10.92.18.2
ip nhrp map 10.0.80.1 10.92.18.2
ip nhrp network-id 5
ip nhrp nhs 10.0.80.1
tunnel source 10.238.194.2
tunnel mode gre multipoint

Detroit
interface Tunnel0
ip address 10.0.80.4 255.255.255.0
ip nhrp authentication cisco123
ip nhrp map 10.0.80.1 10.92.18.2
ip nhrp map broadcast 10.92.18.2
ip nhrp network-id 5
ip nhrp nhs 10.0.80.1
tunnel source 10.7.44.2
tunnel mode gre multipoint

Reno
interface Tunnel0
ip address 10.0.80.3 255.255.255.0
ip nhrp authentication cisco123
ip nhrp map multicast 10.92.18.2
ip nhrp map 10.0.80.1 10.92.18.2
ip nhrp network-id 5
ip nhrp nhs 10.0.80.1
tunnel source 10.238.194.2
tunnel mode gre multipoint

Detroit
interface Tunnel0
ip address 10.0.80.4 255.255.255.0
ip nhrp authentication cisco123
ip nhrp map 10.0.80.1 10.92.18.2
ip nhrp map multicast 10.92.18.2
ip nhrp network-id 5
ip nhrp nhs 10.0.80.1
tunnel source 10.7.44.2
tunnel mode gre multipoint

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

Answer: C

NEW QUESTION 137

- (Exam Topic 3)

```
R4#show ip flow export
Flow export v9 is enabled for main cache
Export source and destination details :
VRF ID : Default
Source(1)      10.0.0.10 (GigabitEthernet2/0)
Destination(1) 192.168.10.1 (656)
Version 9 flow records
254 flows exported in 41 udp datagrams
0 flows failed due to lack of export packet
0 export packets were sent up to process level
41 export packets were dropped due to no fib
0 export packets were dropped due to adjacency issues
0 export packets were dropped due to fragmentation failures
0 export packets were dropped due to encapsulation fixup failures

R4#show ip flow interface
GigabitEthernet2/0
ip flow ingress
```



Refer to the exhibit An enterprise operations team must monitor all application server traffic in the data center The team finds that traffic coming from the hub site from R3 and R6 rs monitored successfully but traffic destined to the application server is not monitored Which action resolves the issue?

A)

```
R4(config)#int gigabitEthernet 1/0
R4(config-if)#ip flow ingress
```

B)

```
R1(config)#int gigabitEthernet 0/0
R1(config-if)#ip flow egress
```

C)

```
R4(config)#int gigabitEthernet 2/0
R4(config-if)#ip flow egress
```

D)

```
R3(config)#int gigabitEthernet 0/0
R3(config-if)#ip flow egress
```

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

Answer: C

NEW QUESTION 142

- (Exam Topic 3)

```

Router#show ip bgp vpnv4 rd 1100:1001:10:30:116:0/23
BGP routing table entry for 1100:1001:10:30:116:0/23, version 26765275
Paths: (9 available, best #8, no table)
Advertised to update-groups:
 1 2 3
(65001 64955 65003) 65089, (Received from a RR-client)
172.16.254.226 (metric 20645) from 172.16.224.236 (172.16.224.236)
  Origin IGP, metric 0, localpref 100, valid, confed-internal
  Extended Community: RT 1100:1001
  mpis labels in/out nolabel/362
(65008 64955 65003) 65089
172.16.254.226 (metric 20645) from 10.131.123.71 (10.131.123.71)
  Origin IGP, metric 0, localpref 100, valid, confed-external
  Extended Community: RT 1100:1001
  mpis labels in/out nolabel/362
(65001 64955 65003) 65089
172.16.254.226 (metric 20645) from 172.16.216.253 (172.16.216.253)
  Origin IGP, metric 0, localpref 100, valid, confed-external
  Extended Community: RT 1100:1001
  mpis labels in/out nolabel/362
(65001 64955 65003) 65089
172.16.254.226 (metric 20645) from 172.16.216.252 (172.16.216.252)
  Origin IGP, metric 0, localpref 100, valid, confed-external
  Extended Community: RT 1100:1001
  mpis labels in/out nolabel/362
(64955 65003) 65089
172.16.254.226 (metric 20645) from 10.77.255.57 (10.77.255.57)
  Origin IGP, metric 0, localpref 100, valid, confed-external
  Extended Community: RT 1100:1001
  mpis labels in/out nolabel/362
(64955 65003) 65089
172.16.254.226 (metric 20645) from 10.57.255.11 (10.57.255.11)
  Origin IGP, metric 0, localpref 100, valid, confed-external, best
  Extended Community: RT 1100:1001
  mpis labels in/out nolabel/362

(64955 65003) 65089
172.16.254.226 (metric 20645) from 172.16.224.253 (172.16.224.253)
  Origin IGP, metric 0, localpref 100, valid, confed-internal
  Extended Community: RT 1100:1001
  mpis labels in/out nolabel/362
(65003) 65089
172.16.254.226 (metric 20645) from 172.16.254.234 (172.16.254.234)
  Origin IGP, metric 0, localpref 100, valid, confed-external
  Extended Community: RT 1100:1001
  mpis labels in/out nolabel/362
65089, (Received from a RR-client)
172.16.228.226 (metric 20645) from 172.16.228.226 (172.16.228.226)
  Origin IGP, metric 0, localpref 100, valid, confed-internal
  Extended Community: RT 1100:1001
  mpis labels in/out nolabel/278
    
```

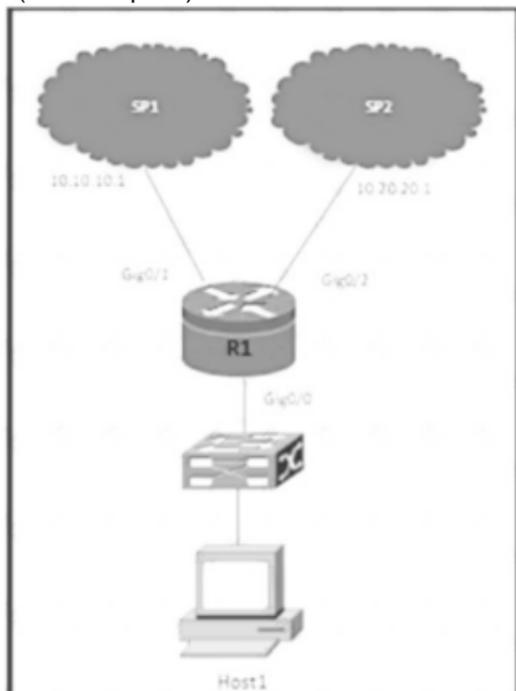
Refer to the exhibit. An engineer configured BGP and wants to select the path from 10.77.255.57 as the best path instead of current best path. Which action resolves the issue?

- A. Configure AS_PATH prepend for the desired best path
- B. Configure higher MED to select as the best path.
- C. Configure lower LOCAL_PREF to select as the best path.
- D. Configure AS_PATH prepend for the current best path

Answer: D

NEW QUESTION 146

- (Exam Topic 3)



Refer to the exhibit. R1 uses SP1 as the primary path. A network engineer must force all SSH traffic generated from R1 toward SP2. Which configuration accomplishes the task?

A)

```
ip access-list extended match_SSH
 permit tcp any any eq 22
!
route-map PBR_SSH permit 10
 match ip address match_SSH
 set ip next-hop 10.20.20.1
!
interface Gig0/0
 ip policy route-map PBR_SSH
```

B)

```
ip access-list extended match_SSH
 permit tcp any any eq 22
!
route-map PBR_SSH permit 10
 match ip address match_SSH
 set ip next-hop 10.10.10.1
!
ip local policy route-map PBR_SSH
```

C)

```
ip access-list extended match_SSH
 permit tcp any any eq 22
!
route-map PBR_SSH permit 10
 match ip address match_SSH
 set ip next-hop 10.20.20.1
!
ip local policy route-map PBR_SSH
```

D)

```
ip access-list extended match_SSH
 permit tcp any any eq 22
!
route-map PBR_SSH permit 10
 match ip address match_SSH
 set ip next-hop 10.20.20.1
!
interface Gig0/1
 ip policy route-map PBR_SSH
```

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

Answer: C

NEW QUESTION 148

- (Exam Topic 3)

A customer reports that traffic is not passing on an EIGRP enabled multipoint interface on a router configured as below:

```
interface Serial0/0 no ip address
interface Server0/0/0.9 multipoint ip address 10.1.1.1 255.255.255.248
ip split-horizon eigrp 1
```

Which action resolves the issue?

- A. Enable poison reverse
- B. Enable split horizon
- C. Disable poison reverse
- D. Disable split horizon

Answer: D

NEW QUESTION 150

- (Exam Topic 3)

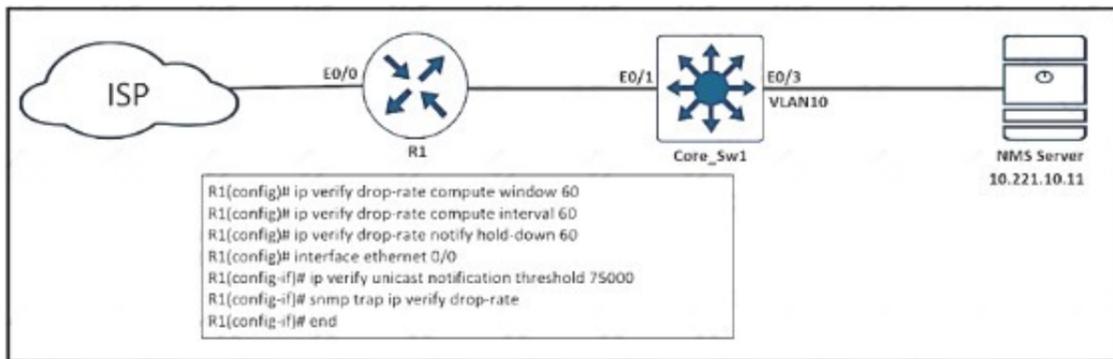
An engineer configured routing between multiple OSPF domains and introduced a routing loop that caused network instability. Which action resolves the problem?

- A. Set a tag using the redistribute command toward a domain and deny inbound in the other domain by a matching tag
- B. Set a tag using the redistribute command toward a different domain and deny the matching tag when exiting from that domain
- C. Set a tag using the network command in a domain and use the route-map command to deny the matching tag when exiting toward a different domain
- D. Set a tag using the network command in a domain and use the route-map command to deny the matching tag when entering into a different domain

Answer: A

NEW QUESTION 154

- (Exam Topic 3)



Refer to the exhibit. An engineer configured SNMP traps to record spoofed packets drop of more than 48000 a minute on the ethernet0/0 interlace. During an IP spoofing attack, the engineer noticed that no notifications have been received by the SNMP server. Which configuration resolves the issue on R1?

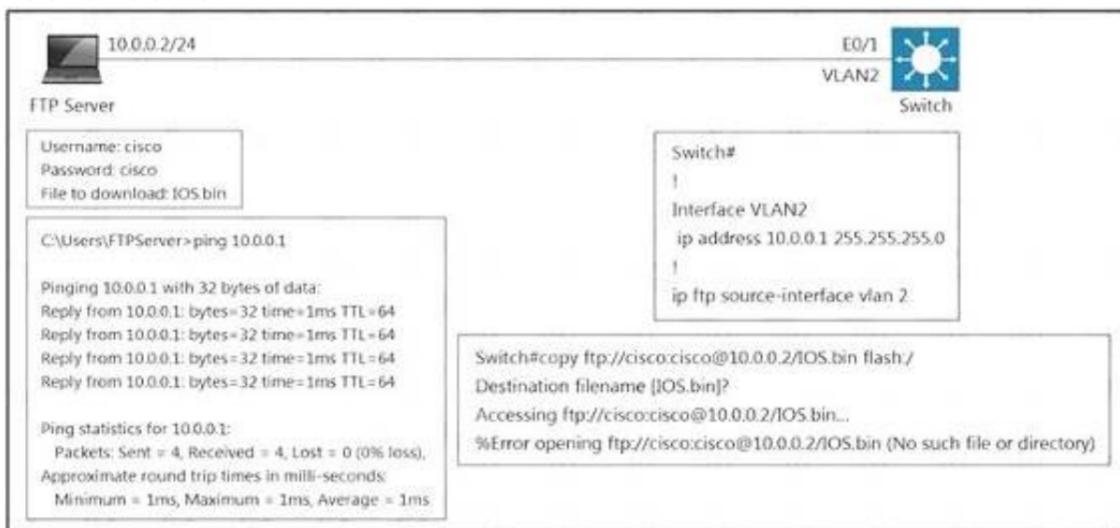
- A. ip verify unicast notification threshold 48000
- B. ip verify unicast notification threshold 8000
- C. ip verify unicast notification threshold 800
- D. ip verify unicast notification threshold 80

Answer: C

NEW QUESTION 156

- (Exam Topic 3)

Refer to the exhibit.



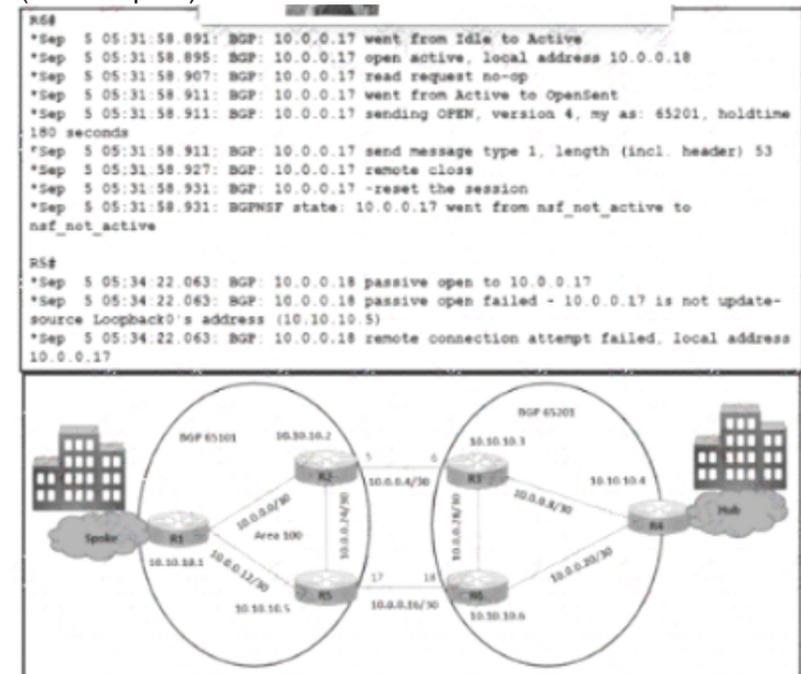
An engineer cannot copy the IOS.bin file from the FTP server to the switch. Which action resolves the issue?

- A. Allow file permissions to download the file from the FTP server.
- B. Add the IOS.bin file, which does not exist on FTP server.
- C. Make memory space on the switch flash or USB drive to download the file.
- D. Use the copy flash:/ ftp://cisco@10.0.0.2/IOS.bin command.

Answer: B

NEW QUESTION 161

- (Exam Topic 3)



Refer to the exhibit. The traffic from spoke to hub is dropping. The operations team observes:

- ✔ R2-R3 link is down due to the fiber cut.
- ✔ R2 and R5 receive traffic from R1 in AS 65101.
- ✔ R3 and R5 receive traffic from R4 in AS 65201.

Which configuration resolves the issue?

A)

```
R6(config)#router bgp 65101
R6(config-router)#no neighbor 10.0.0.17 update-source Loopback0
```

B)

```
R5(config)#router bgp 65101
R5(config-router)#no neighbor 10.0.0.18 update-source Loopback0
```

C)

```
R6(config)#router bgp 65201
R6(config-router)#neighbor 10.10.10.5 remote-as 65101
R6(config-router)#neighbor 10.10.10.5 update-source Loopback0
R6(config-router)#neighbor 10.10.10.5 ebgp-multihop 3
```

D)

```
R5(config)#router bgp 65101
R5(config-router)#neighbor 10.10.10.6 remote-as 65201
R5(config-router)#neighbor 10.10.10.6 update-source Loopback0
R5(config-router)#neighbor 10.10.10.6 ebgp-multihop 3
```

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

Answer: C

NEW QUESTION 163

- (Exam Topic 3)

Which two components are required for MPLS Layer 3 VPN configuration? (Choose two)

- A. Use pseudowire for Layer 2 routes
- B. Use MP-BGP for customer routes
- C. Use OSPF between PE and CE
- D. Use a unique RD per customer VRF
- E. Use LDP for customer routes

Answer: CD

NEW QUESTION 168

- (Exam Topic 3)

A network administrator is troubleshooting a high utilization issue on the route processor of a router that was reported by NMS. The administrator logged into the router to check the control plane policing and observed that the BGP process is dropping a high number of routing packets and causing thousands of routes to recalculate frequently. Which solution resolves this issue?

- A. Police the cir for BGP, conform-action transmit, and exceed action transmit.
- B. Shape the pir for BGP, conform-action set-prec-transmit, and exceed action set-frde-transmit.
- C. Shape the cir for BG
- D. conform-action transmit, and exceed action transmit.
- E. Police the pir for BGP, conform-action set-prec-transmit, and exceed action set-clp-transmit.

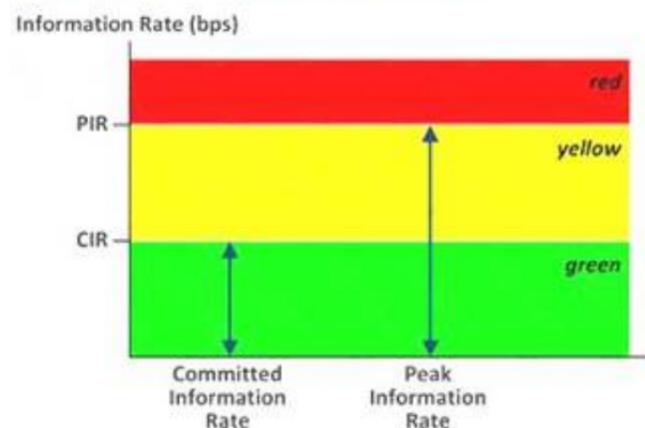
Answer: D

Explanation:

CIR (Committed Information Rate) is the minimum guaranteed traffic delivered in the network.

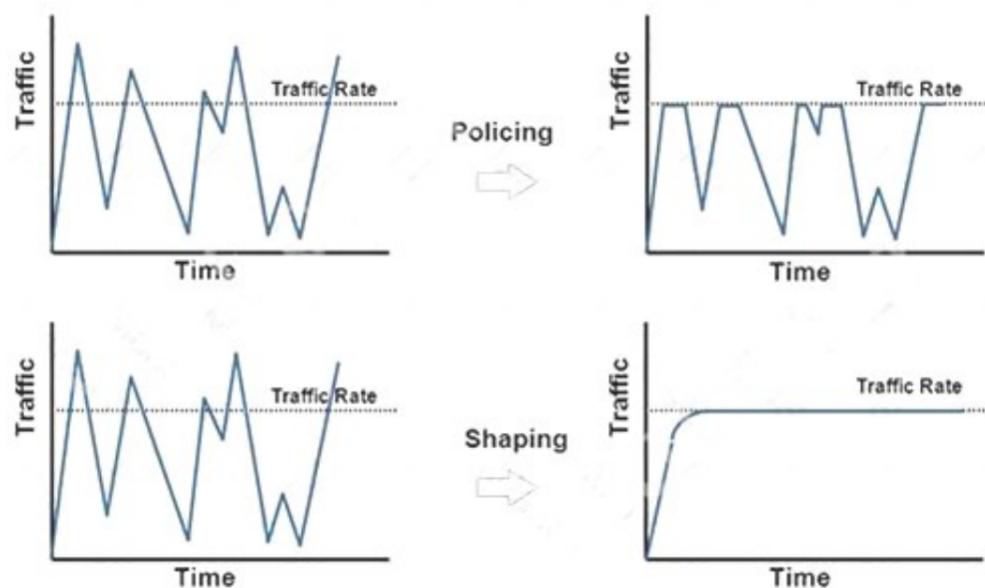
PIR (Peak Information Rate) is the top bandwidth point of allowed traffic in a non busy times without any guarantee.

Two Rates & Three Colors



+ Policing: is used to control the rate of traffic flowing across an interface. During a bandwidth exceed (crossed the maximum configured rate), the excess traffic is generally dropped or remarked. The result of traffic policing is an output rate that appears as a saw-tooth with crests and troughs. Traffic policing can be applied to inbound and outbound interfaces. Unlike traffic shaping, QoS policing avoids delays due to queuing. Policing is configured in bytes.

+ Shaping: retains excess packets in a queue and then schedules the excess for later transmission over increments of time. When traffic reaches the maximum configured rate, additional packets are queued instead of being dropped to proceed later. Traffic shaping is applicable only on outbound interfaces as buffering and queuing happens only on outbound interfaces. Shaping is configured in bits per second.



Therefore in this case we can only policing, not shaping as traffic shaping is applicable only on outbound interfaces as buffering and queuing happens only on outbound interfaces. Moreover, BGP traffic is not important so we can drop the excess packets without any problems.

And we only policing the PIR traffic so that the route processor is not overwhelmed by BGP calculation. Note: The “set-prec-transmit” is the same as “transmit” command except it sets the IP Precedence level as well. The “set-clp-transmit” sets the ATM Cell Loss Priority (CLP) bit from 0 to 1 on the ATM cell and transmits the packet.

NEW QUESTION 173

- (Exam Topic 3)

A CoPP policy is applied for receiving SSH traffic from the WAN interface on a Cisco ISR4321 router. However, the SSH response from the router is abnormal and stuck during the high link utilization. The problem is identified as SSH traffic does not match in the ACL. Which action resolves the issue?

