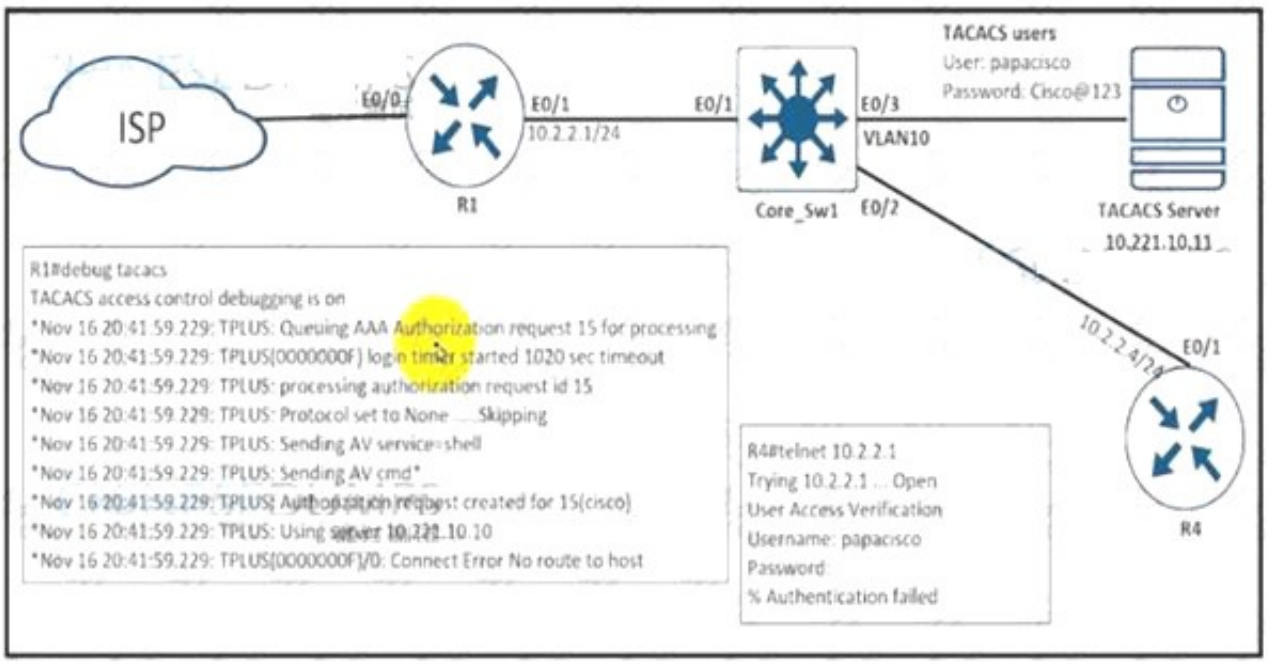
Exam Questions 300-410

Implementing Cisco Enterprise Advanced Routing and Services (ENARSI)

https://www.2passeasy.com/dumps/300-410/

NEW QUESTION 1
- (Exam Topic 3)
Refer to the exhibit.



An engineer is trying to connect to R1 via Telnet with no success. Which configuration resolves the issue?

tacacs server prod
address ipv4 10.221.10.10
exit

ip route 10.221.10.10 255.255.255.255 ethernet 0/1

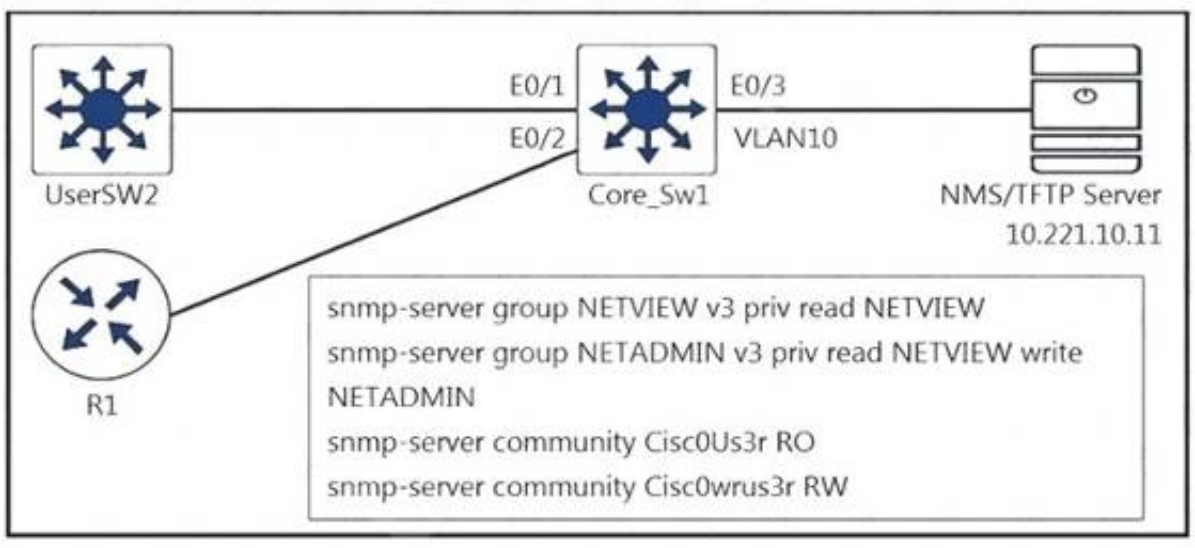
tacacs server prod
address ipv4 10.221.10.11
exit

ip route 10.221.0.11 255.255.255.255 ethernet 0/1

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

Answer: B

NEW QUESTION 2
- (Exam Topic 3)
Refer to the exhibit.

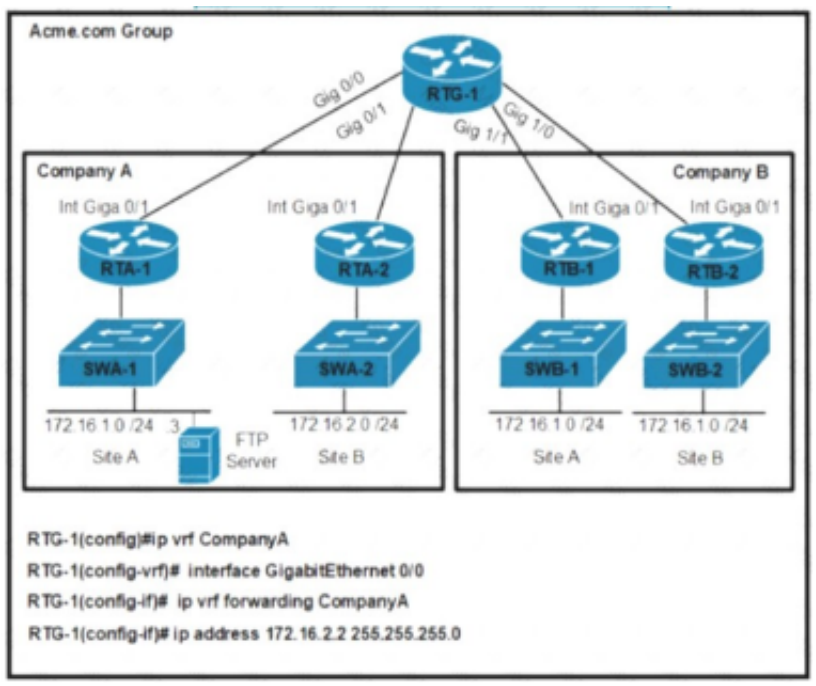


A junior engineer configured SNMP to network devices. Malicious users have uploaded different configurations to the network devices using SNMP and TFTP servers.
Which configuration prevents changes from unauthorized NMS and TFTP servers?

A. access-list 20 permit 10.221.10.11 access-list 20 deny any log!snmp-server group NETVIEW v3 priv read NETVIEW access 20snmp-server group NETADMIN v3 priv read NETVIEW write NETADMIN access 20 snmp-server community Cisc0Us3r RO 20snmp-server community Cisc0wrus3r RW 20 snmp-server tftp-server-list 20
B. access-list 20 permit 10.221.10.11 access-list 20 deny any log!snmp-server group NETVIEW v3 priv read NETVIEW access 20snmp-server group NETADMIN v3 priv read NETVIEW write NETADMIN access 20 snmp-server community Cisc0wrus3r RO 20snmp-server community Cisc0Us3r RW 20 snmp-server tftp-server-list 20
C. access-list 20 permit 10.221.10.11 access-list 20 deny any log
D. access-list 20 permit 10.221.10.11

Answer: A

NEW QUESTION 3
- (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 4
- (Exam Topic 3)
Refer to the exhibit.

```
!
summary-address 10.1.0.0 255.255.0.0
!
```

The none area 0 routers in OSPF still receive more specific routes of 10.1.1.0.10.1.2.0.10.1.3.0 from area 1. Which action resolves the issue?

A. Configure route summarization on OSPF-enabled interfaces.
B. Summarize by using the summary-address 10.1.0.0 255.255.252.0 command.
C. Summarize by using the area range command on ABRs
D. Configure the summary-address 10.1.0.0 255.255.252.0 command under OSPF process.

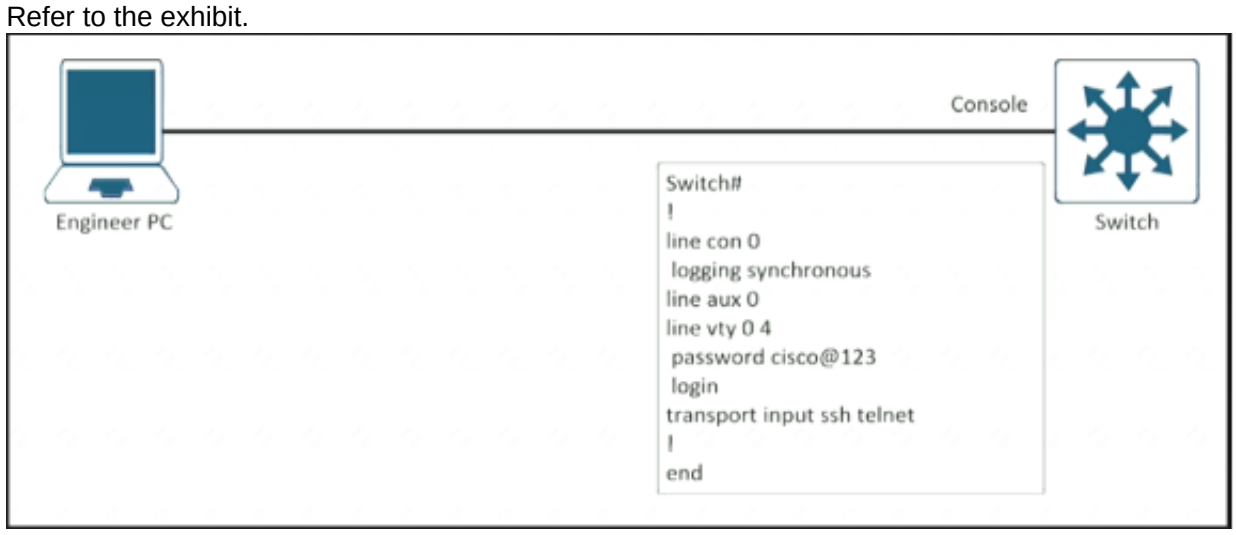
Answer: C

NEW QUESTION 5
- (Exam Topic 3)
The network administrator must implement IPv6 in the network to allow only devices that not only have registered IP addresses but are also connecting from assigned locations. Which security feature must be implemented?

A. IPv6 Snooping
B. IPv6 Destination Guard
C. IPv6 Prefix Guard
D. IPv6 Router Advertisement Guard

Answer: A

NEW QUESTION 6
- (Exam Topic 3)
Refer to the exhibit.



An engineer must block access to the console ports for all corporate remote Cisco devices based on the recent corporate security policy but the security team stilt can connect through the console port. Which configuration on the console port resolves the issue?

A. transport input telnet
B. login and password
C. no exec
D. exec 0.0

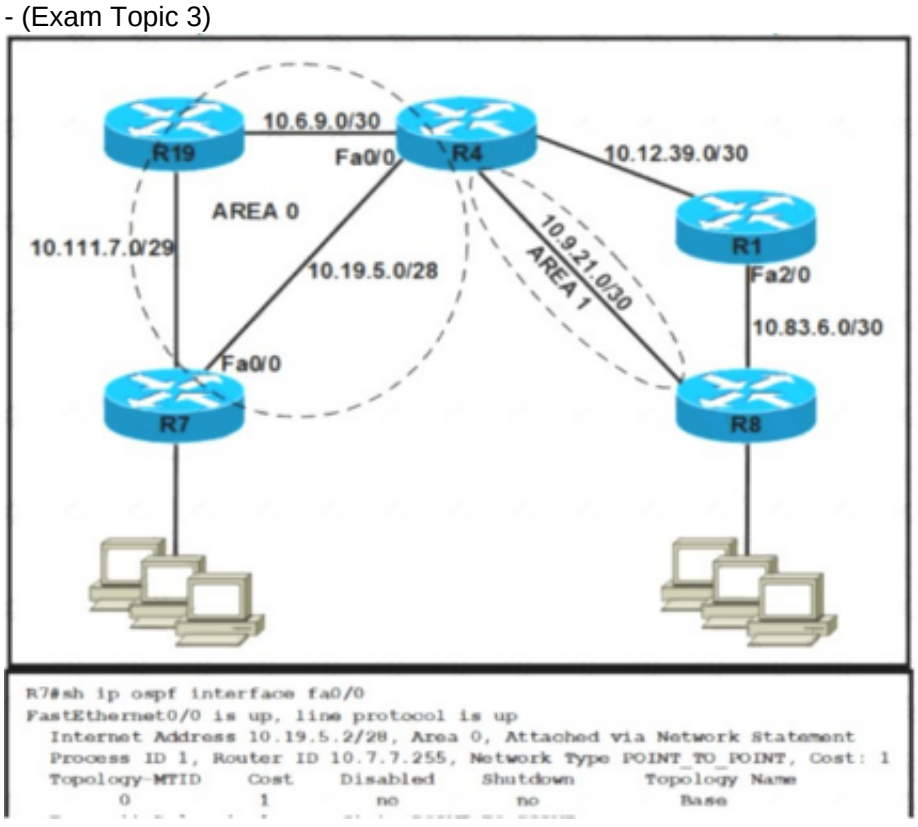
Answer: C

Explanation:
"no exec" will disable access to a line. It is used if we want to allow only outgoing session (and disable incoming session) so this command will block all console port access.
There is no "exec 0 0" command. We can only find the "exec prompt" command in IOS Version 15.4(2)T4.

```
Router(config-line)#exec ?
  prompt  EXEC prompt
  <cr>

Router(config-line)#exec pro
Router(config-line)#exec prompt ?
  timestamp  Print timestamps for show commands

Router(config-line)#exec prompt
```

The most similar command is "exec-timeout 0 0" command, which is used to prevent Telnet/SSH sessions from timing out.

NEW QUESTION 7
- (Exam Topic 3)



Refer to the exhibit. Router R4 is configured correctly with default OSPF values. A network engineer configured R7 for OSPF. R7 must not be elected as a DR for the segment between R4-R7. The adjacency between R4 and R7 failed to form. Which configuration resolves the issue?

```
R7(config)#interface fa0/0
R7(config-if)#ip ospf priority 255
R7(config-if)#ip ospf hello-interval 10
R7(config-if)#ip ospf dead-interval 30
R7(config-if)#ip ospf network broadcast

R7(config)#interface fa0/0
R7(config-if)#ip ospf priority 0
R7(config-if)#ip ospf hello-interval 10
R7(config-if)#ip ospf dead-interval 30
R7(config-if)#ip ospf network non-broadcast

R7(config)#interface fa0/0
R7(config-if)#ip ospf priority 0
R7(config-if)#ip ospf hello-interval 10
R7(config-if)#ip ospf dead-interval 40
R7(config-if)#ip ospf network broadcast

R7(config)#interface fa0/0
R7(config-if)#ip ospf priority 255
R7(config-if)#ip ospf hello-interval 10
R7(config-if)#ip ospf dead-interval 40
R7(config-if)#ip ospf network non-broadcast
```

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

Answer: C

NEW QUESTION 8
- (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 9
- (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 10
- (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).
```

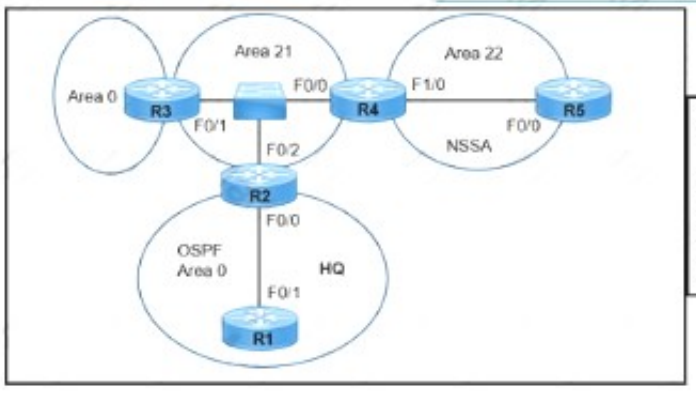
An engineer is troubleshooting a TACACS problem. Which action resolves the issue?

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 10
- (Exam Topic 3)




```
R2(config)# router ospf 1
R2(config-router)# area 21 virtual-link 3.3.3.3

R3(config)# router ospf 1
*Apr  4 00:23:34.215: %OSPF-4-ERRRCV: Received invalid packet:
mismatch area ID, from backbone area must be virtual-link but not
found from 192.168.125.5, FastEthernet0/2
R3(config-router)# area 21 virtual-link 2.2.2.2
R3(config-router)# area 21 stub
```

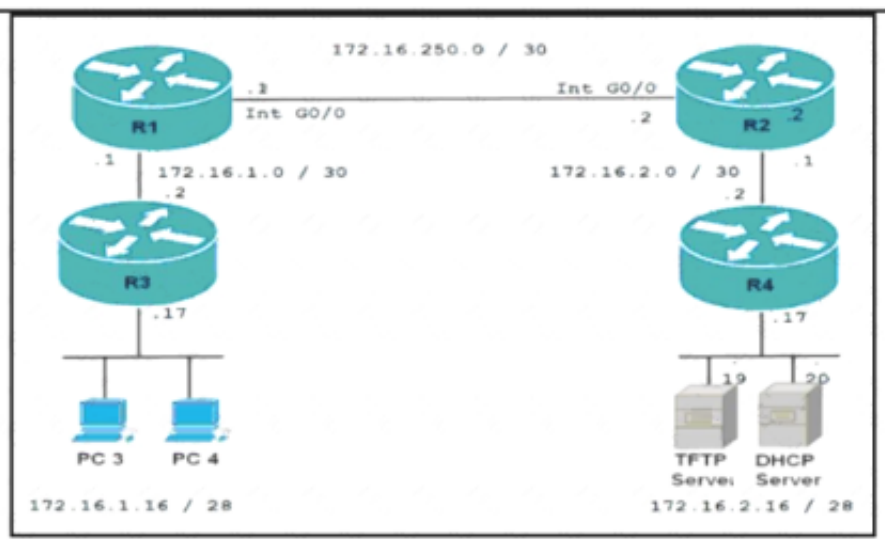
Refer to the exhibit. A network engineer is troubleshooting a failed link between R2 and R3 No traffic loss is reported from router R5 to HQ Which command fixes the separated backbone?

A. R2(config-router)#no area 21 stub
B. R2(config_router)#area 21 virtual-link 192.168.125.5
C. R3(config-router)#area 21 virtual-link 192.168.125.5
D. R3(config-router)#no area 21 stub

Answer: D

NEW QUESTION 12
- (Exam Topic 3)

```
R3#copy tftp flash:
Address or name of remote host [172.16.2.19]?
Source filename [c2600-i-mz.121.T.bin]? c2600-i-mz.121-1.T.bin
Destination filename [c2600-i-mz.121-1.T.bin]?
Loading c2600-i-mz.121-1.T.bin from 172.16.2.19(via GigabitEthernet0/0): !
%Error copying tftp://172.16.2.19/c2600-i-mz.121-1.T.bin (Not enough space
on device)
R3#
```



Refer to the exhibit. The engineer is getting an error when trying to transfer a new IOS file to the router. Which action resolves the issue?

A. Delete some files on the router flash memory.
B. Delete some files on the router NVRAM.
C. Remove any access-list filtering the TFTP file transfer.
D. Split the file into parts to transfer them one by one.

Answer: A

NEW QUESTION 16
- (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 19
- (Exam Topic 3)
The network administrator configured CoPP so that all HTTP and HTTPS traffic from the administrator device located at 172.16 1.99 toward the router CPU is limited to 500 kbps. Any traffic that exceeds this limit must be dropped.
access-list 100 permit ip host 172.16.1.99 any
!
class-map CM-ADMIN match access-group 100
!
policy-map PM-COPP class CM-ADMIN
police 500000 conform-action transmit
!
interface E0/0
service-policy input PM-COPP
CoPP failed to capture the desired traffic and the CPU load is getting higher. Which two configurations resolve the issue? (Choose two.)

A. interface E0/0no service-policy input PM-COPP!control-planeservice-policy input PM-COPP
B. policy-map PM-COPP class CM-ADMINno police 500000 conform-action transmit police 500 conform-action transmit!control-planeservice-policy input PM-COPP
C. no access-list 100access-list 100 permit tcp host 172.16.1.99 any eq 80
D. no access-list 100access-list 100 permit tcp host 172.16.1.99 any eq 80access-list 100 permit tcp host 172.16.1.99 any eq 443
E. policy-map PM-COPP class CM-ADMINno police 500000 conform-action transmit police 500 conform-action transmit

Answer: A

NEW QUESTION 24
- (Exam Topic 3)

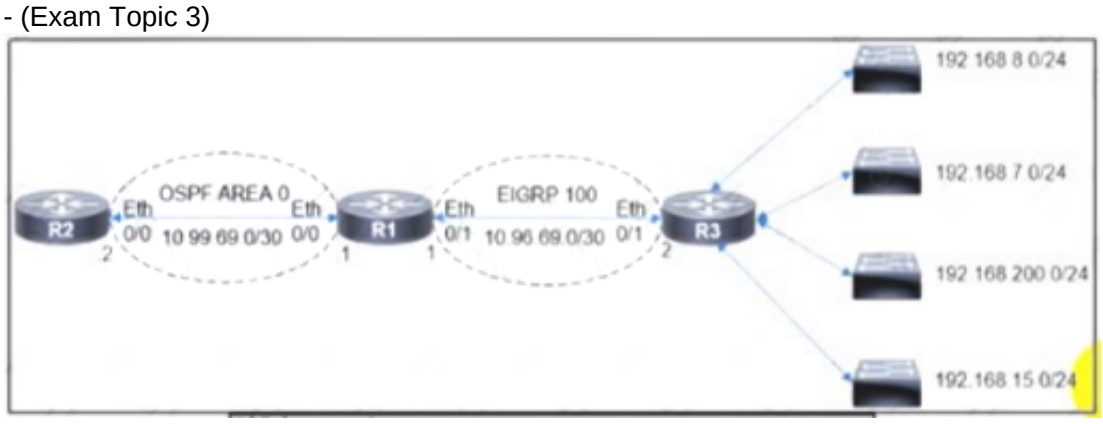
```
R3#show ip sla statistics
IPSLAs Latest Operation Statistics
IPSLA operation id: 10
Type of operation: icmp-echo
        Latest RTT: 24 milliseconds
Latest operation start time: *21:26:43.211 UTC Sat Sep 18 2021
Latest operation return code: OK
Number of successes: 75
Number of failures: 0
Operation time to live: Forever

IPSLA operation id: 20
Type of operation: icmp-echo
        Latest RTT: NoConnection/Busy/Timeout
Latest operation start time: *21:26:47.499 UTC Sat Sep 18 2021
Latest operation return code: No connection
Number of successes: 128
Number of failures: 459
Operation time to live: Forever
```

Refer to me exhibit Traffic from R3 to the central site does not use alternate paths when R3 cannot reach 10 10 10 2 Traffic on R3 destined to R4 takes an alternate route via 10 10 10.6 when 10 10 10 4 is not accessible from R3 Which configuration switches traffic destined to 10 10 10 2 from R3 on the alternate path''

A. R3(config)#ip route 192.168.10.1 255.255.265.255 10.10.10.2 track 20
B. R2(config)#ip route 10.10 10 3 255 255.255 255 10.0.0.6
C. R3(config)#track(20 ip sla 20 reachability
D. R6(config)#ip route 10.10.10 3 255.255.255.255 10.0.0.30

Answer: A

NEW QUESTION 28
- (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?

```
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
```

```
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
```

```
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
```

```
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 32
- (Exam Topic 3)
Which routing protocol is used by the PE router to advertise routes to a CE router without redistribution or static after removing the RD tag from the P router?

A. IS-IS
B. OSPF
C. BGPIPv4
D. MP-BGP

Answer: C

NEW QUESTION 36
- (Exam Topic 3)
How do devices operate in MPLS L3VPN topology?

A. P and associated PE routers with IGP populate the VRF table in different VPNs.
B. CE routers connect to the provider network and perform LSP functionality
C. P routers provide connectivity between PE devices with MPLS switching.
D. P routers support PE to PE VPN tunnel without LSP functionality

Answer: C

NEW QUESTION 39
- (Exam Topic 3)

```
R1#sh track brief
Track Type        Instance                  Parameter        State Last Change
1     ip sla      10                        reachability     Down  00:03:52

R1#show ip sla configuration
IP SLAs Infrastructure Engine-III
Entry number: 10
Owner:
Tag:
Operation timeout (milliseconds): 5000
Type of operation to perform: icmp-echo
Target address/Source interface: 10.10.10.10/GigabitEthernet0/0
<...>
Schedule:
   Operation frequency (seconds): 60  (not considered if randomly scheduled)
   Next Scheduled Start Time: Pending trigger
   Group Scheduled : FALSE
   Randomly Scheduled : FALSE
   Life (seconds): Forever
   Entry Ageout (seconds): never
   Recurring (Starting Everyday): FALSE
   Status of entry (SNMP RowStatus): Active
Threshold (milliseconds): 5000
Distribution Statistics:
```

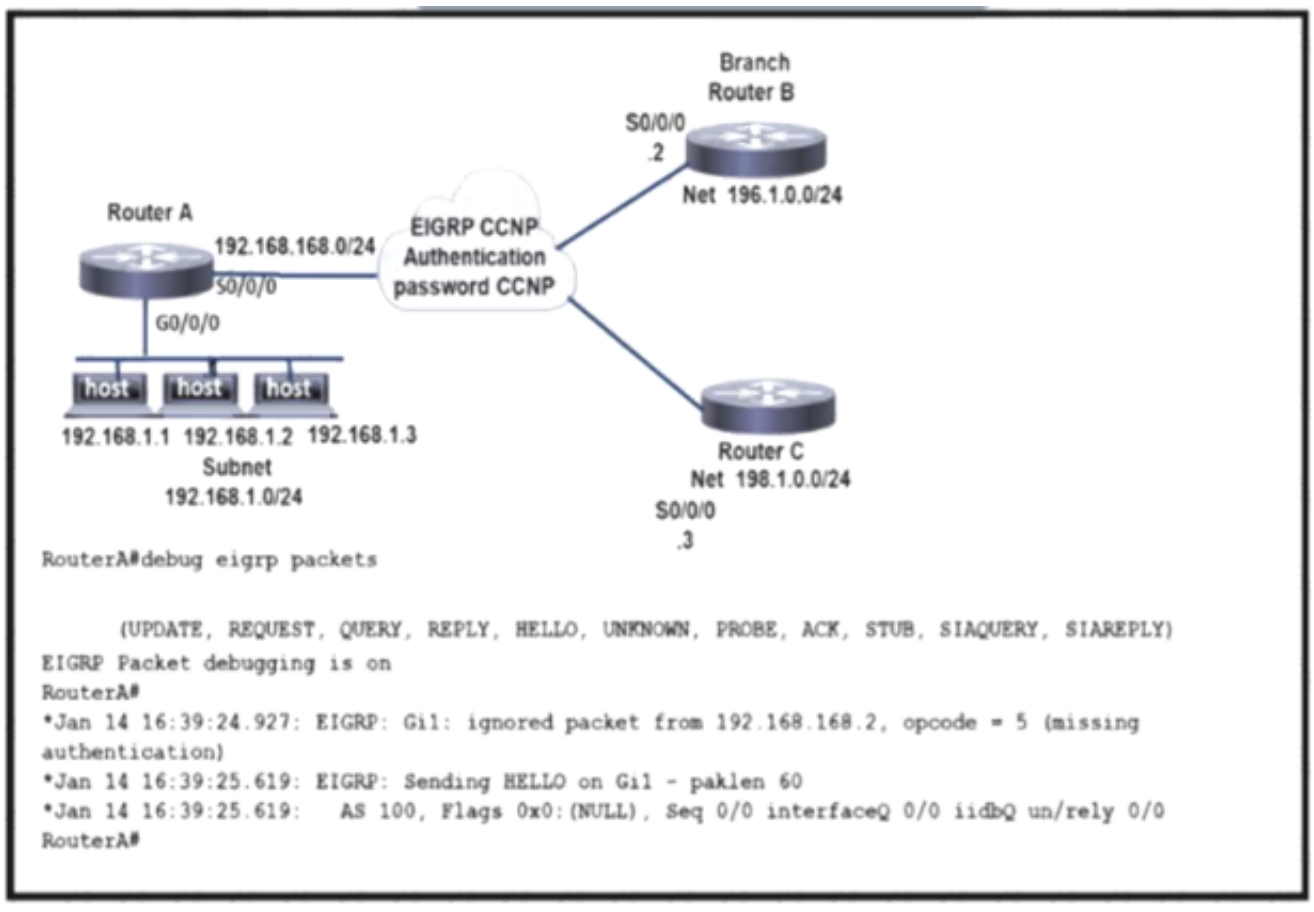
```
Operation timeout (milliseconds): 5000
Type of operation to perform: icmp-echo
Target address/Source interface: 10.10.10.10/GigabitEthernet0/0
<...>
Schedule:
   Operation frequency (seconds): 60  (not considered if randomly scheduled)
   Next Scheduled Start Time: Pending trigger
   Group Scheduled : FALSE
   Randomly Scheduled : FALSE
   Life (seconds): Forever
   Entry Ageout (seconds): never
   Recurring (Starting Everyday): FALSE
   Status of entry (SNMP RowStatus): Active
Threshold (milliseconds): 5000
Distribution Statistics:
```

Refer to the exhibit A network engineer notices that the configured track option is down Which configuration resolves the issue*?