- A. Rate-limit SSH traffic to ensure dedicated bandwidth.
- B. Apply CoPP on the control plane interface.
- C. Increase the IP precedence value of SSH traffic to 6.
- D. Apply CoPP on the WAN interface inbound direction.

Answer: B

Explanation:

The problem is “SSH traffic does not match in the ACL” and “CoPP policy is applied for receiving SSH traffic from the WAN interface” so we should apply CoPP on the control plane interface instead.

NEW QUESTION 175

- (Exam Topic 3)

Refer to the exhibit.

```
ipv6 dhcp pool DHCPPOOL
address prefix 2001:0:1:4::/64 lifetime infinite infinite
```

```
interface FastEthernet0/0
ip address 10.0.0.1 255.255.255.240
duplex auto
speed auto
ipv6 address 2001:0:1:4::1/64
ipv6 enable
ipv6 nd ra suppress
ipv6 ospf 1 area 1
ipv6 dhcp server DHCPPOOL
```

Reachability between servers in a network deployed with DHCPv6 is unstable. Which command must be removed from the configuration to make DHCPv6 function?

- A. ipv6 dhcp server DHCPPOOL
- B. ipv6 address 2001:0:1:4::/64
- C. ipv6 nd ra suppress
- D. address prefix 2001:0:1:4::/64 lifetime infinite infinite

Answer: C

NEW QUESTION 176

- (Exam Topic 3)

Refer to the exhibit.

```

R1# show ip int br | ex un
Interface      IP-Address    OK? Method Status  Protocol
Ethernet1/0    203.0.113.1  YES manual up      up
Loopback1     172.16.50.1   YES manual up      up
Loopback2     172.16.100.1  YES manual up      up
Loopback3     172.16.150.1  YES manual up      up

R1# show ip eigrp neighbors
EIGRP-IPv4 Neighbors for AS(1)
H Address          Interface Hold Uptime  SRTT  RTO  Q  Seq
   (sec)          (ms)  Cnt Num
0 203.0.113.2      Et1/0 14 00:31:16 1018 5000 0 24

R1# show ip eigrp topo all-links
EIGRP-IPv4 Topology Table for AS(1)/ID(172.16.10.1)
Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
       r - reply Status, s - sia Status

P 192.168.10.0/24, 1 successors, FD is 409600, serno 34
  via 203.0.113.2 (409600/128256), Ethernet1/0
P 172.16.100.0/24, 1 successors, FD is 128256, serno 32
  via Connected, Loopback2
P 192.168.30.0/24, 1 successors, FD is 409600, serno 36
  via 203.0.113.2 (409600/128256), Ethernet1/0
P 203.0.113.0/24, 1 successors, FD is 281600, serno 33
  via Connected, Ethernet1/0
P 172.16.150.0/24, 1 successors, FD is 128256, serno 31
  via Connected, Loopback3
P 172.16.50.0/24, 1 successors, FD is 128256, serno 30
  via Connected, Loopback1
P 192.168.20.0/24, 1 successors, FD is 409600, serno 35
  via 203.0.113.2 (409600/128256), Ethernet1/0
    
```

Routers R1 and R2 have established a network adjacency using EIGRP, and both routers are advertising subnets to its neighbor. After issuing the show ip EIGRP topology all-links command in R1, some prefixes are no showing R2 as a successor. Which action resolves the issue?

- A. Rectify the incorrect router ID in R2.
- B. Enable split-horizon.
- C. Configure the network statement on the neighbor.
- D. Resolve the incorrect metric on the link.

Answer: D

NEW QUESTION 177

- (Exam Topic 3)

Refer to the exhibit.

```

R1#sh run | s bgp
router bgp 65001
no synchronization
bgp router-id 10.100.1.50
bgp log-neighbor-changes
network 10.1.1.0 mask 255.255.255.252
network 10.1.1.12 mask 255.255.255.252
network 10.100.1.50 mask 255.255.255.255
timers bgp 20 60
neighbor R2 peer-group
neighbor R4 peer-group
neighbor 10.1.1.2 remote-as 65001
neighbor 10.1.1.2 peer-group R2
neighbor 10.1.1.14 remote-as 65001
neighbor 10.1.1.14 peer-group R4
no auto-summary
    
```

While troubleshooting a BGP route reflector configuration, an engineer notices that reflected routes are missing from neighboring routers. Which two BGP configurations are needed to resolve the issue? (Choose two)

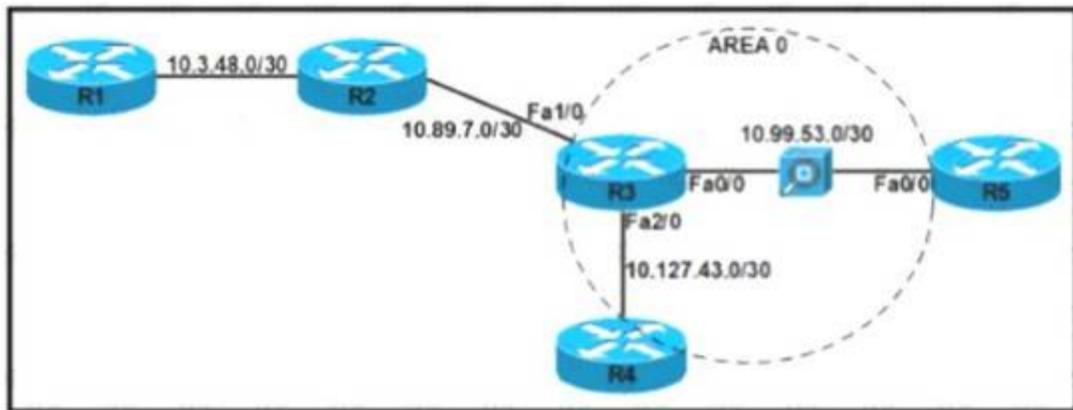
- A. neighbor 10.1.1.14 route-reflector-client
- B. neighbor R2 route-reflector-client
- C. neighbor 10.1.1.2 allowas-in
- D. neighbor R4 route-reflector-client
- E. neighbor 10.1.1.2 route-reflector-client

Answer: AE

NEW QUESTION 182

- (Exam Topic 3)

Refer to the exhibit.



The security department recently installed a monitoring device between routers R3 and R5, which a loss of network connectivity for users connected to R5. Troubleshooting revealed that the monitoring device cannot forward multicast packets. The team already updated R5 with the correct configuration. Which configuration must be implemented on R3 to resolve the problem by ensuring R3 as the DR for the R3-R5 segment?

A)

```
interface FastEthernet0/0
ip address 10.99.53.1 255.255.255.252
ip access-group 122 in
ip ospf network point-to-point
ip ospf priority 100
!
router ospf 10
router-id 10.10.3.255
network 10.99.53.0 0.0.0.3 area 0
neighbor 10.99.53.2
!
access-list 122 permit 88 host 10.99.53.2 host 10.99.53.1
access-list 122 deny 88 any any
```

B)

```
interface FastEthernet0/0
ip address 10.99.53.1 255.255.255.252
ip access-group 122 in
ip ospf network non-broadcast
ip ospf priority 0
!
router ospf 10
router-id 10.10.3.255
network 10.99.53.0 0.0.0.3 area 0
neighbor 10.99.53.2
!
access-list 122 permit 88 host 10.99.53.2 host 10.99.53.1
access-list 122 deny 88 any any
access-list 122 permit tcp any any
access-list 122 permit udp any any
access-list 122 permit icmp any any
```

C)

```
interface FastEthernet0/0
ip address 10.99.53.1 255.255.255.252
ip access-group 122 in
ip ospf network non-broadcast
ip ospf priority 100
!
router ospf 10
router-id 10.10.3.255
network 10.99.53.0 0.0.0.3 area 0
neighbor 10.99.53.2
!
access-list 122 permit 88 host 10.99.53.2 host 10.99.53.1
access-list 122 deny 88 any any
access-list 122 permit tcp any any
access-list 122 permit udp any any
access-list 122 permit icmp any any
```

D)

```
interface FastEthernet0/0
ip address 10.99.53.1 255.255.255.252
ip access-group 122 in
ip ospf network point-to-point
ip ospf priority 100
!
router ospf 10
router-id 10.10.3.255
network 10.99.53.0 0.0.0.3 area 0
neighbor 10.99.53.2
!
access-list 122 permit 88 host 10.99.53.2 host 10.99.53.1
access-list 122 deny 88 any any
```

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

Answer: C

NEW QUESTION 184

- (Exam Topic 3)

What is a function of BFD?

- A. peer recovery after a Layer 3 protocol adjacency failure
- B. peer recovery after a Layer 2 adjacency failure
- C. failure detection independent of routing protocols and media types
- D. failure detection dependent on routing protocols and media types

Answer: D

NEW QUESTION 185

- (Exam Topic 3)

CPE#	show snmp mib ifmib	ifindex	detail			
Description		ifIndex	Active	Persistent	Saved	TrapStatus
Loopback1		8	yes	disabled	no	enabled
GigabitEthernet1		1	yes	disabled	no	enabled
GigabitEthernet3		3	yes	disabled	no	enabled
GigabitEthernet3.123		10	yes	disabled	no	disabled
VoIP-Null0		5	yes	disabled	no	enabled
Loopback0		7	yes	disabled	no	enabled
Null0		6	yes	disabled	no	enabled
Loopback2		9	yes	disabled	no	enabled
GigabitEthernet4		4	yes	disabled	no	enabled
GigabitEthernet2		2	yes	disabled	no	enabled

Refer to the exhibit. After reloading the router an administrator discovered that the interface utilization graphs displayed inconsistencies with their previous history in the NMS. Which action prevents this issue from occurring after another router reload in the future?

- A. Rediscover all the router interfaces through SNMP after the router is reloaded
- B. Save the router configuration to startup-config before reloading the router
- C. Configure SNMP to use static OIDs referring to individual router interfaces
- D. Configure SNMP interface index persistence on the router

Answer: D

NEW QUESTION 188

- (Exam Topic 3)

A network administrator is troubleshooting a failed AAA login issue on a Cisco Catalyst c3560 switch. When the network administrator tries to log in with SSH using TACACS+ username and password credentials, the switch is no longer authenticating and is failing back to the local account. Which action resolves this issue?

- A. Configure ip tacacs source-interface GigabitEthernet 1/1
- B. Configure ip tacacs source-ip 192.168.100.55
- C. Configure ip tacacs-server source-ip 192.168.100.55
- D. Configure ip tacacs-server source-interface GigabitEthernet 1/1

Answer: A

NEW QUESTION 192

- (Exam Topic 3)

An engineer failed to run diagnostic commands on devices using Cisco DNA Center. Which action in Cisco DNA Center resolves the issue?

- A. Enable Command Runner
- B. Enable APIs

- C. Enable CDP
- D. Enable Secure Shell

Answer: A

NEW QUESTION 193

- (Exam Topic 3)

Which two label distribution methods are used by routers in MPLS? (Choose two)

- A. targeted hello message
- B. LDP discovery hello message
- C. LDP session protection message
- D. downstream unsolicited
- E. downstream on demand

Answer: DE

NEW QUESTION 194

- (Exam Topic 3)

What are the two goals of micro BFD sessions? (Choose two.)

- A. The high bandwidth member link of a link aggregation group must run BFD
- B. Run the BFD session with 3x3 ms hello timer
- C. Continuity for each member link of a link aggregation group must be verified
- D. Eny member link on a link aggregation group must run BFD
- E. Each member link of a link aggregation group must run BFD.

Answer: CE

Explanation:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_bfd/configuration/xe-16-8/irb-xe-16-8-book/irb-micr

NEW QUESTION 197

- (Exam Topic 3)

How does an MPLS Layer 3 VPN differentiate the IP address space used between each VPN?

- A. by RD
- B. by address family
- C. by MP-BGP
- D. byRT

Answer: A

NEW QUESTION 202

- (Exam Topic 3)

Refer to the exhibit. An engineer is trying to log in to R1 via R3 loopback address. Which action resolves the issue?

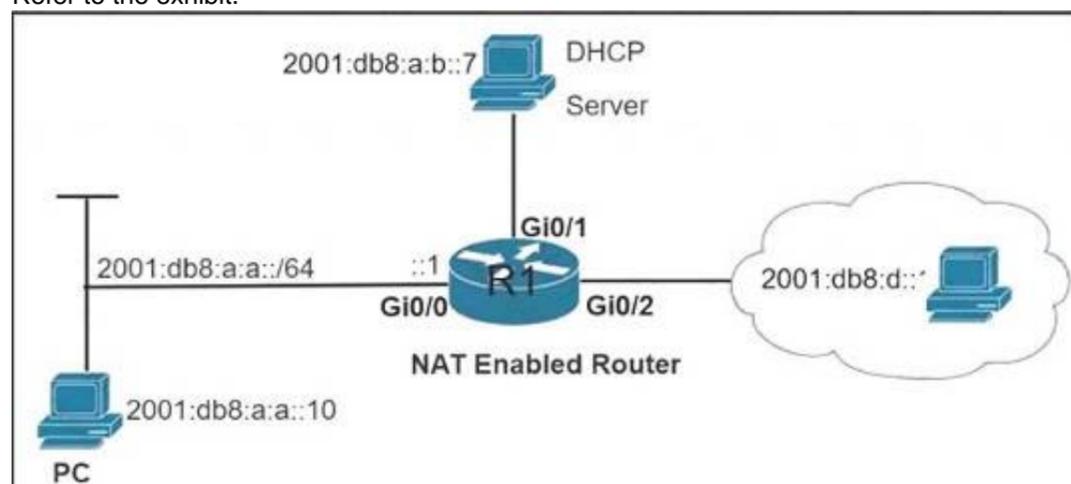
- A. Add transport input SCP
- B. Add transport input none
- C. Remove the IPv6 traffic filter from R1, which is blocking the Telnet.
- D. Remove the IPv6 traffic from R1, which is blocking the SSH

Answer: C

NEW QUESTION 203

- (Exam Topic 3)

Refer to the exhibit.



```
C:\PC> ping 2001:db8:a:b::7
Pinging 2001:db8:a:b::7 with 32 bytes of data:
Reply from 2001:db8:a:b::7: time=46ms
Reply from 2001:db8:a:b::7: time=40ms
Reply from 2001:db8:a:b::7: time=40ms
Reply from 2001:db8:a:b::7: time=40ms
Ping statistics for 2001:db8:a:b::7:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 40ms, Maximum = 46ms, Average = 41ms

R1# telnet 2001:db8:a:b::7
Trying 2001:DB8:A:B::7 ... Open
User Access Verification
Password:

R1# show ipv6 access-list TSHOOT
IPv6 access list TSHOOT
deny tcp any host 2001:DB8:A:B::7 eq telnet (6 matches) sequence 10
permit tcp host 2001:DB8:A:A::10 host 2001:DB8:A:B::7 eq telnet sequence 20
permit tcp host 2001:DB8:A:A::10 host 2001:DB8:D::1 eq www sequence 30
permit ipv6 2001:DB8:A:A::/64 any (67 matches) sequence 40
```

An engineer is troubleshooting a failed Telnet session from PC to the DHCP server. Which action resolves the issue?

- A. Remove sequence 30 and add it back to the IPv6 traffic filter as sequence 5.
- B. Remove sequence 20 and add it back to the IPv6 traffic filter as sequence 5.
- C. Remove sequence 10 to add the PC source IP address and add it back as sequence 10.
- D. Remove sequence 20 for sequence 40 in the access list to allow Telnet.

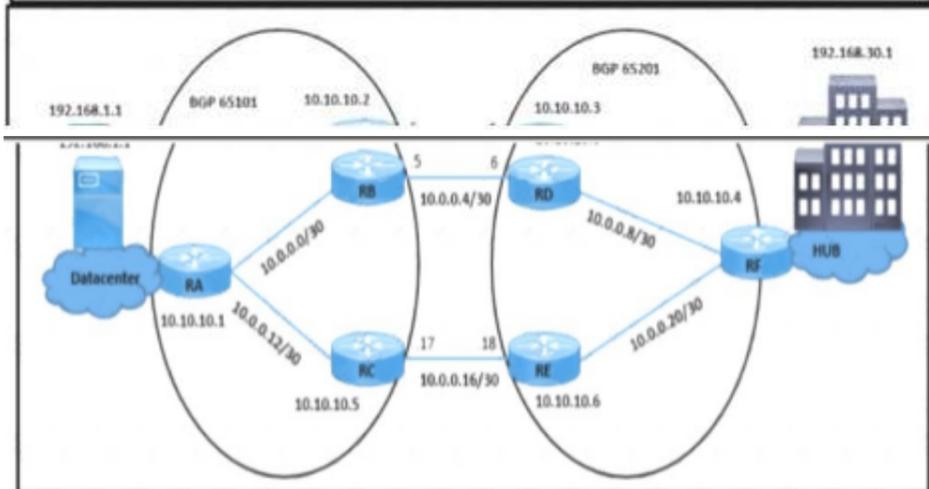
Answer: B

NEW QUESTION 207

- (Exam Topic 3)

```
RD#show ip bgp 192.168.1.1
Advertised to update-groups:
 3
 65101
 10.10.10.2 (metric 2) from 10.10.10.2 (10.10.10.2)
  Origin IGP, metric 100, localpref 100, weight 65535, valid, external,
best
 65101
 10.0.0.17 (metric 2) from 10.10.10.6 (172.16.20.1)
  Origin IGP, metric 0, localpref 100, valid, internal

RB#show ip bgp 192.168.1.1
BGP routing table entry for 192.168.1.1/32, version 10
Paths: (1 available, best #1, table Default-IP-Routing-Table)
Advertised to update-groups:
 2
Local
 10.10.10.1 (metric 2) from 10.10.10.1 (192.168.1.1)
  Origin IGP, metric 0, localpref 100, valid, internal, best
```



Refer to the exhibit. A customer finds that traffic from the application server (192.168.1.1) to the HUB site passes through a congested path that causes random packet drops. The NOC team influences the BGP path with MED on RB, but RD still sees that traffic coming from RA is not taking an alternate route. Which configuration resolves the issue?

A)

```
RD(config)#router bgp 65201
RD(config-router)#no neighbor 10.10.10.2 weight 65535
```

B)

```
RB(config)#router bgp 65101
RB(config-router)#no neighbor 10.10.10.3 route-map HIGH-LP out
```

C)

```
RB(config)#router bgp 65101
RB(config-router)#neighbor 10.10.10.3 weight 50
```

D)

```
RC(config)#router bgp 65101
RC(config-router)#neighbor 10.10.10.6 route-map HIGH-LP out
```

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

Answer: D

NEW QUESTION 212

- (Exam Topic 3)

Refer to the exhibit.

```
interface Tunnel0
 ip address 172.23.5.10 255.255.255.0
 no ip redirects
 ip mtu 1420
 ip nhrp authentication C@trts81
 ip nhrp map multicast 192.168.200.1
 ip nhrp map 172.23.5.1 192.168.200.1
 ip nhrp network-id 10
 ip nhrp holdtime 300
 ip nhrp shortcut
 ip ospf network broadcast
 ip ospf priority 0
 tunnel source 192.168.100.146
 tunnel mode gre multipoint
 tunnel key 100
```

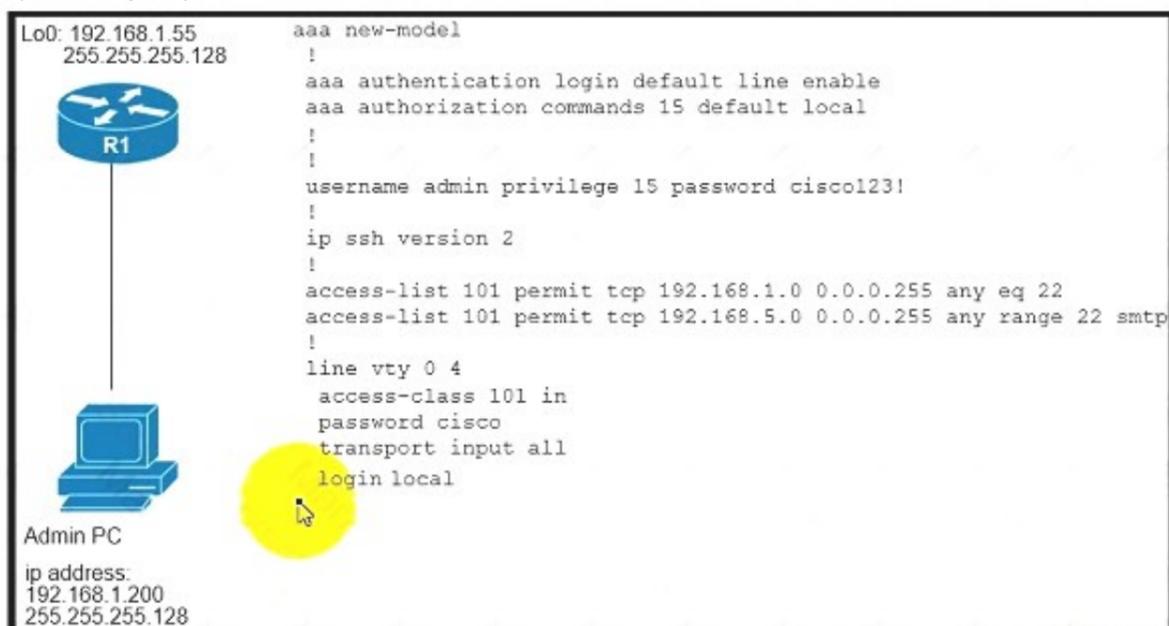
A network engineer is adding a new spoke router into an existing DMVPN Phase 3 tunnel with a hub router to provide secure communication between sites Which additional configuration must the engineer apply to enable the tunnel to come up?