A. ip sla schedule 10 start-time now
B. ip sla schedule 10 start-time pending life forever
C. ip sla schedule 10 no timeout
D. ip sla schedule 10 no threshold

Answer: A

NEW QUESTION 44
- (Exam Topic 3)



Refer to the exhibit. The services at branch B are down. An engineer notices mal rouler 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
```

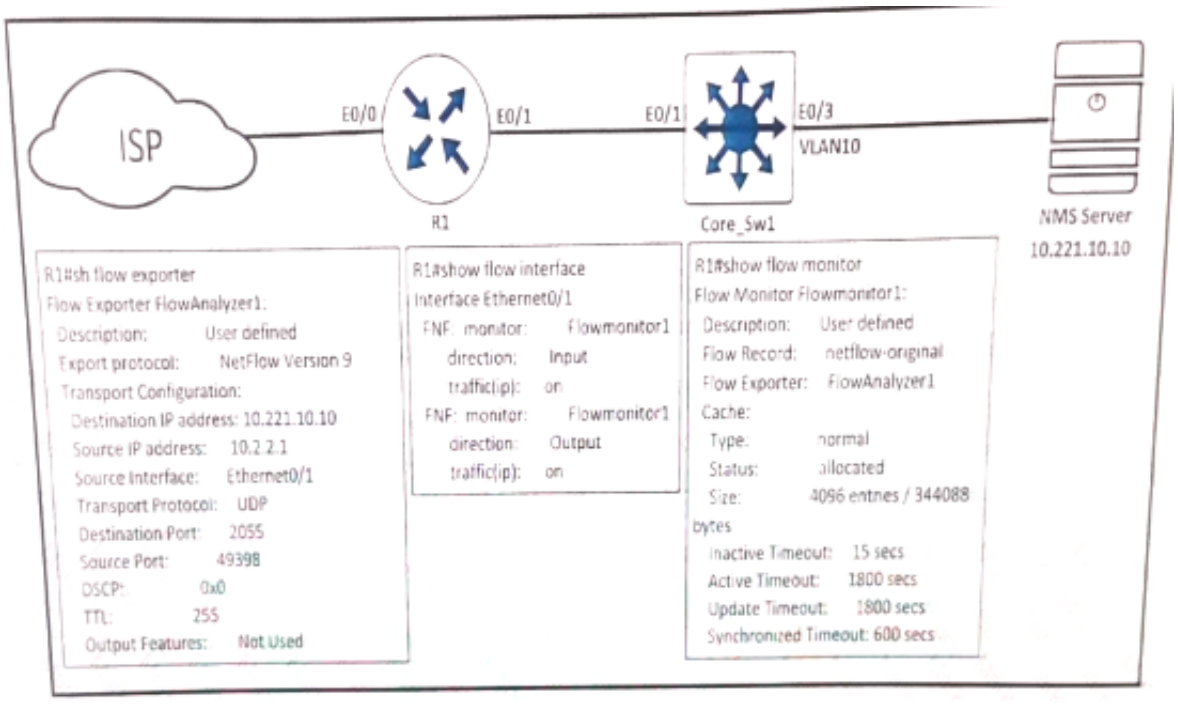
D)

```
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 49
- (Exam Topic 3)
Refer to the exhibit.

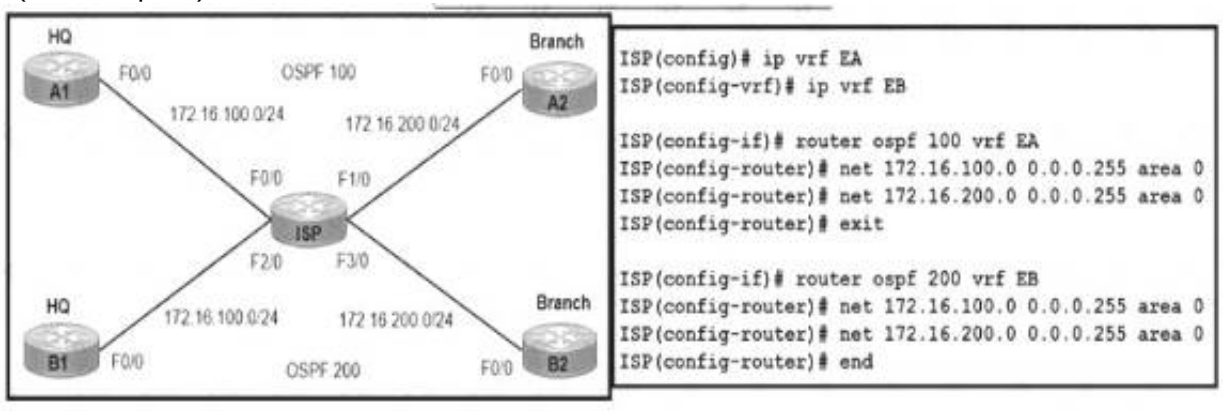


An engineer configured NetFlow on R1, but the NMS server cannot see the flow from ethernet 0/0 of R1. Which configuration resolves the issue?

A. flow monitor Flowmonitor1 source Ethernet0/0
B. interface Ethernet0/1ip flow monitor Flowmonitor1 input ip flow monitor Flowmonitor1 output
C. interface Ethernet0/0ip flow monitor Flowmonitor1 input ip flow monitor Flowmonitor1 output
D. flow exporter FlowAnalyzer1 source Ethernet0/0

Answer: C

NEW QUESTION 50
- (Exam Topic 3)



Refer to the exhibit. A network engineer is provisioning end-to-end traffic service for two different enterprise networks with these requirements
- The OSPF process must differ between customers on HQ and Branch office routers, and adjacencies should come up instantly.
- The enterprise networks are connected with overlapping networks between HO and a branch office Which configuration meets the requirements for a customer site?

A)

```
ISP(config)#int f3/0
ISP(config-if)#ip vrf forwarding EA
ISP(config-if)#description TO->EA2_Branch
ISP(config-if)#ip address 172.16.200.2 255.255.255.0
ISP(config-if)#no shut
```

B)

```
ISP(config)#int f2/0
ISP(config-if)#ip vrf forwarding EA
ISP(config-if)#description TO->EA1_HQ
ISP(config-if)#ip address 172.16.100.2 255.255.255.0
ISP(config-if)#no shut
```

C)

```
ISP(config-vrf)#int f0/0
ISP(config-if)#ip vrf forwarding EB
ISP(config-if)#description TO->EB1_HQ
ISP(config-if)#ip add 172.16.100.2 255.255.255.0
ISP(config-if)#no shut
```

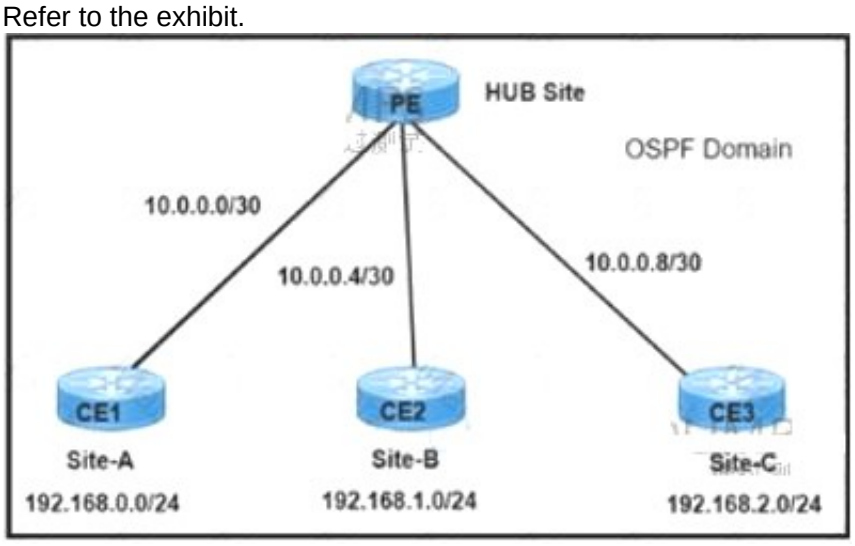
D)

```
ISP(config-if)#int f1/0
ISP(config-if)#ip vrf forwarding EA
ISP(config-if)#description TO->EA2_Branch
ISP(config-if)#ip add 172.16.200.2 255.255.255.0
ISP(config-if)#no shut
```

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

Answer: A

NEW QUESTION 53
- (Exam Topic 3)
Refer to the exhibit.



A network engineer must establish communication between three different customer sites with these requirements:
- Site-A: must be restricted to access to any users at Site-B or Site-C.
- Site-B and Site-C must be able to communicate between sites and share routes using OSPF.

```
PE interface configuration:
interface FastEthernet0/0
 ip vrf forwarding Site-A
!
interface FastEthernet0/1
 ip vrf forwarding SharedSites
!
interface FastEthernet0/2
 ip vrf forwarding SharedSites
```

Which configuration meets the requirements?

```
PE(config)#router ospf 10 vrf Site-A
PE(config-router)#network 0.0.0.0 255.255.255.255 area 0
PE(config)#router ospf 10 vrf SharedSites
PE(config-router)#network 0.0.0.0 255.255.255.255 area 1
```

```
PE(config)#router ospf 10 vrf Site-A
PE(config-router)#network 0.0.0.0 255.255.255.255 area 0
PE(config)#router ospf 10 vrf SharedSites
PE(config-router)#network 0.0.0.0 255.255.255.255 area 0
```

```
PE(config)#router ospf 10 vrf Site-A
PE(config-router)#network 0.0.0.0 255.255.255.255 area 0
PE(config)#router ospf 20 vrf SharedSites
PE(config-router)#network 0.0.0.0 255.255.255.255 area 0
```

```
PE(config)#router ospf 10 vrf Site-A
PE(config-router)#network 0.0.0.0 255.255.255.255 area 0
PE(config)#router ospf 20 vrf SharedSites
PE(config-router)#network 0.0.0.0 255.255.255.255 area 1
```

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

Answer: C

NEW QUESTION 56
- (Exam Topic 3)
Refer to the exhibit.

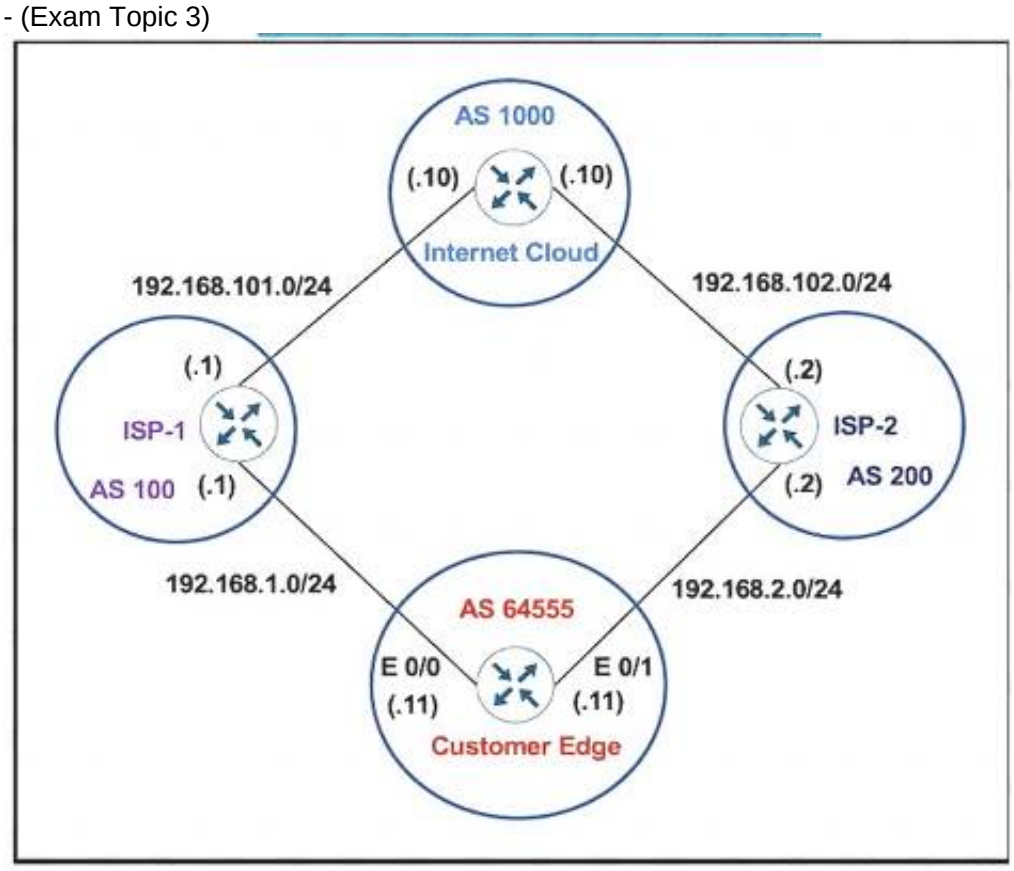
```
*Sep 26 19:50:43.504: SNMP: Packet received via UDP from
192.168.1.2 on GigabitEthernet0/1SrParseV3SnmpMessage: No
matching Engine ID.

SrParseV3SnmpMessage: Failed.
SrDoSnmp: authentication failure, Unknown Engine ID

*Sep 26 19:50:43.504: SNMP: Report, reqid 29548, errstat 0,
erridx 0
internet.6.3.15.1.1.4.0 = 3
*Sep 26 19:50:43.508: SNMP: Packet sent via UDP to 192.168.1.2
process_mgmt_req_int: UDP packet being de-queued
```

Which two commands provide the administrator with the information needed to resolve the issue? (Choose two.)

A. snmp user
B. debug snmp engine-id
C. debug snmpv3 engine-id
D. debug snmp packet
E. showsnmpv3 user

Answer: AE

NEW QUESTION 60
- (Exam Topic 3)



Refer lo lhe exhibit. The Customer Edge rouler 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 64
- (Exam Topic 3)
Refer to the exhibit.

```
ip prefix-list 1 permit 172.16.0.0/16
ip prefix-list 2 permit 192.168.2.0/24
!
route-map RED permit 10
 match ip address prefix-list 1
 set ip next hop 10.1.1.1
 continue 20
 exit
!
route-map RED permit 20
 match ip address prefix-list 2
 set ip next hop 10.2.2.2
 end
```

The forwarding entries how that the next hop for prefixes from the 172.16.0.0/16 network is set to 10.2.2.2 instead of 10.1.1.1. Which action resolves the issue?

A. Add set ip next hop 10.1.1.1 in route-map RED permit 20.
B. Add the continue statement in route-map RED permit 10 instead of continue 20.
C. Remove match ip address prefix-list 1 from route-map RED permit 10.
D. Remove the continue 20 statement from route-map RED permit 10

Answer: D

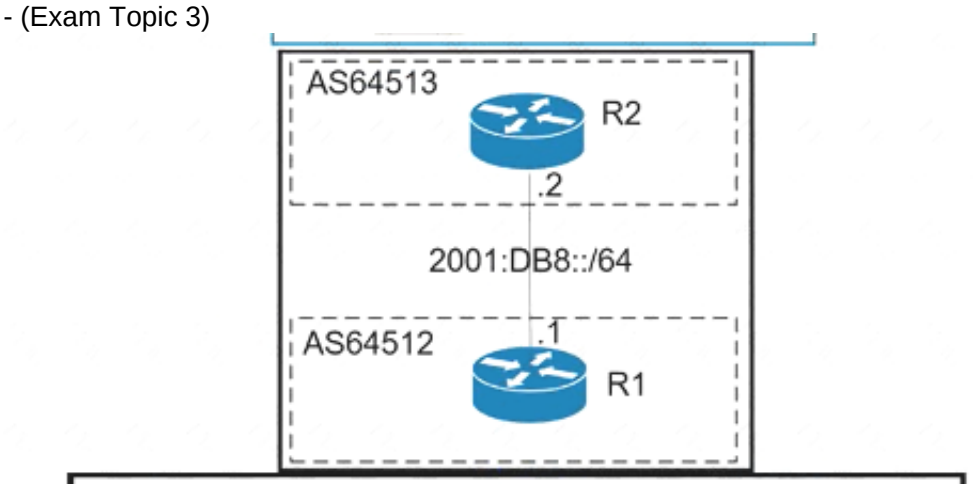
NEW QUESTION 68
- (Exam Topic 3)
What does the MP-BGP OPEN message contain?

A. MPLS labels and the IP address of the router that receives the message
B. the version number and the AS number to which the router belongs
C. IP routing information and the AS number to which the router belongs
D. NLRI, path attributes, and IP addresses of the sending and receiving routers

Answer: B

NEW QUESTION 70

- (Exam Topic 3)




```
R1#show ipv6 access-list
IPv6 access list inbound-acl
    permit tcp host 2001:DB8::2 eq bgp host 2001:DB8::1 (75 matches) sequence 20
    permit tcp host 2001:DB8::2 host 2001:DB8::1 eq bgp (17 matches) sequence 30
    deny ipv6 2001:DB8::/32 any (77 matches) sequence 40
    permit ipv6 any (20 matches) sequence 1000
R1#ping ipv6 2001:DB8::2

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 2001:DB8::2, timeout is 2 seconds:
.....
Success rate is 0 percent (0/5)
R1#show ipv6 access-list
IPv6 access list inbound-acl
    permit tcp host 2001:DB8::2 eq bgp host 2001:DB8::1 (77 matches) sequence 20
    permit tcp host 2001:DB8::2 host 2001:DB8::1 eq bgp (19 matches) sequence 30
    deny ipv6 2001:DB8::/32 any (95 matches) sequence 40
    permit ipv6 any (23 matches) sequence 1000
R1#
```

Refer to the exhibit. An engineer applied filter on R1 The interface flapped between R1 and R2 and cleaning the BGP session did not restore the BGP session and failed Which action must the engineer take to restore the BGP session from R2 to R1?

A. Apply the IPv6 traffic filter in the outbound direction on the interface
B. ICMPv6 must be permitted by the IPv6 traffic filter
C. Enable the BGP session, which went down when the session was cleared.
D. Swap the source and destination IP addresses in the IPv6 traffic filter

Answer: B

NEW QUESTION 73
- (Exam Topic 3)
Refer to the exhibit.

```
R1#sh ip route
     10.0.0.0/8 is variably subnetted, 3 subnets, 1 masks
D       10.1.2.0/24 [90/409600] via 10.1.100.10, 00:08:45,
FastEthernet0/0
D       10.1.1.0/24 [90/409600] via 10.1.100.10, 00:08:45,
FastEthernet0/0
C       10.1.100.0/24 is directly connected, FastEthernet0/0
```

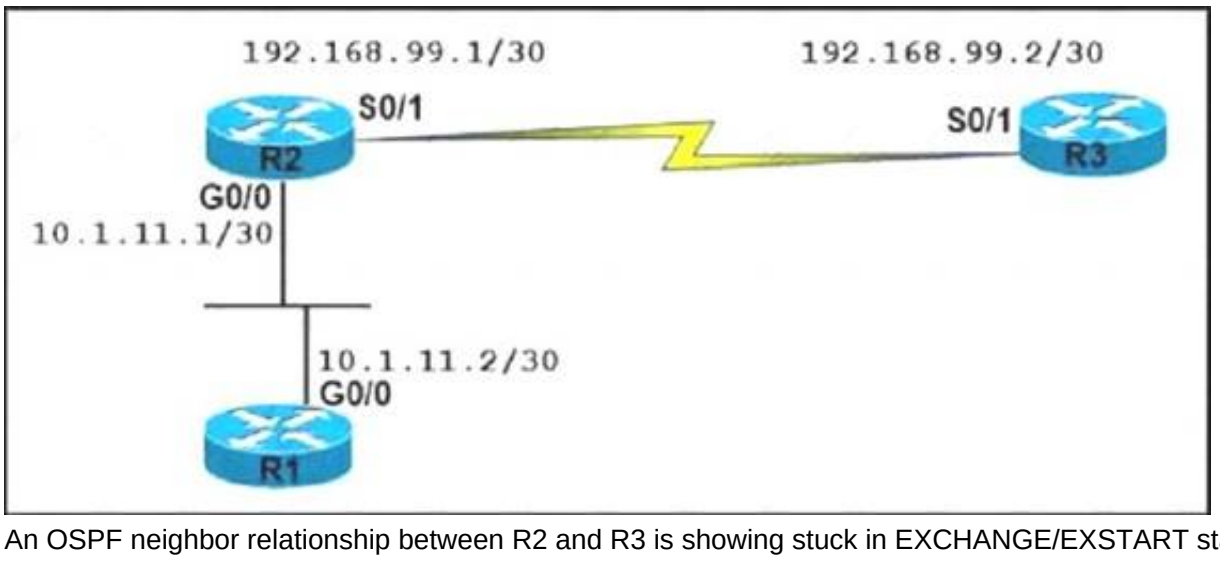
Although summarization is configured for R1 to receive 10.0.0.0/8. more specific routes are received by R1. How should the 10.0.0.0/8 summary route be received from the neighbor, attached to R1 via Fast Ethernet0/0 interface?

A. R1 should configure the ip summary-address eigrp <AS number> 10.0.0.0.255.0.0.0 command under the Fast Ethernet 0/0 interface.
B. The summarization condition is not met Router 10 1 100.10 requires a route for 10 0.0.0/8 that points to null 0
C. The summarization condition is not me
D. The network 10.1.100.0/24 should be changed to 172.16.0.0/24.
E. R1 should configure the ip summary-address eigrp <AS number> 10.0.0.0 0.0.0.255 command under the Fast Ethernet 0/0 interface.

Answer: D

NEW QUESTION 76
- (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
```



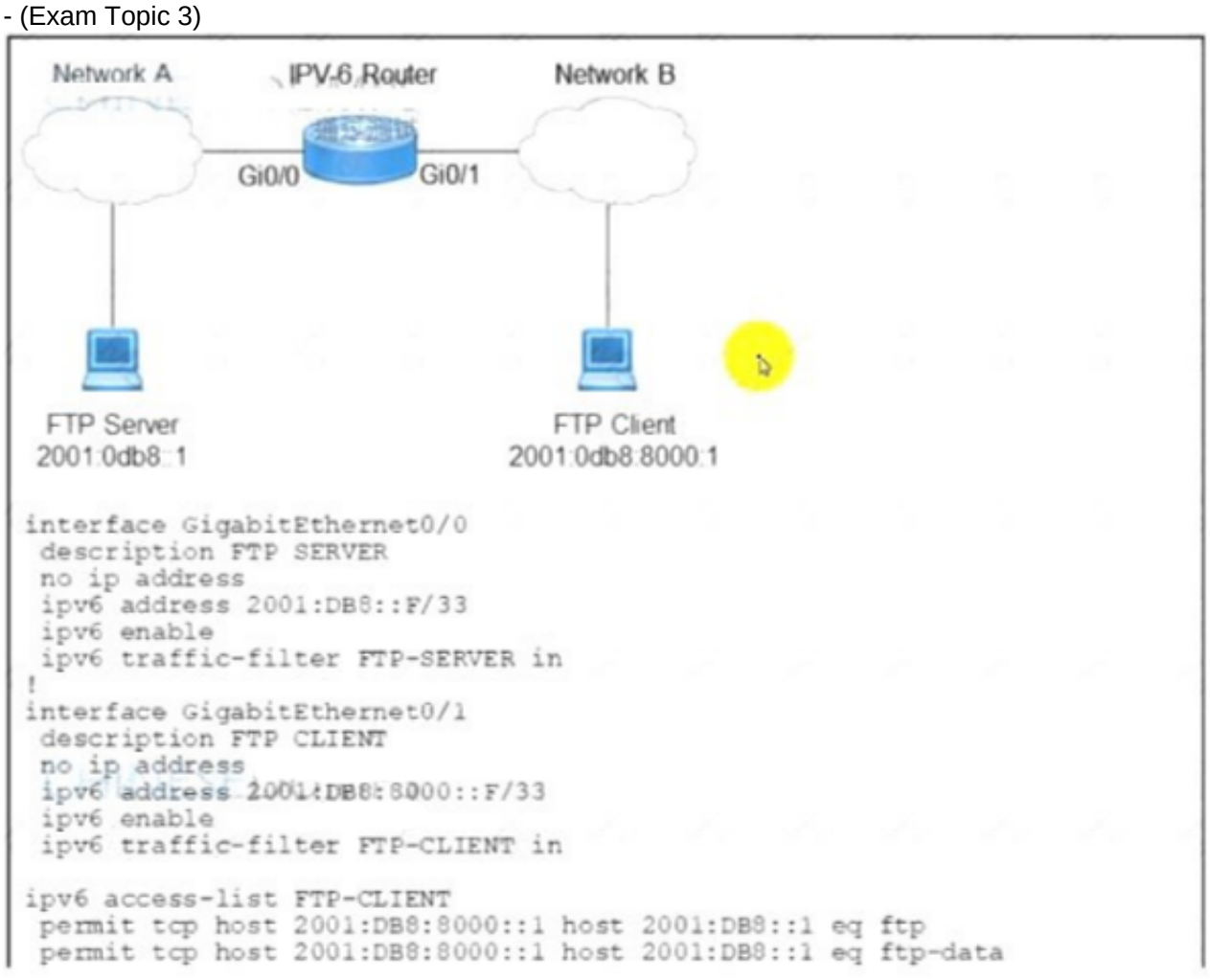
An OSPF neighbor relationship between R2 and R3 is showing stuck in EXCHANGE/EXSTART state. The neighbor is established between R1 and R2. The network engineer can ping from R2 to R3 and vice versa, but the neighbor is still down. Which action resolves the issue?

A. Restore the Layer 2/Layer 3 conectivity 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 that the MTU set on the neighboring router, the neighboring router ignores the packet.

NEW QUESTION 81
- (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
```