- A. ip nhrp registration no-unique
- B. ip nhrp server-only non-caching
- C. ip nhrp responder tunnel
- D. ip nhrpnhs 172.23.5.1

Answer: D

NEW QUESTION 217

- (Exam Topic 3)



Refer to the exhibit. An engineer configured user login based on authentication database on the router, but no one can log into the router. Which configuration resolves the issue?

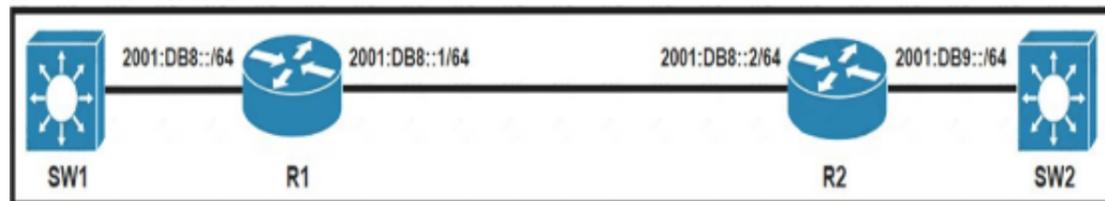
- A. aaa authentication login default enable
- B. aaa authorization network default local
- C. aaa authentication login default local
- D. aaa authorization exec default local

Answer: C

NEW QUESTION 221

- (Exam Topic 3)

Refer to the exhibit.



An engineer must advertise routes into IPv6 MP-BGP and failed. Which configuration resolves the issue on R1?

- A. router bgp 65000no bgp default ipv4-unicast address-family ipv6 multicast network 2001:DB8::/64
- B. router bgp 65000no bgp default ipv4-unicast address-family ipv6 unicast network 2001:DB8::/64
- C. router bgp 64900no bgp default ipv4-unicast address-family ipv6 unicast network 2001:DB8::/64
- D. router bgp 64900no bgp default ipv4-unicast address-family ipv6 multicastneighbor 2001:DB8:7000::2 translate-update ipv6 multicast

Answer: B

NEW QUESTION 222

- (Exam Topic 3)

The network administrator configured R1 for Control Plane Policing so that the inbound Telnet traffic is policed to 100 kbps. This policy must not apply to traffic coming in from 10.1.1.1/32 and 172.16.1.1/32. The administrator has configured this:

```
access-list 101 permit tcp host 10.1.1.1 any eq 23
access-list 101 permit tcp host 172.16.1.1 any eq 23
!
class-map CoPP-TELNET
match access-group 101
!
policy-map PM-CoPP
class CoPP-TELNET
police 100000 conform transmit exceed drop
!
control-plane
service-policy input PM-CoPP
```

The network administrator is not getting the desired results. Which set of configurations resolves this issue?

- A. control-planeno service-policy input PM-CoPP!interface Ethernet 0/0service-policy input PM-CoPP
- B. control-planeno service-policy input PM-CoPP service-policy input PM-CoPP
- C. no access-list 101access-list 101 deny tcp host 10,1,1.1 any eq 23access-list 101 deny tcp host 172,16.1.1 any eq 23 access-list 101 permit ip any any
- D. no access-list 101access-list 101 deny tcp host 10,1,1.1 any eq 23access-list 101 deny tcp host 172.16.1.1 any eq 23 access-list 101 permit ip any any!interface E0/0service-policy input PM-CoPP

Answer: C

Explanation:

Packets that match a deny rule are excluded from that class and cascade to the next class (if one exists) for classification. Therefore if we don't want to CoPP traffic from 10.1.1.1/32 and 172.16.1.1/32, we must "deny" them in the ACL.

NEW QUESTION 225

- (Exam Topic 3)

Refer to the exhibit.

```
ip address 4.4.4.4 255.255.255.0
!
interface FastEthernet1/0
Description **** WAN link ****
ip address 10.0.0.1 255.255.255.0
!
interface FastEthernet1/1
Description **** LAN Network ****
ip address 192.168.1.1 255.255.255.0
!
!
router ospf 1
router-id 4.4.4.4
log-adjacency-changes
network 4.4.4.4 0.0.0.0 area 0
network 10.0.0.1 0.0.0.0 area 0
network 192.168.1.1 0.0.0.0 area 10
!
```

- A)
interface loopback0
ip address 4.4.4.4 255.255.255.0
ip ospf network broadcast
- B)
interface loopback0
ip address 4.4.4.4 255.255.255.0
ip ospf interface type network
- C)
interface loopback0
ip address 4.4.4.4 255.255.255.0
ip ospf network point-to-point
- D)
interface loopback0
ip address 4.4.4.4 255.255.255.0
ip ospf interface area 10

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

Answer: A

NEW QUESTION 227

- (Exam Topic 3)
Refer to the exhibit.

```

R2#show ip eigrp neighbors
IP-EIGRP neighbors for process 100
H Address Interface Hold Uptime SRTT RTO Q Seq
(sec) (ms) Cnt Num
1 192.168.10.1 Ser1/0 12 00:00:39 1 5000 2 0
*Jan 1 15:40:21.295: \DUAL-5-NBRCHANGE: IP-EIGRP(0) 100: Neighbor 192.168.10.1 (Serial1/0) is down: retry limit exceeded
*Jan 1 15:40:51.567: \DUAL-5-NBRCHANGE: IP-EIGRP(0) 100: Neighbor 192.168.10.1 (Serial1/0) is up: new adjacency
*Jan 1 15:42:11.107: \DUAL-5-NBRCHANGE: IP-EIGRP(0) 100: Neighbor 192.168.10.1 (Serial1/0) is down: retry limit exceeded
*Jan 1 15:42:14.879: \DUAL-5-NBRCHANGE: IP-EIGRP(0) 100: Neighbor 192.168.10.1 (Serial1/0) is up: new adjacency

R1#show ip eigrp neighbors
IP-EIGRP neighbors for process 100

R1 Configuration:
key chain cisco
key 2
key-string abc
!
interface Loopback0
ip address 10.10.1.1 255.255.255.0
!
interface Serial1/0
ip address 192.168.10.1 255.255.255.0
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 cisco
serial restart-delay 0
!
router eigrp 100
network 10.10.1.0 0.0.0.255
network 192.168.10.0
no auto-summary

R2 configuration:
key chain cisco
key 1
key-string 123
key 2
key-string abc
!
interface Loopback0
ip address 10.10.2.2 255.255.255.0
!
interface Serial1/0
ip address 192.168.10.2 255.255.255.0
ip authentication mode eigrp 100 md5
ip authentication key-chain eigrp 100 cisco
no fair-queue
!
!
router eigrp 100
network 10.10.2.0 0.0.0.255
network 192.168.10.0
no auto-summary

```

R1 and R2 are configured for EIGRP peering using authentication and the neighbors failed to come up. Which action resolves the issue?

- A. Configure a matching key-id number on both routers
- B. Configure a matching lowest key-id on both routers
- C. Configure a matching key-chain name on both routers
- D. Configure a matching authentication type on both router

Answer: A

NEW QUESTION 231

- (Exam Topic 3)

How is a preshared key "Test" for all the remote VPN routers configured In a DMVPN using GRE over IPsec set up?

- A. authentication pre-share Test address 0.0.0.0 0.0.0.0
- B. set pre-share Test address 0.0.0.0 0.0.0.0
- C. crypto Ipsec key Test address 0.0.0.0 0.0.0.0
- D. crypto isakmp key Test address 0.0.0.0 0.0.0.0

Answer: D

NEW QUESTION 232

- (Exam Topic 3)

Refer to the exhibit.

```

R1#sh ip route
Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2
i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
ia - IS-IS inter area, * - candidate default, U - per-user static route
o - ODR, P - periodic downloaded static route, H - NHRP, l - LISP
a - application route
+ - replicated route, % - next hop override, p - overrides from PfR

Gateway of last resort is not set

D    10.0.0.0/8 [90/409600] via 172.16.1.200, 00:00:28, Ethernet0/0
    172.16.0.0/16 is variably subnetted, 2 subnets, 2 masks
C    172.16.1.0/24 is directly connected, Ethernet0/0
L    172.16.1.100/32 is directly connected, Ethernet0/0
    192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C    192.168.1.0/24 is directly connected, Loopback0
L    192.168.1.100/32 is directly connected, Loopback0
R1#

```

The R2 loopback interface is advertised with RIP and EIGRP using default values. Which configuration changes make R1 reach the R2 loopback using RIP?

- A. R1(config)# router rip R1(config-router)# distance 90
- B. R1(config)# router rip R1(config-router)# distance 100
- C. R1(config)# router eigrp 1R1(config-router)# distance eigrp 130 120
- D. R1(config)# router eigrp 1R1(config-router)# distance eigrp 120 120

Answer: C

Explanation:

distance (AD Number u want to change to) (neighbor IP) (Wildcard Mask) (access-list number)

NEW QUESTION 237

- (Exam Topic 3)

```

R1#sh run | section eigrp
router eigrp 10
network 10.10.10.0 0.0.0.255
no auto-summary
neighbor 10.10.10.2 FastEthernet0/0
neighbor 10.10.10.3 FastEthernet0/0

R1#show ip eigrp neighbors
IP-EIGRP neighbors for process 10
H   Address                Interface           Hold Uptime      SRTT   RTO   Q
Seq
                               (sec)             (ms)             Cnt
Num
1   10.10.10.2              Fa0/0              10 00:01:01     42    232   0   6
0   10.10.10.3              Fa0/0              10 00:01:03     43    244   0   6

```

Refer to the exhibit The remote branch locations have a static neighbor relationship configured to R1 only R1 has successful neighbor relationships with the remote locations of R2 and R3, but the end users cannot communicate with each other. Which configuration resolves the issue?

```

R2
interface FastEthernet0/0.10
encapsulation dot1Q
ip address 10.10.10.2 255.255.255.0

R3
interface FastEthernet0/0.10
encapsulation dot1Q
ip address 10.10.10.3 255.255.255.0

```

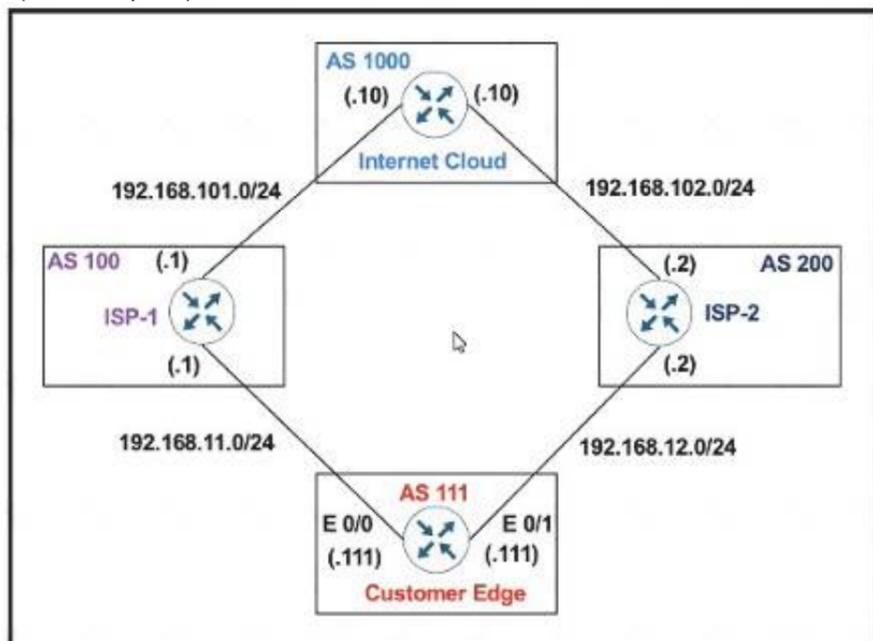
- R2
interface FastEthernet0/0.10
encapsulation dot1Q
ip address 10.10.10.2 255.255.255.0
- R3
interface FastEthernet0/0.10
encapsulation dot1Q
ip address 10.10.10.3 255.255.255.0
- R2
interface FastEthernet0/0.10
encapsulation dot1Q 10
ip address 10.10.10.2 255.255.255.0
- R3
interface FastEthernet0/0.10
encapsulation dot1Q 10
ip address 10.10.10.3 255.255.255.0
- R2 and R3
interface FastEthernet0/0
no ip split-horizon eigrp 10
- R1
interface FastEthernet0/0
no ip split-horizon eigrp 10

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

Answer: E

NEW QUESTION 239

- (Exam Topic 3)



```
ISP-1
ip as-path access-list 1 permit ^111
!
router bop 100
neighbor 192.168.101.10 remote-as 1000
neighbor 192.168.11.111 remote-as 111
neighbor 192.168.11.111 filter-list 1 in
```

Refer to the exhibit. AS 111 must not be used as a transit AS, but ISP-1 is getting ISP-2 routes from AS 111. Which configuration stops Customer AS from being used as a transit path on ISP-1?

- A. ip as-path access-list 1 permit ^\$
- B. ip as-path access-list 1 permit_111_
- C. ip as-path access-list 1 permit."
- D. ip as-path access-list 1 permit ^111\$

Answer: A

NEW QUESTION 242

- (Exam Topic 3)

Refer to the exhibit.

```
interface GigabitEthernet2
no ip address
ip helper-address 192.168.255.3
no shutdown
!
interface GigabitEthernet2.10
encapsulation dot1Q 210
ip address 192.168.210.1 255.255.255.0
ip ospf 1 area 0
no shutdown
```

With the partial configuration of a router-on-a-stick. Clients in VLAN 10 on Gi2 cannot obtain IP configuration from the central DHP server is reachable by a successful ping from the route. Which action resolves the issue?

- A. Configure the ip/ip/dhcp pool f and network 192.168..210.0.255.255/0 commands.
- B. Configure the ip header-address 192-168.265.3 command on the Gi2 10 subinterface.
- C. Configure a valid IP address on the Gi2 interface so that DHCP requests can be forwarded.
- D. Configure the Ip dhcp excluded-address 192.168.255.3 command on the Gi1.10 subinterface.

Answer: B

NEW QUESTION 246

- (Exam Topic 3)

Refer to the exhibit.

```
CPE# show ntp associations
address      ref clock      st  when  poll reach  delay
offset disp
-10.1.255.40 .INIT.         16      64    0  0.000
0.000 15937.
* syn.peer, + selected, + candidate, - outlier, x falseticker,
- configured

CPE# debug ip icmp
*Feb 20 22:49:32.913: ICMP: dst (10.0.12.1) port unreachable rcv
from 10.1.255.40
*Feb 20 22:50:37.918: ICMP: dst (10.0.12.1) port unreachable rcv
from 10.1.255.40
*Feb 20 22:51:44.951: ICMP: dst (10.0.12.1) port unreachable rcv
from 10.1.255.40
```

An administrator is troubleshooting a time synchronization problem for the router time to another Cisco IOS XE-based device that has recently undergone hardening. Which action resolves the issue?

- A. Allow NTP in the ingress ACL on 10.1.225.40 by permitting UDP destined to port 123.
- B. Ensure that the CPE router has a valid route to 10.1.255. 40 for NTP and rectify if not reachable.
- C. NTP service is disabled and must be enabled on 10.1.225.40.
- D. Allow NTP in the ingress ACL on 10.1.255.40 by permitting TCP destined to port 123.

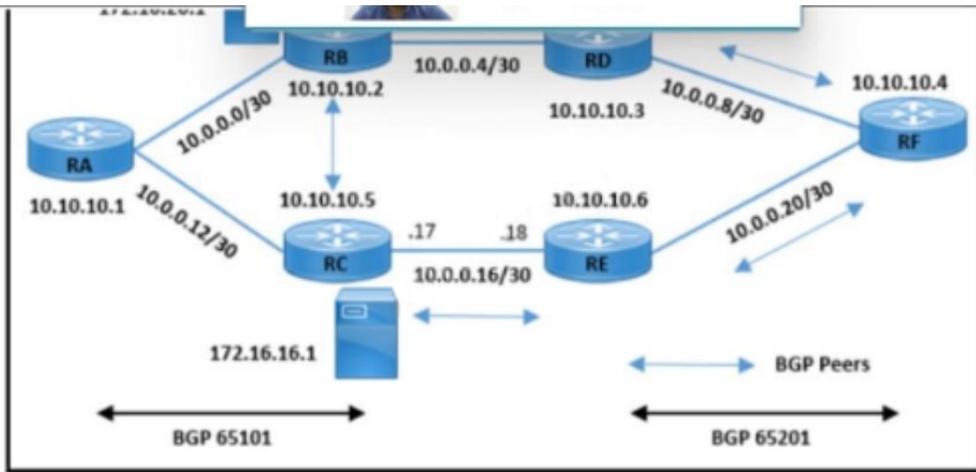
Answer: C

NEW QUESTION 248

- (Exam Topic 3)

```
RB#show ip bgp 172.16.16.1
BGP routing table entry for 172.16.16.1/32, version 11
Paths: (1 available, no best path)
Not advertised to any peer
Local
 10.10.10.5 (metric 3) from 10.10.10.5 (172.16.16.1)
  Origin IGP, metric 0, localpref 100, valid, internal, not synchronized

RD#traceroute 172.16.16.1
Tracing the route to 172.16.16.1
 1 10.0.0.10 [MPLS: Label 29 Exp 0] 64 msec 56 msec 60 msec
 2 10.0.0.21 60 msec 56 msec 72 msec
 3 * * *
```



Refer to the exhibit A customer reported an issue with a fiber link failure between RC and RE Users connected through the spoke location face disconnection and packet drops with the primary email server (172.16.16.1) but have no issues with the backup email server (172.16.26.1). All the router loopback IPs are advertised through the OSPF protocol. Which configuration resolves the issue?

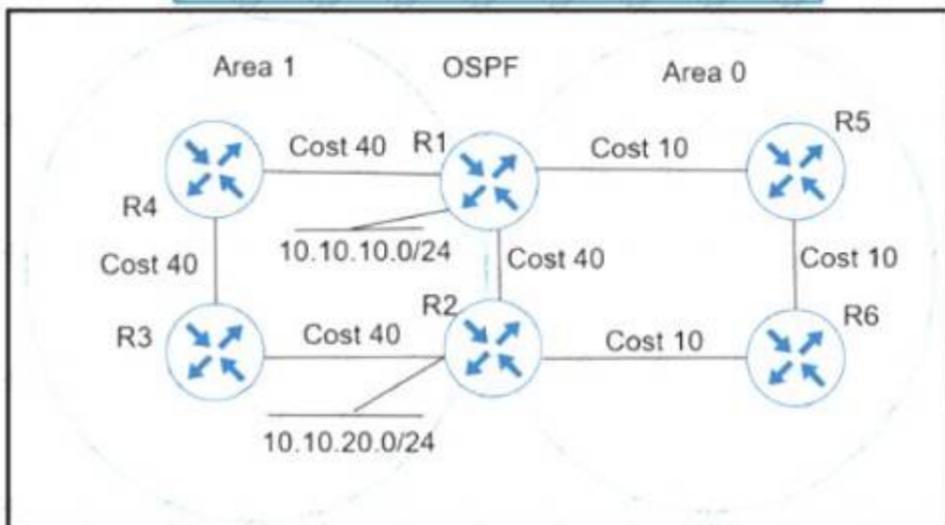
- RB(config)#router bgp 65101
RB(config-router)#no synchronization
- RC(config)#router bgp 65101
RC(config-router)#neighbor 10.10.10.2 next-hop-self
- RB(config)#router bgp 65101
RB(config-router)#neighbor 10.10.10.5 next-hop-self
- RC(config)#router bgp 65101
RC(config-router)#no synchronization

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

Answer: B

NEW QUESTION 250

- (Exam Topic 3)



Refer to the exhibit Which action ensures that 10 10 10 0/24 reaches 10 10 20 0/24 through the direct link between R1 and R2?

- A. Configure R1 and R2 LAN links as nonpassive.
- B. Configure R1 and R2 links under area 1
- C. Configure OSPF link cost to 1 between R1 and R2
- D. Configure OSPF path cost to 3 between R1 and R2

Answer: B

NEW QUESTION 252

- (Exam Topic 3)

An engineer configures PBR on R5 and wants to create a policy that matches traffic destined toward 10.10.10.0/24 and forward 10.1.1.1. The traffic must also have its IP precedence set to 5. All other traffic should be forward toward 10.1.1.2 and have its IP precedence set to 0. Which configuration meets the requirements?

- A. access-list 1 permit 10.10.10.0 0.0.0.255 access-list 2 permit any route-map CCNP permit 10 match ip address 1 set ip next-hop 10.1.1.1 set ip precedence 5!route-map CCNP permit 20 match ip address 2 set ip next-hop 10.1.1.2 set ip precedence 0!route-map CCNP permit 30
- B. access-list 100 permit ip any 10.10.10.0 0.0.0.255 route-map CCNP permit 10 match ip address 100 set ip next-hop 10.1.1.1 set ip precedence 0!route-map CCNP permit 20 set ip next-hop 10.1.1.2 set ip precedence 5!route-map CCNP permit 30
- C. access-list 1 permit 10.10.10.0 0.0.0.255 route-map CCNP permit 10 match ip address 1 set ip next-hop 10.1.1.1 set ip precedence 5!route-map CCNP permit 20 set ip next-hop 10.1.1.2 set ip precedence 0
- D. access-list 100 permit ip any 10.10.10.0 0.0.0.255 route-map CCNP permit 10 match ip address 100 set ip next-hop 10.1.1.1 set ip precedence 5!route-map CCNP permit 20 set ip next-hop 10.1.1.2 set ip precedence 0

Answer: D

NEW QUESTION 256

- (Exam Topic 3)

```
Router# show logging

Syslog logging: enabled (0 messages dropped, 0 messages rate-limited, 0 flushes, 0
overruns, xml disabled, filtering disabled)

No Active Message Discriminator.
No Inactive Message Discriminator.

  Console logging: level debugging, 8 messages logged, xml disabled,
                    filtering disabled

  Monitor logging: level debugging, 0 messages logged, xml disabled,
                    filtering disabled

  Buffer logging:  level debugging, 8 messages logged, xml disabled,
                    filtering disabled

Exception Logging: size (8192 bytes)

Count and timestamp logging messages: disabled

Persistent logging: disabled
```

Refer to the exhibit. A network engineer lost remote access to the router due to a network problem. The engineer used the console to access the router and noticed continuous logs on the console terminal. Which configuration limits the number of log messages on the console to critical and higher severity level messages?

- A. term no monitor
- B. logging console 2
- C. no logging console
- D. logging console 5

Answer: D

NEW QUESTION 257

- (Exam Topic 3)

```
GigabitEthernet2 is up, line protocol is up
Internet Address 172.16.1.42/30, Interface ID 8, Area 1
Attached via Network Statement
Process ID 1, Router ID 172.16.100.7, Network Type BROADCAST, Cost: 1
Topology-MTID   Cost   Disabled   Shutdown   Topology Name
  0             1       no         no         Base
Transmit Delay is 1 sec, State DR, Priority 1
Designated Router (ID) 172.16.100.7, Interface address 172.16.1.42
Backup Designated router (ID) 172.16.100.5, Interface address 172.16.1.41
Timer intervals configured, Hello 10, Dead 40, wait 40, Retransmit 5
 oob-resync timeout 40
 Hello due in 00:00:01

Neighbor Count is 1, Adjacent neighbor count is 1
  Adjacent with neighbor 172.16.100.5 (Backup Designated Router)
Suppress hello for 0 neighbor(s)
Cryptographic authentication enabled
Sending SA: key 1, Algorithm HMAC-SHA-256 - key chain ospf
Rollover in progress, 1 neighbor(s) using the old key(s):
  key id 1 algorithm MD5
CSR103#
CSR103#
CSR103#sh ip ospf nei

Neighbor ID    Pri   State           Dead Time   Address        Interface
172.16.100.3   1     FULL/DR         00:00:30    172.16.1.25    GigabitEthernet3
172.16.100.5   1     FULL/BDR        00:00:16    172.16.1.41    GigabitEthernet2
CSR103#
CSR103#
*Jan 11 16:49:35.311: %SYS-6-LOGOUT: User admin has exited tty session 1(10.228.200.250)
*Jan 11 16:49:45.396: %OSPF-5-ADJCHG: Process 1, Nbr 172.16.100.5 on GigabitEthernet2 from
FULL to DOWN, Neighbor Down: Dead timer expired
```

Refer to the exhibit. Which configuration resolves the issue?

A)

```
router ospf 1
 area 1 authentication message-digest
 int GigabitEthernet 2
 ip ospf message-digest-key 1 md5 cisco
```

B)

```
int GigabitEthernet 2
 ip ospf message-digest-key 1 md5 cisco
 ip ospf authentication message-digest
```

C)

```
int GigabitEthernet 2
 ip ospf key 1 cisco
 ip ospf authentication
```

D)

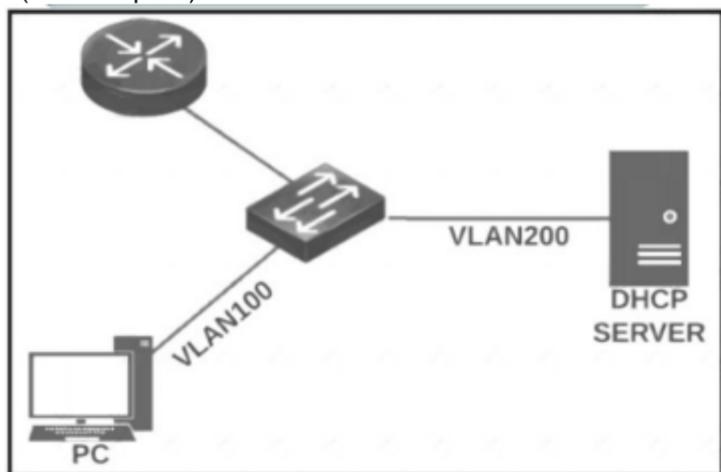
```
key chain ospf
 key 1
 key-string 7 02050D480809
 cryptographic-algorithm hmac-sha-1
 interface GigabitEthernet2
 ip ospf authentication key-chain ospf
```

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

Answer: D

NEW QUESTION 260

- (Exam Topic 3)



Refer to the exhibit. APC is configured to obtain an IP address automatically, but it receives an IP address only from the 169.254.0.0 subnet. The DHCP server logs contained no DHCPDISCOVER message from the MAC address of the PC. Which action resolves the issue?

- A. Configure an ip helper-address on the router to forward DHCP messages to the server.
- B. Configure DHCP Snooping on the switch to forward DHCP messages to the server.
- C. Configure a DHCP reservation on the server for the PC.
- D. Configure a static IP address on the PC and exclude it from the DHCP pool.

Answer: A

NEW QUESTION 264

- (Exam Topic 3)

Which control plane process allows the MPLS forwarding state to recover when a secondary RP takes over from a failed primary RP?

- A. MP-BGP uses control plane services for label prefix bindings in the MPLS forwarding table
- B. LSP uses NSF to recover from disruption of control plane service
- C. FEC uses a control plane service to distribute information between primary and secondary processors
- D. LDP uses SSO to recover from disruption in control plane service

Answer: C

NEW QUESTION 267

- (Exam Topic 3)

Which method provides failure detection in BFD?

- A. short duration, high overhead

- B. short duration, low overhead
- C. long duration, high overhead
- D. long duration, low overhead

Answer: B

NEW QUESTION 270

- (Exam Topic 3)

Refer to the exhibit.

```
R1#show ip route ospf
      10.0.0.0/24 is subnetted, 7 subnets
O E2   10.4.9.0 [110/200] via 10.4.17.6, 00:06:43,
FastEthernet0/0
      [110/200] via 10.4.15.5, 00:06:43,
FastEthernet0/1
O IA   10.4.27.0 [110/2] via 10.4.15.5, 00:06:44,
FastEthernet0/1
O E2   10.4.49.0 [110/200] via 10.4.17.6, 00:06:43,
FastEthernet0/0
```

An engineer configures two ASBRs 10.4.17.6 and 10.4.15.5 in an OSPF network to redistribute routes from EIGRP. However, both ASBRs show the EIGRP routes as equal costs even though the next-hop router 10.4.17.6 is closer to R1. How should the network traffic to the EIGRP prefixes be sent via 10.4.17.6?

- A. The administrative distance should be raised to 120 from the ASBR 10.4.15.5.
- B. The redistributed prefixes should be advertised as Type 1.
- C. The ASBR 10.4.17.6 should assign a tag to match and assign a lower metric on R1.
- D. The administrative distance should be raised to 120 from the ASBR 10.4.17.6.
- E. The administrative distance should be raised to 120 from the ASBR 10.4.15.5.
- F. The redistributed prefixes should be advertised as Type 1.
- G. The ASBR 10.4.17.6 should assign a tag to match and assign a lower metric on R1.
- H. The administrative distance should be raised to 120 from the ASBR 10.4.17.6.

Answer: B

NEW QUESTION 271

- (Exam Topic 3)

Refer to the exhibit.

```
R1(config)#ipv6 prefix-list PRE-PEND-PREFIX permit 2001:db8:0:a::/64
R1(config)#route-map PRE-PEND permit 10
R1(config-route-map)#match ipv6 address prefix-list PRE-PEND-PREFIX
R1(config-route-map)#set as-path prepend 65412
R1(config)#router bgp 65412
R1(config-router)#address-family ipv6
R1(config-router-af)#neighbor 2001:db8:0:20::2 route-map PRE-PEND out
```

R1 has a route map configured, which results in a loss of partial IPv6 prefixes for the BGP neighbor, resulting in service degradation. How can the full service be restored?

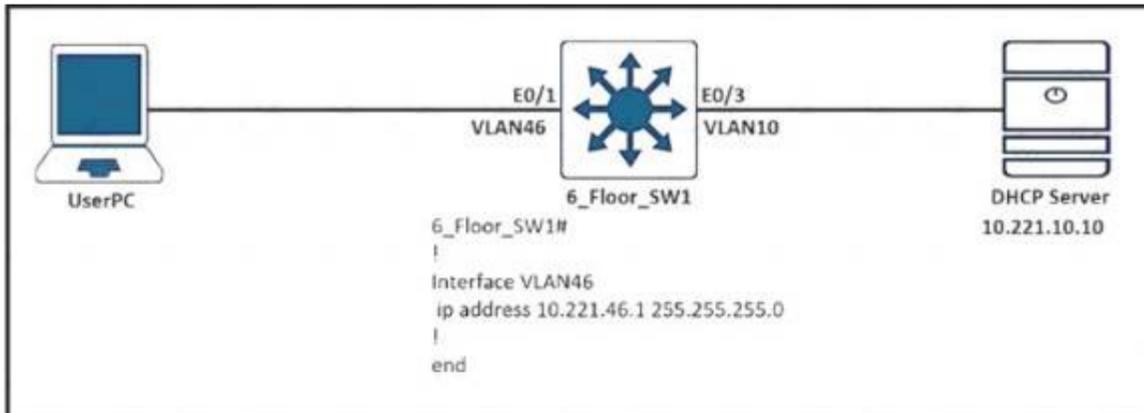
- A. The neighbor requires a soft reconfiguration, and this will clear the policy without resetting the BGP TCP connection.
- B. The prefix list requires all prefixes that R1 is advertising to be added to it, and this will allow additional prefixes to be advertised.
- C. The route map requires a deny 20 statement without set conditions, and this will allow additional prefixes to be advertised.
- D. The route map requires a permit 20 statement without set conditions, and this will allow additional prefixes to be advertised.

Answer: D

NEW QUESTION 274

- (Exam Topic 3)

Refer to the exhibit.



Users in VLAN46 cannot get the IP from the DHCP server. Assume that all the parameters are configured properly in VLAN 10 and on the DHCP server. Which command on interface VLAN46 allows users to receive IP from the DHCP server?

- A. ip dhcp-address 10.221.10.10
- B. ip dhcp server 10.221.10.10

- C. ip helper-address 10.221.10.10
- D. ip dhcp relay information trust-all

Answer: C

NEW QUESTION 276

- (Exam Topic 3)

What is an advantage of implementing BFD?

- A. BFD provides faster updates for any flapping route.
- B. BFD provides millisecond failure detection
- C. BFD is deployed without the need to run any routing protocol
- D. BFD provides better capabilities to maintain the routing table

Answer: B

NEW QUESTION 281

- (Exam Topic 3)

Refer to the exhibit.

```
access-list 1 permit 209.165.200.215
access-list 2 permit 209.165.200.216
!
interface ethernet 1
ip policy route-map Texas
!
route-map Texas permit 10
match ip address 1
set ip precedence priority
set ip next-hop 209.165.200.217
!
route-map Texas permit 20
match ip address 2
set ip next-hop 209.165.200.218
```

Packets arriving from source 209.165.200.215 must be sent with the precedence bit set to 1, and packets arriving from source 209.165.200.216 must be sent with the precedence bit set to 5. Which action resolves the issue?

- A. set ip precedence critical in route-map Texas permit 10
- B. set ip precedence critical in route-map Texas permit 20
- C. set ip precedence immediate in route-map Texas permit 10
- D. set ip precedence priority in route-map Texas permit 20

Answer: B

NEW QUESTION 284

- (Exam Topic 3)

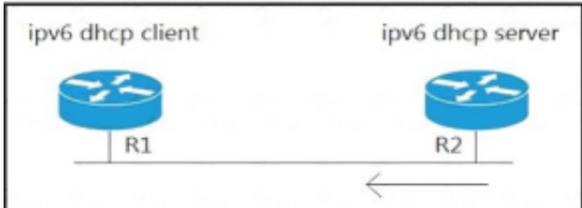
Refer to the exhibit.

```
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
```



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

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

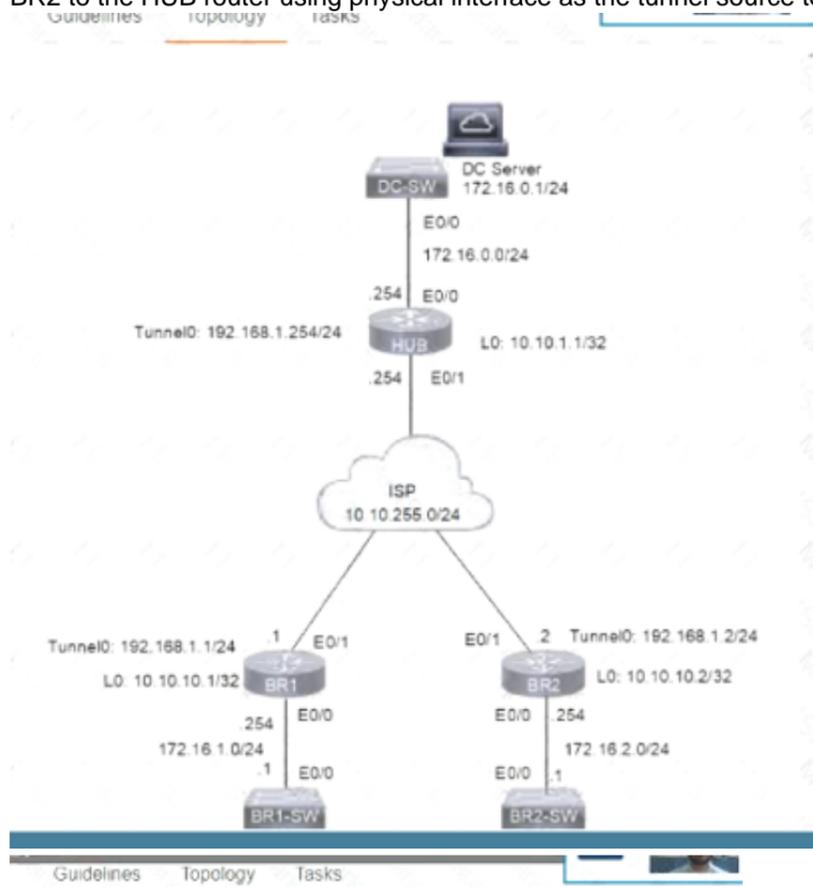
- A. ipv6 address autoconfig command on the interface
- B. ipv6 dhcp server automatic command on DHCP server
- C. ipv6 dhcp relay-agent command on the interface
- D. service dhcp command on DHCP server

Answer: A

NEW QUESTION 286

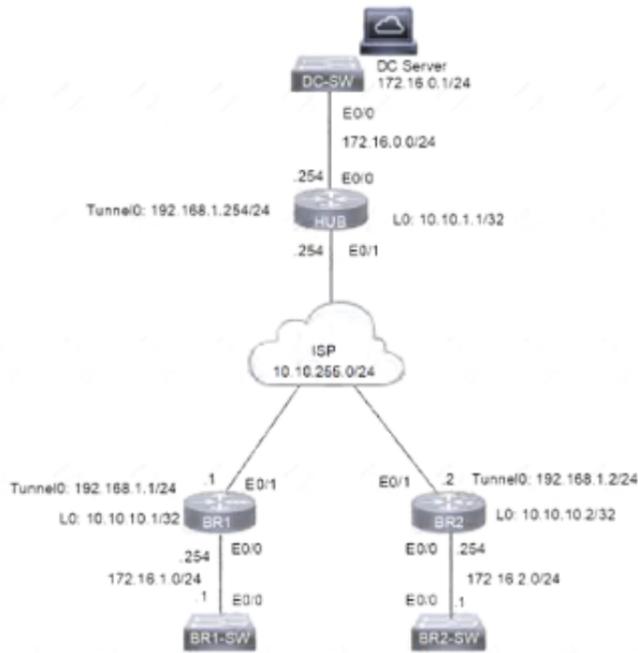
- (Exam Topic 3)

A DMVPN network is preconfigured with tunnel 0 IP address 192.168.1.254 on the HUB, IP connectivity, crypto policies, profiles, and EIGRP AS 100. The NHRP password is ccnp123, and the network ID and tunnel key is EIGRP ASN. Do not introduce a static route. Configure DMVPN connectivity between routers BR1 and BR2 to the HUB router using physical interface as the tunnel source to achieve these goals:



A DMVPN network is preconfigured with tunnel 0 IP address 192.168.1.254 on the HUB, IP connectivity, crypto policies, profiles, and EIGRP AS 100. The NHRP password is **ccnp123**, and the network ID and tunnel key is **EIGRP ASN**. Do not introduce a static route. Configure DMVPN connectivity between routers BR1 and BR2 to the HUB router using physical interface as the tunnel source to achieve these goals:

1. Configure NHRP authentication, static IP-to-NBMA address maps, hold time 5 minutes, network ID, and server on branch router BR1.
2. Configure NHRP authentication, static IP-to-NBMA address maps, hold time 5 minutes, network ID, and server on branch router BR2.
3. Ensure that packet fragmentation is done before encryption to account for GRE and IPsec header and allow a maximum TCP segment size of 1360 on an IP MTU of 1400 on the tunnel interfaces of both branch routers.
4. Apply an IPsec profile to the tunnel. Verify that direct spoke-to-spoke tunnel is functional between branch routers BR1



Topology Diagram

A DMVPN network is preconfigured with tunnel 0 IP address 192.168.1.254 on the HUB, IP connectivity, crypto policies, profiles, and EIGRP AS 100. The NHRP password is **ccnp123**, and the network ID and tunnel key is **EIGRP ASN**. Do not introduce a static route. Configure DMVPN connectivity between routers BR1 and BR2 to the HUB router using physical interface as the tunnel source to achieve these goals:

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3. Ensure that packet fragmentation is done before encryption to account for GRE and IPsec header and allow a maximum TCP segment size of 1360 on an IP MTU of 1400 on the tunnel interfaces of both branch routers.
4. Apply an IPsec profile to the tunnel. Verify that direct spoke-to-spoke tunnel is functional between branch routers BR1 and BR2 by using traceroute to Ethernet 0/0 IP address to get a full score.

Submit feedback about this item.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

ON BR1

```
Current configuration : 405 bytes
!
interface Tunnel0
 ip address 192.168.1.1 255.255.255.0
 no ip redirects
 ip mtu 1400
 ip nhrp authentication ccnp123
 ip nhrp map 192.168.1.254 10.10.255.254
 ip nhrp map multicast 10.10.255.254
 ip nhrp network-id 100
 ip nhrp holdtime 5
 ip nhrp nhs 192.168.1.254
 ip nhrp shortcut
 ip tcp adjust-mss 1360
 delay 1000
 tunnel source 10.10.255.1
 tunnel destination 10.10.255.254
 tunnel key 100
end
BR1(config)#
BR1(config)#
```

ON BR2

```

DC-SW  HUB  BR1  BR1-SW  BR2  BR2-SW
UpDn Time --> Up or Down Time for a Tunnel

Interface: Tunnel0, IPv4 NHRP Details
Type:Spoke, NHRP Peers:1,

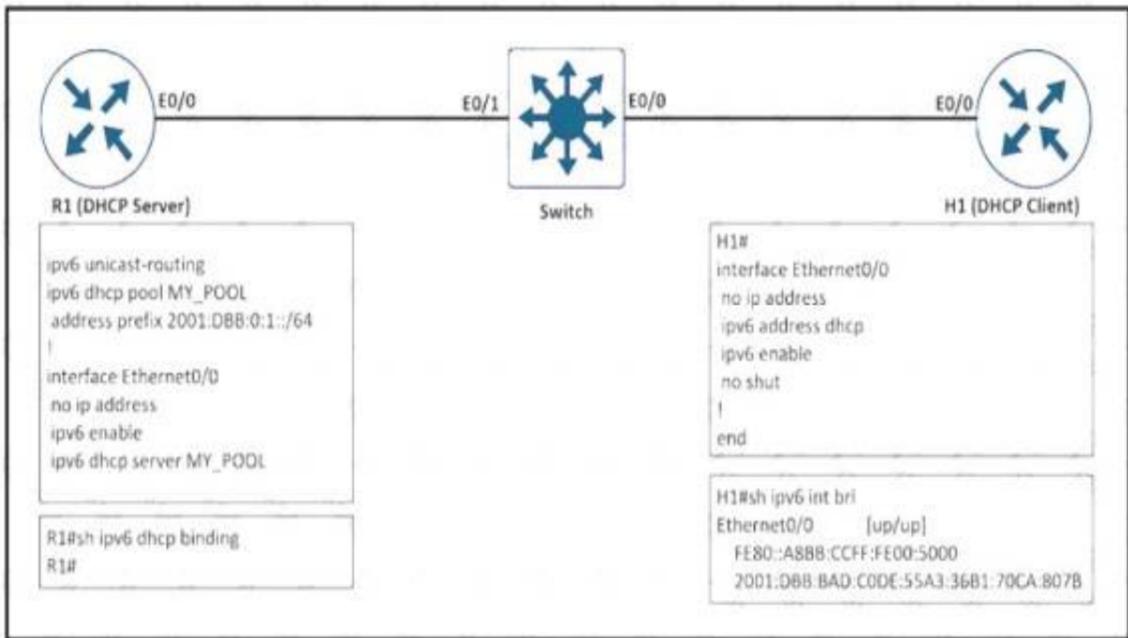
# Ent Peer NBMA Addr Peer Tunnel Add State UpDn Tm Attrb
-----
1 10.10.255.254 192.168.1.254 NHRP 00:17:20 S

BR2(config)#do show run int tu 0
Building configuration...

Current configuration : 404 bytes
!
interface Tunnel0
 ip address 192.168.1.2 255.255.255.0
 no ip redirects
 ip mtu 1400
 ip nhrp authentication csnpl23
 ip nhrp map 192.168.1.254 10.10.255.254
 ip nhrp map multicast 10.10.255.254
 ip nhrp network-id 100
 ip nhrp holdtime 5
 ip nhrp nhs 192.168.1.254
 ip nhrp shortcut
 ip tcp adjust-mss 1360
 delay 1000
 tunnel source 10.10.10.2
 tunnel destination 10.10.255.254
 tunnel key 100
end
    
```