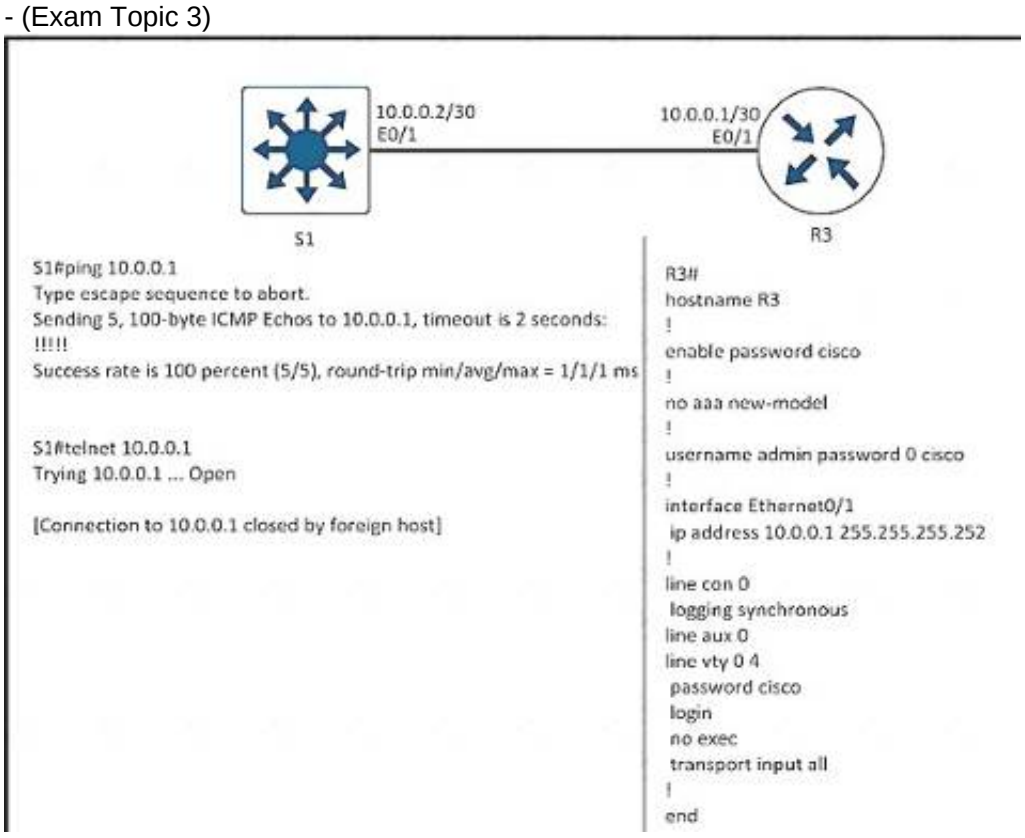
```
ipv6 access-list FTP-CLIENT
 permit tcp host 2001:DB8:8000::1 host 2001:DB8::1 eq ftp
 permit tcp host 2001:DB8:8000::1 host 2001:DB8::1 eq ftp-data
!
ipv6 access-list FTP-SERVER
 permit tcp host 2001:DB8::1 host 2001:DB8:8000::1 eq ftp established
 permit tcp host 2001:DB8::1 host 2001:DB8:8000::1 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 83
- (Exam Topic 3)

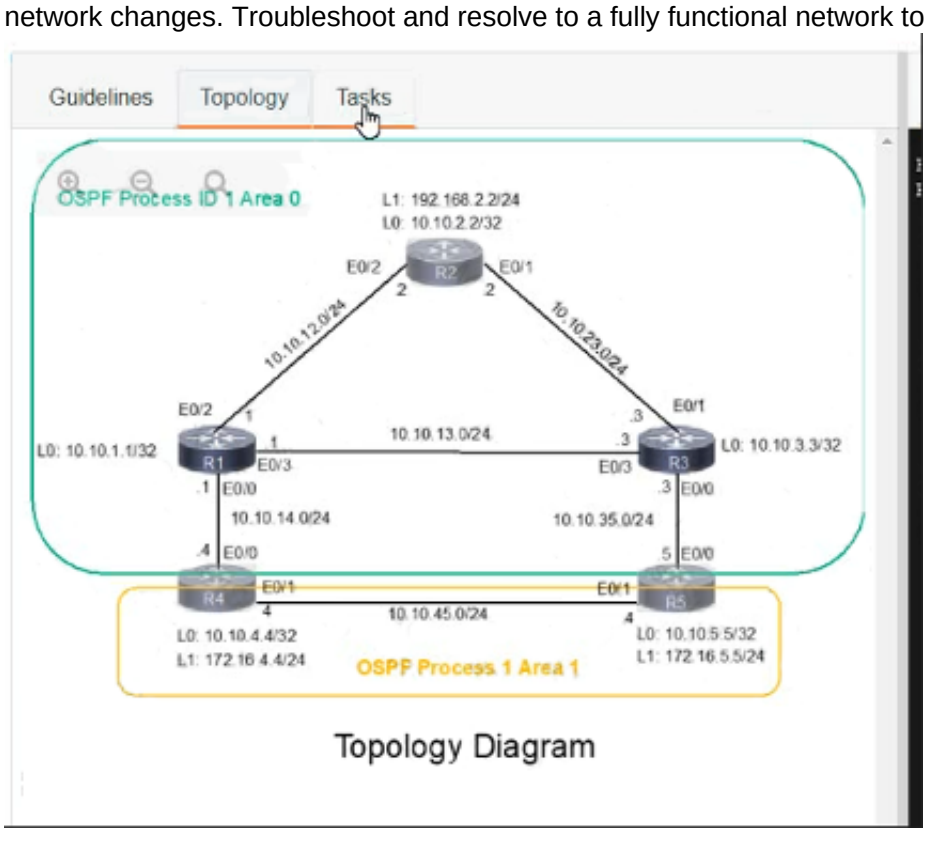


Refer to the exhibit. A network engineer cannot remote access R3 using Telnet from switch S1. Which action resolves the issue?

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 87
- (Exam Topic 3)
A network is configured with IP connectivity, and the routing protocol between devices started having problems right after the maintenance window to implement network changes. Troubleshoot and resolve to a fully functional network to ensure that:



Topology Diagram

Guidelines Topology Tasks

A network is configured with IP connectivity, and the routing protocol between devices started having problems right after the maintenance window to implement network changes. Troubleshoot and resolve to a fully functional network to ensure that:

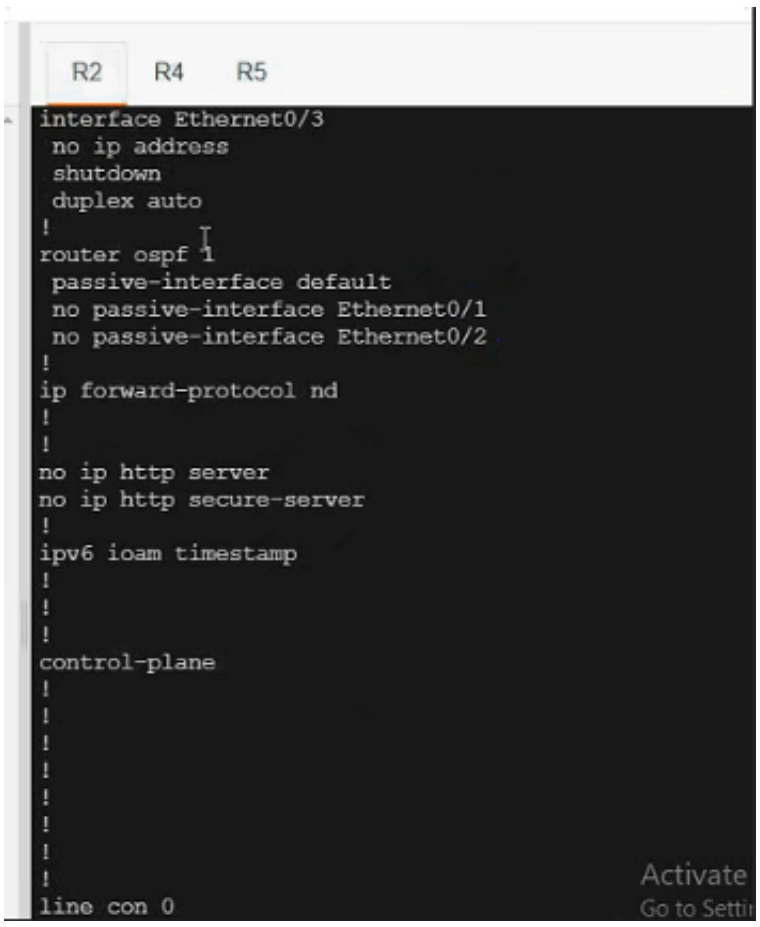
1. Inter-area links have link authentication (not area authentication) using MD5 with the key 1 string CCNP.
2. R3 is a DR regardless of R2 status while R1 and R2 establish a DR/BDR relationship.
3. OSPF uses the default cost on all interfaces. Network reachability must follow OSPF default behavior for traffic within an area over intra-area VS inter-area links.
4. The OSPF external route generated on R4 adds link cost when traversing through the network to reach R2. A network command to advertise routes is not allowed.

R2 R4 R5

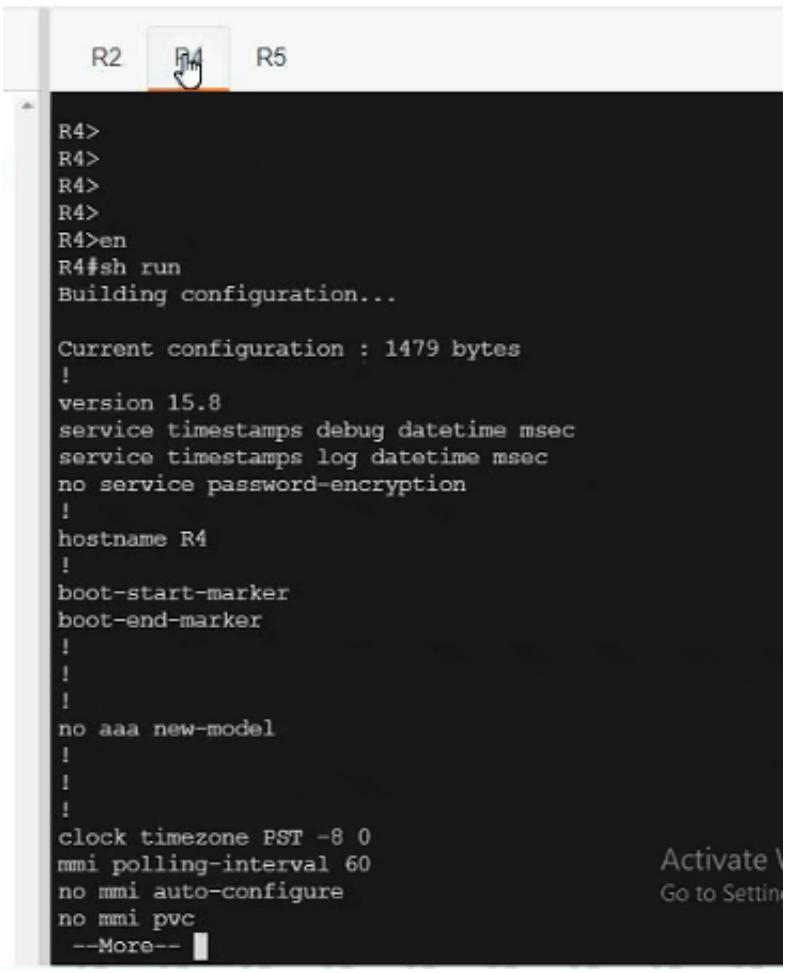
```
R2>en
R2#
R2#
R2#
R2#
R2#
R2#
R2#sh run
Building configuration...

Current configuration : 1279 bytes
!
version 15.8
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R2
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
!
!
!
clock timezone PST -8 0
mmi polling-interval 60
no mmi auto-configure
```


R2 R4 R5

```
interface Loopback0
 ip address 10.10.2.2 255.255.255.255
 ip ospf 1 area 0
!
interface Loopback1
 ip address 192.168.2.2 255.255.255.0
 ip ospf 1 area 0
!
interface Ethernet0/0
 no ip address
 shutdown
 duplex auto
!
interface Ethernet0/1
 ip address 10.10.23.2 255.255.255.0
 ip ospf 1 area 0
 duplex auto
!
interface Ethernet0/2
 ip address 10.10.12.2 255.255.255.0
 ip ospf 1 area 0
 duplex auto
!
interface Ethernet0/3
 no ip address
 shutdown
 duplex auto
!
router ospf 1
 passive-interface default
 no passive-interface Ethernet0/1
 no passive-interface Ethernet0/2
```


R2
R4
R5
interface Ethernet0/3
no ip address
shutdown
duplex auto
!
router ospf 1
passive-interface default
no passive-interface Ethernet0/1
no passive-interface Ethernet0/2
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
!
ipv6 ioam timestamp
!
!
!
control-plane
!
!
!
!
!
!
!
!
line con 0
Activate
Go to Setti

R4


R2
R4
R5
R4>
R4>
R4>
R4>
R4>en
R4#sh run
Building configuration...
Current configuration : 1479 bytes
!
version 15.8
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R4
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
!
!
!
clock timezone PST -8 0
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
--More--
Activate
Go to Settin

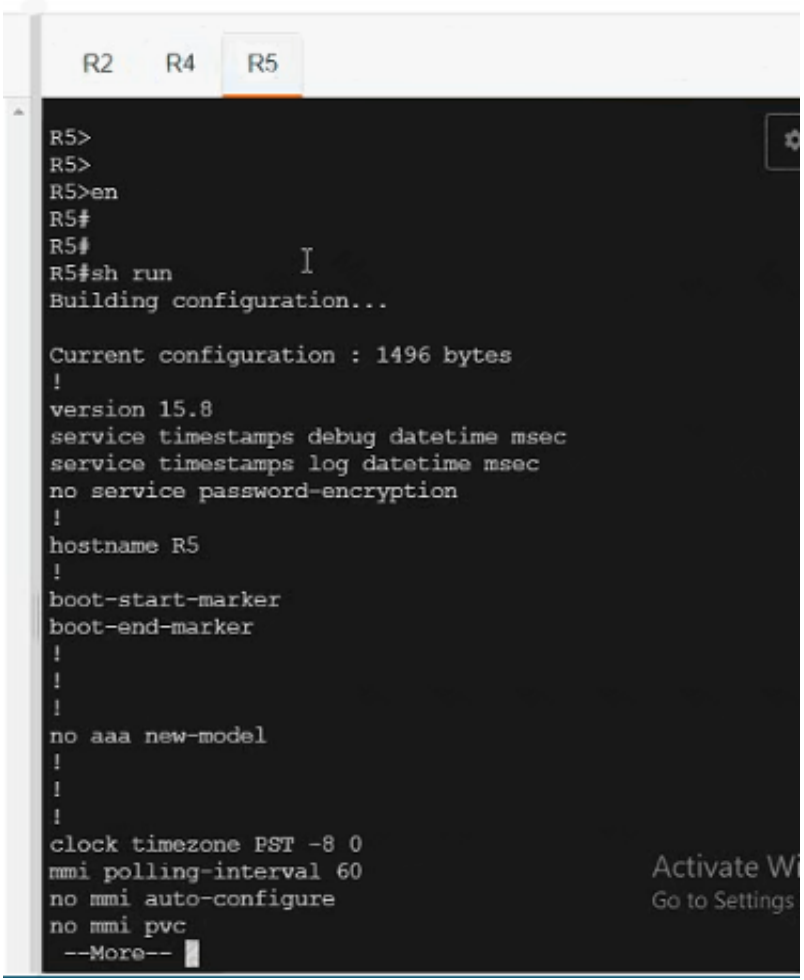
R2 R4 R5

```
key chain CCNP
 key 1
  key-string ccnp
  cryptographic-algorithm md5
!
!
!
!
!
!
 ip address 172.16.4.4 255.255.255.0
!
interface Ethernet0/0
 ip address 10.10.14.4 255.255.255.0
 ip ospf authentication key-chain CCNP
 ip ospf 1 area 0
 duplex auto
!
interface Ethernet0/1
 ip address 172.16.45.4 255.255.255.0
 ip ospf 1 area 1
 duplex auto
!
interface Ethernet0/2
 no ip address
 shutdown
 duplex auto
!
interface Ethernet0/3
 no ip address
 shutdown
 duplex auto
```

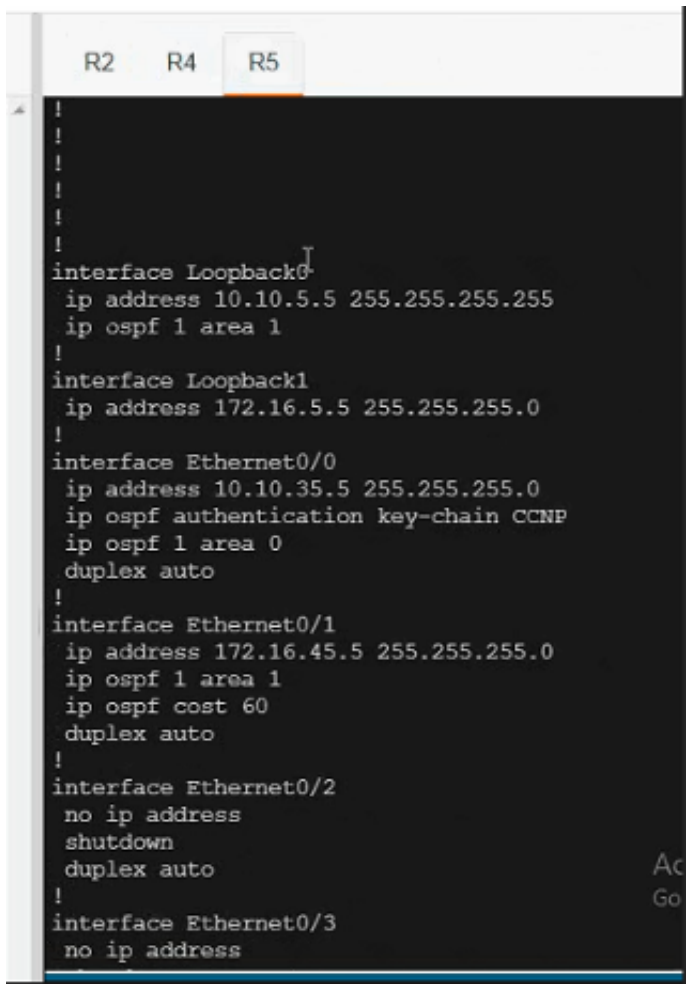

R2 R4 R5

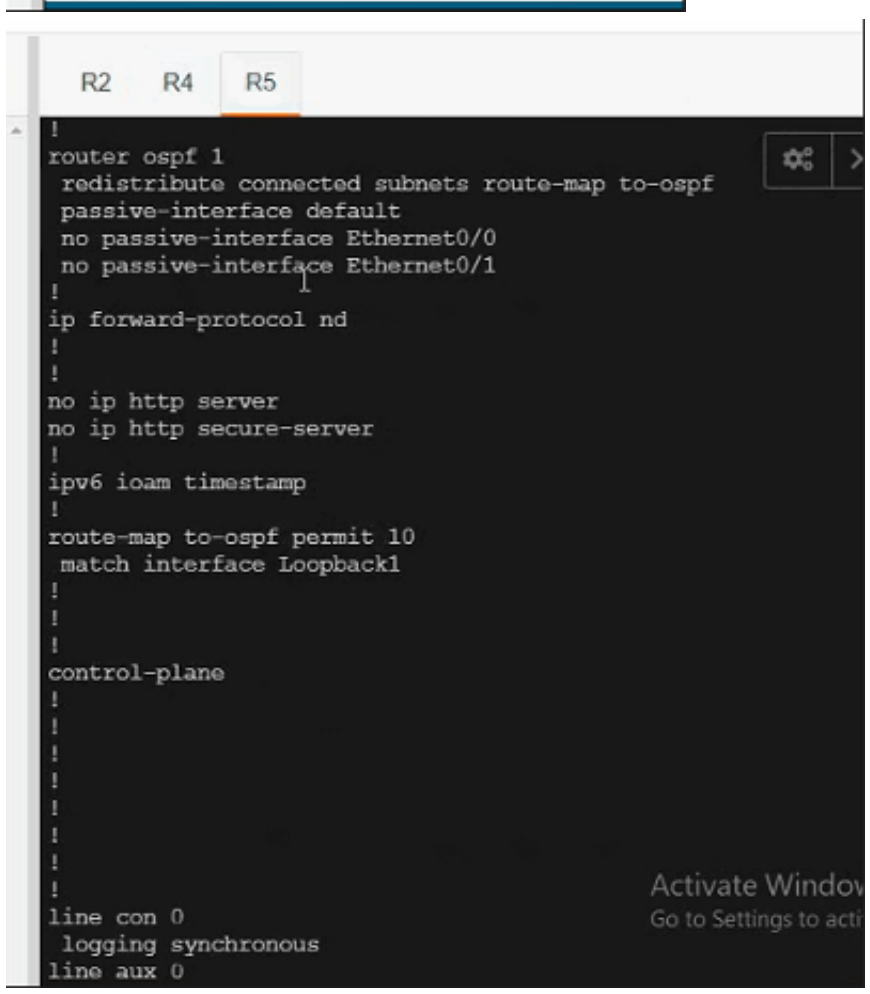
```
!
router ospf 1
 redistribute connected subnets route-map to-ospf
 passive-interface default
 no passive-interface Ethernet0/0
 no passive-interface Ethernet0/1
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
!
ipv6 ioam timestamp
!
route-map to-ospf permit 10
 match interface Loopback1
!
!
!
control-plane
!
!
!
!
!
!
!
!
line con 0
 logging synchronous
line aux 0
```


R5


R2
R4
R5
R5>
R5>
R5>en
R5#
R5#
R5#sh run
Building configuration...
Current configuration : 1496 bytes
!
version 15.8
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname R5
!
boot-start-marker
boot-end-marker
!
!
!
no aaa new-model
!
!
!
clock timezone PST -8 0
mmi polling-interval 60
no mmi auto-configure
no mmi pvc
--More--
Activate Wi
Go to Settings


R2
R4
R5
!
!
!
!
!
!
!
!
!
!
!
!
!
no ip domain lookup
ip cef
no ipv6 cef
!
multilink bundle-name authenticated
!
!
!
key chain CCNP
key 1
key-string CCNP
cryptographic-algorithm md5
!
!
!
!



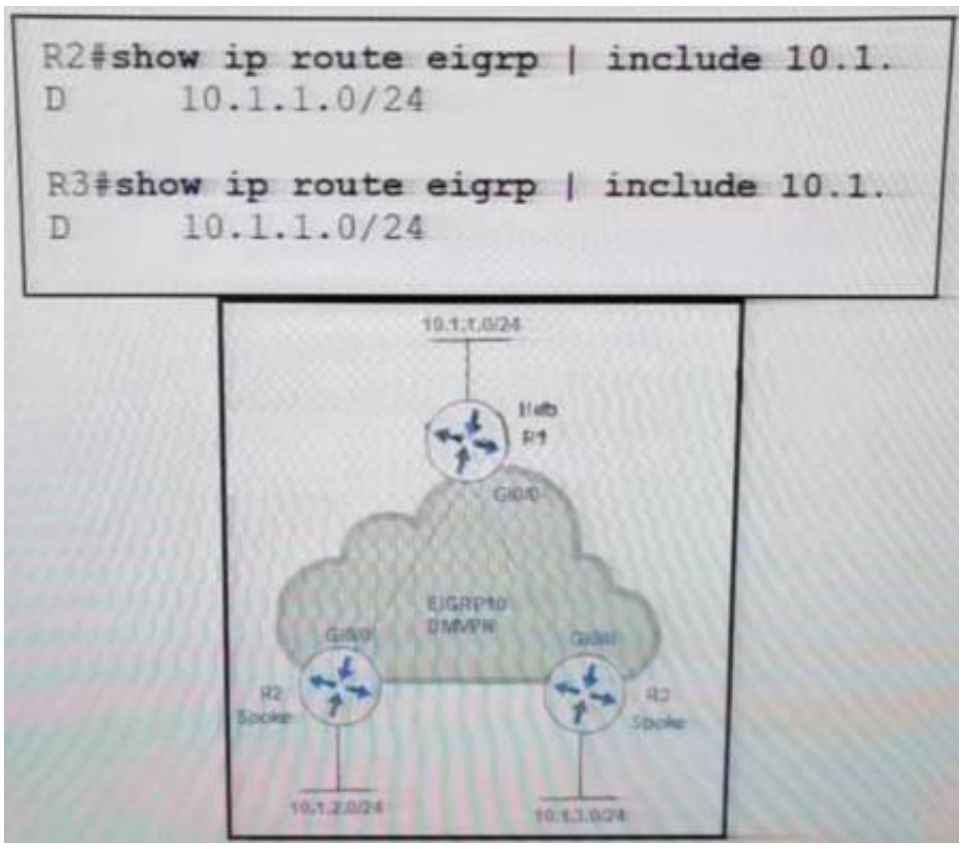


A. Mastered
B. Not Mastered

Answer: A

Explanation:
R4
Int range et0/0 – 1
Ip ospf authentication message-digest
Ip ospf message-digest-key 1 md5 CCNP
Router ospf 1
Redistribute connected subnets route-map to-ospf metric-type 1 Copy run start
R5
Int range et0/0 – 1
Ip ospf authentication message-digest
Ip ospf message-digest-key 1 md5 CCNP Interface eth 0/1
Ip ospf cost 10 Copy run start VERIFICATION:Graphical user interface, text, application Description automatically generated

NEW QUESTION 91
- (Exam Topic 3)
Refer to the exhibit.



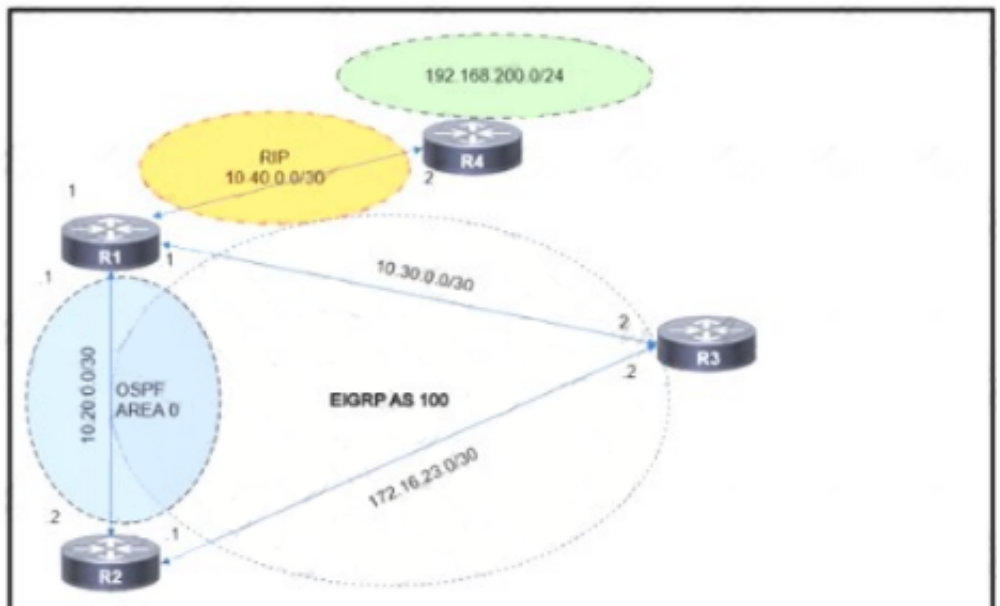
An engineer configures DMVPN and receives the hub location prefix of 10.1.1.0724 on R2 and R3 The R3 prefix of 10 1.3.0/24 is not received on R2. and the R2 prefix 10.1,2.0/24 is not received on R3. Which action reserves the issue?

A. Split horizon prevents the routes from being advertised between spoke routers it should be disabled with the command no ip split-horizon eigrp 10 on the tunnel interface of R1
B. There is no spoke-to-spoke connection DMVPN configuration should be modified to enable a tunnel connection between R2 and R3 and neighbor relationship confirmed by use of the show ip eigrp neighbor command
C. Split horizon prevents the routes from being advertised between spoke routers it should be disabled with the no ip split-horizon eigrp 10 command on the Gi0/0 interface of R1.
D. There is no spoke-to-spoke connection DMVPN configuration should be modified with a manual neighbor relationship configured between R2 and R3 and confirmed bb use of the show ip eigrp neighbor command.

Answer: A

Explanation:
In this topology, the Hub router will receive advertisements from R2 Spoke router on its tunnel interface. The problem here is that it also has a connection with R3 Spoke on that same tunnel interface. If we don’t disable split-horizon, then the Hub will not relay routes from R2 to R3 and the other way around. That is because it received those routes on the same interface tunnel and therefore
it cannot advertise back out that same interface (split-horizon rule). Therefore we must disable splithorizon on the Hub router to make sure the Spokes know about each other.

NEW QUESTION 93
- (Exam Topic 3)