NEW QUESTION 288

- (Exam Topic 3)



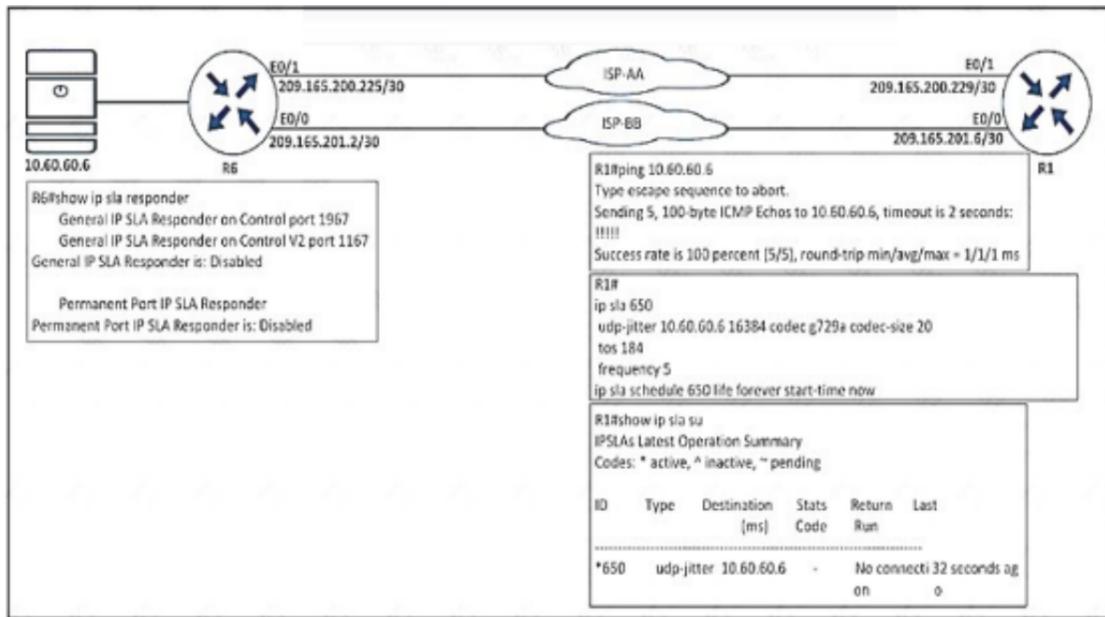
Refer to the exhibit. The client server but the show command does not show the IPv6 DHCP bindings on the server. Which action resolves the issue?

- A. Extend the DHCP lease time because R1 removed the IPv6 address earlier after the lease expired.
- B. Configure H1 as the DHCP client that manually assigns the IPv6 address on interlace e0/0..
- C. Use the 2001:DBB:BAD:CODE::/64 prefix for the DHCP pool on R1.
- D. Configure authorized DHCP servers to avoid IPv6 addresses from a rogue DHCP server.

Answer: C

NEW QUESTION 289

- (Exam Topic 3)



Refer to the exhibit. Which configuration resolves the IP SLA issue from R1 to the server?

- A. R6(config)#ip sla responder
- B. R6(config)#ip sla responder udp-echo ipaddress 10.60.60.6 po 5000
- C. R6(config)#ip sla 650 R6(config-ip-sla)ff udp-jitter 10.60.60.6
- D. R6(config)#ip sla schedule 10 life forever start-time now

Answer: A

NEW QUESTION 290

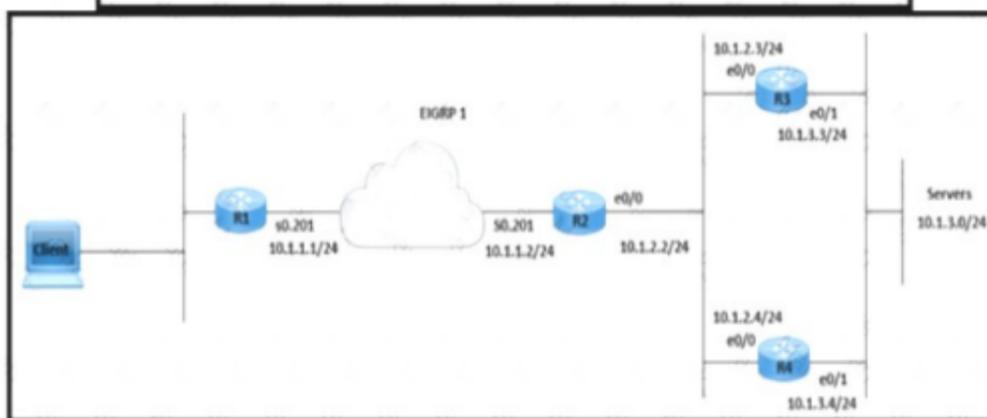
- (Exam Topic 3)

Exhibit.

```

R2# show ip eigrp topology 10.1.3.0 255.255.255.0

IP-EIGRP (AS 1): topology entry for 10.1.3.0/24
State is Passive, Query origin flag is 1, 1 Successor(s), FD is 307200
Routing Descriptor Blocks:
10.1.2.3 (Ethernet0), from 10.1.2.3, Send flag is 0x0
Composite metric is (307200/281600), Route is Internal
Vector metric:
Minimum bandwidth is 10000 Kbit
Total delay is 2000 microseconds
Reliability is 255/255
Load is 1/255
Minimum MTU is 1500
Hop count is 1
10.1.2.4 (Ethernet0), from 10.1.2.4, Send flag is 0x0
Composite metric is (312320/286720), Route is Internal
Vector metric:
Minimum bandwidth is 10000 Kbit
Total delay is 2200 microseconds
Reliability is 255/255
Load is 1/255
Minimum MTU is 1500
Hop count is 1
    
```



Refer to the exhibit. A network is configured for EIGRP equal-cost load balancing, but the traffic destined to the servers is not load balanced. Link metrics from router R2 to R3 and R4 are the same. Which delay value must be configured to resolve the issue?

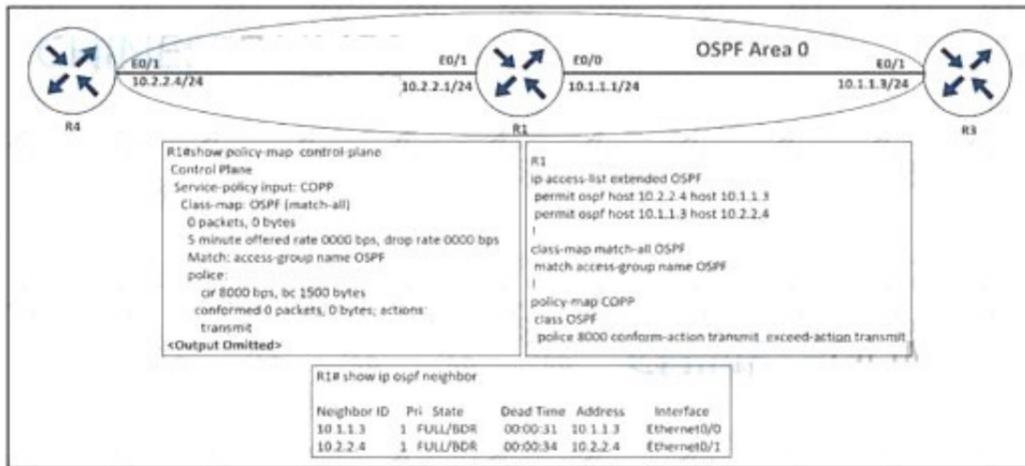
- A. 208 on R3 E0/0
- B. 120 on R4 E0/1
- C. 120/on R3 E0/1
- D. 2200 on R4 E0/1

Answer: C

NEW QUESTION 294

- (Exam Topic 3)

Refer to the exhibit.



An engineer implemented CoPP but did not see OSPF traffic going through it. Which configuration resolves the issue?

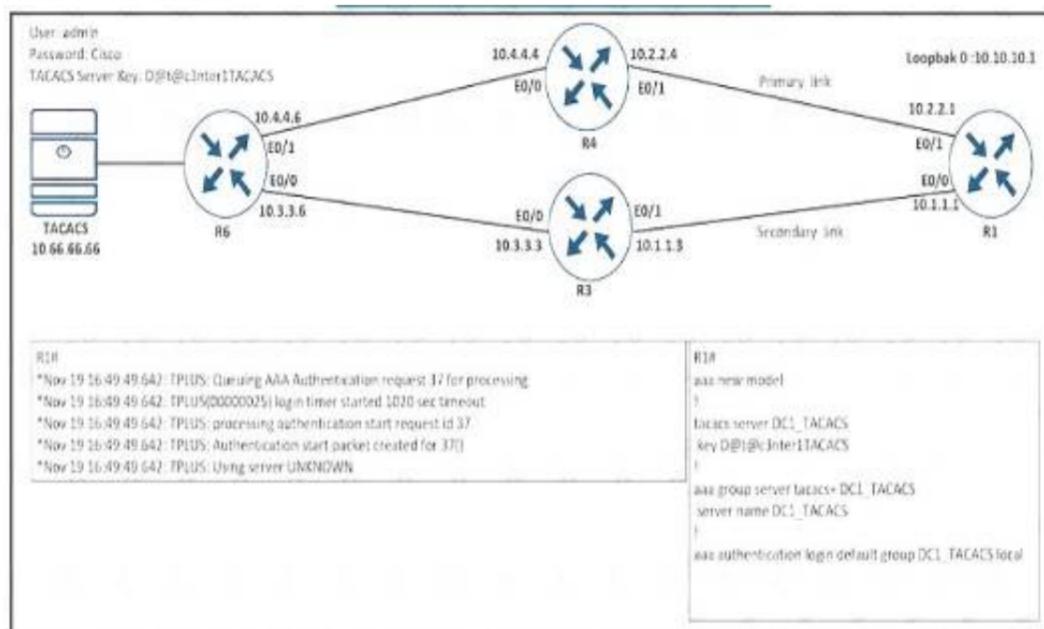
- A. ip access-list extended OSPF permit ospf any any
- B. policy-map COPP class OSFP police 8000 conform-action transmit exceed-action transmit violate-action drop
- C. control-plane service-policy input COPP
- D. class-map match-all OSFP match access-group name OSPF

Answer: B

NEW QUESTION 297

- (Exam Topic 3)

Refer to the exhibit.



Refer to the exhibit

R1 cannot authenticate via TACACS

Which configuration resolves the issue?

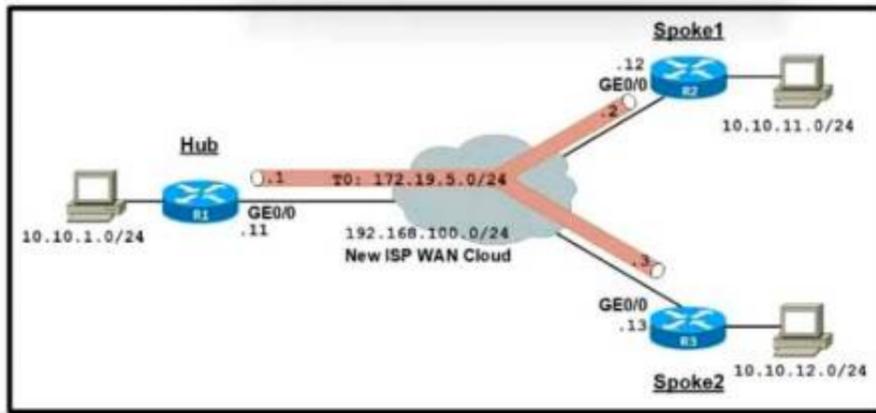
- aaa group server tacacs+ DC_TACACS server name DC_TACACS
- tacacs server DC1_TACACS address ipv4 10.66.66.66 key D@t@c3nter1TACACS
- aaa group server tacacs+ DC1_TACACS server name DC_TACACS
- tacacs server DC1_TACACS address ipv4 10.60.66.66 key D@t@c3nter1TACACS

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

Answer: B

NEW QUESTION 298

- (Exam Topic 3)



```

R1
interface Tunnel0
ip address 172.19.5.1 255.255.255.0
ip nhrp authentication t81i$C0
ip nhrp map multicast dynamic
ip nhrp network-id 10
ip ospf network broadcast
ip ospf priority 255
tunnel source 192.168.100.11
tunnel mode gre multipoint
tunnel key 100

R2
interface Tunnel0
ip address 172.19.5.2 255.255.255.0
ip nhrp authentication t81i$C0
ip nhrp map multicast 192.168.100.11
ip nhrp map 172.19.5.1 192.168.100.11
ip nhrp network-id 10
ip ospf network broadcast
ip ospf priority 0
tunnel source 192.168.100.12
tunnel destination 192.168.100.11
tunnel key 100

R3
interface Tunnel0
ip address 172.19.5.3 255.255.255.0
ip nhrp authentication t81i$C0
ip nhrp map multicast 192.168.100.11
ip nhrp map 172.19.5.1 192.168.100.11
ip nhrp network-id 10
ip ospf network broadcast
ip ospf priority 0
tunnel source 192.168.100.13
tunnel destination 192.168.100.11
tunnel key 100
    
```

Refer to the exhibit. An organization is installing a new L3 MPLS link to establish DM VPN Phase 2 tunnels between the hub and two spoke routers Which additional configuration should the engineer implement on each device to achieve optimal routing between the spokes?

A)

```

interface Tunnel0
no tunnel destination 192.168.100.11
tunnel mode mpls traffic-eng
    
```

B)

```

interface Tunnel0
ip ospf priority 1
ip ospf network non-broadcast
    
```

C)

```

interface Tunnel0
no tunnel destination 192.168.100.11
tunnel mode gre multipoint
    
```

D)

```

interface Tunnel0
ip ospf priority 253
ip ospf network point-to-multipoint
    
```

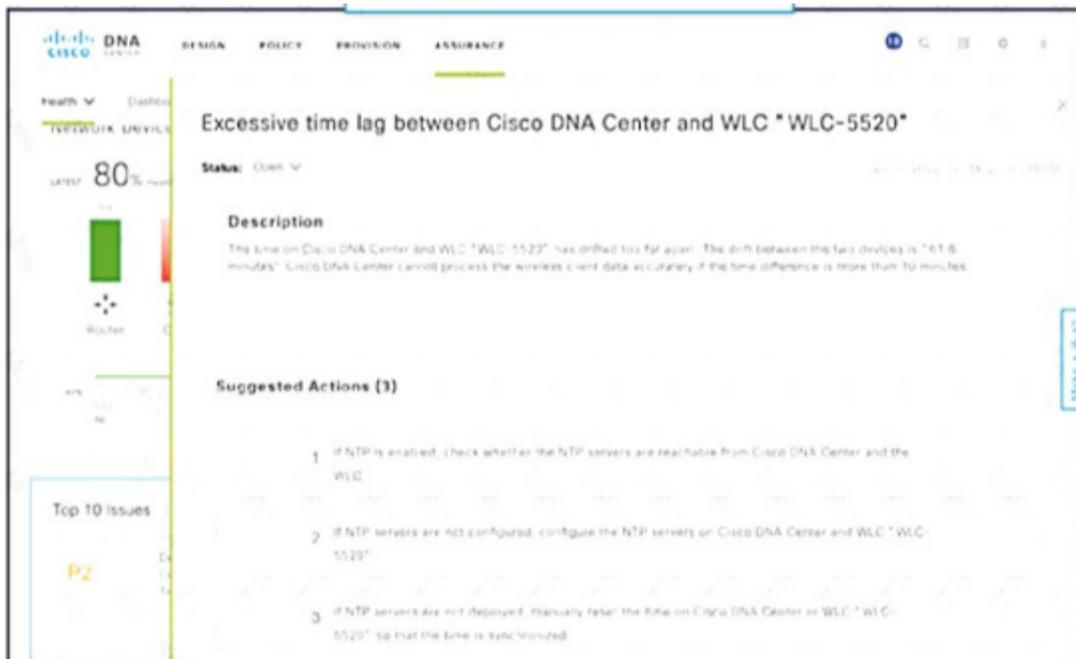
- A. Option A
- B. Option B
- C. Option C
- D. Option D

Answer: C

NEW QUESTION 301

- (Exam Topic 2)

Exhibit:



NTP is configured across the network infrastructure and Cisco DNA Center. An NTP issue was reported on the Cisco DNA Center at 17:15. Which action resolves the issue?

- A. Check and resolve reachability between the WLC and the NTP server
- B. Reset the NTP server to resolve any synchronization issues for all devices
- C. Check and resolve reachability between Cisco DNA Center and the NTP server
- D. Check and configure NTP on the WLC and synchronize with Cisco DNA Center

Answer: D

Explanation:

Excessive time lag between Cisco DNA Center and device: The time difference between Cisco DNA Center and the device IP Address has drifted too far apart. CiscoDNA Center cannot process the device data accurately if the time difference is more than 3 minutes.

Reference:

<https://www.cisco.com/c/en/us/td/docs/cloud-systems-management/network-automation-and-management/dna-c>

NEW QUESTION 305

- (Exam Topic 2)

Refer to the exhibit.

```

ipv6 access-list inbound
 permit tcp any any
 deny ipv6 any any log
 !
 interface gi0/0
  ipv6 traffic-filter inbound out
  
```

A network administrator configured an IPv6 access list to allow TCP return frame only, but it is not working as expected. Which changes resolve this issue?

- `ipv6 access-list inbound`
`permit tcp any any established`
`deny ipv6 any any log`
`!`
`interface gi0/0`
`ipv6 traffic-filter inbound out`
- `ipv6 access-list inbound`
`permit tcp any any syn`
`deny ipv6 any any log`
`!`
`interface gi0/0`
`ipv6 traffic-filter inbound out`
- `ipv6 access-list inbound`
`permit tcp any any established`
`deny ipv6 any any log`
`!`
`interface gi0/0`
`ipv6 traffic-filter inbound in`
- `ipv6 access-list inbound`
`permit tcp any any syn`
`deny ipv6 any any log`
`!`
`interface gi0/0`
`ipv6 traffic-filter inbound in`

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

Answer: C

Explanation:

https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst3750/software/release/122_55_se/configuration/guid

NEW QUESTION 307

- (Exam Topic 2)

Refer to the exhibit.

```

ipv6 access-list INTERNET
 permit ipv6 2001:DB8:AD59:BA21::/64 2001:DB8:C0AB:BA14::/64
 permit tcp 2001:DB8:AD59:BA21::/64 2001:DB8:C0AB:BA13::/64 eq telnet
 permit tcp 2001:DB8:AD59:BA21::/64 any eq http
 permit ipv6 2001:DB8:AD59::/48 any
 deny ipv6 any any log
  
```

When monitoring an IPv6 access list, an engineer notices that the ACL does not have any hits and is causing unnecessary traffic to pass through the interface

Which command must be configured to resolve the issue?

- A. access-class INTERNET in
- B. ipv6 traffic-filter INTERNET in
- C. ipv6 access-class INTERNET in
- D. ip access-group INTERNET in

Answer: C

NEW QUESTION 312

- (Exam Topic 2)

Refer to the exhibit.

```
*Jun 24 08:54:51.530: IF-EvD(GigabitEthernet0/0): IP Routing reports state transition from DOWN to DOWN
*Jun 24 08:54:52.525: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to down
*Jun 24 08:54:52.528: IF-EvD(GigabitEthernet0/0): IP Routing reports state transition from DOWN to DOWN
*Jun 24 08:54:53.215: IF-EvD(GigabitEthernet0/0): IP Routing reports state transition from DOWN to DOWN
*Jun 24 08:54:54.998: %LINK-3-UPDOWN: Interface GigabitEthernet0/0, changed state to up
*Jun 24 08:54:55.006: IF-EvD(GigabitEthernet0/0): IP Routing reports state transition from DOWN to UP
*Jun 24 08:54:55.998: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up
```

R1 is connected with R2 via GigabitEthernet0/0, and R2 cannot ping R1. What action will fix the issue?

- A. Fix route dampening configured on the router.
- B. Replace the SFP module because it is not supported.
- C. Fix IP Event Dampening configured on the interface.
- D. Correct the IP SLA probe that failed.

Answer: C

Explanation:

The IP Event Dampening feature introduces a configurable exponential decay mechanism to suppress the effects of excessive interface flapping events on routing protocols and routing tables in the network. This feature allows the network operator to configure a router to automatically identify and selectively dampen a local interface that is flapping.

NEW QUESTION 315

- (Exam Topic 2)

```
R1
interface Loopback0
 ip address 172.16.1.1 255.255.255.255
interface FastEthernet0/0
 ip address 192.168.12.1 255.255.255.0
router eigrp 100
 no auto-summary
 network 192.168.12.0
 network 172.16.0.0
 neighbor 192.168.12.2 FastEthernet0/0

R2
interface Loopback0
 ip address 172.16.2.2 255.255.255.255
interface FastEthernet0/0
 ip address 192.168.12.2 255.255.255.0
router eigrp 100
 network 192.168.12.0
 network 172.16.0.0
 neighbor 192.168.12.1 FastEthernet0/0
 passive-interface FastEthernet0/0
```

Refer to the exhibit. R1 and R2 cannot establish an EIGRP adjacency. Which action establishes EIGRP adjacency?