```
R2
R2#sho run | sec router
router eigrp 100
 redistribute ospf 100 metric
1 10000 200 200 1500
 network 10.20.0.0 0.0.0.3
 network 172.16.23.0 0.0.0.3
 auto-summary
router ospf 100
 router-id 2.2.2.2
 log-adjacency-changes
 redistribute eigrp 100
metric 15000 subnets
 network 10.20.0.0 0.0.0.3
area 0
R2#
```

```
R1
R1#sho run | sec router
router eigrp 100
 redistribute rip metric 1 10 255 255 1500
 network 10.0.0.0
 auto-summary
 eigrp router-id 1.1.1.1
router ospf 100
 router-id 1.1.1.1
 log-adjacency-changes
network 10.20.0.0 0.0.0.3 area 0
router rip
 redistribute eigrp 100 metric 1
 network 10.0.0.0
R1#
```

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 94
- (Exam Topic 3)

```
R4#
interface FastEthernet1/0
 ip address 10.1.1.14 255.255.255.252
 ip access-group VENDOR in
 ip authentication mode eigrp 100 md5
 ip authentication key-chain eigrp 100 EIGRPKEY
 speed 100
 full-duplex
!
interface loopback 100
 ip address 10.199.100.1 255.255.255.255
!
router eigrp 100
 network 10.1.1.8 0.0.0.3
 network 10.1.1.12 0.0.0.3
 no auto-summary
 eigrp router-id 100.4.4.4
 neighbor 10.1.1.13 FastEthernet1/0
 redistribute connected
!
router bgp 65001
 no synchronization
 bgp log-neighbor-changes
 network 100.4.4.4 mask 255.255.255.255
 neighbor 10.1.1.13 remote-as 65001
 no auto-summary
!
ip access-list extended VENDOR
 permit tcp 192.168.32.0 0.0.7.255 host 10.199.100.1 eq 22 time-range VENDOR_ACCESS
!
time-range VENDOR_ACCESS
 periodic weekend 22:00 to 23:00
```

Refer to the exhibit A network engineer received a call from the vendor for a failed attempt to remotely log in to their managed rooter loopback interface from 192 168.40 15 Which action must the network engineer take to resolve the issue?

A. The IP access list VENDOR must be applied to interface loopback 100
B. The time-range configuration must be changed to use absolute instead of periodic
C. The EIGRP configuration must be updated to include a network statement for loopback 100
D. The source IP summarization must be updated to include the vendor source IP address

Answer: C

NEW QUESTION 95
- (Exam Topic 3)

```
R1#show ip bgp 10.0.0.0/8
BGP routing table entry for 10.0.0.0/8, version 0
Paths: (1 available, no best path)
Not advertised to any peer
Refresh Epoch 1
100
192.168.10.20 (inaccessible) from 192.168.20.20 (192.168.20.20)
Origin incomplete, metric 0, localpref 100, valid, internal rx
pathid: 0, tx pathid: 0
```

Refer to the exhibit. An engineer is troubleshooting a prefix advertisement issue from R3, which is not directly connected to R1. Which configuration resolves the issue?
A)

```
R1(config)#router bgp 64512
R1(config-router)#neighbor 192.168.10.20 next-hop-self
```

B)

```
R1(config)#router bgp 64512
R1(config-router)#neighbor 192.168.20.20 next-hop-self
```

C)

```
R2(config)#router bgp 64512
R2(config-router)#neighbor 192.168.20.10 next-hop-self
```

D)

```
R2(config)#router bgp 64512
R2(config-router)#neighbor 192.168.10.20 next-hop-self
```

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

Answer: A

NEW QUESTION 98
- (Exam Topic 3)
What is considered the primary advantage of running BFD?

A. reduction in time needed to detect Layer 2 switched neighbor failures
B. reduction in time needed to detect Layer 3 routing neighbor failures
C. reduction in CPU needed to detect Layer 2 switch neighbor failures
D. reduction in CPU needed to detect Layer 3 routing neighbor failures

Answer: B

NEW QUESTION 102
- (Exam Topic 3)

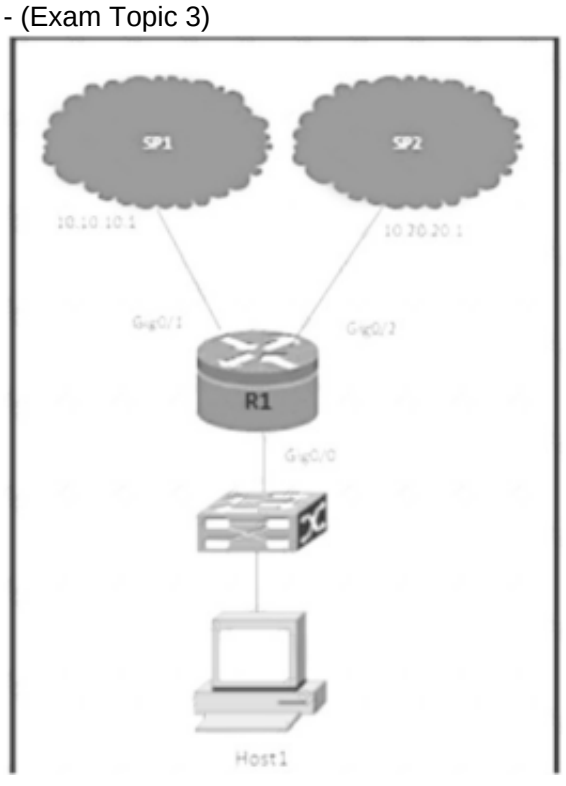
```
Router#show ip bgp vpnv4 rd 1100:1001 10.30.116.0/23
BGP routing table entry for 1100:1001:10.30.116.0/23, version 26765275
Paths: (9 available, best #6, no table)
  Advertised to update-groups:
     1         2         3
  (65001 64955 65003) 65089, (Received from a RR-client)
    172.16.254.226 (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
      mpls 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
      mpls 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
      mpls 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
      mpls 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
      mpls 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
      mpls 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
      mpls 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
      mpls 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
      mpls 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 106
- (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 108
- (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

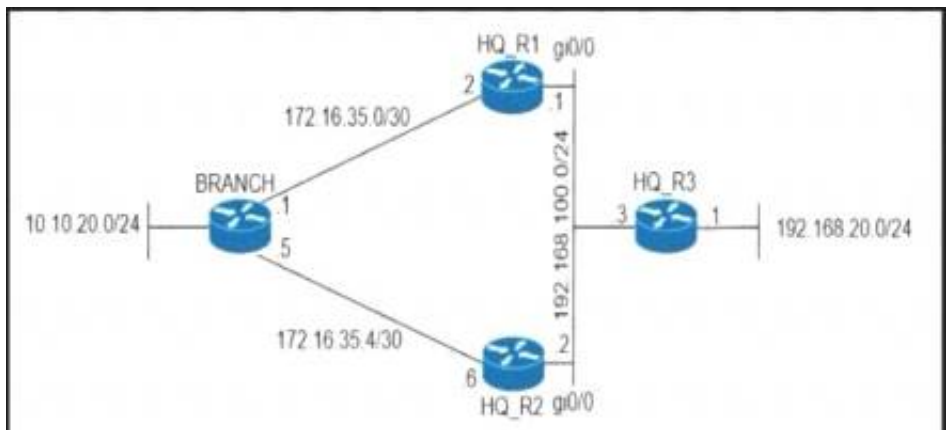
Answer: D

NEW QUESTION 111
- (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 m 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 lag 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 115
- (Exam Topic 2)




```
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 172.16.35.2
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
```

Refer to the exhibit. An engineer has successfully set up a floating static route from the BRANCH router to the HQ network using HQ_R1 as the primary default gateway When the g0/0 goes down on HQ_R1, the branch network cannot reach the HQ network 192.168.20.0/24. Which set of configurations resolves the issue?

A. HQ_R3(config)# ip sla responderHQ_R3(config)# ip sla responder icmp-echo 172.16.35.1
B. BRANCH(config)# ip sla 1BRANCH(config-ip-sla)# icmp-echo 192.168.100.2
C. HQ R3(config)# Ip sla responderHQ R3(config)# Ip sla responder Icmp-echo 172.16.35.5
D. BRANCH(config)# Ip sla 1BRANCH(config-ip-sta)# Icmp-echo 192.168.100.1

Answer: D

NEW QUESTION 118
- (Exam Topic 2)
Refer to the exhibit.

```
Router# show ip route

    2.0.0.0/24 is subnetted, 1 subnets
C       2.2.2.0 is directly connected, Ethernet0/0
C    3.0.0.0/8 is directly connected, Serial1/0
O E2 200.1.1.0/24 [110/20] via 2.2.2.2, 00:16:17, Ethernet0/0
O E1 200.2.2.0/24 [110/104] via 2.2.2.2, 00:00:41, Ethernet0/0
    131.108.0.0/24 is subnetted, 2 subnets
O       131.108.2.0 [110/74] via 2.2.2.2, 00:16:17, Ethernet0/0
O IA    131.108.1.0 [110/84] via 2.2.2.2, 00:16:17, Ethernet0/0

Router# show ip bgp

  Network          Next Hop            Metric LocPrf Weight Path
*> 2.2.2.0/24      0.0.0.0                  0         32768 ?
*> 131.108.1.0/24  2.2.2.2                 84         32768 ?
*> 131.108.2.0/24  2.2.2.2                 74         32768 ?
```

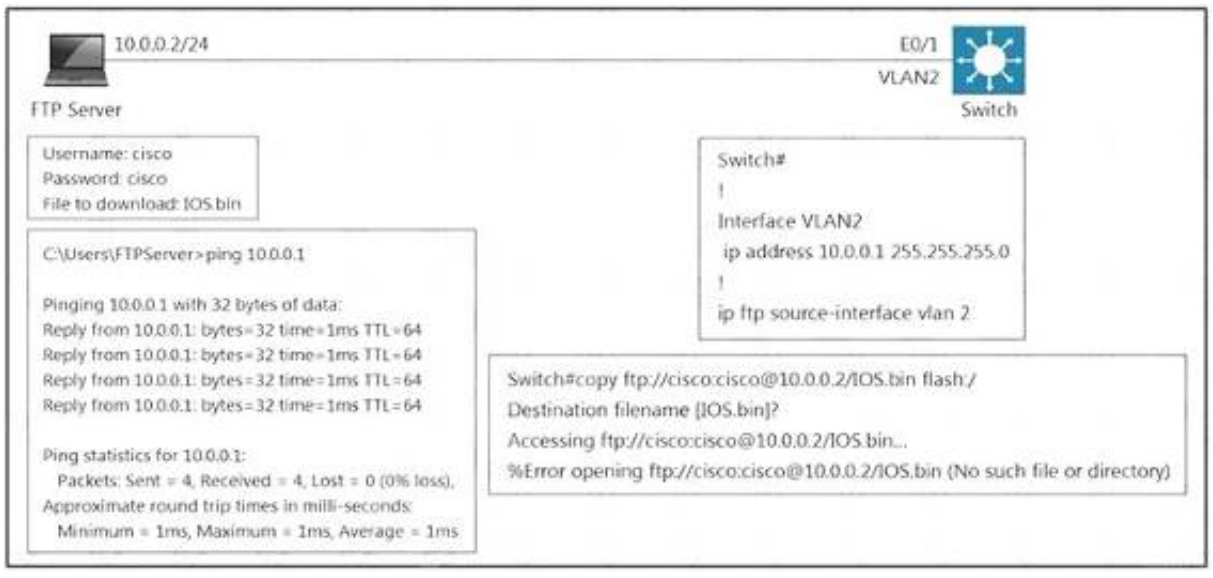
The OSPF routing protocol is redistributed into the BGP routing protocol, but not all the OSPF routes are distributed into BGP Which action resolves the issue?

A. Include the word external in the redistribute command
B. Use a route-map command to redistribute OSPF external routes defined in an access list
C. Include the word internal external in the redistribute command
D. Use a route-map command to redistribute OSPF external routes defined in a prefix list.

Answer: C

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 use the internal keyword along with the redistribute command under router bgp to redistribute OSPF intra- and inter-area routes.
Use the external keyword along with the redistribute command under router bgp to redistribute OSPF external routes into BGP.
-> In order to redistribute all OSPF routes into BGP, we must use both internal and external keywords. The full command would be (suppose we are using OSPF 1):
redistribute ospf 1 match internal external
Note: The configuration shows match internal external 1 external 2. This is normal because OSPF automatically appends “external 1 external 2” in the configuration. In other words, keyword external = external 1 external 2. External 1 = O E1 and External 2 = O E2. Reference:
https://www.cisco.com/c/en/us/support/docs/ip/border-gateway-protocol-bgp/5242-bgp-ospf-redi s.html

NEW QUESTION 120
- (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 124
- (Exam Topic 3)
What is a function of an end device configured with DHCPv6 guard?

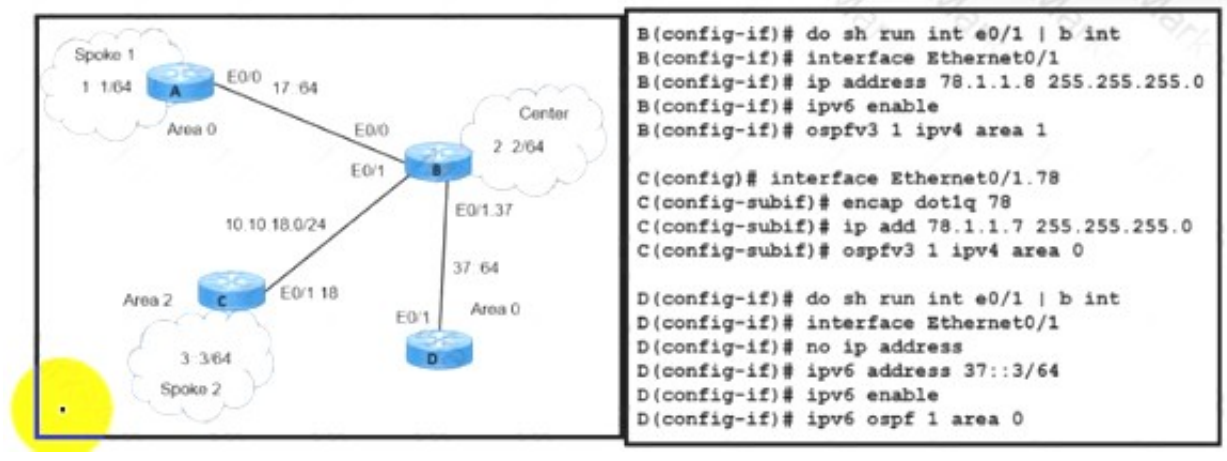
A. If it is configured as a server, only prefix assignments are permitted.
B. If it is configured as a relay agent, only prefix assignments are permitted.
C. If it is configured as a client, messages are switched regardless of the assigned role.
D. If it is configured as a client, only DHCP requests are permitted.

Answer: C

Explanation:

The DHCPv6 Guard feature blocks reply and advertisement messages that come from unauthorized DHCP servers and relay agents.
Packets are classified into one of the three DHCP type messages. All client messages are always switched regardless of device role. DHCP server messages are only processed further if the device role is set to server. Further processing of server messages includes DHCP server advertisements (for source validation and server preference) and DHCP server replies (for permitted prefixes).
If the device is configured as a DHCP server, all the messages need to be switched, regardless of the device role configuration.

NEW QUESTION 125
- (Exam Topic 3)



Refer to the exhibit. A network engineer receives a report that Spoke 1 users can perform bank transactions with the server located at the Center site, but Spoke 2 users cannot. Which action resolves the issue?

A. Configure the Spoke 2 users IP on the router B OSPF domain
B. Configure encapsulation dot1q 78 on the router C interface.
C. Configure IPv6 on the routers B and C interfaces
D. Configure OSPFv2 on the routers B and C interfaces

Answer: C

NEW QUESTION 126
- (Exam Topic 3)

Refer to the exhibit. A network administrator configured NetFlow data, but the data is not visible at the NetFlow collector. Which configuration allows the router to send the records?

A. Configure the management interface in the global routing table to send the records.
B. Configure a different interface to send the records.
C. Configure the NetFlow collector to listen at export-protocol netflow-v5.
D. Rectify NetFlow collector reachability from the management interface.

Answer: B

NEW QUESTION 130
- (Exam Topic 3)
What is a characteristic of IPv6 RA Guard?

A. RA messages are allowed from the host port to the switch
B. It is unable to protect tunneled traffic
C. It filters rogue RA broadcasts from connected hosts
D. It is supported on the egress direction of the switch

Answer: C

NEW QUESTION 133
- (Exam Topic 3)
Refer to the exhibit.

```
ip vrf CCNP
 rd 1:1
interface Ethernet1
 ip vrf forwarding CCNP
 ip address 10.1.1.1 255.255.255.252
!
interface Ethernet2
 ip vrf forwarding CCNP
 ip address 10.2.2.2 255.255.255.252
```

Which configuration enables OSPF for area 0 interfaces to adjacency with a neighboring router with the same VRF?

A. router ospf 1 vrf CCNP interface Ethernet1ip ospf 1 area 0.0.0.0 interface Ethernet2 ip ospf 1 area 0.0.0.0
B. router ospf 1 interface Ethernet1ip ospf 1 area 0.0.0.0 interface Ethernet2 ip ospf 1 area 0.0.0.0
C. router ospf 1 vrf CCNP network 10.1.1.1 0.0.0.0 area 0network 10.2.2.2 0.0.0.0 area 0
D. router ospf 1 vrf CCNPnetwork 10.0.0.0 0.0.255.255 area 0

Answer: C

NEW QUESTION 134
- (Exam Topic 3)
An engineer received a ticket about a router that has reloaded. The monitoring system graphs show different traffic patterns between logical and physical interfaces when the router is rebooted. Which action resolves the issue?

A. Configure the snmp ifindex persist command globally.
B. Clear the logical interfaces with snmp ifindex clear command
C. Configure the snmp ifindex persist command on the physical interfaces.
D. Trigger a new snmpwalk from the monitoring system to synchronize interface OIDs

Answer: A

NEW QUESTION 137
- (Exam Topic 3)
Refer to the exhibit.

```
CPE(config)# lin c 0
CPE(config-line)# no exec
CPE(config-line)# end
CPE#
*Jan 31 23:07:22.655: %SYS-5-CONFIG_I: Configured from console
by console
CPE# wr
Building configuration...
[OK]
CPE# exit

CPE con0 is now available

Press RETURN to get started.

! Console stopped responding at this moment !
```

An administrator is attempting to disable the automatic logout after a period of inactivity. After logging out the console stopped responding to all keyword inputs. Remote access through SSH still work resolves the issue?

A. Configure the exec command on line con 0.
B. Configure the absolute-timeout command on line con 0.
C. Configure the default exec-timeout command on line con 0.
D. Configure the no exec-timeout command on line con 0.

Answer: D

NEW QUESTION 139
- (Exam Topic 3)
The network administrator configured the router for Control Plane Policrg so that inbound SSH traffic is policed to 500 kbps This policy must apply to traffic coming in from 101010 0<24 and 192 168 10.0/24 networks

```
access-list 100 permit ip 10.10.10.0 0.0.0.255 any
access-list 100 permit tcp 192.168.10.0 0.0.0.255 any eq 23
!
class-map CLASS-SSH
 match access-group 100
!
policy-map PM-COPP
 class CLASS-SSH
  police 500000 conform-action transmit
!
Interface E0/0
 service-policy input PM-COPP
!
Interface E0/1
 service-policy input PM-COPP
```

The Control Rane Policing is not applied to SSH traffic and SSH is open to use any bandwidth available. Which configuration resolves this issue?

```
no access-list 100
access-list 100 permit tcp 10.10.10.0 0.0.0.255 any eq 22
access-list 100 permit tcp 192.168.10.0 0.0.0.255 any eq 22
!
policy-map PM-COPP
 class CLASS-SSH
 no police 500000 conform-action transmit
 police 500000 conform-action transmit exceed-action drop

interface E0/0
 no service-policy input PM-COPP
!
interface E0/1
 no service-policy input PM-COPP
!
control-plane
 service-policy input PM-COPP
```

```
no access-list 100
access-list 100 permit tcp 10.10.10.0 0.0.0.255 any eq 22
access-list 100 permit tcp 192.168.10.0 0.0.0.255 any eq 22
!
Interface E0/0
 no service-policy input PM-COPP
!
Interface E0/1
 no service-policy input PM-COPP
!
control-plane
 service-policy input PM-COPP
```

```
no access-list 100
access-list 100 permit tcp 10.10.10.0 0.0.0.255 any eq 22
access-list 100 permit tcp 192.168.10.0 0.0.0.255 any eq 22
```

A)

```
no access-list 100
access-list 100 permit tcp 10.10.10.0 0.0.0.255 any eq 22
access-list 100 permit tcp 192.168.10.0 0.0.0.255 any eq 22
!
policy-map PM-COPP
 class CLASS-SSH
 no police 500000 conform-action transmit
 police 500000 conform-action transmit exceed-action drop
```

B)

```
interface E0/0
 no service-policy input PM-COPP
!
interface E0/1
 no service-policy input PM-COPP
!
control-plane
 service-policy input PM-COPP
```

C)

```
no access-list 100
access-list 100 permit tcp 10.10.10.0 0.0.0.255 any eq 22
access-list 100 permit tcp 192.168.10.0 0.0.0.255 any eq 22
!
Interface E0/0
 no service-policy input PM-COPP
!
Interface E0/1
 no service-policy input PM-COPP
!
control-plane
 service-policy input PM-COPP
```

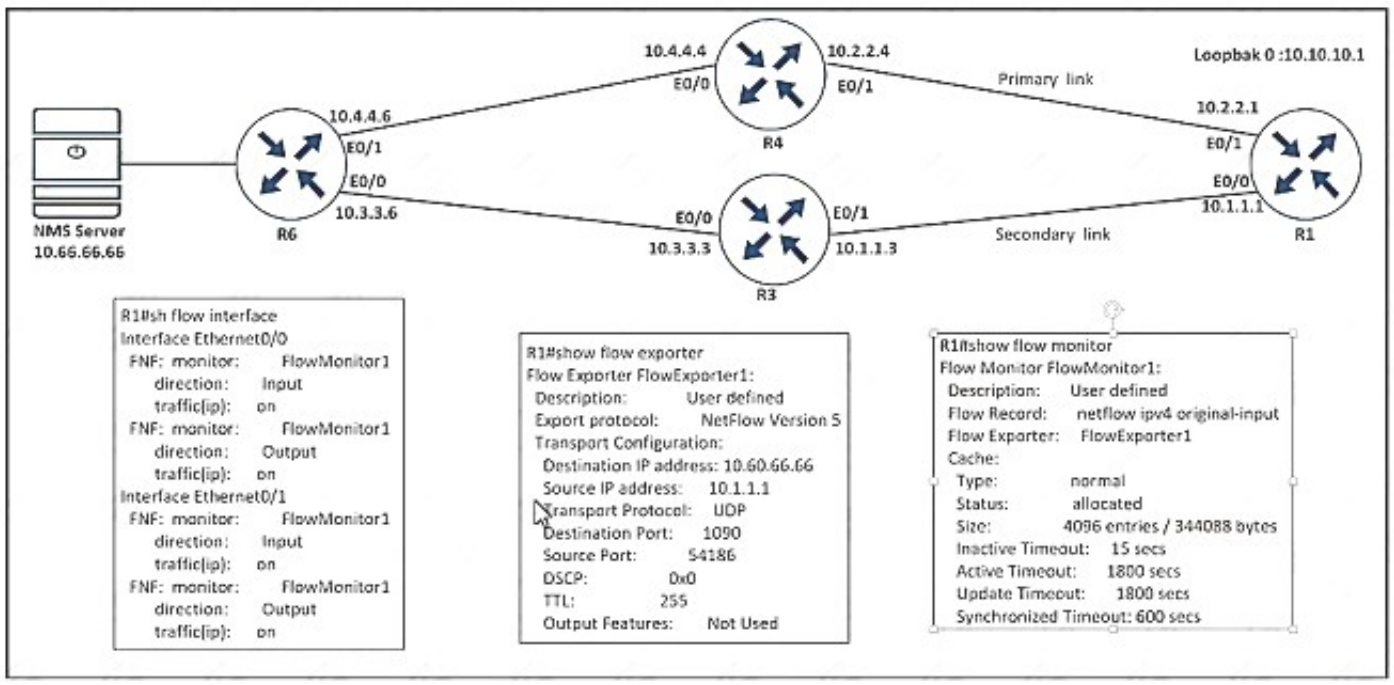
D)

```
no access-list 100
access-list 100 permit tcp 10.10.10.0 0.0.0.255 any eq 22
access-list 100 permit tcp 192.168.10.0 0.0.0.255 any eq 22
```

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

Answer: C

NEW QUESTION 142
- (Exam Topic 3)



Refer to the exhibit. An engineer configured NetFlow on R1, but the flows do not reach the NMS server from R1. Which configuration resolves this Issue?

```
R1(config)#flow monitor FlowMonitor1
R1(config-flow-monitor)#destination 10.66.66.66
```

```
R1(config)#flow exporter FlowExporter1
R1(config-flow-exporter)#destination 10.66.66.66
```

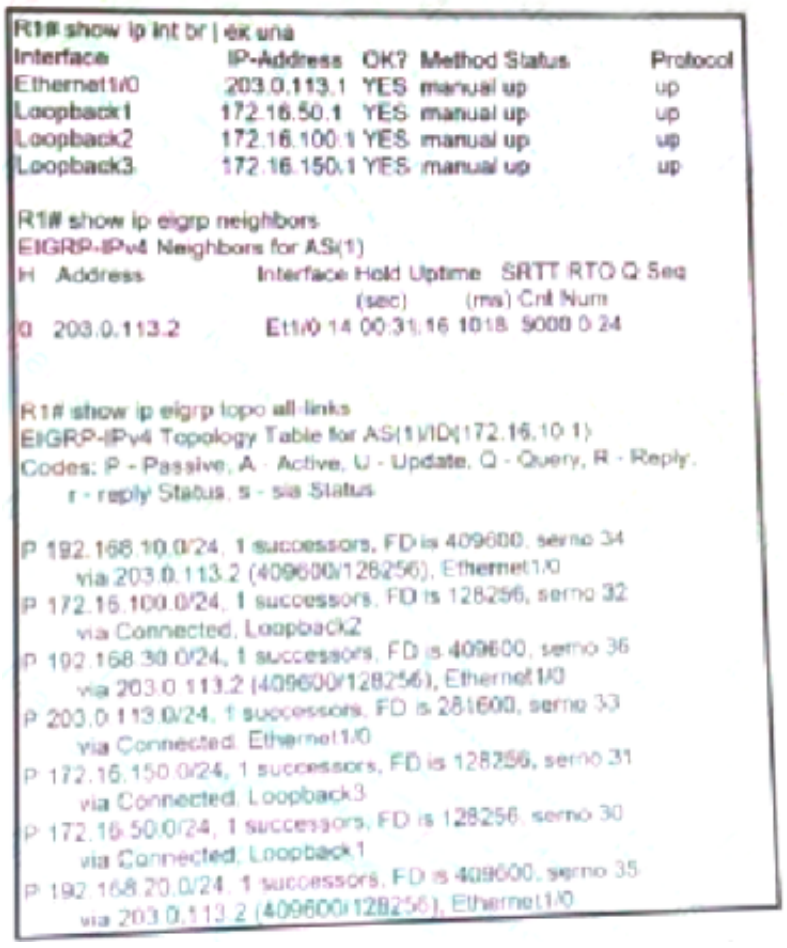
```
R1(config)#interface Ethernet0/0
R1(config-if)#ip flow monitor Flowmonitor1 input
R1(config-if)#ip flow monitor Flowmonitor1 output
```

```
R1(config)#interface Ethernet0/1
R1(config-if)#ip flow monitor Flowmonitor1 input
R1(config-if)#ip flow monitor Flowmonitor1 output
```

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

Answer: B

NEW QUESTION 146
- (Exam Topic 3)
Refer to the exhibit.

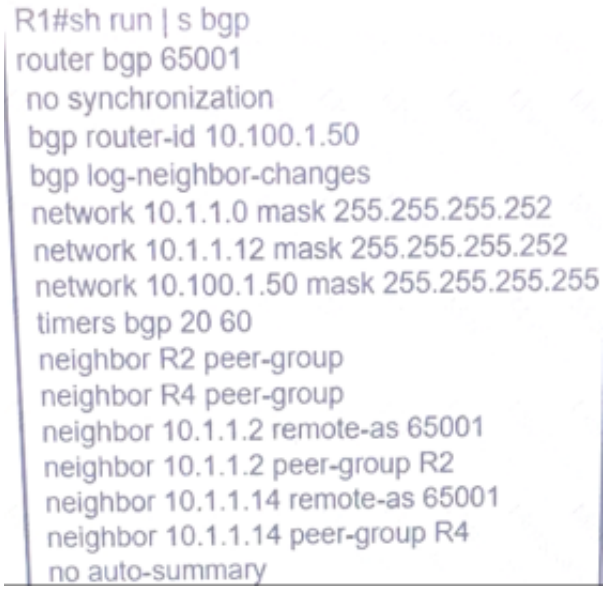


Routers R1 and R2 have established a network adjacency using EIGRP, and both routers are advertising subnets to its neighbor. After issuing the show ip EIGRP topology all-links command in R1, some prefixes are no showing R2 as a successor. Which action resolves the issue?

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 148
- (Exam Topic 3)
Refer to the exhibit.



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 150
- (Exam Topic 3)

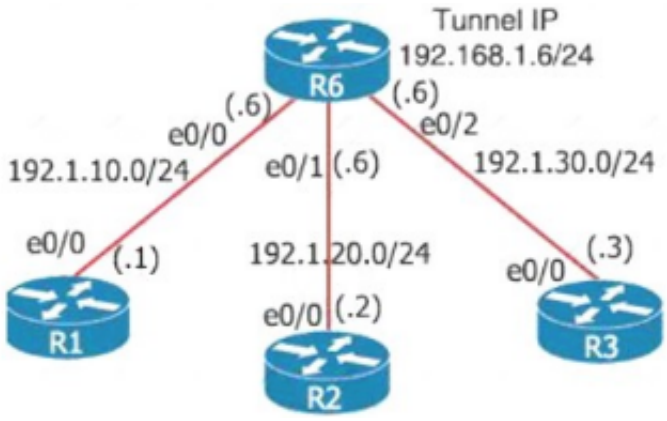
```
CPE# show snmp mib ifmib ifindex detail
Description              ifIndex  Active  Persistent  Saved  TrapStatus
-------------------------------------------------------------------------
Loopback1                8        yes     disabled    no     enabled
GigabitEthernet1         1        yes     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 153
- (Exam Topic 3)
Refer to the exhibit.



An engineer must establish multipoint GRE tunnels between hub router R6 and branch routers R1, R2, and R3. Which configuration accomplishes this task on R1?
A)

```
interface Tunnel 1
 ip address 192.168.1.1 255.255.255.0
 tunnel source e0/1
 tunnel mode gre multipoint
 ip nhrp nhs 192.168.1.6
 ip nhrp map 192.168.1.6 192.1.10.6
```

B)

```
interface Tunnel 1
 ip address 192.168.1.1 255.255.255.0
 tunnel source e0/1
 tunnel mode gre multipoint
 ip nhrp network-id 1
 ip nhrp nhs 192.168.1.6
 ip nhrp map 192.168.1.6 192.1.10.1
 ip nhrp map 192.168.1.2 192.1.20.2
 ip nhrp map 192.168.1.3 192.1.30.3
```

C)

```
interface Tunnel 1
 ip address 192.168.1.1 255.255.255.0
 tunnel source e0/0
 tunnel mode gre multipoint
 ip nhrp nhs 192.168.1.6
 ip nhrp map 192.168.1.6 192.1.10.1
 ip nhrp map 192.168.1.2 192.1.20.2
 ip nhrp map 192.168.1.3 192.1.30.3
```

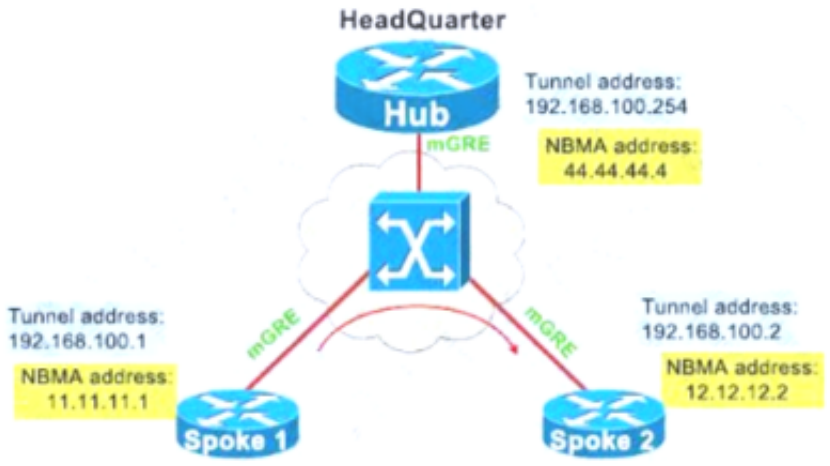
D)

```
interface Tunnel 1
 ip address 192.168.1.1 255.255.255.0
 tunnel source e0/0
 tunnel mode gre multipoint
 ip nhrp network-id 1
 ip nhrp nhs 192.168.1.6
 ip nhrp map 192.168.1.6 192.1.10.6
```

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

Answer: D

Explanation:
We have an example of how to configure DMVPN Phase II and we show the configuration here for your reference:
Diagram Description automatically generated



DMVPN Phase II – Dynamic Mapping
Text Description automatically generated

Hub	Spoke 1	Spoke 2
interface tunnel 1 ip address 192.168.100.254 255.255.255.0 tunnel source 44.44.44.4 tunnel mode gre multipoint ip nhrp network 10	interface tunnel 1 ip address 192.168.100.1 255.255.255.0 tunnel source 11.11.11.1 tunnel mode gre multipoint ip nhrp network 10 ip nhrp map 192.168.100.254 44.44.44.4 ip nhrp nhs 192.168.100.254	interface tunnel 1 ip address 192.168.100.2 255.255.255.0 tunnel source 12.12.12.2 tunnel mode gre multipoint ip nhrp network 10 ip nhrp map 192.168.100.254 44.44.44.4 ip nhrp nhs 192.168.100.254

Note: Although Phase II – Dynamic Mapping is “dynamic” but we still need to add a static entry for the hub because without that entry, the NHRP registration cannot be sent.

NEW QUESTION 158
- (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 161
- (Exam Topic 3)
Refer to the exhibit.

```
!-- ACL for CoPP Routing class-map
!
access-list 120 permit tcp any gt 1024 eq bgp log
access-list 120 permit tcp any bgp gt 1024 established
access-list 120 permit tcp any gt 1024 eq 639
access-list 120 permit tcp any eq 639 gt 1024 established
access-list 120 permit tcp any eq 646
access-list 120 permit udp any eq 646
access-list 120 permit ospf any
access-list 120 permit ospf any host 224.0.0.5
access-list 120 permit ospf any host 224.0.0.6
access-list 120 permit eigrp any
access-list 120 permit eigrp any host 224.0.0.10
access-list 120 permit udp any any eq pim-auto-rp
```

The control plane is heavily impacted after the CoPP configuration is applied to the router. Which command removal lessens the impact on the control plane?

A. access-list 120 permit udp any any eq pim-auto-rp
B. access-list 120 permit eigrp any host 224.0.0.10
C. access-list 120 permit ospf any
D. access-list 120 permit tcp any gt 1024 eq bgp log

Answer: A

NEW QUESTION 165
- (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 169
- (Exam Topic 3)
Which table is used to map the packets in an MPLS LSP that exit from the same interface, via the same next hop, and have the same queuing policies?

A. RIB
B. FEC
C. LDP
D. CEF

Answer: B

NEW QUESTION 173
- (Exam Topic 3)

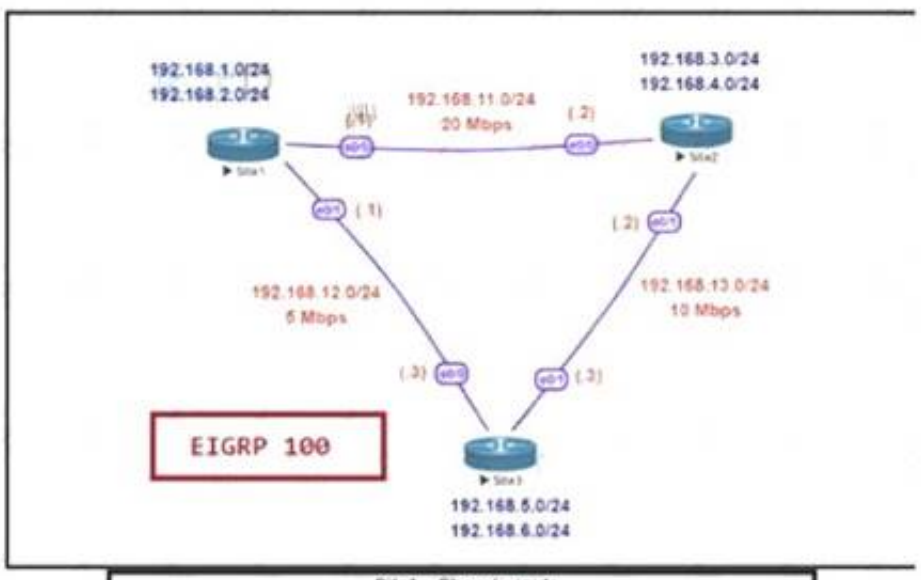
```
!
ip sla 1
 icmp-echo 192.168.2.1 source-interface GigabitEthernet0/0/1
 timeout 1000
 threshold 1000
 frequency 30
ip sla schedule 1 life forever start-time now
!
track 1 ip sla 1 reachability
```

Refer to the exhibit An engineer observes that every time the ICMP packet is lost at a polling interval, track 1 goes down, which causes unnecessary disruption and instability in the network. The engineer does not want the traffic to be rerouted if the loss of ICMP packets is negligible. If the packet loss is persistent for a longer duration, the track must go down and the traffic must be rerouted. Which action resolves the issue?

A. Change the IP SLA schedule to run only at certain intervals.
B. Increase the threshold value from 1000 to 1500.
C. Increase the timeout value from 1000 to 1500
D. Define a delay timer under track 1.

Answer: D

NEW QUESTION 174
- (Exam Topic 3)



Site1 - Show ip route

```
Gateway of last resort is not set

     192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.1.0/24 is directly connected, Loopback0
L       192.168.1.1/32 is directly connected, Loopback0
D    192.168.3.0/24 [90/281600] via 192.168.11.2, 00:00:23, Ethernet0/0
D    192.168.4.0/24 [90/281600] via 192.168.11.2, 00:00:23, Ethernet0/0
D    192.168.5.0/24 [90/665600] via 192.168.12.3, 00:00:23, Ethernet0/1
                    [90/435200] via 192.168.11.2, 00:00:23, Ethernet0/0
D    192.168.6.0/24 [90/665600] via 192.168.12.3, 00:00:23, Ethernet0/1
                    [90/435200] via 192.168.11.2, 00:00:23, Ethernet0/0
     192.168.11.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.11.0/24 is directly connected, Ethernet0/0
L       192.168.11.1/32 is directly connected, Ethernet0/0
```

```
D    192.168.13.0/24 [90/563200] via 192.168.12.3, 00:00:23, Ethernet0/1
                     [90/307200] via 192.168.11.2, 00:00:23, Ethernet0/0
```

Site1 – Show ip eigrp topology

```
P 192.168.3.0/24, 1 successors, FD is 230400
      via 192.168.11.2 (281600/128256), Ethernet0/0
      via 192.168.12.3 (691200/204800), Ethernet0/1
P 192.168.12.0/24, 1 successors, FD is 537600
      via Connected, Ethernet0/1
P 192.168.13.0/24, 2 successors, FD is 307200
      via 192.168.12.3 (563200/76800), Ethernet0/1
      via 192.168.11.2 (307200/281600), Ethernet0/0
P 192.168.1.0/24, 1 successors, FD is 128256
      via Connected, Loopback0
P 192.168.6.0/24, 2 successors, FD is 435200
      via 192.168.12.3 (665600/128256), Ethernet0/1
      via 192.168.11.2 (435200/409600), Ethernet0/0
P 192.168.4.0/24, 1 successors, FD is 230400
      via 192.168.11.2 (281600/128256), Ethernet0/0
      via 192.168.12.3 (691200/204800), Ethernet0/1
P 192.168.5.0/24, 2 successors, FD is 435200
      via 192.168.12.3 (665600/128256), Ethernet0/1
      via 192.168.11.2 (435200/409600), Ethernet0/0
P 192.168.11.0/24, 1 successors, FD is 153600
      via Connected, Ethernet0/0
```

Site1 – Show run | section router eigrp

```
router eigrp 100
 variance 2
 network 192.168.1.0
 network 192.168.2.0
 network 192.168.11.0
 network 192.168.12.0
```

Refer to the exhibit. Site1 must perform unequal cost load balancing toward the segments behind Site2 and Site3. Some of the routes are getting load balanced but others are not. Which configuration allows Site1 to load balance toward all the LAN segments of the remote routers?

Site2

```
router eigrp 100
 variance 3
```

Site2

```
router eigrp 100
 variance 2
```

Site3

```
router eigrp 100
 variance 2
```

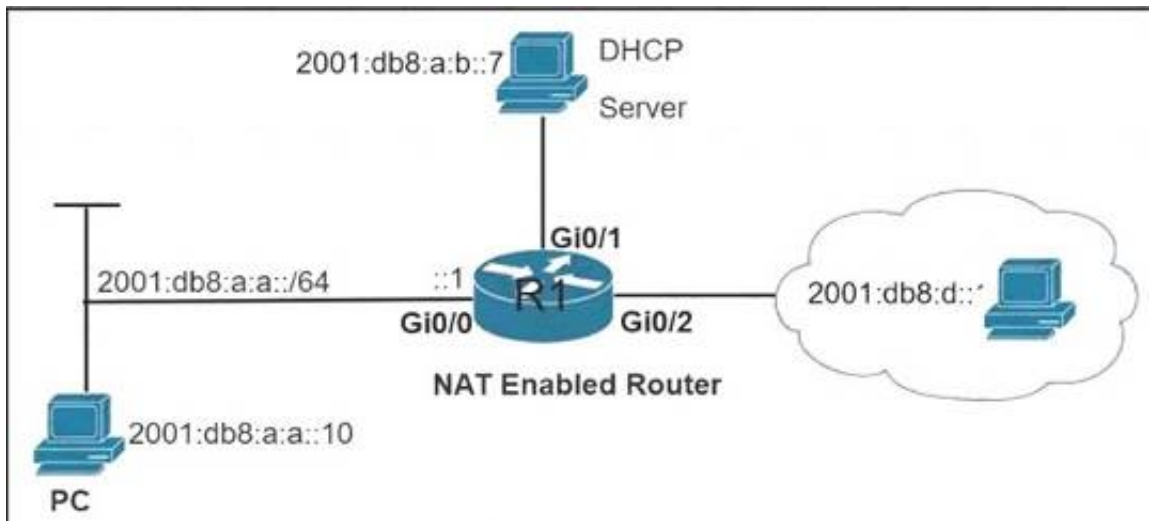
Site1

```
router eigrp 100
 variance 3
```

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

Answer: D

NEW QUESTION 179
- (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 180
- (Exam Topic 3)
Refer to the exhibit.

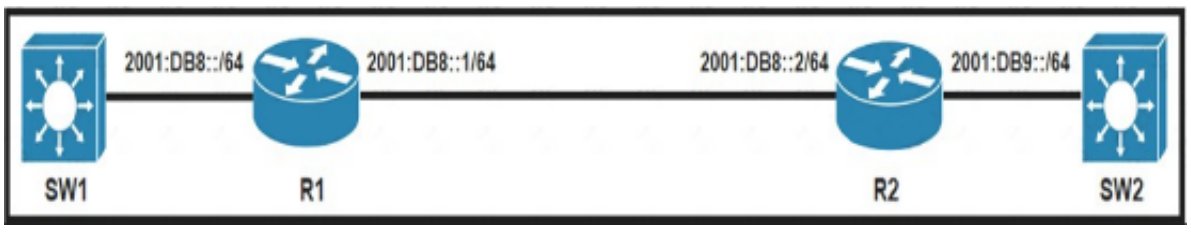
```
interface Tunnel0
 ip address 172.23.5.10 255.255.255.0
 no ip redirects
 ip mtu 1420
 ip nhrp authentication C@trts81
 ip nhrp map multicast 192.168.200.1
 ip nhrp map 172.23.5.1 192.168.200.1
 ip nhrp network-id 10
 ip nhrp holdtime 300
 ip nhrp shortcut
 ip ospf network broadcast
 ip ospf priority 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 183
- (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 184
- (Exam Topic 3)
Refer to the exhibit.

```
interface loopback0
 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
!
```

Which set of commands restore reachability to loopback0?
A)

```
interface loopback0
ip address 4.4.4.4 255.255.255.0
ip ospf network point-to-point
```

B)

```
interface loopback0
ip address 4.4.4.4 255.255.255.0
ip ospf network broadcast
```

C)

```
interface loopback0
ip address 4.4.4.4 255.255.255.0
ip ospf interface area 10
```

D)

```
interface loopback0
ip address 4.4.4.4 255.255.255.0
ip ospf interface type network
```

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

Answer: A

Explanation:
We tested this config in GNS3 (except the LAN interface) but R1 loopback0 was advertised normally on R2 and R2 could reach this loopback0.

```
R1#sh run | b interface
interface Loopback0
 ip address 4.4.4.4 255.255.255.0
!
interface FastEthernet0/0
 ip address 10.0.0.1 255.255.255.0
 duplex auto
 speed auto
!
router ospf 1
 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
!
```

```
R2#sh ip route ospf
     4.0.0.0/32 is subnetted, 1 subnets
O       4.4.4.4 [110/2] via 10.0.0.1, 00:41:03, FastEthernet0/0
R2#ping 4.4.4.4

Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 4.4.4.4, timeout is 2 seconds:
!!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 24/34/56 ms
```

Note: Although the configured loopback address is 4.4.4.4/24 but by default OSPF will advertise this route to loopback0 as 4.4.4.4/32 (most specific route to that loopback). In order to override this, we have to change the network type to point-to-point. After this OSPF will advertise the address to loopback as 4.4.4.0/24.

NEW QUESTION 187
- (Exam Topic 3)
A network administrator performed a Compact Flash Memory upgrade on a Cisco Catalyst 6509 Switch. Everything is functioning normally except SNMP, which was configured to monitor the bandwidth of key interfaces but the interface indexes are changed. Which global configuration resolves the issue?

A. snmp-server ifindex permanent
B. snmp ifindex permanent
C. snmp-server ifindex persist
D. snmp ifindex persist

Answer: C

Explanation:
The SNMP ifIndex persistence feature provides an interface index (ifIndex) value that is retained and used when the router reboots. The ifIndex value is a unique identifying number associated with a physical or logical interface. In the following example, SNMP ifIndex persistence is enabled for all interfaces:
router(config)# snmp-server ifindex persist

NEW QUESTION 191
- (Exam Topic 3)
Which 0S1 model is used to insert an MPLS label?

A. between Layer 5 and Layer 6
B. between Layer 1 and Layer 2
C. between Layer 3 and Layer 4
D. between Layer 2 and Layer 3

Answer: D

NEW QUESTION 196
- (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 197
- (Exam Topic 3)
An engineer is implementing a coordinated change with a server team. As part of the change, the engineer must configure interlace GigabitEthernet2 in an existing VRF "RED" then move the interface to an existing VRF "BLUE" when the server team is ready. The engineer configured interface GigabitEthemet2 in VRF "RED"

```
interface GigabitEthernet2
 description Migration ID: B410A60D0806G06
 vrf forwarding RED
 ip address 10.0.0.0 255.255.255.254
 negotiation auto
```

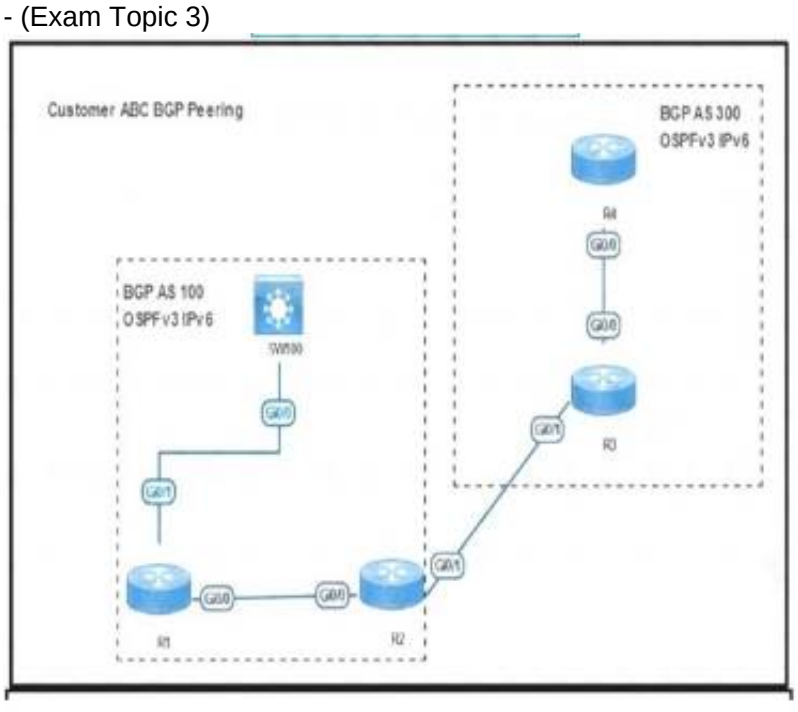
Which configuration completes the change?

A. interface GigabitEthernet2 no ip addressvrf forwarding BLUE
B. interface GigabitEthernet2no vrf forwarding RED vrf forwarding BLUEip address 10.0.0.0 255.255.255.254
C. interface GigabitEthernet2 no vrf forwarding RED vrf forwarding BLUE
D. interface GigabitEthernet2 no ip addressip address 10.0.0.0 255.255.255.254vrf forwarding BLUE

Answer: B

Explanation:
When assigning an interface to a VRF, the IP address will be removed so we have to reassign the IP address to that interface.

NEW QUESTION 199
- (Exam Topic 3)



```
SW100#sh ip bgp ipv6 uni summ
BGP router identifier 100.0.0.1, local AS number 100
BGP table version is 1, main routing table version 1

Neighbor        V      AS MsgRcvd MsgSent   TblVer  InQ OutQ Up/Down  State/PfxRcd
2001:ABC:AABB:1100:1122:1111:2222:AAA1
                4      100       6       5        1    0    0 00:00:58            0

SW100#sh ip bgp ipv6 unicast
SW100#

R1#sh ip bgp ipv6 uni
BGP table version is 4, local router ID is 1.1.1.1
     Network          Next Hop      Metric LocPrf Weight Path
 * i  2001::4/128     2001::4            0    100      0 300 i
 *>i  2002::2/128     2001::2            0    100      0 i
R1#
R1#sh ipv6 route
O   2001::2/128 [110/1]
     via FE80::5200:C3FF:FE01:E600, GigabitEthernet0/0
B   2002::2/128 [200/0]
     via 2001::2
```

Refer to the exhibit SW100 cannot receive routes from R1 Which configuration resolves the issue?

R1
router bgp 100
address-family ipv6
neighbor 2001::2 route-reflector-client
neighbor 2001:ABC:AABB:1100:1122:1111:2222:AAA2 route-reflector-client

R2
router bgp 100
address-family ipv6
neighbor 2001::2
neighbor 2001::1 next-hop-self

R1
router bgp 100
address-family ipv6
neighbor 2001::2 route-reflector-client
neighbor 2001:ABC:AABB:1100:1122:1111:2222:AAA2 route-reflector-client

R2
router bgp 100
address-family ipv6
neighbor 2001::2
neighbor 2001::1 as-override

R1
router bgp 100
address-family ipv6
no synchronization

R2
router bgp 100
address-family ipv6
no synchronization
SW100
router bgp 100
address-family ipv6
no synchronization

R1
router bgp 100
address-family ipv6
redistribute connected

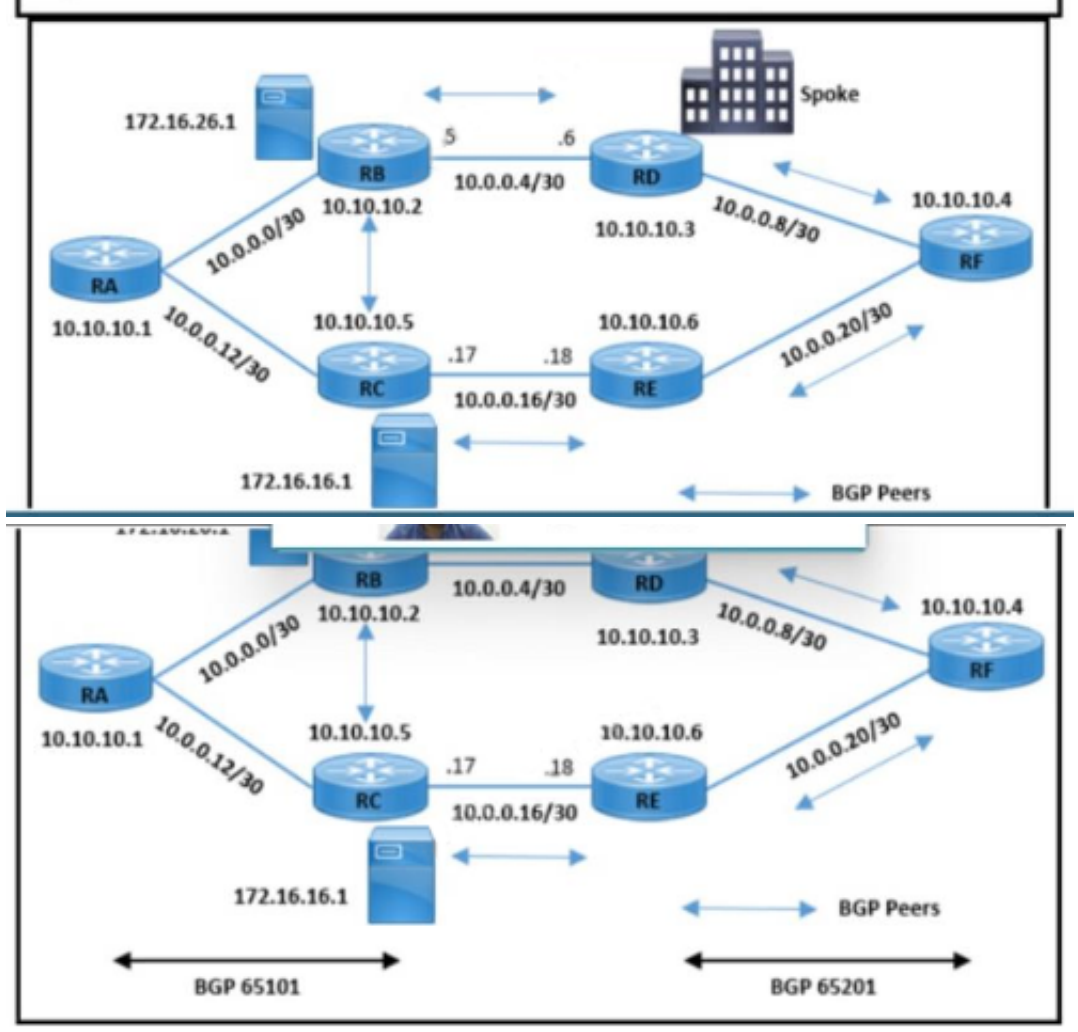
R2
router bgp 100
address-family ipv6
redistribute connected