- A. Remove the current autonomous system number on one of the routers and change to a different value.
- B. Remove the passive-interface command from the R2 configuration so that it matches the R1 configuration.
- C. Add the no auto-summary command to the R2 configuration so that it matches the R1 configuration.
- D. Add the passive-interface command to the R1 configuration so that it matches the R2 configuration.

Answer: B

NEW QUESTION 317

- (Exam Topic 2)

Refer to the exhibit.

```
admin@linux:~$ scp script.py admin@198.51.100.64:script.py
Password:
Administratively disabled.
admin@linux:~$ Connection to 198.51.100.64 closed by remote
host.
```

A network administrator has developed a Python script on the local Linux machine and is trying to transfer it to the router. However, the transfer fails. Which action resolves this issue?

- A. The SSH service must be enabled with the crypto key generate rsa command.
- B. The SCP service must be enabled with the ip scp server enable command.
- C. The Python interpreter must first be enabled with the guestshell enable command.
- D. The SSH access must be allowed on the VTY lines using the transport input ssh command.

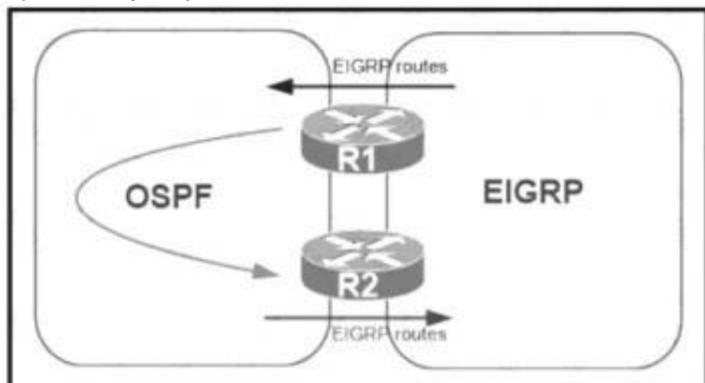
Answer: B

Explanation:

The error "Administratively disabled" means we need to enable SCP on the router with the command: Router(config)#ip scp server enable

NEW QUESTION 322

- (Exam Topic 2)



Refer to the exhibit. A network administrator configured mutual redistribution on R1 and R2 routers, which caused instability in the network. Which action resolves the issue?

- A. Set a tag in the route map when redistributing EIGRP into OSPF on R1. and match the same tag on R2 to deny when redistributing OSPF into EIGRP.
- B. Set a tag in the route map when redistributing EIGRP into OSPF on R1. and match the same tag on R2 to allow when redistributing OSPF into EIGRP.
- C. Advertise summary routes of EIGRP to OSPF and deny specific EIGRP routes when redistributing into OSPF.
- D. Apply a prefix list of EIGRP network routes in OSPF domain on R1 to propagate back into the EIGRP routing domain.

Answer: A

Explanation:

When doing mutual redistribution at multiple points (between OSPF and EIGRP on R1 & R2), we may create routing loops so we should use route-map to prevent redistributed routes from redistributing again into the original domain.

In the below example, the route-map "SET-TAG" is used to prevent any routes that have been redistributed into EIGRP from redistributed again into OSPF domain by tagging these routes with tag 1:

```
R3
route-map SET-TAG permit 10
set tag 1
```

These routes are prevented from redistributed again by route-map FILTER_TAG by denying any routes with tag 1 set:

```
R4
route-map FILTER-TAG deny 10
match tag 1
```

NEW QUESTION 324

- (Exam Topic 2)

What are two characteristics of VRF instance? (Choose two.)

- A. All VRFs share customers routing and CEF tables .
- B. An interface must be associated to one VRF.
- C. Each VRF has a different set of routing and CEF tables
- D. It is defined by the VPN membership of a customer site attached to a P device.
- E. A customer site can be associated to different VRFs

Answer: BC

Explanation:

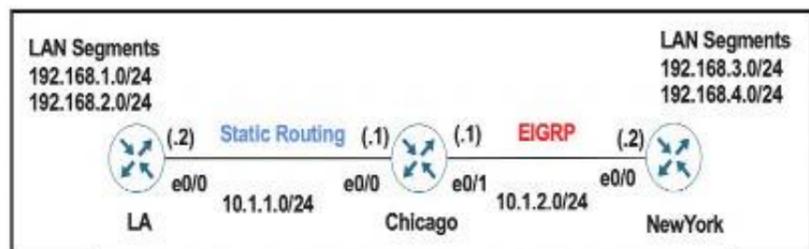
Reference:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipswitch_cef/configuration/xe-3s/isw-cef-xe-3s-book/isw-cef
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_l3_vpns/configuration/15-s/mp-l3-vpns-15-s-book/mp-b

NEW QUESTION 328

- (Exam Topic 2)

Refer to the exhibits.



```

Chicago Router

ip route 192.168.1.0 255.255.255.0 10.1.1.2
ip route 192.168.2.0 255.255.255.0 10.1.1.2
!
router eigrp 100
 redistribute static

LA Router

ip route 0.0.0.0 0.0.0.0 10.1.1.1
    
```

A user on the 192.168.1.0/24 network can successfully ping 192.168.3.1, but the administrator cannot ping 192.168.3.1 from the LA router. Which set of configurations fixes the issue?

- A) **Chicago Router**
 router eigrp 100
 redistribute static metric 10 10 10 10 10
- B) **Chicago Router**
 router eigrp 100
 redistribute connected
- C) **Chicago Router**
 ip route 192.168.3.0 255.255.255.0 10.1.2.2
 ip route 192.168.4.0 255.255.255.0 10.1.2.2
- D) **LA Router**
 ip route 192.168.3.0 255.255.255.0 10.1.1.1
 ip route 192.168.4.0 255.255.255.0 10.1.1.1

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

Answer: B

NEW QUESTION 332

- (Exam Topic 2)

An engineer configured SNMP notifications sent to the management server using authentication and encrypting data with DES. An error in the response PDU is received as "UNKNOWNUSERNAME. WRONGDIGEST". Which action resolves the issue?

- A. Configure the correct authentication password using SNMPv3 authPriv .
- B. Configure the correct authentication password using SNMPv3 authNoPriv.
- C. Configure correct authentication and privacy passwords using SNMPv3 authNoPriv.
- D. Configure correct authentication and privacy passwords using SNMPv3 authPriv.

Answer: D

Explanation:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/snmp/configuration/xe-3se/3850/snmp-xe-3se-3850-book/nm>

NEW QUESTION 336

- (Exam Topic 2)

Which two protocols work in the control plane of P routers across the MPLS cloud? (choose two)

- A. LSP
- B. RSVP
- C. ECMP
- D. LDP
- E. MPLS OAM

Answer: BD

NEW QUESTION 337

- (Exam Topic 2)

```

Ipv6 unicast-routing
!
Router ospfv3 4
  Router-id 192.168.1.1
!
Interface E 0/0
  Ipv6 enable
  Ip address 10.1.1.1 255.255.255.0
  Ospf3 4 area 0 ipv4
  No shut
!
Interface Loopback0
  Ipv6 enable
  Ipv4 172.16.1.1 255.255.255.0
  Ospf3 4 area 0 ipv4

```

Refer to the exhibit. The network administrator configured the branch router for IPv6 on the E 0/0 interface. The neighboring router is fully configured to meet requirements, but the neighbor relationship is not coming up. Which action fixes the problem on the branch router to bring the IPv6 neighbors up?

- A. Enable the IPv4 address family under the E 0/0 interface by using the address-family ipv4 unicast command
- B. Disable IPv6 on the E 0/0 interface using the no ipv6 enable command
- C. Enable the IPv4 address family under the router ospfv3 4 process by using the address-family ipv4 unicast command
- D. Disable OSPF for IPv4 using the no ospfv3 4 area 0 ipv4 command under the E 0/0 interface.

Answer: C

Explanation:

Once again, Cisco changed the IOS configuration commands required for OSPFv3 configuration. The new OSPFv3 configuration uses the "ospfv3" keyword instead of the earlier "ipv6 router ospf" routing process command and "ipv6 ospf" interface commands. The Open Shortest Path First version 3 (OSPFv3) address families feature enables both IPv4 and IPv6 unicast traffic to be supported. With this feature, users may have two processes per interface, but only one process per address family (AF).

NEW QUESTION 340

- (Exam Topic 2)

Refer to the exhibit.

```

router ospf 1
  redistribute eigrp 1 subnets route-map EIGRP->OSPF
!
router eigrp 1
  network 10.0.106.0 0.0.0.255
!
route-map EIGRP->OSPF permit 10
  match ip address WAN_PREFIXES
route-map EIGRP->OSPF permit 20
  match ip address LOCAL_PREFIXES
route-map EIGRP->OSPF permit 30
  match ip address VPN_PREFIXES
!
ip prefix-list LOCAL_PREFIXES seq 5 permit 172.16.0.0/12 le 24
ip prefix-list VPN_PREFIXES seq 5 permit 192.168.0.0/16 le 24
ip prefix-list WAN_PREFIXES seq 5 permit 10.0.0.0/8 le 24
!

```

The network administrator configured redistribution on an ASBR to reach to all WAN networks but failed. Which action resolves the issue?

- A. The route map must have the keyword prefix-list to evaluate the prefix list entries
- B. The OSPF process must have a metric when redistributing prefixes from EIGRP.
- C. The route map EIGRP->OSPF must have the 10.0.106.0/24 entry to exist in one of the three prefix lists to pass
- D. EIGRP must redistribute the 10.0.106.0/24 route instead of using the network statement

Answer: A

Explanation:

In order to use a prefix-list in a route-map, we must use the keyword "prefix-list" in the "match" statement. For example:
 match ip address prefix-list WAN_PREFIXES
 Without this keyword, the router will try to find an access-list with the same name instead.

NEW QUESTION 344

- (Exam Topic 2)

An engineer configured a Cisco router to send reliable and encrypted notifications for any events to the management server. It was noticed that the notification messages are reliable but not encrypted. Which action resolves the issue?

- A. Configure all devices for SNMPv3 informs with priv.
- B. Configure all devices for SNMPv3 informs with auth.
- C. Configure all devices for SNMPv3 traps with auth.
- D. Configure all devices for SNMPv3 traps with priv.

Answer: A

Explanation:

SNMP notifications can be sent as traps or inform requests. Traps are unreliable because the receiver does not send acknowledgments when this device receives traps. "Send reliable and encrypted notifications for any events" so it is SNMP notifications. For encryption we need to configure "priv".

NEW QUESTION 349

- (Exam Topic 2)

Refer to the exhibit.

```

R1#sh bgp ipv6 sum
BGP router identifier 1.1.1.1, local AS number 6501
BGP table version is 1, main routing table version 1

Neighbor      V  AS  MsgRcvd  MsgSent  TblVer  InQ  OutQ  Up/Down  State/PfxRcd
AB01:2011:7:100::3  4  6502    0         0         1     0     0      never      Idle

R1#debug ip bgp all
* Nov 8 17:22:11.223: BGP: AB01:2011:7:100::3 active went from Idle to Active
* Nov 8 17:22:11.223: BGP: AB01:2011:7:100::3 open active, local address AB01:2011:7:100::1
* Nov 8 17:22:11.224: BGP: AB01:2011:7:100::3 open failed: Connection refused by remote host
* Nov 8 17:22:11.224: BGP: AB01:2011:7:100::3 Active open failed - tcb is not available, open active delayed 11264 ms (35000ms max, 60% jitter)
* Nov 8 17:22:11.224: BGP: ses global AB01:2011:7:100::3 (0xC3F49FF0:0) act Reset (Active open failed)
* Nov 8 17:22:11.232: BGP: AB01:2011:7:100::3 active went from Active to Idle
* Nov 8 17:22:11.232: BGP: nrb global AB01:2011:7:100::3 Active open failed - open timer running

R1#ping ipv6 AB01:2011:7:100::3
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to AB01:2011:7:100::3, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 1/1/1 ms
    
```

An engineer configured BGP between routers R1 and R3. The BGP peers cannot establish neighbor adjacency to be able to exchange routes. Which configuration resolves this issue?

- A. R3router bgp 6502 address-family ipv6neighbor AB01:2011:7:100::1 activate
- B. R1router bgp 6501 address-family ipv6neighbor AB01:2011:7:100::3 activate
- C. R3router bgp 6502neighbor AB01:2011:7:100::1 ebgp-multihop 255
- D. R1router bgp 6501 neighborAB01:2011:7:100::3ebgp-multihop255

Answer: A

Explanation:

From the output, we learned that R1 was trying to establish BGP neighbor relationship with R3 but failed. Both of them were using physical interface to establish neighbor relationship so we don't need the "... ebgp-multihop" command here. The only reasonable answer is R3 has not been configured to activate BGP neighbor relationship with R1.

NEW QUESTION 350

- (Exam Topic 2)

Refer to Exhibit.

```

HQ_R2 group
BRANCH(config)# ip route 0.0.0.0 0.0.0.0 172.16.35.2 track 1
BRANCH(config)# ip route 0.0.0.0 0.0.0.0 172.16.35.6 5
!
BRANCH(config)# ip sla 1
BRANCH(config-ip-sla)# icmp-echo 172.16.35.6
BRANCH(config-ip-sla)# timeout 200
BRANCH(config-ip-sla)# frequency 5
!
BRANCH(config)# ip sla schedule 1 life forever start-time now
!
BRANCH(config)# track 1 ip sla 1 reachability
    
```

Traffic from the branch network should route through HQ R1 unless the path is unavailable. An engineer tests this functionality by shutting down interface on the BRANCH router toward HQ_R1 router but 192.168.20.0/24 is no longer reachable from the branch router. Which set of configurations resolves the issue?

- A. HQ_R1(config)# ip sla responderHQ_R1(config)# ip sla responder icmp-echo 172.16.35.2
- B. BRANCH(config)# ip sla 1BRANCH(config-ip-sla)# icmp-echo 172.16.35.1
- C. HQ_R2(config)# ip sla responderHQ_R2(config)# ip sla responder icmp-echo 172.16.35.5
- D. BRANCH(config)# ip sla 1BRANCH(config-ip-sla)# icmp-echo 172.16.35.2

Answer: D

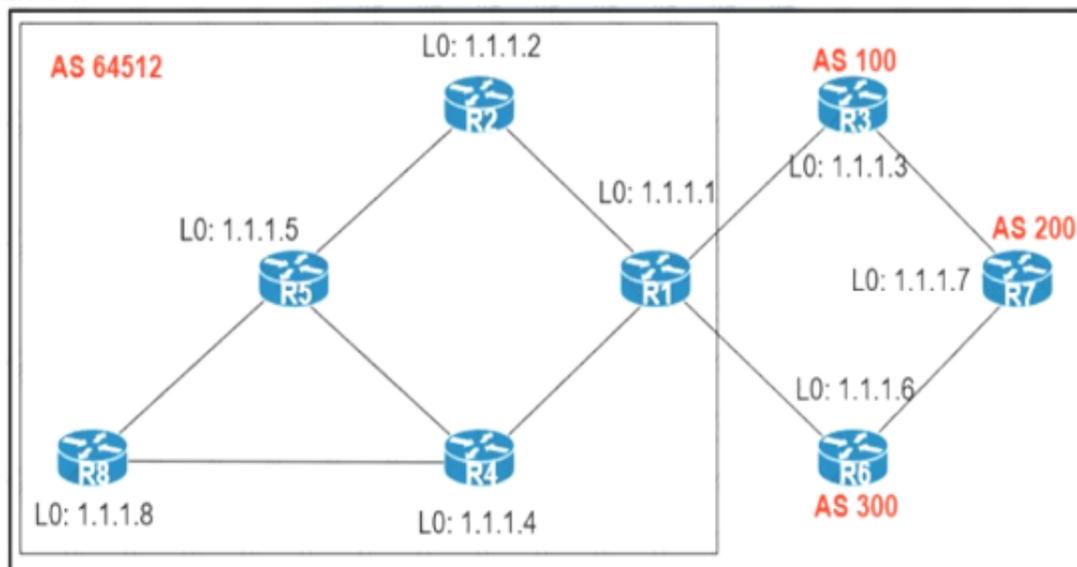
Explanation:

In the configuration above, the engineer has made a mistake as he was tracking 172.16.35.6 (the backup path) instead of tracking the main path (172.16.35.2). Therefore, when he shut down the main path, the track 1 was still up so traffic still went through the main path -> it failed. To fix this issue, we just need to correct the tracking interface of the main path.

NEW QUESTION 353

- (Exam Topic 2)

Exhibit:



An engineer configured R2 and R5 as route reflectors and noticed that not all routes are sent to R1 to advertise to the eBGP peers. Which iBGP routers must be configured as route reflectors to advertise all routes to restore reachability across all networks?

- A. R1 and R4
- B. R1 and R5
- C. R4 and R5
- D. R2 and R5

Answer: C

Explanation:

When R2 & R5 are route reflectors (RRs), routes from R4 & R8 are advertised to R5 and R5 advertises to R2. But R2 would drop them as R2 is also a RR. Therefore some routes are missing on R1 to advertise to eBGP peers.
 Good reference: <https://www.ciscolive.com/c/dam/r/ciscolive/emea/docs/2015/pdf/TECRST-2310.pdf>
 Route reflectors (RR) must be fully iBGP meshed so we cannot configure RR on both R1 and R5.
 We should choose routers at the center of the topology RRs, in this case R4 & R5.

NEW QUESTION 354

- (Exam Topic 2)

An engineer configured two routers connected to two different service providers using BGP with default attributes. One of the links is presenting high delay, which causes slowness in the network. Which BGP attribute must the engineer configure to avoid using the high-delay ISP link if the second ISP link is up?

- A. LOCAL_PREF
- B. MED
- C. WEIGHT
- D. AS-PATH

Answer: A

NEW QUESTION 358

- (Exam Topic 2)

Refer to Exhibit.

```

ip dhcp excluded-address 172.16.16.1 172.16.16.2
!
ip dhcp pool 0
network 172.16.16.0 255.255.255.0
domain-name cisco.com
dns-server 172.16.16.2
lease 30

interface Ethernet0/0
ip address 10.1.1.1 255.255.255.252
ip access-group 100 in

access-list 100 deny udp any any
access-list 100 permit ip any any
    
```

Which two configurations allow clients to get dynamic ip addresses assigned?

- A. Configure access-list 100 permit udp any any eq 61 as the first line
- B. Configure access-list 100 permit udp any any eq 86 as the first line
- C. Configure access-list 100 permit udp any any eq 68 as the first line
- D. Configure access-list 100 permit udp any any eq 69 as the first line
- E. Configure access-list 100 permit udp any any eq 67 as the first line

Answer: CE

Explanation:

A DHCP server that receives a DHCPDISCOVER message may respond with a DHCPOFFER message on UDP port 68 (BootP client).

...

In the event that the DHCP server is not on the local subnet, the DHCP server will send the DHCPOFFER, as a unicast packet, on UDP port 67, back to the DHCP/BootP Relay Agent from which the DHCPDISCOVER came.

Reference:

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

NEW QUESTION 363

- (Exam Topic 2)

How are MPLS Layer 3 VPN services deployed?

- A. The RD and RT values must match under the VRR
- B. The RD and RT values under a VRF must match on the remote PE router
- C. The import and export RT values under a VRF must always be the same.
- D. The label switch path must be available between the local and remote PE routers.

Answer: D

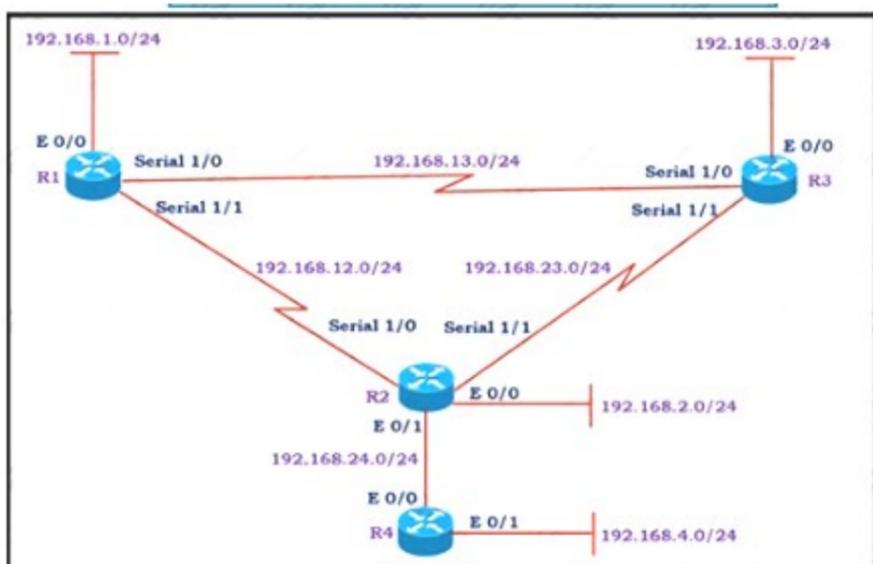
Explanation:

<https://www.cisco.com/c/en/us/td/docs/iosxr/ncs5500/vpn/65x/b-l3vpn-cg-ncs5500-65x/b-l3vpn-cg-ncs5500-65> The ingress PE router must be able to reach the egress PE router for a packet to be relayed to its destination.