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

Answer: A

NEW QUESTION 201
- (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  *  *  *
```



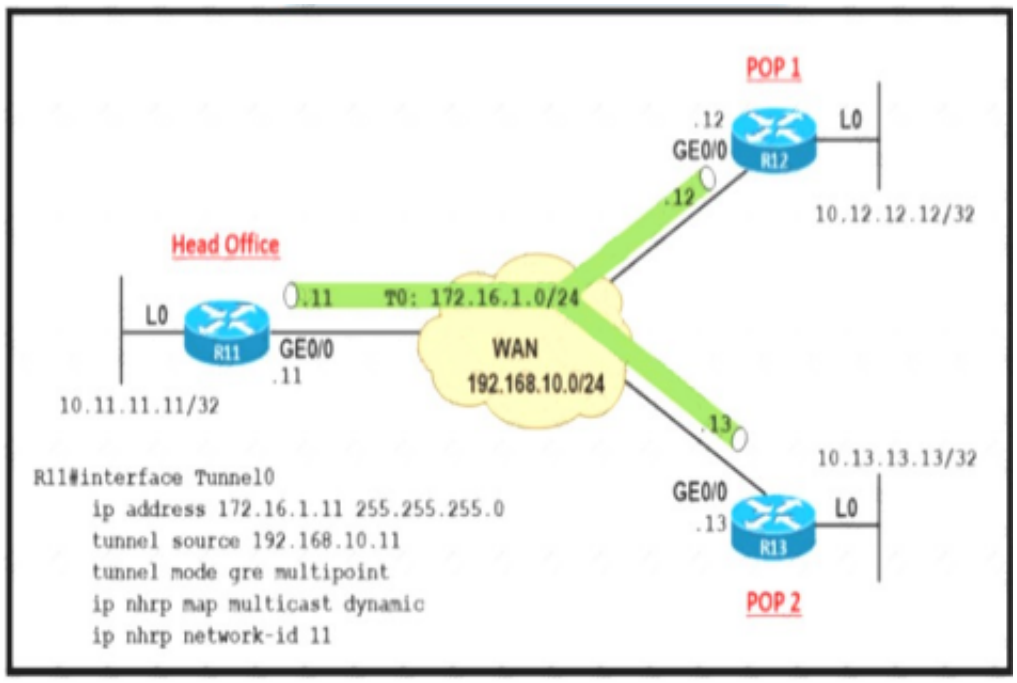
Refer to the exhibit A customer reported an issue with a fiber link failure between RC and RE Users connected through the spoke location face disconnection and packet drops with the primary email server (172.16.16.1) but have no issues with the backup email server (172.16.26.1). All the router loopback 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 203
- (Exam Topic 3)



Refer to the exhibit A company builds WAN infrastructure between the head office and POPs using DMVPN hub-and-spoke topology to provide end-to-end communication All POPs must maintain point-to-point connectivity with the head office Which configuration meets the requirement at routers R12 and R13?

○ R12#
interface Tunnel0
ip nhrp map multicast 192.168.10.11
ip nhrp map 172.16.1.11 192.168.10.11
ip nhrp network-id 12
ip nhrp nhs 172.16.1.11

R13#
interface Tunnel0
ip nhrp map multicast 192.168.10.11
ip nhrp map 172.16.1.11 192.168.10.11
ip nhrp network-id 13
ip nhrp nhs 172.16.1.11

○ R12#
interface Tunnel0
ip nhrp map multicast 172.16.1.11
ip nhrp map 172.16.1.11 192.168.10.11
ip nhrp network-id 12
ip nhrp nhs 192.168.10.11

R13#
interface Tunnel0
ip nhrp map multicast 172.16.1.11
ip nhrp map 172.16.1.11 192.168.10.11
ip nhrp network-id 13
ip nhrp nhs 192.168.10.11

○ Configure routers R12 and R13 as:

interface Tunnel0
ip nhrp map multicast 172.16.1.11
ip nhrp map 172.16.1.11 192.168.10.11
ip nhrp network-id 11
ip nhrp nhs 192.168.10.11

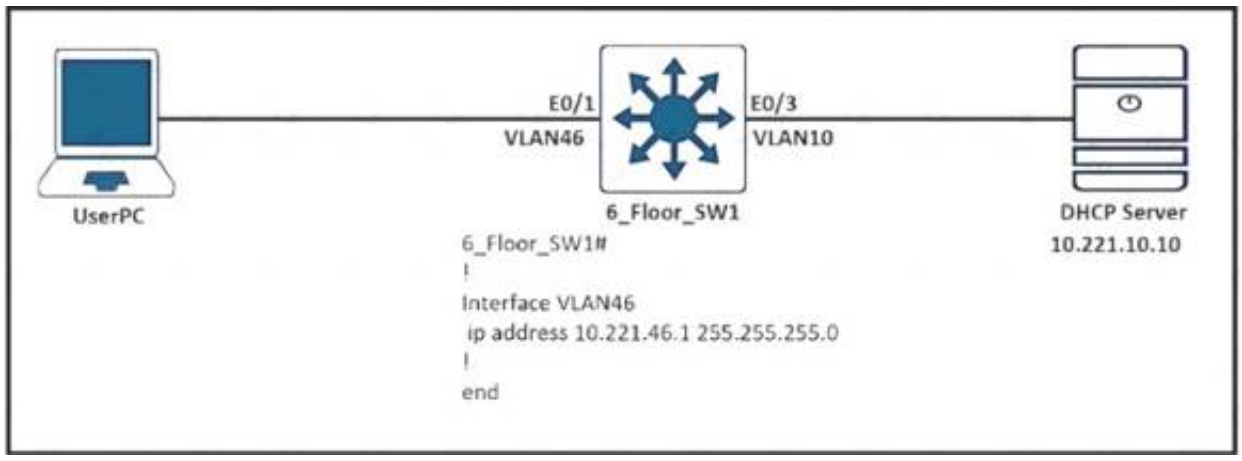
○ Configure routers R12 and R13 as:

interface Tunnel0
ip nhrp map multicast 192.168.10.11
ip nhrp map 172.16.1.11 192.168.10.11
ip nhrp network-id 11
ip nhrp nhs 172.16.1.11

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

Answer: D

NEW QUESTION 204
- (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 interlace VLAN46 allows users to receive IP from the DHCP server?

A. ip dhcp-addreos 10.221.10.10
B. ip dhcp server 10.221.10.10
C. ip helper-addrets 10.221.10.10
D. ip dhcp relay information trust-all

Answer: C

NEW QUESTION 207
- (Exam Topic 3)
Refer to the exhibit.

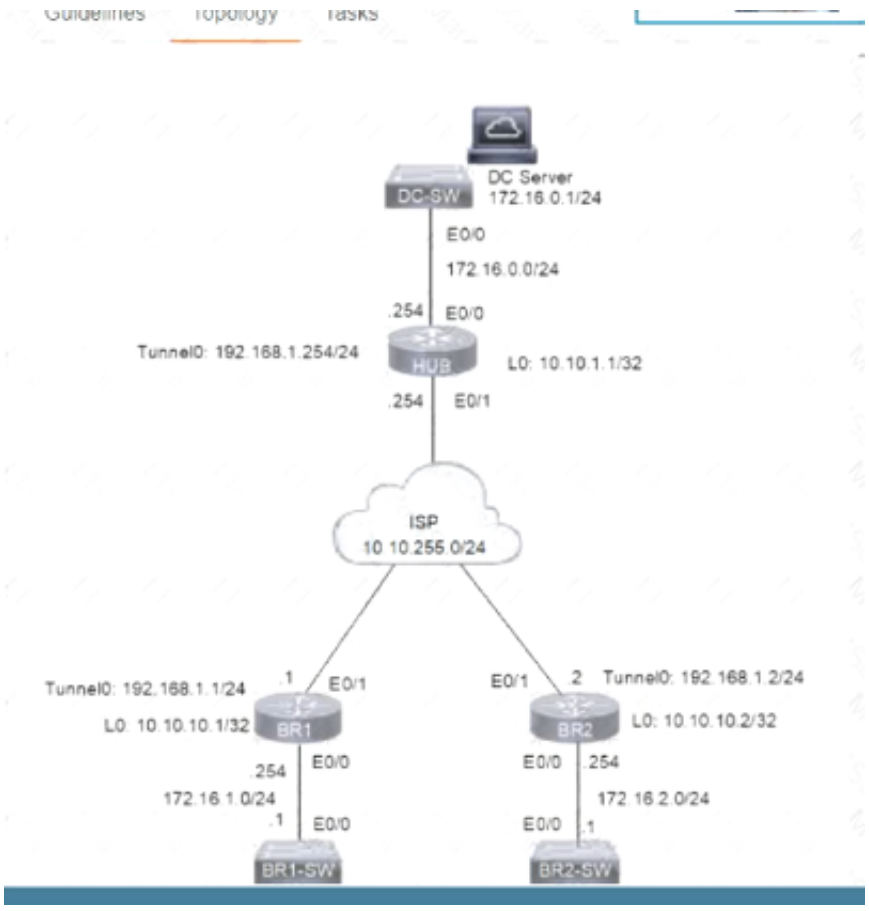
```
router ospfv3 1
router-id 10.1.1.1
address-family ipv4 unicast
passive-interface Loopback0
exit-address-family
address-family ipv6 unicast
passive-interface Loopback0
exit-address-family
interface Loopback0
ip address 10.1.1.1 255.255.255.255
ipv6 address 2001:DB8::1/64
ospfv3 10 ipv4 area 10
ospfv3 10 ipv6 area 0
interface GigabitEthernet2
ip address 10.10.10.1 255.255.255.0
ipv6 enable
ospfv3 10 ipv4 area 10
ospfv3 10 ipv6 area 0
```

An administrator must configure the router with OSPF for IPv4 and IPv6 networks under a single process. The OSPF adjacencies are not established and did not meet the requirement. Which action resolves the issue?

A. Replace OSPF process 10 on the interface with OSPF process 1, and configure an additional router ID with IPv6 address.
B. Replace OSPF process 10 on the interface with OSPF process 1, for the VPv6 addressma nd remove process route ID with IPv6 address.
C. Replace OSPF process 10 on the interface with OSPF process 1, and remove process 10 from the global configuration.
D. Replace OSPF process 10 on the interface with OSPF process 1 for the IPv4 address, and remove process 10 from the global configuration.

Answer: C

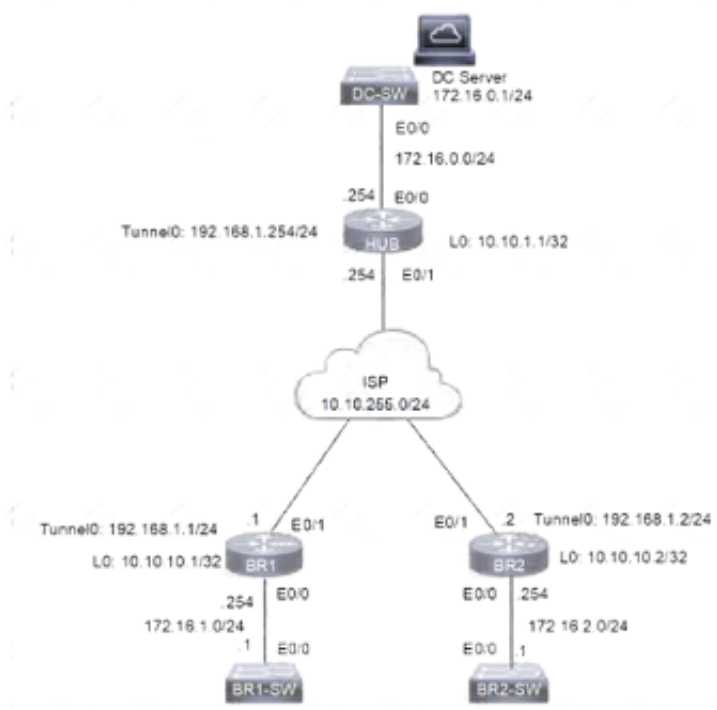
NEW QUESTION 211
- (Exam Topic 3)
A DMVPN network is preconfigured with tunnel 0 IP address 192.168.1.254 on the HUB, IP connectivity, crypto policies, profiles, and EIGRP AS 100. The NHRP password is ccnp123, and the network ID and tunnel key is EIGRP ASN Do not introduce a static route. Configure DMVPN connectivity between routers BR1 and BR2 to the HUB router using physical interface as the tunnel source to achieve these goals:



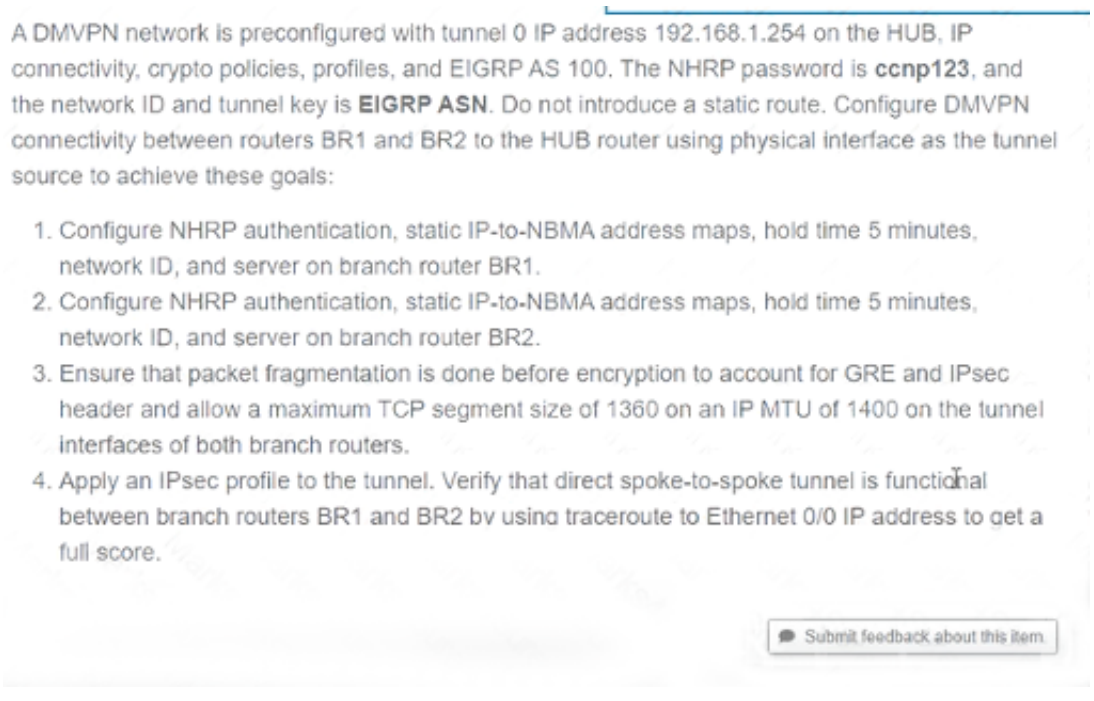
Guidelines Topology Tasks

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. Mastered
B. Not Mastered

Answer: A

Explanation:
ON BR1

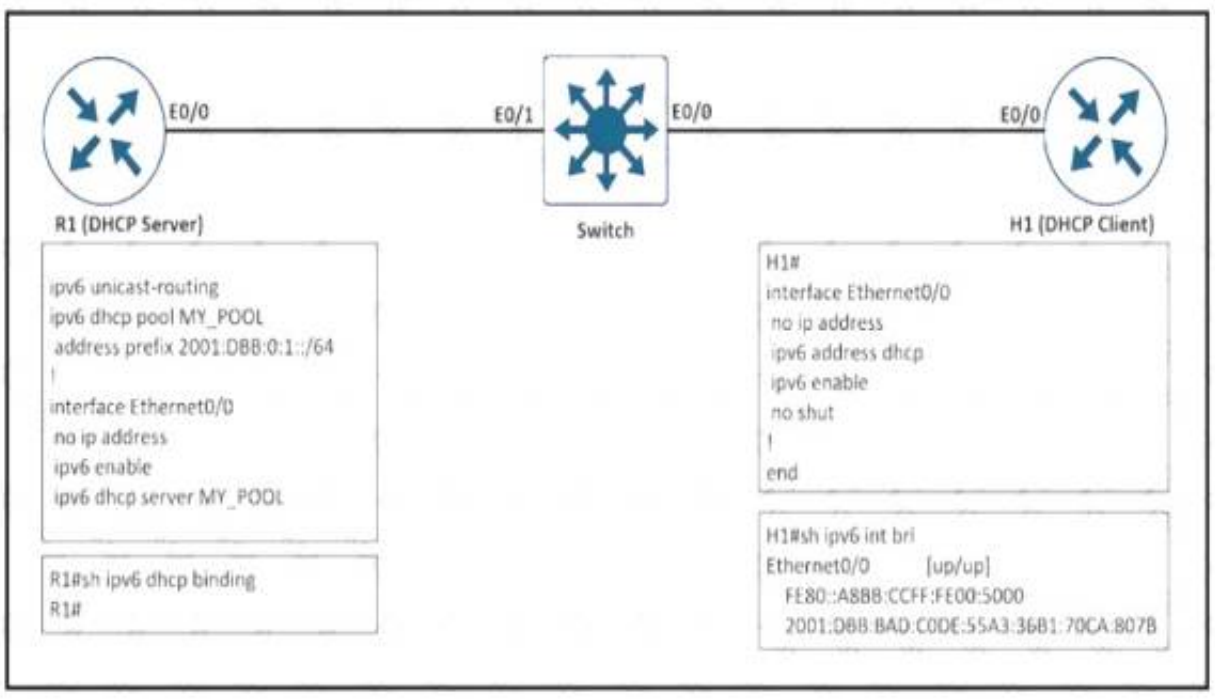
```
Current configuration : 405 bytes
!
interface Tunnel0
 ip address 192.168.1.1 255.255.255.0
 no ip redirects
 ip mtu 1400
 ip nhrp authentication ccnp123
 ip nhrp map 192.168.1.254 10.10.255.254
 ip nhrp map multicast 10.10.255.254
 ip nhrp network-id 100
 ip nhrp holdtime 5
 ip nhrp nhs 192.168.1.254
 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 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 10.10.10.2
 tunnel destination 10.10.255.254
 tunnel key 100
end
```

NEW QUESTION 214
- (Exam Topic 3)

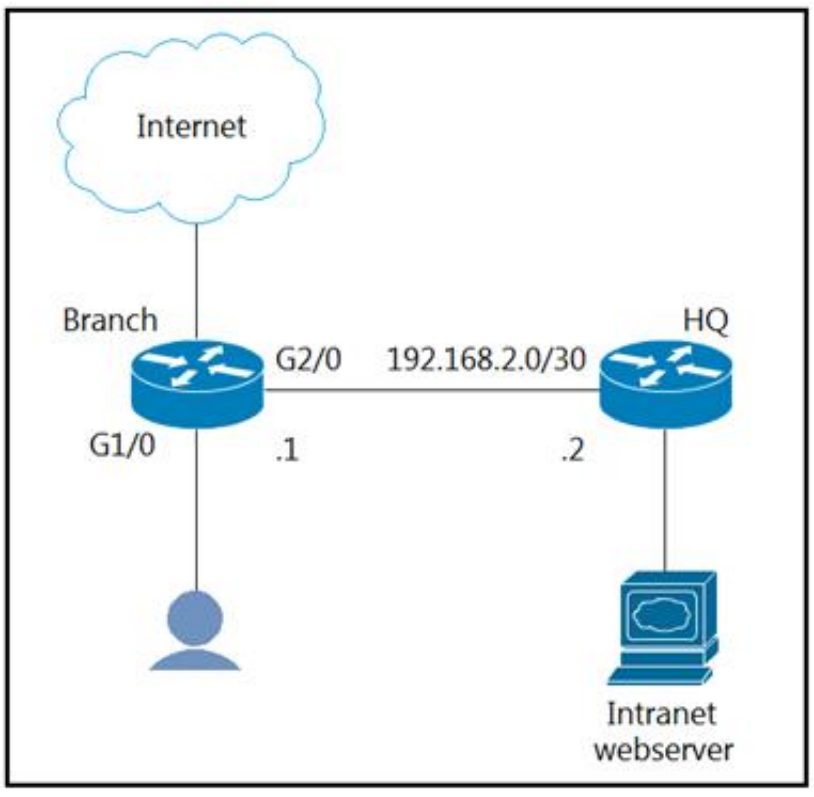


Refer to the exhibit. The client server but the show command does not show the IPv6 DHCP bindings on the server. Which action resolves the issue?

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:C0DE::/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 219
- (Exam Topic 3)
Refer to the exhibit.



The branch router is configured with a default route toward the internet and has no routes configured for the HQ site that is connected through interface G2/0. The HQ router is fully configured and does not require changes. Which configuration on the branch router makes the intranet website (TCP port 80) available to the branch office users?

A)

```
access-list 100 permit tcp any host intranet-webserver-ip eq 80

route-map pbr permit 10
 match ip address 100
 set ip next-hop 192.168.2.2

interface G2/0
 ip policy route-map pbr
```

B)

```
access-list 101 permit tcp any any eq 80
access-list 102 permit tcp any host intranet-webserver-ip

route-map pbr permit 10
 match ip address 101 102
 set ip next-hop 192.168.2.2

interface G1/0
 ip policy route-map pbr
```

C)

```
access-list 101 permit tcp any any eq 80
access-list 102 permit tcp any host intranet-webserver-ip

route-map pbr permit 10
 match ip address 101
 set ip next-hop 192.168.2.2
route-map pbr permit 20
 match ip address 102
 set ip next-hop 192.168.2.2

interface G2/0
 ip policy route-map pbr
```

D)

```
access-list 100 permit tcp host intranet-webserver-ip eq 80 any

route-map pbr permit 10
 match ip address 100
 set ip next-hop 192.168.2.2

interface G1/0
 ip policy route-map pbr
```

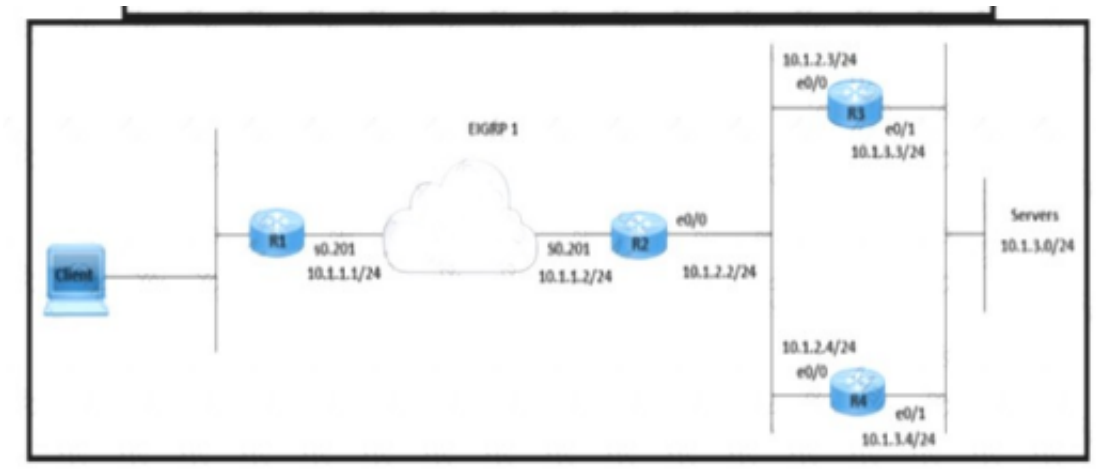
A. Option A
B. Option B
C. Option C
D. Option D

Answer: B

Explanation:
the ACL 101 matches all HTTP pakects while the ACL 102 matches TCP packets destined to Intranet webserver. These packets will be sent to HQ router.
If a match command refers to several objects in one command, either of them should match
(the logical OR algorithm is applied). For example, in the match ip address 101 102 command, a
route is permitted if it is permitted by access list 101 or access list 102.

NEW QUESTION 221
- (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 oon R3 E0/0
B. 120 on R4 E0/1
C. 120/on R3 E0/1
D. 2200 on R4 E0/1

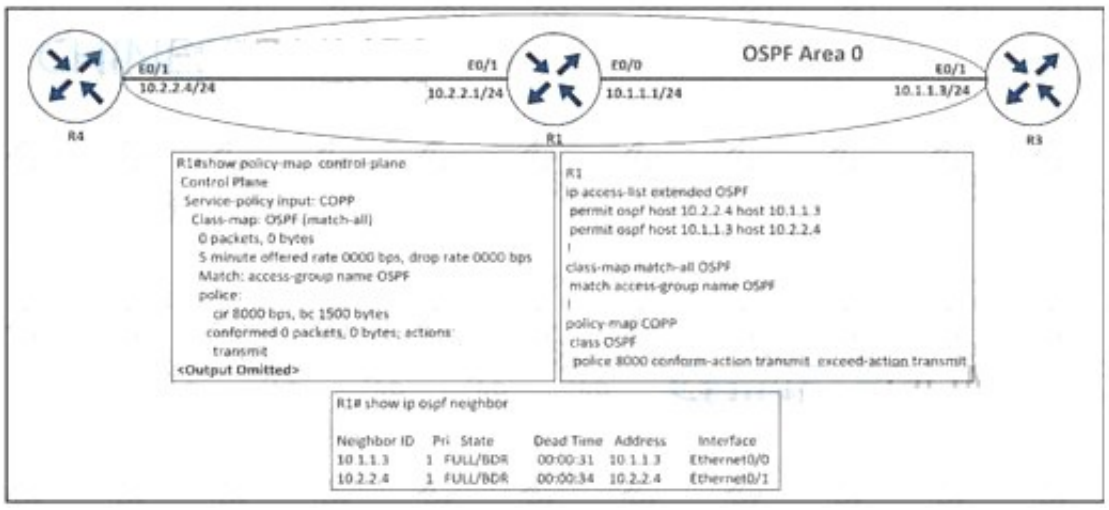
Answer: C

NEW QUESTION 224
- (Exam Topic 3)
How does LDP operate in an MPLS network?

A. When topology changes occur such as a router failure, LDP generates peer discovery messages that terminate the LDP season to propagate an LSP change.
B. When an adjacent LSR receives LDP discovery message
C. TCP two-way handshake ensures that the LDP session has unidirectional connectivity.
D. Peer routers establish the LDP session, and the LDP neighbors maintain and terminate the session by exchanging messages
E. LDP notification messages allow LERs to exchange label information to determine the next hops within a particular LSP.

Answer: D

NEW QUESTION 228
- (Exam Topic 3)
Refer to the exhibit.

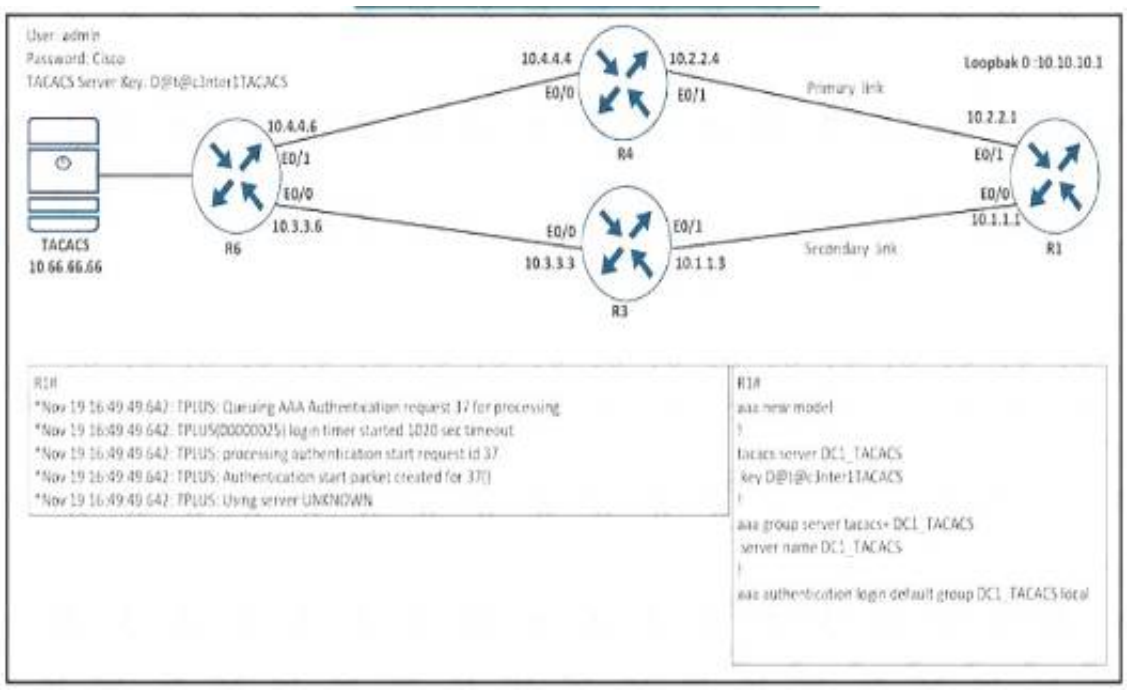


An engineer implemented CoPP but did not see OSPF traffic going through it. Which configuration resolves the issue?

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 229
- (Exam Topic 3)
Refer to the exhibit.



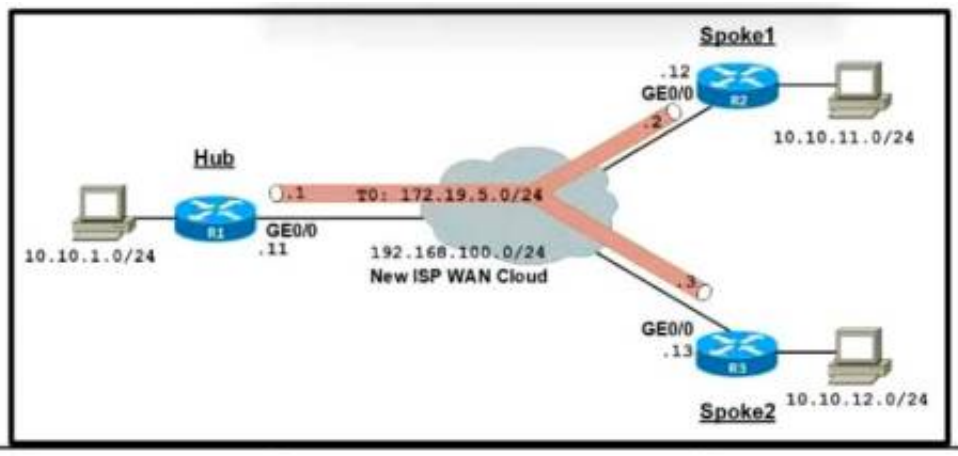
Refer to the exhibit
R1 cannot authenticate via TACACS
Which configuration resolves the issue?

- 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 233
- (Exam Topic 3)



R1
```
interface Tunnel0
   ip address 172.19.5.1 255.255.255.0
   ip nhrp authentication t8li$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 t8li$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 t8li$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 236
- (Exam Topic 3)
An engineer creates a Cisco DNA Center cluster with three nodes, but all the services are running on one host node. Which action resolves this issue?

A. Restore the link on the switch interface that is connected to a cluster link on the Cisco DNA Center
B. Click the master host node with all the services and select services to be moved to other hosts
C. Enable service distribution from the Systems 360 page.
D. Click system updates, and upgrade to the latest version of Cisco DNA Center.

Answer: C

Explanation:
To deploy Cisco DNA Center on a three-node cluster with High Availability (HA) enabled, complete the following procedure:
Step 1: Configure Cisco DNA Center on the first node in your cluster… Step 2: Configure Cisco DNA Center on the second node in your cluster… Step 3: Configure Cisco DNA Center on the third node in your cluster… Step 4: Enable high availability on your cluster:
* a. In the Cisco DNA Center GUI, click and choose System Settings. The System 360 tab is displayed by default.
* b. In the Hosts area, click Enable Service Distribution.
After you click Enable Service Distribution, Cisco DNA Center enters into maintenance mode. In this mode, Cisco DNA Center is unavailable until the redistribution of services is completed. You should take this into account when scheduling an HA deployment.
Reference: https://www.cisco.com/c/en/us/td/docs/cloud-systems-management/network-automationand- management/dna-center/1-3-3-0/ha_guide/b_cisco_dna_center_ha_guide_1_3_3_0.html
Therefore we can choose “Enable Service Distribution” to distribute services to other host nodes.

NEW QUESTION 241

- (Exam Topic 3)

```
CPE# show ip route static
<output omitted>
S*    0.0.0.0/0 is directly connected, Dialer0
S     198.51.100.0/24 [1/0] via 192.168.1.1
S     203.0.113.0/24 [1/0] via 192.168.2.1

CPE# show run | section router ospf
router ospf 1
 redistribute static subnets

CPE# show ip ospf database | begin Type-5
       Type-5 AS External Link States

Link ID         ADV Router      Age         Seq#       Checksum Tag
198.51.100.0    192.168.0.1     14          0x80000001 0x0007D0 0
203.0.113.0     192.168.0.1     14          0x80000001 0x009C5C 0
```

Refer to the exhibit. The default route is not advertised to the neighboring router. Which action resolves the issue?

A. Configure the redistribute static metric 200 subnets command under OSPF.
B. Configure OSPF on the Dialer0 interface.
C. Configure the network 0.0.0.0 255.255.255.255 area 0 command under OSPF.
D. Configure the default-information originate command under OSPF.

Answer: D

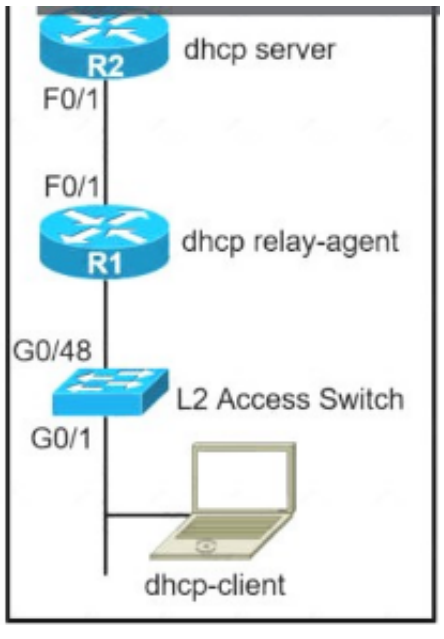
NEW QUESTION 246
- (Exam Topic 3)
How is VPN routing information distributed in an MPLS network?

A. The top level of the customer data packet directs it to the correct CE device
B. It is established using VPN IPsec peers.
C. It is controlled using of VPN target communities.
D. It is controlled through the use of RD.

Answer: C

Explanation:
The distribution of virtual private network (VPN) routing information is controlled through the use of VPN route target communities, implemented by Border Gateway Protocol (BGP) extended communities.
Reference:
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/mp_l3_vpns/configuration/15-mt/mp-l3-vpns-15-mt-book/m

NEW QUESTION 247
- (Exam Topic 2)
Refer to the exhibit.



The network administrator can see the DHCP discovery packet in R1. but R2 is not replying to the DHCP request. The R1 related interface is configured with the DHCP helper address. If the PC is directly connected to the FaO/1 interface on R2, the DHCP server assigns as IP address from the DHCP pool to the PC. Which two commands resolve this issue? (Choose two.)

A. service dhcp-relay command on R1
B. ip dhcp option 82 command on R2
C. service dhcp command on R1
D. ip dhcp relay information enable command on R1
E. ip dhcp relay information trust-all command on R2

Answer: CE

Explanation:
* 1. R1 received DHCP packet and its interface was configured with the DHCP helper address. But we are not sure if R1 forward DHCP packet to R2 or not. 2. If we connect PC directly to R2 then this problem will not appear -> DHCP Server function was configured on R2.
From these facts, the most likely problem is related to Option 82. Maybe R2 ignored DHCP request packets because it was receiving these packets with the giant field set to 0.0.0.0.
By default Cisco IOS devices reject packets with zero “giaddr” and by default Cisco Catalyst switches use “giaddr” of zero when configured for DHCP snooping!
Reference: https://blog.ine.com/2009/07/22/understanding-dhcp-option-82
If we can run the “debug ip dhcp server packet” on R2, we may see these messages:
*Feb 22 23:54:57.759: IP: s=0.0.0.0 (FastEthernet0/1), d=255.255.255.255, len 34 4, input feature, MCI Check(64), rtype 0, forus FALSE, sendself FALSE, mtu 0, fw dchk FALSE *Feb 22 23:54:57.759: IP: s=0.0.0.0 (FastEthernet0/1), d=255.255.255.255, len 34 4, rcvd 2 *Feb 22 23:54:57.759: IP: s=0.0.0.0 (FastEthernet0/1), d=255.255.255.255, len 34 4, stop process pak for forus packet
*Feb 22 23:54:57.759: DHCPD: inconsistent relay information. *Feb 22 23:54:57.759: DHCPD: relay information option exists, but giaddr is zero
We are receiving the DHCP packet from R1, source 0.0.0.0, and destination 255.255.255.255 broadcast, but if you notice from the debug output, R2, our DHCP Server, is complaining that the relay information is inconsistent. Option 82, Information Option, is contained in the packet but the GIADDR is zero. The GIADDR stands for Gateway IP Address, which is the IP Address of the relaying agent. The Option 82, Information Option, would then contain the receiving port and hostname of the Relaying Agent by default.
R2 sees the Option 82 information, signalling that the DHCP packet might have been relayed, BUT there is no relaying IP Address. This is the behavior of DHCP Snooping when enabling it on a switch, and since the switchport does not contain an IP Address, since it’s Layer 2, no GIADDR will be added.
Instead, just the Option 82 Information is added and this is the problem we have, but there are options:
* 1. You could trust all on R2 the DHCP Server, which will cause the server to not be so suspicious: – ip dhcp relay information trust-all – ip dhcp relay information trusted 2. Disable the addition of Option 82 information on SW: – no ip dhcp snooping information option 3. Trust the port that is receiving the DHCP Discover: – ip dhcp snooping trust
Any of these options will fix our predicament. Reference: https://evilttl.com/wiki/DHCP-Snooping
But in the answer choices, we only have 1 correct answer which is the command “ip dhcp relay information
trust-all”. We checked if we need any “service dhcp…” command on both IOS version 12.4 and 15.1:
Therefore we only have the “service dhcp” command, we don’t have any “service dhcp-relay” command available. But the description of the “service dhcp” command says that it enables both DHCP server and relay agent so this is the best answer left.

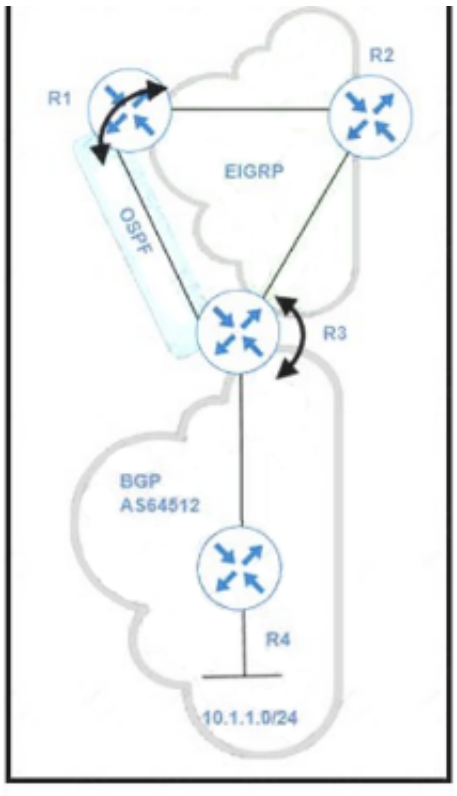
NEW QUESTION 250
- (Exam Topic 2)
What are two functions of MPLS Layer 3 VPNs? (Choose two.)

A. LDP and BGP can be used for Pseudowire signaling.
B. It is used for transparent point-to-multipoint connectivity between Ethernet links/sites.
C. BGP is used for signaling customer VPNv4 routes between PE nodes.
D. A packet with node segment ID is forwarded along with shortest path to destination.
E. Customer traffic is encapsulated in a VPN label when it is forwarded in MPLS network.

Answer: CE

Explanation:
MPLS Layer-3 VPNs provide IP connectivity among CE sites* MPLS VPNs enable full-mesh, hub-andspoke, and hybrid IP connectivity* CE sites connect to the MPLS network via IP peering across PE-CE links* MPLS Layer-3 VPNs are implemented via VRFs on PE edge nodes* VRFs providing customer routing and forwarding segmentation* BGP used for signaling customer VPN (VPNv4) routes between PE nodes* To ensure traffic separation, customer traffic is encapsulated in an additional VPN label when forwarded in MPLS network* Key applications are layer-3 business VPN services, enterprise network segmentation, and segmented layer-3 Data Center access
Reference: https://www.ciscolive.com/c/dam/r/ciscolive/us/docs/2018/pdf/BRKMPL-1100.pdf

NEW QUESTION 251
- (Exam Topic 2)
Refer to the exhibit.



BGP and EIGRP are mutually redistributed on R3, and EIGRP and OSPF are mutually redistributed on R1. Users report packet loss and interruption of service to applications hosted on the 10.1.1.0724 prefix. An engineer tested the link from R3 to R4 with no packet loss present but has noticed frequent routing changes on R3 when running the debug ip route command. Which action stabilizes the service?

A. Tag the 10.1.1.0/24 prefix and deny the prefix from being redistributed into OSPF on R1.
B. Repeat the test from R4 using ICMP ping on the local 10.1.1.0/24 prefix, and fix any Layer 2 errors on the host or switch side of the subne
C. ^

D. Place an OSPF distribute-list outbound on R3 to block the 10.1.10/24 prefix from being advertised back to R3.
E. Reduce frequent OSPF SPF calculations on R3 that cause a high CPU and packet loss on traffic traversing R3.

Answer: A

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 will reinstall the main path from R4. This is the cause of intermittent connectivity.
We can solve this problem by denying the 10.1.1.0/24 prefix from being redistributed into OSPF on R1. So R3 will not learn this prefix from R1.
Or another solution is to place an OSPF distribute-list inbound on R3 to block the 10.1.1.0/24 prefix from being advertised back to R3.

NEW QUESTION 256
- (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 258
- (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 259
- (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 264
- (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 267
- (Exam Topic 2)

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

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

A. ipv6 access-list inbound permit tcp any any syn deny ipv6 any any log!interface gi0/0ipv6 traffic-filter inbound out
B. ipv6 access-list inbound permit tcp any any syn deny ipv6 any any log!interface gi0/0ipv6 traffic-filter inbound in
C. ipv6 access-list inbound permit tcp any any established deny ipv6 any any log!interface gi0/0ipv6 traffic-filter inbound in
D. ipv6 access-list inbound permit tcp any any established deny ipv6 any any log!interface gi0/0ipv6 traffic-filter inbound out

Answer: C

NEW QUESTION 271
- (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
 Ospfv3 4 area 0 ipv4
 No shut
!
Interface Loopback0
 Ipv6 enable
 Ipv4 172.16.1.1 255.255.255.0
 Ospfv3 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 ofthe 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 havetwo processes per interface, but only one process per address family (AF).

NEW QUESTION 275
- (Exam Topic 2)
Which feature drops packets if the source address is not found in the snooping table?

A. IPv6 Source Guard

B. IPv6 Destination Guard
C. IPv6 Prefix Guard
D. Binding Table Recovery

Answer: A

Explanation:
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6_fhsec/configuration/xe-3s/ip6f-xe-3s-book/ip6-snoopin

NEW QUESTION 280
- (Exam Topic 2)

Filtered

```
00:00:46: %LINK-3-UPDOWN: Interface Port-channel1, changed state to up
00:00:47: %LINK-3-UPDOWN: Interface GigabitEthernet0/1, changed state to up
00:00:47: %LINK-3-UPDOWN: Interface GigabitEthernet0/2, changed state to up
```

Desired

```
00:00:46: %LINK-3-UPDOWN: Interface Port-channel1, changed state to up
00:00:47: %LINK-3-UPDOWN: Interface GigabitEthernet0/1, changed state to up
00:00:47: %LINK-3-UPDOWN: Interface GigabitEthernet0/2, changed state to up
00:00:48: %LINEPROTO-5-UPDOWN: Line protocol on Interface Vlan1, changed state to down
00:00:48: %LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed
state to down 2 *Mar  1 18:46:11: %SYS-5-CONFIG_I: Configured from console by vty2
```

Refer to the exhibits. An engineer filtered messages based on severity to minimize log messages. After applying the filter, the engineer noticed that it filtered required messages as well. Which action must the engineer take to resolve the issue?

A. Configure syslog level 2.
B. Configure syslog level 3.
C. Configure syslog level 4.
D. Configure syslog level 5.

Answer: D

NEW QUESTION 284
- (Exam Topic 2)
Refer to the exhibit.

```
Router#show ip eigrp interfaces
EIGRP-IPv4 Interfaces for AS(1)
                    Xmit Queue   PeerQ        Mean   Pacing Time   Multicast    F
Interface           Peers  Un/Reliable  Un/Reliable  SRTT  Un/Reliable  Flow T
Lo0                 0      0/0          0/0          0     0/0          0       0
Fa0/0               1      0/0          0/0          7     0/2          50      0

Router#show running-config | section eigrp
router eigrp 1
 network 172.16.0.0 0.0.0.255
 network 192.168.2.2 0.0.0.0
 network 192.168.12.2 0.0.0.0

Router#show running-config interface Fa0/3
Building configuration...


Current configuration : 93 bytes
!
interface FastEthernet0/3
 ip vrf forwarding CLIENT1
 ip address 172.16.0.1 255.255.255.0
```

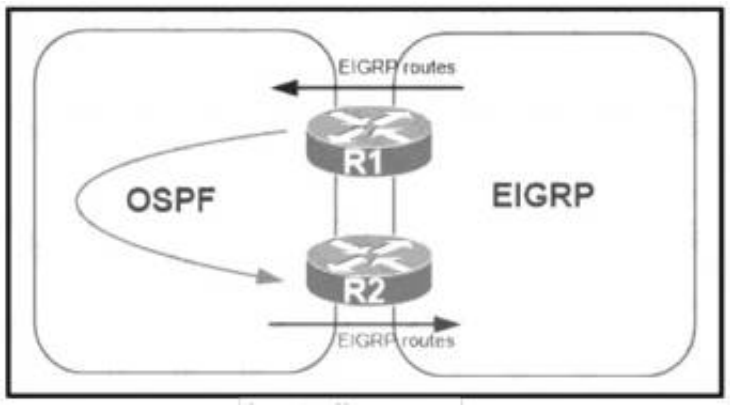
While troubleshooting an EIGRP neighbor adjacency problem, the network engineer notices that the interface connected to the neighboring router is not participating in the EIGRP process. Which action resolves the issues?

A. Configure the network command to network 172.16.0.1 0.0.0.0
B. Configure the network command under EIGRP address family vrf CLIENT1
C. Configure EIGRP metrics on interface FastEthernet0/3
D. Configure the network command under EIGRP address family ipv4

Answer: B

Explanation:
router eigrp 1
!
address-family ipv4 vrf CLIENT1 network 172.16.0.0 0.0.0.255
no auto-summary autonomous-system 1 exit-address-family

NEW QUESTION 289
- (Exam Topic 2)
Refer to the exhibit.



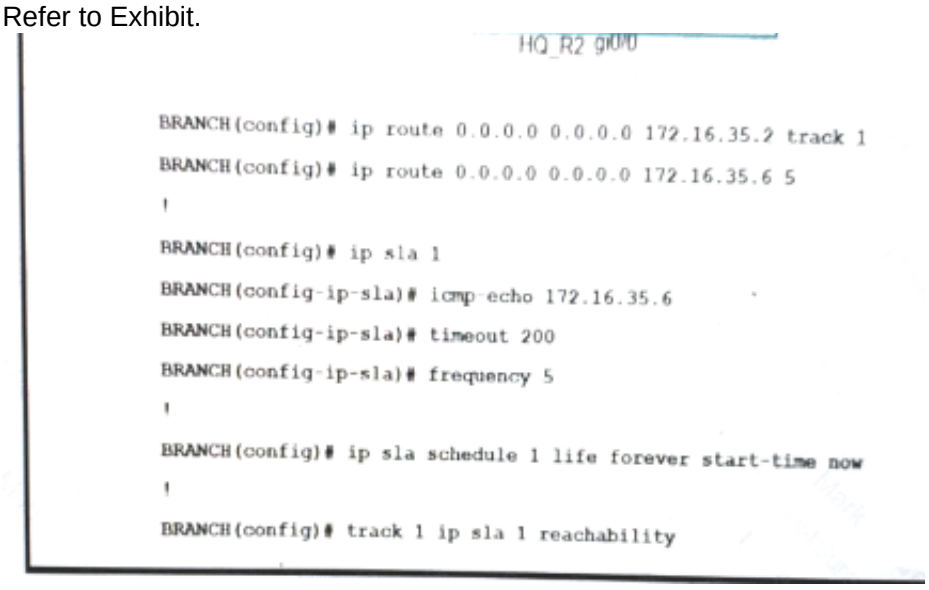
A network administrator configured mutual redistribution on R1 and R2 routers, which caused instability in the network. Which action resolves the issue?

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

Answer: C

Explanation:
https://www.cisco.com/c/en/us/support/docs/ip/enhanced-interior-gateway-routing-protocol-eigrp/8606-redist.ht

NEW QUESTION 291
- (Exam Topic 2)
Refer to Exhibit.



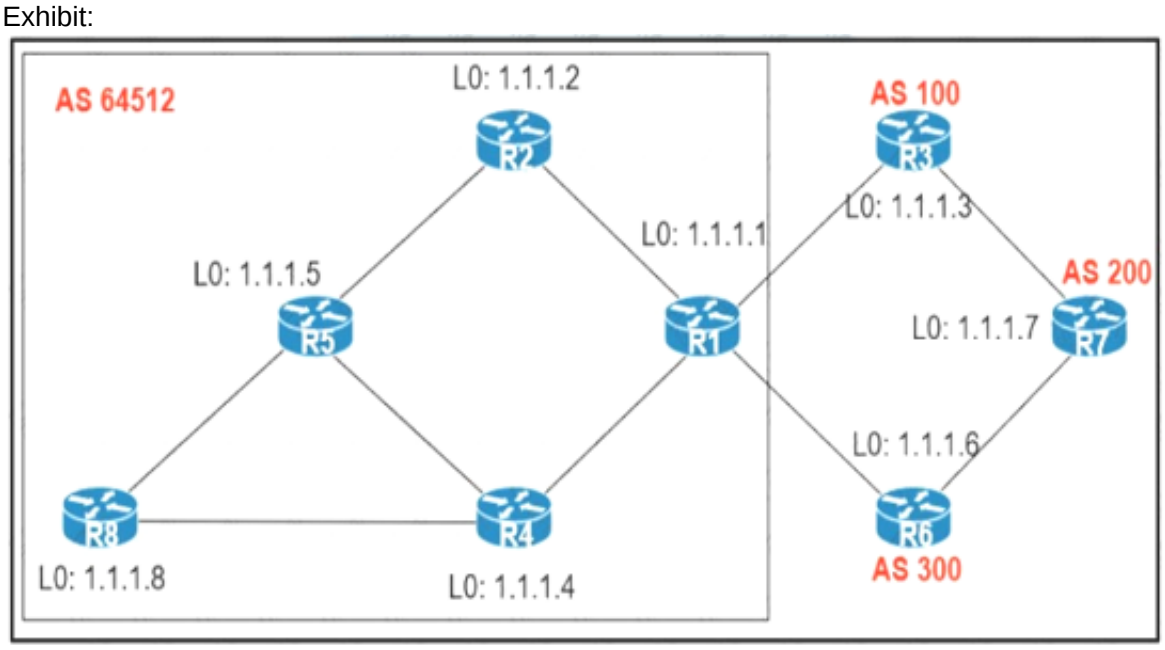
Traffic from the branch network should route through HQ R1 unless the path is unavailable. An engineer tests this functionality by shutting down interface on the BRANCH router toward HQ_R1 router but 192.168.20.0/24 is no longer reachable from the branch router. Which set of configurations resolves the 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 293
- (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 297
- (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 298
- (Exam Topic 2)

```
OSPF: Send DBD to 10.100.1.2 on GigabitEthernet0/1 seq 0x9E6 opt
0x52 flag 0x7
   len 32
OSPF: Retransmitting DBD to 10.100.1.2 on GigabitEthernet0/1
[10]
OSPF: Send DBD to 10.100.1.2 on GigabitEthernet0/1 seq 0x9E6 opt
0x52 flag 0x7
   len 32
OSPF: Retransmitting DBD to 10.100.1.2 on GigabitEthernet0/1
[11]
%OSPF-5-ADJCHG: Process 1, Nbr 10.100.1.2 on GigabitEthernet0/1
from EXSTART to
   DOWN, Neighbor Down: Too many retransmissions
```

Refer to the exhibit. The OSPF neighbor relationship is not coming up What must be configured to restore OSPF neighbor adjacency?

A. OSPF on the remote router
B. matching hello timers
C. use router ID
D. matching MTU values

Answer: D

NEW QUESTION 301
- (Exam Topic 2)
An engineer configured access list NON-CISCO in a policy to influence routes

```
route-map PBR, deny, sequence 5
  Match clauses:
    ip address (access-list): NON-CISCO
  Set clauses:
  Policy routing matches: 0 packets, 0 bytes
route-map PBR, permit, sequence 10
  Match clauses:
  Set clauses:
    ip next-hop 192.168.1.5
  Policy routing matches: 388213827 packets, 222009685077 bytes
```

What are the two effects of this route map configuration? (Choose two.)

A. Packets are not evaluated by sequence 10.
B. Packets are evaluated by sequence 10.
C. Packets are forwarded to the default gateway.
D. Packets are forwarded using normal route lookup.
E. Packets are dropped by the access list.

Answer: BC

Explanation:

https://www.cisco.com/c/en/us/support/docs/ip/ip-routed-protocols/47121-pbr-cmds-ce.html

NEW QUESTION 304
- (Exam Topic 2)
Refer to the exhibit.

```
NY
router ospf 1
 network 192.168.12.0 0.0.0.255 area 0
 network 172.16.2.0 0.0.0.255 area 0
!
interface E 0/0
 ip ospf authentication message-digest
 ip ospf message-digest-key 1 md5 Cisco123
```

The neighbor relationship is not coming up Which two configurations bring the adjacency up? (Choose two)

A. NYrouter ospf 1area 0 authentication message-digest
B. LAinterface E 0/0ip ospf message-digest-key 1 md5 Cisco123
C. NYinterface E 0/0no ip ospf message-digest-key 1 md5 Cisco123 ip ospf authentication-key Cisco123
D. LAinterface E 0/0ip ospf authentication-key Cisco123
E. LArouter ospf 1area 0 authentication message-digest

Answer: BE

Explanation:
The configuration on NY router is good for OSPF authentication. So we must enable OSPF authentication on LA router with the following commands:
router ospf 1
area 0 authentication message-digest interface E0/0
ip ospf message-digest-key 1 md5 Cisco123

NEW QUESTION 306
- (Exam Topic 2)
Refer to the exhibit.

```
router# show running-config
Building configuration
!
<output omitted -----!>
!
hostname R1
!
ip domain-name cisco.com
!
crypto key generate rsa modulus 2048
!
username admin privilege 15 secret cisco123
!
access-list 1 permit 10.1.1.0 0.0.0.255
access-list 1 deny any log
!
line vty 0 15
access-class 1 in
login local
!
<output omitted -----!>
!
end
```

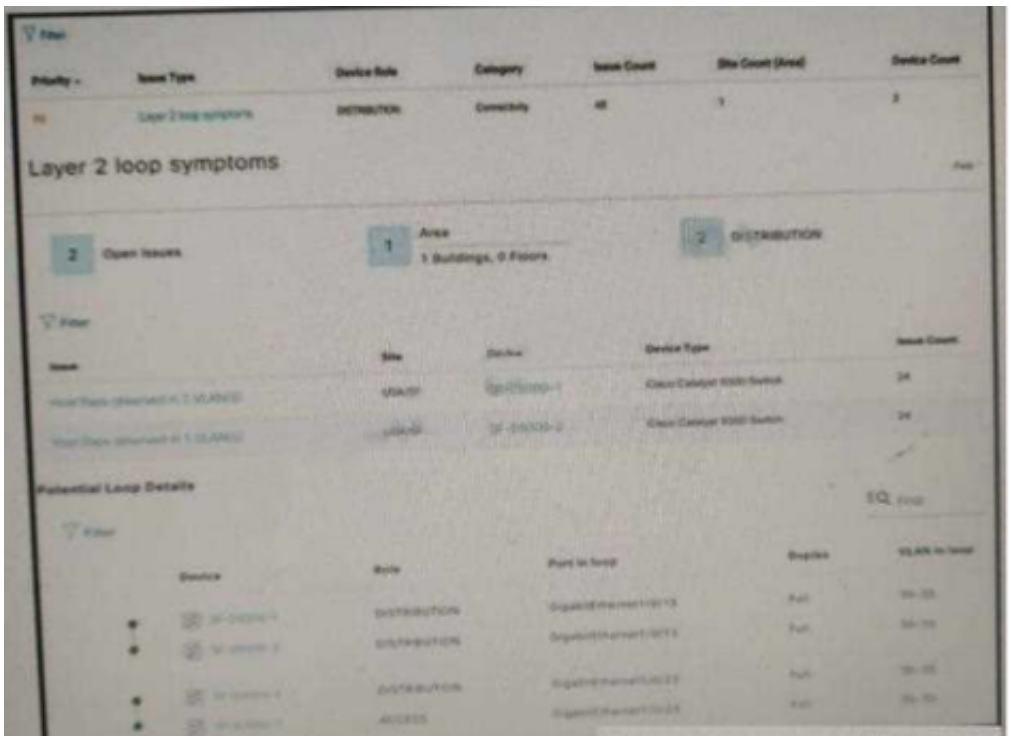
A user cannot SSH to the router. What action must be taken to resolve this issue?