NEW QUESTION 367

- (Exam Topic 2)

Refer to the exhibit.



```
# Show IP route on R1
 192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C   192.168.1.0/24 is directly connected, Ethernet0/0
L   192.168.1.1/32 is directly connected, Ethernet0/0
D   192.168.2.0/24 [90/2297856] via 192.168.12.2, 00:02:14, Serial1/1
S   192.168.3.0/24 [1/0] via 192.168.12.2
 192.168.12.0/24 is variably subnetted, 2 subnets, 2 masks
C   192.168.12.0/24 is directly connected, Serial1/1
L   192.168.12.1/32 is directly connected, Serial1/1
 192.168.13.0/24 is variably subnetted, 2 subnets, 2 masks
C   192.168.13.0/24 is directly connected, Serial1/0
L   192.168.13.1/32 is directly connected, Serial1/0
D   192.168.23.0/24 [90/2681856] via 192.168.13.3, 00:06:38, Serial1/0
    [90/2681856] via 192.168.12.2, 00:06:38, Serial1/1
```

All the serial between R1, R2, and R3 have the Same bandwidth. User on the 192.168.1.0/24 network report slow response times while they access resource on network 192.168.3.0/24. When a traceroute is run on the path. It shows that the packet is getting forwarded via R2 to R3 although the link between R1 and R3 is still up. What must the network administrator to fix the slowness?

- A. Change the Administrative Distance of EIGRP to 5.
- B. Add a static route on R1 using the next hop of R3.
- C. Remove the static route on R1.
- D. Redistribute the R1 route to EIGRP

Answer: C

NEW QUESTION 368

- (Exam Topic 2)

Refer to the exhibit.

```

Configuration Output:
aaa new-model
!
aaa authentication login default local
aaa authentication login VTY_AUTH local
aaa authorization exec default none
aaa authorization exec VTY_AUTH local
aaa accounting exec default start-stop group radius
!

password 7 K0AyUubDrfOgO4s
authorization exec VTY_AUTH
login authentication VTY_AUTH
!

Debug Output:
AAA/AUTHEN/LOGIN (000004B6): Pick method list 'default'
AAA/AUTHOR (0x4B6): Pick method list 'VTY_AUTH'
AAA/AUTHOR/EXEC(000004B6): Authorization FAILED
    
```

Which action resolves the failed authentication attempt to the router?

- A. Configure aaa authorization login command on line vty 0 4
- B. Configure aaa authorization login command on line console 0
- C. Configure aaa authorization console global command
- D. Configure aaa authorization console command on line vty 0 4

Answer: C

Explanation:

In the debug output, we see that the Authorization (not Authentication) failed so we need to correct the authorization. In order to enable authorization, we must use the global command “aaa authorization console” first.

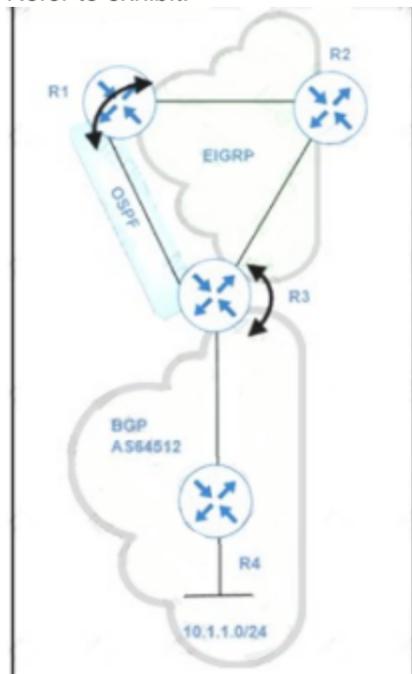
Reference:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/security/a1/sec-a1-cr-book/sec-cr-a1.html>

NEW QUESTION 373

- (Exam Topic 2)

Refer to exhibit.



Routing protocols are mutually redistributed on R3 and R1. Users report intermittent connectivity to services hosted on the 10.1.1.0/24 prefix. Significant routing update changes are noticed on R3 when the show ip route profile command is run. How must the services be stabilized?

- A. The issue with using BGP must be resolved by using another protocol and redistributing it into EIGRP on R3
- B. The routing loop must be fixed by reducing the admin distance of iBGP from 200 to 100 on R3
- C. The routing loop must be fixed by reducing the admin distance of OSPF from 110 to 80 on R3
- D. The issue with using iBGP must be fixed by running eBGP between R3 and R4

Answer: B

Explanation:

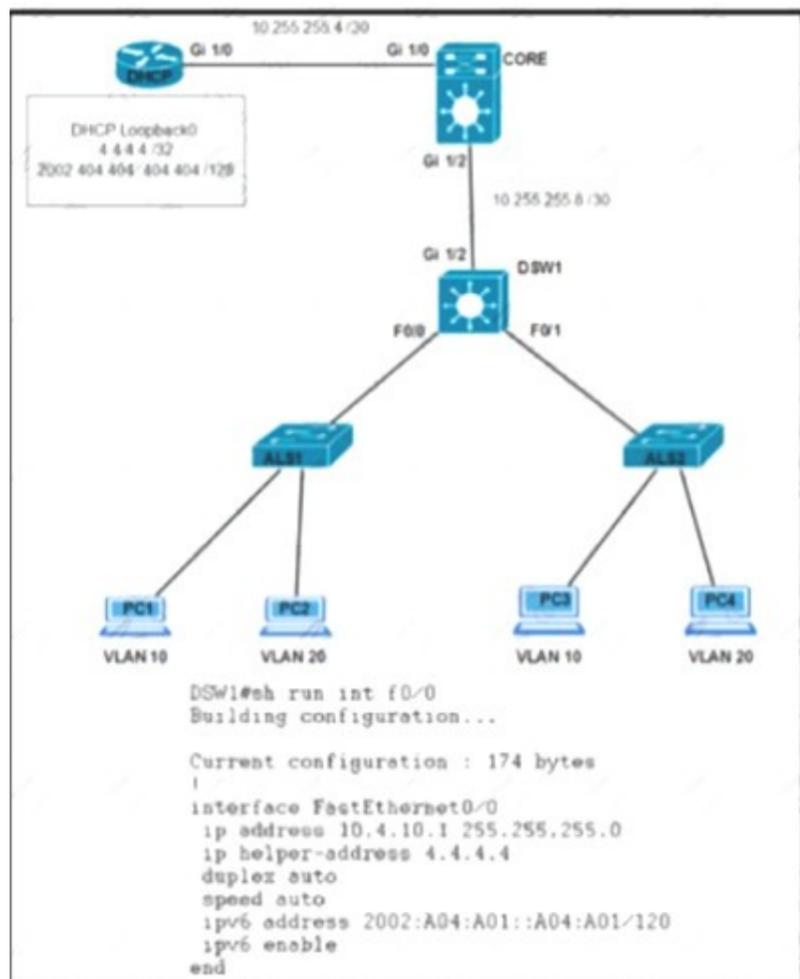
After redistribution, R3 learns about network 10.1.1.0/24 via two paths:+ Internal BGP (iBGP): advertised from R4 with AD of 200 (and metric of 0)+ OSPF: advertised from R1 with AD of 110 (O E2) (and metric of 20)Therefore R3 will choose the path with the lower AD via OSPF

But this is a looped path which is received from R3 -> R2 -> R1 -> R3. So when the advertised route from R4 is expired, the looped path is also expired soon and R3 willreinstall the main path from R4. This is the cause of intermittent connectivity.In order to solve this issue, we can lower the AD of iBGP to a value which is lower than 110 so that it is preferred over OSPF-advertised route.

NEW QUESTION 375

- (Exam Topic 2)

Clients on ALS2 receive IPv4 and IPv6 addresses but clients on ALS1 receive only IPv4 addresses and not IPv6 addresses. Which action on DSW1 allows clients on ALS1 to receive IPv6 addresses?



- A) Configure DSU1(config-if)#ipv6 helper address 2002:404:404::404:404
- B) Configure DSU1(dhcp-config)#default-router 2002:A04:A01::A04:A01
- C) Configure DSU1(config)#ipv6 route 2002:404:404:404:404/128 FastEthernet1/0
- D) Configure DSU1(config-if)#ipv6 dhcp relay destination 2002:404:404::404:404 GigabitEthernet1/2

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

Answer: B

Explanation:

<https://community.cisco.com/t5/networking-documents/stateful-dhcpv6-relay-configuration-example/ta-p/31493>

NEW QUESTION 378

- (Exam Topic 2)

Refer to the exhibit.

```

R1#show run | begin line
line con 0
  exec-timeout 0 0
  privilege level 15
  logging synchronous
  transport preferred telnet
  transport output none
  stopbits 0 4
line vty 0 4
  login
  transport referred telnet
  transport input none
  transport output telnet
R1#

R1#ssh -1 cisco 192.168.12.2
% ssh connections not permitted from this terminal
R1#
    
```

An engineer receives this error message when trying to access another router in-band from the serial interface connected to the console of R1. Which configuration is needed on R1 to resolve this issue?

- R1(config)#line console 0
R1(config-line)# transport preferred ssh
- R1(config)#line vty 0
R1(config-line)# transport output ssh
- R1(config)#line vty 0
R1(config-line)# transport output ssh
R1(config-line)# transport preferred ssh
- R1(config)#line console 0
R1(config-line)# transport output ssh

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

Answer: D

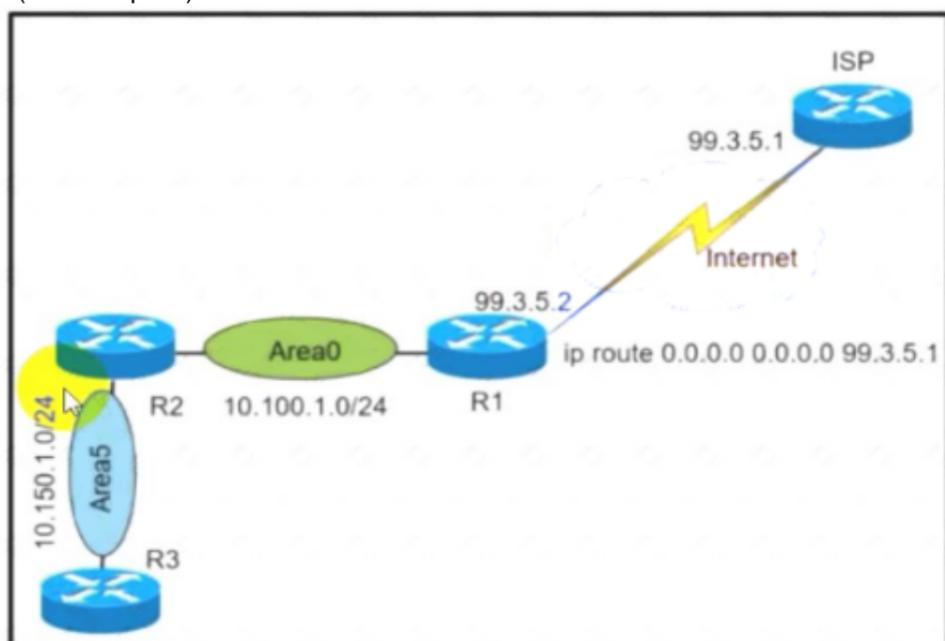
Explanation:

<https://community.cisco.com/t5/other-network-architecture/out-of-band-router-access/td-p/333295> The “transport output none” command prevents any protocol connection made from R1. Therefore our SSH connection to 192.168.12.2 was refused. In order to fix this problem we can configure “transport output ssh” under “line console 0” of R1.

Note: The parameter “-l” specifies the username to log in as on the remote machine.

NEW QUESTION 380

- (Exam Topic 2)



Refer to the exhibit. A network administrator redistributed the default static route into OSPF toward all internal routers to reach to Internet. Which set of commands restores reachability to the Internet by internal routers?

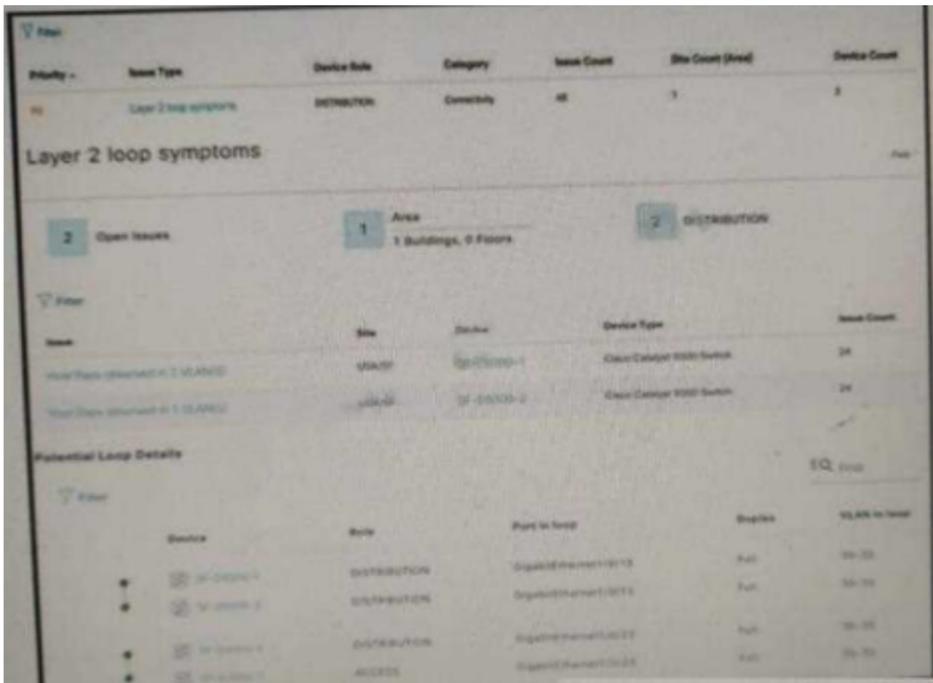
- A. router ospf 1 default-information originate
- B. router ospf 1 network 0.0.0.0 0.0.0.0 area 0
- C. router ospf 1 redistribute connected 0.0.0.0
- D. router ospf 1 redistribute static subnets

Answer: A

NEW QUESTION 384

- (Exam Topic 2)

Refer to the exhibit.



```
interface GigabitEthernet1/0/13
switchport trunk allowed vlan 30-33
switchport mode trunk
!
interface GigabitEthernet1/0/23
switchport trunk allowed vlan 30-33
switchport mode trunk
```

An engineer identifies a Layer 2 loop using DNAC. Which command fixes the problem in the SF-D9300-1 switch?

- A. no spanning-tree uplinkfast
- B. spanning-tree loopguard default
- C. spanning-tree backbonefast
- D. spanning-tree portfast bpduguard

Answer: D

Explanation:

https://www.cisco.com/c/en/us/td/docs/cloud-systems-management/network-automation-and-management/dnacenter/tech_notes/b_dnac_sda_lan_automation_deployment.html

NEW QUESTION 385

- (Exam Topic 2)

Refer to the exhibit.

```
L 172.1.12.3/32 is directly connected, Ethernet0/0
C 172.1.13.0/24 is directly connected, Ethernet0/1
L 172.1.13.3/32 is directly connected, Ethernet0/1
O 192.168.1.0/24 [110/2] via 172.1.12.1, 00:04:44, Ethernet0/0
O 192.168.2.0/24 [110/2] via 172.1.12.1, 00:04:44, Ethernet0/0
O 192.168.3.0/24 [110/2] via 172.1.13.2, 00:04:44, Ethernet0/1
O 192.168.4.0/24 [110/2] via 172.1.13.2, 00:04:44, Ethernet0/1
192.168.5.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.168.5.0/24 is directly connected, Loopback0
L 192.168.5.1/32 is directly connected, Loopback0
192.168.6.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.168.6.0/24 is directly connected, Loopback1
L 192.168.6.1/32 is directly connected, Loopback1
```

San Francisco and Boston routers are choosing slower links to reach each other despite the direct links being up. Which configuration fixes the issue?

- Boston Router
 - router ospf 1
 - auto-cost reference-bandwidth 1000
- San Francisco Router
 - router ospf 1
 - auto-cost reference-bandwidth 1000
- All Routers
 - router ospf 1
 - auto-cost reference-bandwidth 100
- All Routers
 - router ospf 1
 - auto-cost reference-bandwidth 1000

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

Answer: D

NEW QUESTION 390

- (Exam Topic 2)

Refer to the exhibit.

```
R1#show policy-map control-plane
Control Plane

Service-policy output: CoPP

Class-map: SNMP-Out (match-all)
 124 packets, 3693 bytes
 5 minute offered rate 0000 bps, drop rate 0000 bps
Match: access-group name SNMP
police:
  cir 8000 bps, bc 1500 bytes
  conformed 0 packets, 0 bytes; actions:
  transmit
  exceeded 0 packets, 0 bytes; actions:
  drop
  conformed 0000 bps, exceeded 0000 bps

Class-map: class-default (match-any)
 10 packets, 1003 bytes
 5 minute offered rate 0000 bps, drop rate 0000 bps
Match: any
R1#show ip access-list SNMP
Extended IP access list SNMP
 10 permit udp any eq snmp any
```

R1 is being monitored using SNMP and monitoring devices are getting only partial information. What action should be taken to resolve this issue?

- A. Modify the CoPP policy to increase the configured exceeded limit for SNMP.
- B. Modify the access list to include snmptrap.
- C. Modify the CoPP policy to increase the configured CIR limit for SNMP.
- D. Modify the access list to add a second line to allow udp any any eq snmp

Answer: D

NEW QUESTION 394

- (Exam Topic 1)

Which Cisco VPN technology can use multipoint tunnel, resulting in a single GRE tunnel interface on the hub, to support multiple connections from multiple spoke devices?

- A. DMVPN
- B. GETVPN
- C. Cisco Easy VPN
- D. FlexVPN

Answer: A

NEW QUESTION 396

- (Exam Topic 1)

Which component of MPLS VPNs is used to extend the IP address so that an engineer is able to identify to which VPN it belongs?

- A. VPNv4 address family
- B. RD
- C. RT
- D. LDP

Answer: B

Explanation:

• Specify the correct **route distinguisher** used for that VPN. This is used to extend the IP address so that you can identify which VPN it belongs to.

```
rd <VPN route distinguisher>
```

NEW QUESTION 399

- (Exam Topic 1)

Refer to Exhibit.

```
router ospf 10
  router-id 192.168.1.1
  log-adjacency-changes
  redistribute bgp 1 subnets route-map BGP-TO-OSPF
!
route-map BGP-TO-OSPF deny 10
  match ip address 50
route-map BGP-TO-OSPF permit 20
!
access-list 50 permit 172.16.1.0 0.0.0.255
```

Which statement about redistribution from BGP into OSPF process 10 is true?

- A. Network 172.16.1.0/24 is not redistributed into OSPF.
- B. Network 10.10.10.0/24 is not redistributed into OSPF
- C. Network 172.16.1.0/24 is redistributed with administrative distance of 1.
- D. Network 10.10.10.0/24 is redistributed with administrative distance of 20.

Answer: A

NEW QUESTION 401

- (Exam Topic 1)

Refer to the exhibit.

```
R200#show ip bgp summary
BGP router identifier 10.1.1.1, local AS number 65000
BGP table version is 26, main routing table version 26
1 network entries using 132 bytes of memory
1 path entries using 52 bytes of memory
2/1 BGP path/bestpath attribute entries using 296 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
Bitfield cache entries: current 1 (at peak 2) using 28 bytes of memory
BGP using 508 total bytes of memory
BGP activity 24/23 prefixes, 24/23 paths, scan interval 60 secs
Neighbor    V    AS MsgRcvd MsgSent   TblVer  InQ  OutQ  Up/Down  State/PfxRcd
192.0.2.2   4  65100 20335    20329    0  0   0 00:02:04 Idle (PfxCt)
R200#
```

In which circumstance does the BGP neighbor remain in the idle condition?

- A. if prefixes are not received from the BGP peer
- B. if prefixes reach the maximum limit
- C. if a prefix list is applied on the inbound direction
- D. if prefixes exceed the maximum limit

Answer: D

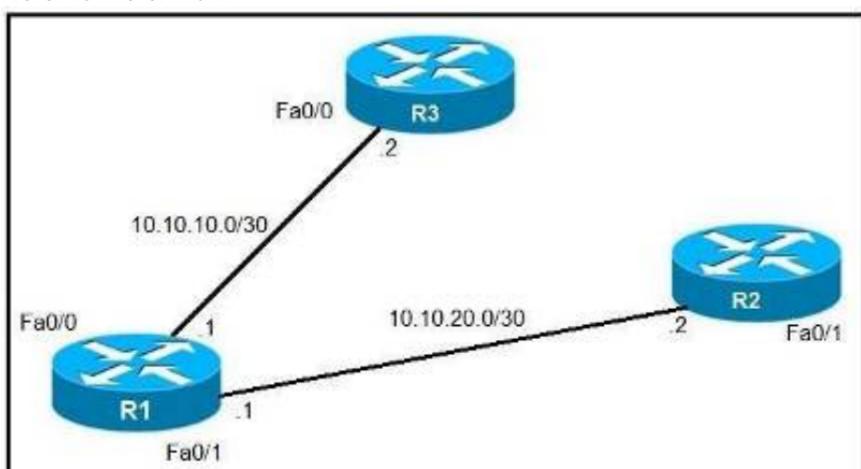
Explanation:

<https://www.cisco.com/c/en/us/support/docs/ip/border-gateway-protocol-bgp/25160-bgp-maximum-prefix.html#>

NEW QUESTION 405

- (Exam Topic 1)

Refer to the exhibit.



An IP SLA was configured on router R1 that allows the default route to be modified in the event that Fa0/0 loses reachability with the router R3 Fa0/0 interface. The route has changed to flow through router R2. Which debug command is used to troubleshoot this issue?

- A. debug ip flow
- B. debug ip sla error
- C. debug ip routing
- D. debug ip packet

Answer: C

Explanation:

debug ip routing This command enables debugging messages related to the routing table.

NEW QUESTION 406

- (Exam Topic 1)

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 407

- (Exam Topic 1)

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: C

Explanation:

https://www.cisco.com/c/en/us/td/docs/routers/xr12000/software/xr12k_r3-9/system_management/command/ref By default, syslog and debug messages are stamped by UTC, regardless of the time zone that device configured. You should append localtime key word to "service timestamp {log | debug} datetime msec" global command to change that behavior.

<https://community.cisco.com/t5/networking-documents/router-log-timestamp-entries-are-different-from-the-syst> https://www.cisco.com/E-Learning/bulk/public/tac/cim/cib/using_cisco_ios_software/cmdrefs/service_timestam

NEW QUESTION 409

- (Exam Topic 1)

Which transport layer protocol is used to form LDP sessions?

- A. UDP
- B. SCTP
- C. TCP
- D. RDP

Answer: C

Explanation:

LDP multicasts hello messages to a well-known UDP port (646) in order to discover neighbors. Once the discovery is accomplished, a TCP connection (port 646) is established and the LDP session begins. LDP keepalives ensure the health of the session. Thanks to the LDP session, LDP messages create the label mappings required for a FEC. Withdraw messages are used when FECs need to be torn down.

NEW QUESTION 412

- (Exam Topic 1)

Which statement about MPLS LDP router ID is true?

- A. If not configured, the operational physical interface is chosen as the router ID even if a loopback is configured.
- B. The loopback with the highest IP address is selected as the router ID.
- C. The MPLS LDP router ID must match the IGP router ID.
- D. The force keyword changes the router ID to the specified address without causing any impact.

Answer: B

Explanation:

Reference:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_ldp/configuration/12-4m/mp-ldp-12-4mbook.pdf

NEW QUESTION 416

- (Exam Topic 1)

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

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

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

PE	P
P	LSP
CE	CE
LSP	PE

NEW QUESTION 418

- (Exam Topic 1)
 Which option is the best for protecting CPU utilization on a device?

- A. fragmentation
- B. COPP
- C. ICMP redirects
- D. ICMP unreachable messages

Answer: B

NEW QUESTION 421

- (Exam Topic 1)
 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: C

Explanation:

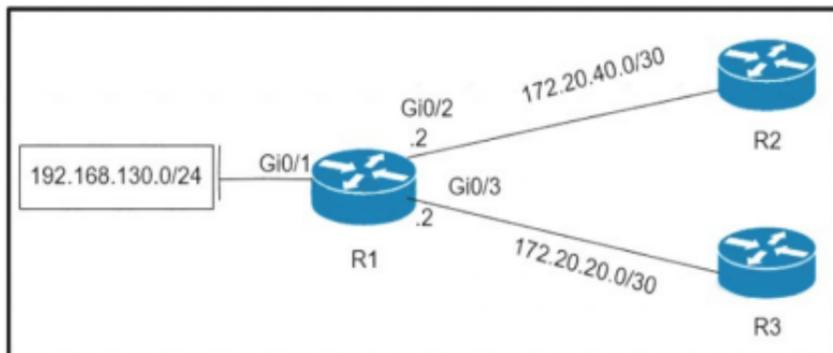
The summary-address is only used to create aggregate addresses for OSPF at an autonomous system boundary. It means this command should only be used on the ASBR when you are trying to summarize externally redistributed routes from another protocol domain or you have a NSSA area. But a requirement to create a summarized route is:

The ASBR compares the summary route's range of addresses with all routes redistributed into OSPF on that ASBR to find any subordinate subnets (subnets that sit inside the summary route range). If at least one subordinate subnet exists, the ASBR advertises the summary route.

NEW QUESTION 426

- (Exam Topic 1)

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 427

- (Exam Topic 1)

Which SNMP verification command shows the encryption and authentication protocols that are used in SNMPV3?

- A. show snmp group
- B. show snmp user
- C. show snmp
- D. show snmp view

Answer: B

NEW QUESTION 428

- (Exam Topic 1)

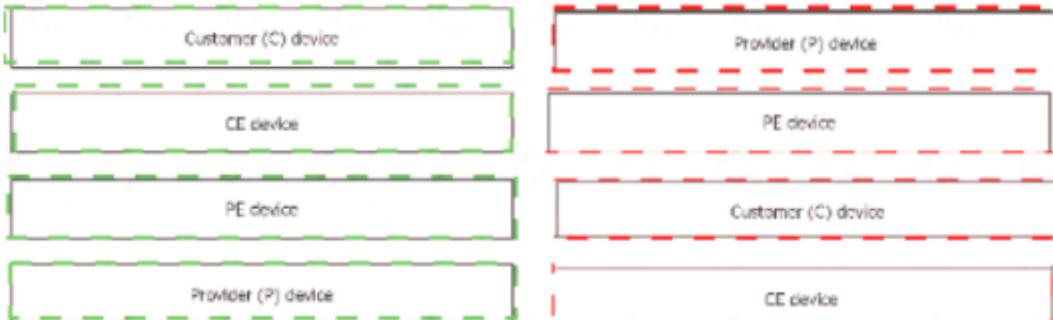
Drag and drop the MPLS VPN device types from me left onto the definitions on the right.

Customer (C) device	device in the core of the provider network that switches MPLS packets
CE device	device that attaches and detaches the VPN labels to the packets in the provider network
PE device	device in the enterprise network that connects to other customer devices
Provider (P) device	device at the edge of the enterprise network that connects to the SP network

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 429

- (Exam Topic 1)

Refer to the exhibit.

```
R1(config) # do show running-config | section line|username
username cisco secret 5 $1$yb/o$L3G5cXODxpYMSJ70PzEyo0
line con 0
  logging synchronous
line vty 0 4
  login local
  transport input telnet
R1(config) # logging console 7
R1(config) # do debug aaa authentication
R1(config) #
```

An administrator that is connected to the console does not see debug messages when remote users log in. Which action ensures that debug messages are displayed for remote logins?

- A. Enter the transport input ssh configuration command.
- B. Enter the terminal monitor exec command.
- C. Enter the logging console debugging configuration command.
- D. Enter the aaa new-model configuration command.

Answer: C

Explanation:

The logging console is a default and hidden command.

NEW QUESTION 430

- (Exam Topic 1)

```
router# show ip route
....
D 192.168.32.0/19 [90/25789217] via 10.1.1.1
R 192.168.32.0/24 [120/4] via 10.1.1.2
O 192.168.32.0/26 [110/229840] via 10.1.1.3
```

Refer to the exhibit. an engineer is trying to get 192.168.32.100 forwarded through 10.1.1.1, but it was forwarded through 10.1.1.2. What action forwards the packets through 10.1.1.1?

- A. Configure EIGRP to receive 192.168.32.0 route with lower admin distance.
- B. Configure EIGRP to receive 192.168.32.0 route with longer prefix than /19.
- C. Configure EIGRP to receive 192.168.32.0 route with lower metric.
- D. Configure EIGRP to receive 192.168.32.0 route with equal or longer prefix than /24.

Answer: D

NEW QUESTION 435

- (Exam Topic 1)

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 neighbor statement is higher than 200.

Answer: C

NEW QUESTION 436

- (Exam Topic 1)

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 439

- (Exam Topic 1)

Refer to the following output:

```
Router#show ip nhrp detail 10.1.1.2 /8 via 10.2.1.2, Tunnel1 created 00:00:12, expire 01:59:47 TypE. dynamic, Flags: authoritative unique nat registered used
NBMA address: 10.12.1.2
```

What does the authoritative flag mean in regards to the NHRP information?

- A. It was obtained directly from the next-hop server.
- B. Data packets are process switches for this mapping entry.
- C. NHRP mapping is for networks that are local to this router.
- D. The mapping entry was created in response to an NHRP registration request.
- E. The NHRP mapping entry cannot be overwritten.

Answer: A

NEW QUESTION 441

- (Exam Topic 1)

Which command displays the IP routing table information that is associated with VRF-Lite?

- A. show ip vrf
- B. show ip route vrf
- C. show run vrf
- D. show ip protocols vrf

Answer: B

Explanation:

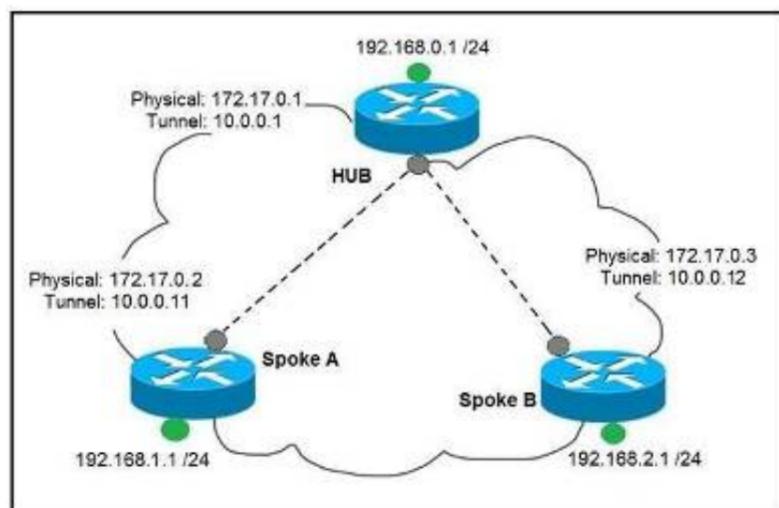
Reference:

<https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst4500/12-2/50sg/configuration/guide/Wrapper-46SG>

NEW QUESTION 442

- (Exam Topic 1)

Refer to the exhibit.



Which interface configuration must be configured on the spoke A router to enable a dynamic DMVPN tunnel with the spoke B router?

- A. `interface Tunnel0`
`description mGRE – DMVPN Tunnel`
`ip address 10.0.0.11 255.255.255.0`
`ip nhrp map multicast dynamic`
`ip nhrp network-id 1`
`tunnel source 10.0.0.1`
`tunnel destination FastEthernet 0/0`
`tunnel mode gre multipoint`
- B. `interface Tunnel0`
`ip address 10.0.0.11 255.255.255.0`
`ip nhrp network-id 1`
`tunnel source FastEthernet 0/0`
`tunnel mode gre multipoint`
`ip nhrp nhs 10.0.0.1`
`ip nhrp map 10.0.0.1 172.17.0.1`
- C. `interface Tunnel0`
`ip address 10.1.0.11 255.255.255.0`
`ip nhrp network-id 1`
`tunnel source 1.1.1.10`
`ip nhrp map 10.0.0.11 172.17.0.2`
`tunnel mode gre`
- D. `interface Tunnel0`
`ip address 10.0.0.11 255.255.255.0`
`ip nhrp map multicast static`
`ip nhrp network-id 1`
`tunnel source 10.0.0.1`
`tunnel mode gre multipoint`

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

Answer: B

NEW QUESTION 445

- (Exam Topic 1)

During the maintenance window an administrator accidentally deleted the Telnet-related configuration that permits a Telnet connection from the inside network (Eth0/0) to the outside of the networking between Friday – Sunday night hours only. Which configuration resolves the issue?

A)

```
interface Ethernet0/0
ip address 10.1.1.1 255.255.255.0
ip access-group 101 in
!
access-list 101 permit udp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255
eq telnet time-range changewindow
!
time-range changewindow
periodic Friday Saturday Sunday 22:00 to 05:00
```

B)

```
interface Ethernet0/0
ip address 10.1.1.1 255.255.255.0
ip access-group 101 in
!
access-list 101 permit tcp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255
eq telnet time-range changewindow
!
time-range changewindow
periodic 22:00 to 05:00
```

C)

```
interface Ethernet0/0
ip address 10.1.1.1 255.255.255.0
ip access-group 101 in
!
access-list 101 permit tcp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255
eq telnet time-range changewindow
!
time-range changewindow
periodic Friday Saturday Sunday 22:00 to 05:00
```

D)

```
interface Ethernet0/0
ip address 10.1.1.1 255.255.255.0
ip access-group 101 in
!
access-list 101 permit udp 10.1.1.0 0.0.0.255 172.16.1.0 0.0.0.255
eq telnet time-range changewindow
!
time-range changewindow
```

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

Answer: C

NEW QUESTION 446

- (Exam Topic 1)

R2 has a locally originated prefix 192.168.130.0/24 and has these configurations:

```
ip prefix-list test seq 5 permit 192.168.130.0/24
!
route-map OUT permit10
match ip address prefix-list test
set as-path prepend 65000
```

What is the result when the route-map OUT command is applied toward an eBGP neighbor R1 (1.1.1.1) by using the neighbor 1.1.1.1 route-map OUT out command?

- A. R1 sees 192.168.130.0/24 as two AS hops away instead of one AS hop away.
- B. R1 does not accept any routes other than 192.168.130.0/24
- C. R1 does not forward traffic that is destined for 192.168.30.0/24
- D. Network 192.168.130.0/24 is not allowed in the R1 table

Answer: A

NEW QUESTION 451

- (Exam Topic 1)

Refer to the exhibit.

```
Router# show tag-switching tdp bindings
(...)
tib entry: 10.10.10.1/32, rev 31
  local binding: tag: 18
  remote binding: tsr: 10.10.10.1:0, tag: imp-null
  remote binding: tsr: 10.10.10.2:0, tag: 18
  remote binding: tsr: 10.10.10.6:0, tag: 21
tib entry: 10.10.10.2/32, rev 22
  local binding: tag: 17
  remote binding: tsr: 10.10.10.2:0, tag: imp-null
  remote binding: tsr: 10.10.10.1:0, tag: 19
  remote binding: tsr: 10.10.10.6:0, tag: 22
```

What does the imp-null tag represent in the MPLS VPN cloud?

- A. Pop the label
- B. Impose the label
- C. Include the EXP bit
- D. Exclude the EXP bit

Answer: A

Explanation:

The imp-null (implicit null) tag instructs the upstream router to pop the tag entry off the tag stack before forwarding the packet.
 Note: pop means remove the top MPLS label

NEW QUESTION 456

- (Exam Topic 1)

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

Explanation:

Reference:

https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/iproute_eigrp/configuration/xe-3s/asr1000/ire-xe-3s-asr1000/

NEW QUESTION 460

- (Exam Topic 1)

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: D

Explanation:

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 & type-2) OSPF routes via this command: Router(config-router)#redistribute ospf 1 match internal external 1 external 2

Reference:

<https://www.cisco.com/c/en/us/support/docs/ip/border-gateway-protocol-bgp/5242-bgp-ospf-redis.html>

NEW QUESTION 465

- (Exam Topic 1)

An engineer is configuring a network and needs packets to be forwarded to an interface for any destination address that is not in the routing table. What should be configured to accomplish this task?

- A. set ip next-hop
- B. set ip default next-hop
- C. set ip next-hop recursive
- D. set ip next-hop verify-availability

Answer: B

Explanation:

The `set ip default next-hop` command verifies the existence of the destination IP address in the routing table, and...

- if the destination IP address exists, the command does not policy route the packet, but forwards the packet based on the routing table.
- if the destination IP address **does not exist**, the command policy routes the packet by **sending it to the specified next hop**.

NEW QUESTION 469

- (Exam Topic 1)

Drag and drop the MPLS VPN concepts from the left onto the correct descriptions on the right.

route distinguisher	propagates VPN reachability information
route target	distributes labels for traffic engineering
Resource Reservation Protocol	uniquely identifies a customer prefix
multiprotocol BGP	controls the import/export of customer prefixes

- A. Mastered
 B. Not Mastered

Answer: A

Explanation:

Reference:

<https://www.rogerperkin.co.uk/featured/route-distinguisher-vs-route-target/>

NEW QUESTION 471

- (Exam Topic 1)

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: BE

NEW QUESTION 472

- (Exam Topic 1)

Which command allows traffic to load-balance in an MPLS Layer 3 VPN configuration?

- A. multi-paths eibgp 2
 B. maximum-paths 2
 C. Maximum-paths ibgp 2
 D. multi-paths 2

Answer: C

Explanation:

Reference:

https://www.cisco.com/c/en/us/td/docs/switches/datacenter/sw/5_x/nx-os/mpls/configuration/guide/mpls_cg/mp

NEW QUESTION 473

- (Exam Topic 1)

Refer to the exhibit.

```
Spoke# show dmvpn
Tunnel0, Type:Spoke, NHRP Peers:2,
# Ent Peer NBMA Addr Peer Tunnel Add State UpDn Tm Attrb
-----
1 172.18.16.2 192.168.1.1 UP 01:05:35 S
1 172.18.46.2 192.168.1.4 UP 00:00:25 D
```

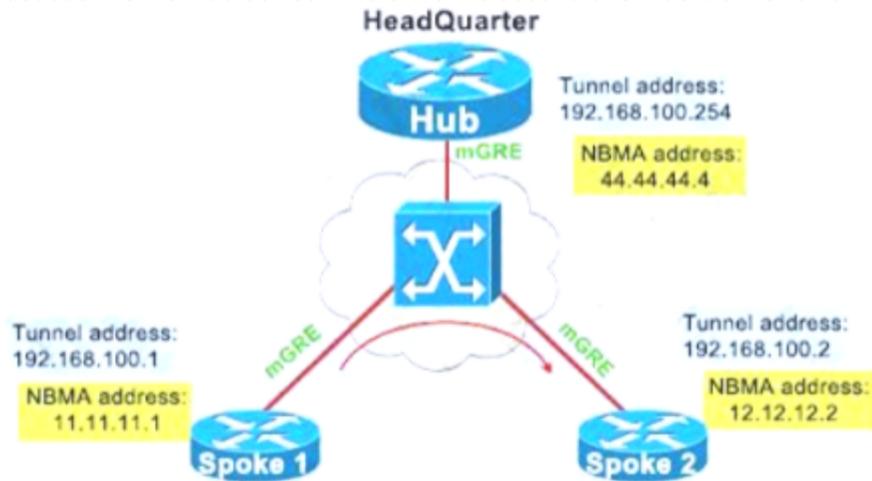
An engineer has configured DMVPN on a spoke router. What is the WAN IP address of another spoke router within the DMVPN network?

- A. 172.18.46.2
- B. 192.168.1.4
- C. 172.18.16.2
- D. 192.168.1.1

Answer: A

Explanation:

From the output we can see there are 2 NHRP Peers. The first one with the NBMA Address of 172.18.16.2 and the "Attribute" (Attrb) of Static (S) so we can deduce it is the Hub device. Therefore the second one must be the remaining Spoke device with the attribute of Dynamic (D).



--> S - Static, D - Dynamic, I - Incomplete N - NATed, L - Local, X - No Socket

Ent --> Number of NHRP entries with same NBMA peer

NHS Status: E --> Expecting Replies, R --> Responding, W --> Waiting UpDn Time --> Up or Down Time for a Tunnel

```
=====
==
Interface: Tunnel1, IPv4 NHRP Details Type:Spoke, NHRP Peers:2,
# Ent Peer NBMA Addr Peer Tunnel Add State UpDn Tm Attrb
-----
1 44.44.44.4 192.168.100.254 UP 00:03:40 S
1 12.12.12.2 192.168.100.2 UP 00:03:20 D
```

NEW QUESTION 474

- (Exam Topic 1)

Refer to the exhibit.

```
R1#show policy-map control-plane
Control Plane
  Service-policy input: CoPP-BGP
  Class-map: BGP (match all)
    2716 packets, 172071 bytes
    5 minute offered rate 0000 bps, drop rate 0000 bps
  Match: access-group name BGP
  drop

  Class-map: class-default (match-any)
    5212 packets, 655966 bytes
    5 minute offered rate 0000 bps, drop rate 0000 bps
  Match: any
```

What is the result of applying this configuration?

- A. The router can form BGP neighborships with any other device.
- B. The router cannot form BGP neighborships with any other device.
- C. The router cannot form BGP neighborships with any device that is matched by the access list named "BGP".
- D. The router can form BGP neighborships with any device that is matched by the access list named "BGP".

Answer: C

Explanation:

after bgp session are UP.I configured the CoPP to drop 10.3.3.3 bgp traffic (R3). R3 bgp traffic that matched the ACL 100 is dropped and the state is in IDLE

```
-----
access-list 100 permit tcp host 10.3.3.3 any eq bgp access-list 100 permit tcp host 10.3.3.3 eq bgp any
!
class-map match-all class-bgp match access-group 100
!
policy-map policy-bgp class class-bgp
drop
!
control-plane
service-policy input policy-bgp
!
The 10.3.3.3 neighbor goes to IDLE
```

NEW QUESTION 479

- (Exam Topic 1)

What is a limitation of IPv6 RA Guard?

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

Answer: B

Explanation:

Restrictions for IPv6 RA Guard

- The IPv6 RA Guard feature does not offer protection in environments where IPv6 traffic is tunneled.
- This feature is supported only in hardware when the ternary content addressable memory (TCAM) is programmed.
- This feature can be configured on a switch port interface in the ingress direction.
- This feature supports host mode and router mode.
- This feature is supported only in the ingress direction; it is not supported in the egress direction.
- This feature is not supported on EtherChannel and EtherChannel port members.
- This feature is not supported on trunk ports with merge mode.
- This feature is supported on auxiliary VLANs and private VLANs (PVLANS). In the case of PVLANS, primary VLAN features are inherited and merged with port features.
- Packets dropped by the IPv6 RA Guard feature can be spanned. Reference:
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6_fhsec/configuration/xr-16-10/ip6f-xe-16-10-book/ip6-r

NEW QUESTION 480

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