A. Configure transport input ssh
B. Configure transport output ssh
C. Configure ip ssh version 2
D. Configure ip ssh source-interface loopback0

Answer: A

Explanation:
https://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst2960x/software/15-0_2_EX/security/configuration_

NEW QUESTION 310
- (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
```

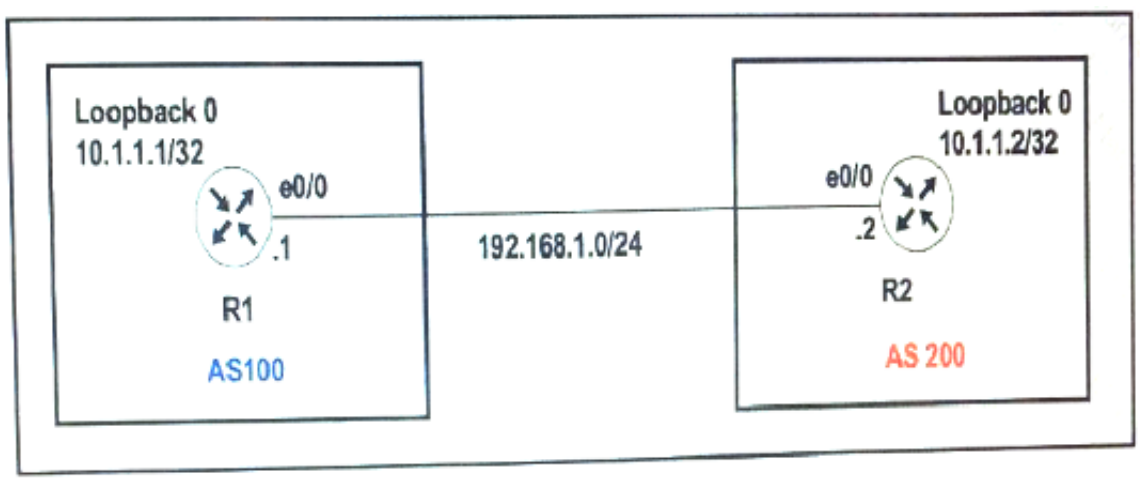
An engineer identifier a Layer 2 loop using DNAC. Which command fixes the problem in the SF-D9300-1 switch?

A. no spanning-tree uplinkfast
B. spanning-tree loopguard default
C. spanning-tree backbonesfast
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 315
- (Exam Topic 2)
Refer to the exhibit.



The R1 and R2 configurations are:

R1

```
router bgp 100
 neighbor 10.1.1.2 remote-as 200
```

R2

```
router bgp 200
 neighbor 10.1.1.1 remote-as 100
```

The neighbor is not coming up. Which two sets of configurations bring the neighbors up? (Choose two.)

A. R2ip route 10.1.1.1 255.255.255.255 192.168.1.1router bgp 200neighbor 10.1.1.1 tti-security hops 1neighbor 10.1.1.1 update-source loopback 0
B. R2ip route 10.1.1.1 255.255.255.255 192.168.1.1router bgp 200neighbor 10.1.1.1 disable-connected-checkneighbor 10.1.1.1 update-source loopback 0
C. R2ip route 10.1.1.2 255.255.255.255 192.168.1.2router bgp 100neighbor 10.1.1.2 ttl-security hops 1 neighbor 10.1.1.2 update-source loopback 0
D. R1ip route 10.1.1.2 255.255.255.255 192.168.1.2router bgp 100neighbor 10.1.1.1 ttl-security hops 1neighbor 10.1.1.2 update-source loopback 0
E. R1ip route 10.1.1.2 255.255.255.255 192.168.1.2router bgp 100neighbor 10.1.1.2 disable-connected-check neighbor 10.1.1.2 update-source Loopback0

Answer: BE

Explanation:

The **neighbor disable-connected-check** command is used to disable the connection verification process for eBGP peering sessions that are reachable by a single hop but are configured on a loopback interface or otherwise configured with a non-directly connected IP address.

Disable-connected-check enables a directly connected eBGP neighbor to peer using a loopback address without adjusting the default TTL of 1. In disable connected check the router does not decrease the TTL of an IP packet that is destined to itself so it only counts or considers as one hop between the two loopbacks of the routers.

NEW QUESTION 318
- (Exam Topic 2)
Exhibit:

```
11:27:07.532: AAA/BIND(00000055): Bind i/
11:27:07.532: AAA/AUTHEN/LOGIN (00000055): Pick method list 'default'
11:27:07.532: TPLUS: Queuing AAA Authentication request 85 for processing
11:27:07.532: TPLUS (00000055) login timer started 1020 sec timeout
11:27:07.532: TPLUS: processing authentication start request id 85
11:27:07.532: TPLUS: Authentication start packet created for 85()
11:27:07.532: TPLUS: Using server 10.106.60.182
11:27:07.532: TPLUS (00000055)/0/NB_WAIT/225FE2DC: Started 5 sec timeout
11:27:07.532: TPLUS (00000055)/0/NB_WAIT: socket event 2
11:27:07.532: TPLUS (00000055)/0/NB_WAIT: wrote entire 38 bytes request
11:27:07.532: TPLUS (00000055)/0/READ: socket event 1
11:27:07.532: TPLUS (00000055)/0/READ: Would block while reading
11:27:07.532: TPLUS (00000055)/0/READ: socket event 1
11:27:07.532: TPLUS (00000055)/0/READ: read entire 12 header bytes (expect 6 bytes data)
13:27:07.532: TPLUS (00000055)/0/READ: socket event 1
11:27:07.532: TPLUS (00000055)/0/READ: read entire 18 bytes response
11:27:07.532: TPLUS (00000055)/0/225FE2DC: Processing the reply packet
11:27:07.532: TPLUS: received bad AUTHEN packet: length = 6, expected 43974
11:27:07.532: TPLUS: invalid AUTHEN packet (check keys).
```

Which action resolves the authentication problem?

A. Configure the user name on the TACACS+ server
B. Configure the UDP port 1812 to be allowed on the TACACS+ server
C. Configure the TCP port 49 to be reachable by the router
D. Configure the same password between the TACACS+ server and router.

Answer: D

Explanation:

From the last line of the output, we notice that the result was “Invalid AUTHEN packet”. Therefore something went wrong with the username or password.
Reference:
https://www.cisco.com/c/en/us/support/docs/security-vpn/terminal-access-controller-access-control-system-taca

NEW QUESTION 319
- (Exam Topic 2)
In which two ways does the IPv6 First-Hop Security Binding Table operate? (Choose two.)

A. by IPv6 routing protocols to securely build neighborships without the need of authentication
B. by the recovery mechanism to recover the binding table in the event of a device reboot
C. by IPv6 HSRP to make sure neighbors are authenticated before being used as gateways
D. by various IPv6 guard features to validate the data link layer address
E. by storing hashed keys for IPsec tunnels for the built-in IPsec features

Answer: BD

Explanation:
Overview of the IPv6 First-Hop Security Binding Table
A database table of IPv6 neighbors connected to the device is created from information sources such as NDP snooping. This database, or binding table, is used by variousIPv6 guard features to validate the link-layer address (LLA), the IPv4 or IPv6 address, and the prefix binding of the neighbors to prevent spoofing and redirect attacks.
IPv6 First-Hop Security Binding Table Recovery MechanismThe IPv6 first-hop security binding table recovery mechanism enables the binding table to recover in the event of a device reboot.
Reference:
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6_fhsec/configuration/15-s/ip6-fhs-bind-table.html

NEW QUESTION 320
- (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 324
- (Exam Topic 1)
Which protocol is used in a DMVPN network to map physical IP addresses to logical IP addresses?

A. BGP
B. LLDP
C. EIGRP
D. NHRP

Answer: D

NEW QUESTION 327
- (Exam Topic 1)
Exhibit:

```
policy-map COPP-7600
 class COPP-CRITICAL-7600
  police cir 2000000 bc 62500
  conform-action transmit
  exceed-action transmit
  !
 class class-default
  police cir 200000 bc 6250
  conform-action transmit
  exceed-action drop
!
class-map match-all COPP-CRITICAL-7600
  match access-group name COPP-CRITICAL-7600
!
ip access-list extended COPP-CRITICAL-7600
  permit ip any any eq http
  permit ip any any eq https
```

BGP is flapping after the Copp policy is applied. What are the two solutions to fix the issue? (Choose two)

A. Configure BGP in the COPP-CRITICAL-7600 ACL
B. Configure a higher value for CIR under the default class to allow more packets during peak traffic
C. Configure a higher value for CIR under the class COPP-CRITICAL-7600
D. Configure a three-color policer instead of two-color policer under class COPP-CRITICAL- 7600
E. Configure IP CEF to CoPP policy and BGP to work

Answer: AB

Explanation:
The policy-map COPP-7600 only rate-limit HTTP & HTTPS traffic (based on the ACL conditions) so any BGP packets will be processed in the class “class-default”, which drops
exceeded BGP packets. Therefore we have two ways to solve this problem:

+ Add BGP to the ACL with the statement “permit tcp any any eq bgp”
+ Configure higher value for CIR in default class as 2Mbps is too low for web traffic (http & https)

NEW QUESTION 332
- (Exam Topic 1)
A network engineer is investigating a flapping (up/down) interface issue on a core switch that is synchronized to an NTP server. Log output currently does not show the time of the flap. Which command allows the logging on the switch to show the time of the flap according to the clock on the device?

A. service timestamps log uptime
B. clock summer-time mst recurring 2 Sunday mar 2:00 1 Sunday nov 2:00
C. service timestamps log datetime localtime show-timezone
D. clock calendar-valid

Answer: C

Explanation:
By default, Catalyst switches add a simple uptime timestamp to logging messages. This is a cumulative counter that shows the hours, minutes, and seconds since the switch has been booted up

NEW QUESTION 336
- (Exam Topic 1)
Refer to the exhibit.

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

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

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

Answer: A

NEW QUESTION 341
- (Exam Topic 1)
Which statement about IPv6 RA Guard is true?

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

Answer: A

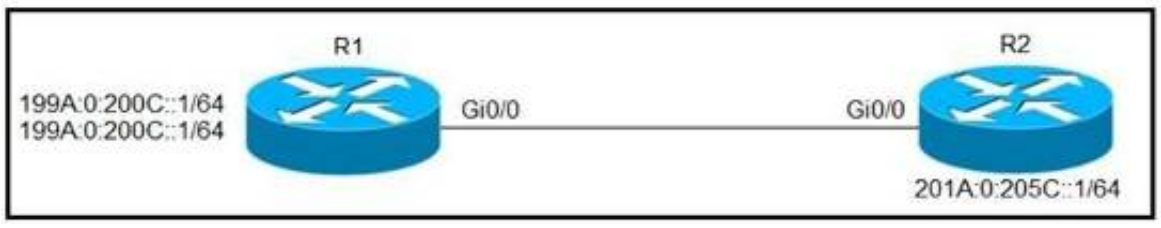
Explanation:
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6_fhsec/configuration/xe-3s/ip6f-xe-3s-book/ip6-ra-guard The IPv6 RA Guard feature does not offer protection in environments where IPv6 traffic is tunneled.
Reference:
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6_fhsec/configuration/xe-16/ip6f-xe-16-book/ip6-ra-guar

NEW QUESTION 345
- (Exam Topic 1)
An engineer is trying to copy an IOS file from one router to another router by using TFTP. Which two actions are needed to allow the file to copy? (Choose two.)

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

Answer: AB

NEW QUESTION 347
- (Exam Topic 1)
Refer to the exhibit.



Which configuration denies Telnet traffic to router 2 from 198A:0:200C::1/64?

A)
```
ipv6 access-list Deny_Telnet sequence 10 deny tcp host 198A:0:200C::1/64 host
201A:0:205C::1/64 eq telnet
!
int Gi0/0
  ipv6 traffic-filter Deny_Telnet in
!
```

B)
```
ipv6 access-list Deny_Telnet sequence 10 deny tcp host 198A:0:200C::1/64 host
201A:0:205C::1/64 eq telnet
!
int Gi0/0
  ipv6 access-map Deny_Telnet in
!
```

C)
```
ipv6 access-list Deny_Telnet sequence 10 deny tcp host 198A:0:200C::1/64 host
201A:0:205C::1/64
!
int Gi0/0
  ipv6 access-map Deny_Telnet in
!
```

D)
```
ipv6 access-list Deny_Telnet sequence 10 deny tcp host 198A:0:200C::1/64 host
201A:0:205C::1/64
!
int Gi0/0
  ipv6 traffic-filter Deny_Telnet in
!
```

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

Answer: A

NEW QUESTION 349
- (Exam Topic 1)
What is a prerequisite for configuring BFD?

A. Jumbo frame support must be configured on the router that is using BFD.
B. All routers in the path between two BFD endpoints must have BFD enabled.
C. Cisco Express Forwarding must be enabled on all participating BFD endpoints.
D. To use BFD with BGP, the timers 3 9 command must first be configured in the BGP routing process.

Answer: C

Explanation:
Reference: https://www.cisco.com/c/en/us/td/docs/ios/12_0s/feature/guide/fs_bfd.html#wp1043332

NEW QUESTION 352
- (Exam Topic 1)
Refer to the exhibit.

```
R1(config)# ip route 0.0.0.0 0.0.0.0 1.1.1.1
R1(config)# ip route 0.0.0.0 0.0.0.0 2.2.2.2 10
R1(config)# ip sla 1
R1(config)# icmp-echo 1.1.1.1 source-interface FastEthernet0/0
R1(config)# ip sla schedule 1 life forever start-time now

R1(config)# track 1 ip sla 1 reachability
```

An IP SLA is configured to use the backup default route when the primary is down, but it is not working as desired. Which command fixes the issue?

A. R1(config)# ip route 0.0.0.0.0.0.0.2.2.2.2 10 track 1
B. R1(config)# ip route 0.0.0.0.0.0.0.2.2.2.2
C. R1(config)#ip sla track 1
D. R1(config)# ip route 0.0.0.0.0.0.0.1.1.1.1 track 1

Answer: D

Explanation:
Reference:
Note: By default Static Router AD value-1 hence ip route 0.0.0.0. 0.0.0.0. 1.1.1.1 track 1 means AD-1 which must be less than of back up route AD.
Define the backup route to use when the tracked object is unavailable. !--- The administrative distance of the backup route must be greater than !--- the administrative distance of the tracked route.!--- If the primary gateway is unreachable, that route is removed!--- and the backup route is installed in the routing table!--- instead of the tracked route.
https://www.cisco.com/c/en/us/support/docs/ip/ip-routing/200785-ISP-Failover-with-default-routes-using-I.html
https://www.cisco.com/c/en/us/support/docs/security/asa-5500-x-series-next-generation-firewalls/118962-config

NEW QUESTION 355
- (Exam Topic 1)
Drag and Drop the IPv6 First-Hop Security features from the left onto the definitions on the right.

A. Mastered
B. Not Mastered

Answer: A

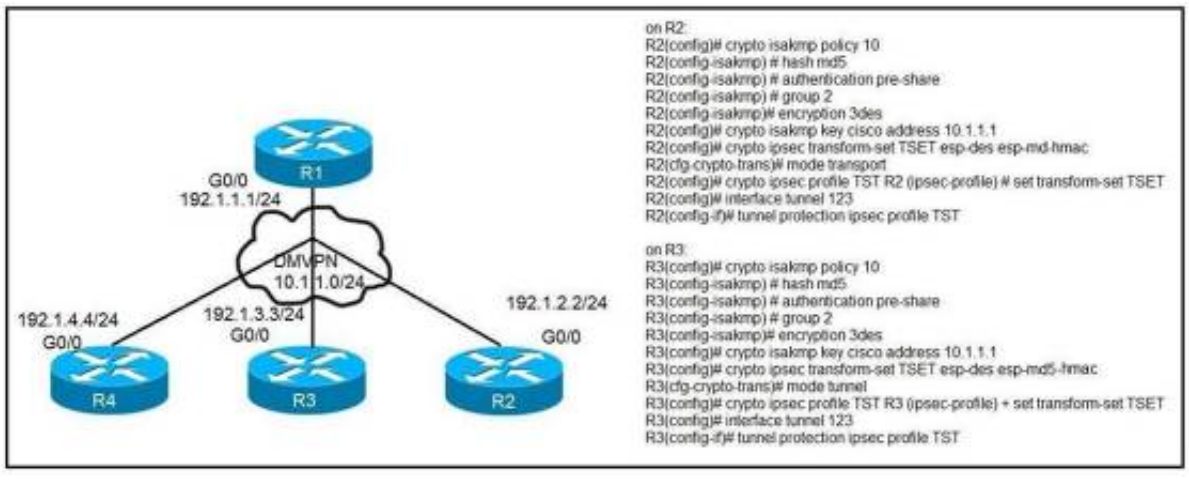
Explanation:
Graphical user interface, chart Description automatically generated

NEW QUESTION 359
- (Exam Topic 1)
Which is statement about IPv6 inspection is true?

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

Answer: D

NEW QUESTION 364
- (Exam Topic 1)
Refer to the exhibit.



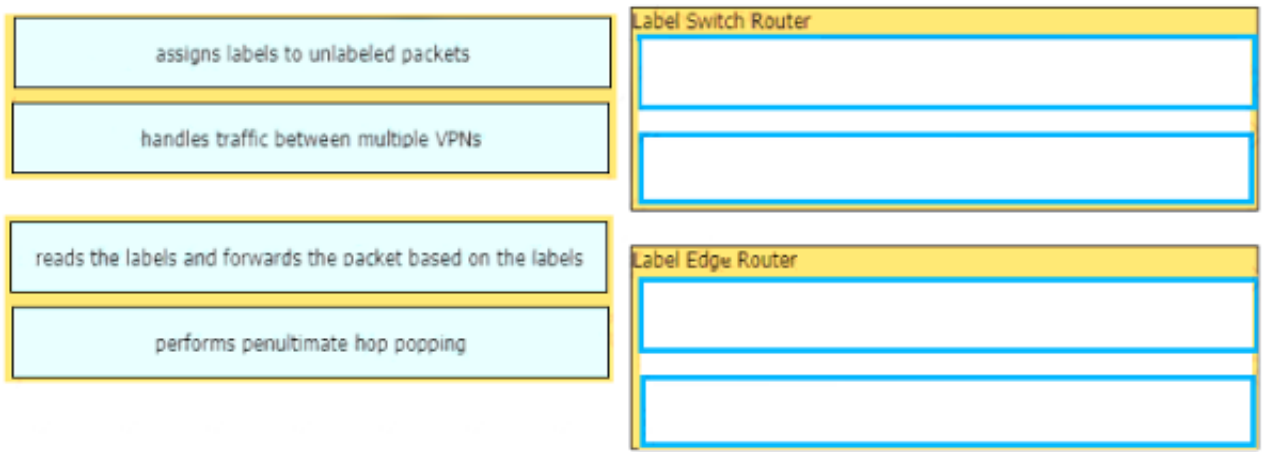
After applying IPsec, the engineer observed that the DMVPN tunnel went down, and both spoke-to-spoke and hub were not establishing. Which two actions resolve the issue? (Choose two.)

A. Configure the crypto isakmp key cisco address 192.1.1.1 on R2 and R3
B. Configure the crypto isakmp key cisco address 0.0.0.0 on R2 and R3.
C. Change the mode from mode tunnel to mode transport on R3
D. Change the mode from mode transport to mode tunnel on R2.
E. Remove the crypto isakmp key cisco address 10.1.1.1 on R2 and R3

Answer: AD

Explanation:
*When using DMVPN with IPSec, it is unnecessary to use tunnel mode. Because DMVPN uses GRE which means that a new IP header is already added by GRE. The GRE encapsulation happens on the tunnel interface before the encryption process takes place.

NEW QUESTION 365
- (Exam Topic 1)
Drag and drop the operations from the left onto the locations where the operations are performed on the right.

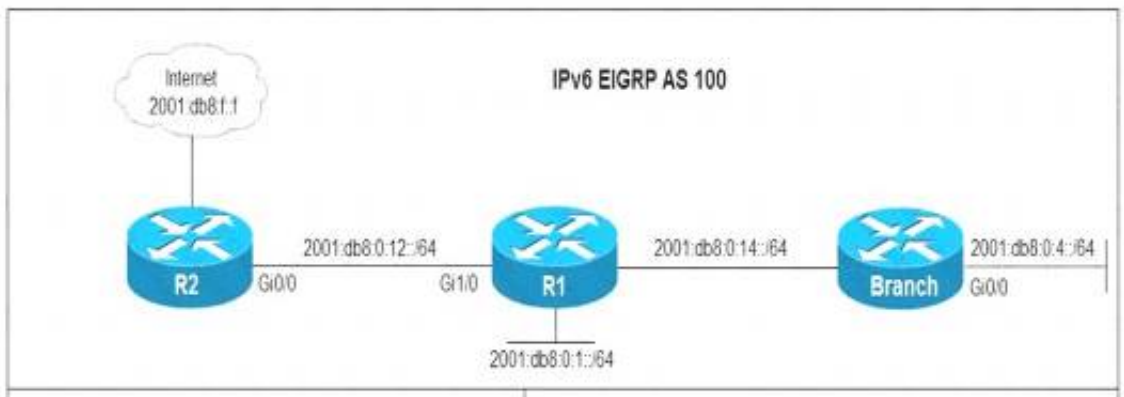


A. Mastered
B. Not Mastered

Answer: A

Explanation:
Label Switch Router 1. Reads labels and forwards the packet based on the based on the label.
* 2. Performs PHP
Label Edge Router: 1 Assigns labels and unlabeled packets.
* 2. Handles traffic between multiple VPNs

NEW QUESTION 368
- (Exam Topic 1)
Refer to the exhibit.



R1# show ipv6 eigrp topology
EIGRP-IPv6 Topology Table for AS(100)/ID(10.1.12.1)
Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
r - reply Status, s - sia Status
P 2001:DB8:0:4::/64, 1 successors, FD is 28416
via FE80::C828:DFF:FEF4:1C (28416/2816), FastEthernet3/0
P 2001:DB8:0:1::/64, 1 successors, FD is 2816
via Connected, GigabitEthernet0/0
P ::/0, 1 successors, FD is 2816
via FE80::C821:17FF:FE04:8 (2816/256), GigabitEthernet1/0
P 2001:DB8:0:14::/64, 1 successors, FD is 28160
via Connected, FastEthernet3/0
P 2001:DB8:0:12::/64, 1 successors, FD is 2816
via Connected, GigabitEthernet1/0

Branch# show ipv6 eigrp topology
EIGRP-IPv6 Topology Table for AS(100)/ID(4.4.4.4)
Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,
r - reply Status, s - sia Status
P 2001:DB8:0:4::/64, 1 successors, FD is 2816
via Connected, GigabitEthernet0/0
P 2001:DB8:0:1::/64, 1 successors, FD is 28416
via FE80::C820:17FF:FE04:54 (28416/2816), FastEthernet1/0
P 2001:DB8:0:14::/64, 1 successors, FD is 28160
via Connected, FastEthernet1/0
P 2001:DB8:0:12::/64, 1 successors, FD is 28416
via FE80::C820:17FF:FE04:54 (28416/2816), FastEthernet1/0

Users in the branch network of 2001:db8:0:4::/64 report that they cannot access the Internet. Which command is issued in IPv6 router EIGRP 100 configuration mode to solve this issue?

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

Answer: D

NEW QUESTION 371
- (Exam Topic 1)
Refer to the exhibit.

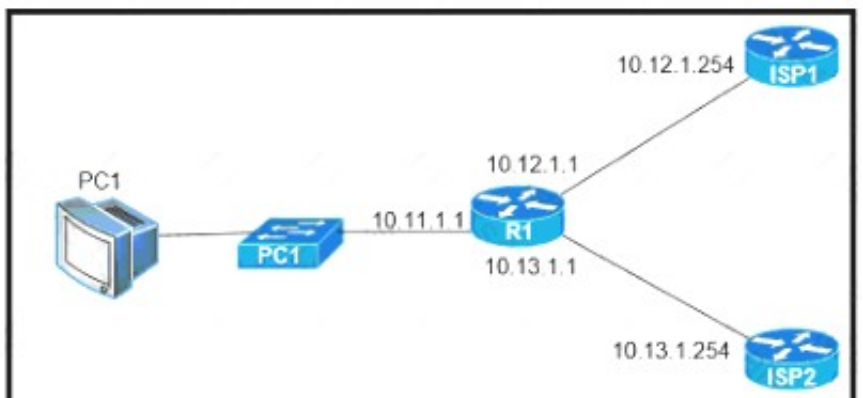
```
Router#show access-lists
Standard IP access list 1
        10 permit 192.168.2.2 (1 match)
Router#
Router#show route-map
route-map RM-OSPF-DL, permit, sequence 10
  Match clauses:
        ip address (access-lists): 1
  Set clauses:
  Policy routing matches: 0 packets, 0 bytes
Router#
Router#show running-config | section ospf
router ospf 1
  network 192.168.1.1 0.0.0.0 area 0
  network 192.168.12.0 0.0.0.255 area 0
  distribute-list route-map RM-OSPF-DL in
Router#|
```

An engineer is trying to block the route to 192.168.2.2 from the routing table by using the configuration that is shown. The route is still present in the routing table as an OSPF route. Which action blocks the route?

A. Use an extended access list instead of a standard access list.
B. Change sequence 10 in the route-map command from permit to deny.
C. Use a prefix list instead of an access list in the route map.
D. Add this statement to the route map: route-map RM-OSPF-DL deny 20.

Answer: B

NEW QUESTION 376
- (Exam Topic 1)
Refer to the exhibit.




```
R1
 ip sla 100
  icmp-echo 10.12.1.254
 !
 track 10 ip sla 100 reachability
 !
 ip route 0.0.0.0 0.0.0.0 10.12.1.254 track 10
 ip route 0.0.0.0 0.0.0.0 10.13.1.254 10
 !

R1#show ip route
 (Output Omitted)
 Gateway of last resort is 10.13.1.254 to network 0.0.0.0

 S*    0.0.0.0/0 [10/0] via 10.13.1.254
       10.0.0.0/8 is variably subnetted, 6 subnets, 2 masks
 C        10.11.1.0/24 is directly connected, GigabitEthernet0/1
 L        10.11.1.1/32 is directly connected, GigabitEthernet0/1
 C        10.12.1.0/24 is directly connected, GigabitEthernet0/0
 L        10.12.1.1/32 is directly connected, GigabitEthernet0/0
 C        10.13.1.0/24 is directly connected, GigabitEthernet0/2
 L        10.13.1.1/32 is directly connected, GigabitEthernet0/2
```

An engineer is monitoring reachability of the configured default routes to ISP1 and ISP2. The default route from ISP1 is preferred if available. How is this issue resolved?

A. Use the icmp-echo command to track both default routes
B. Use the same AD for both default routes
C. Start IP SLA by matching numbers for track and ip sla commands
D. Start IP SLA by defining frequency and scheduling it

Answer: D

Explanation:

Reference:
https://www.cisco.com/c/en/us/support/docs/ip/ip-routing/200785-ISP-Failover-with-default-routes-using-I.html
In the above configuration we have not had activated our IP SLA operation. We can start it with this command:
R1(config)#ip sla schedule 100 life forever start-time now Also we should specific the rate of ICMP echo:
R1(config-ip-sla-echo)#frequency 5 // Send ICMP echo every 5 seconds

NEW QUESTION 380
- (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 384
- (Exam Topic 1)
Which statement about IPv6 ND inspection is true?

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

Answer: B

Explanation:
IPv6 ND inspection learns and secures bindings for stateless autoconfiguration addresses in Layer 2 neighbor tables. IPv6 ND inspection analyzes neighbor discovery messages in order to build a trusted binding table database, and IPv6 neighbor discovery messages that do not have valid bindings are dropped. A neighbor discovery message is considered trustworthy if its IPv6-to-MAC mapping is verifiable.

This feature mitigates some of the inherent vulnerabilities for the neighbor discovery mechanism, such as attacks on duplicate address detection (DAD), address resolution, device discovery, and the neighbor cache.
Reference:
https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6_fhsec/configuration/15-s/ip6f-15-s-book/ip6-snooping.p

NEW QUESTION 386
- (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 391
- (Exam Topic 1)
An engineer configured a leak-map command to summarize EIGRP routes and advertise specifically loopback 0 with an IP of 10.1.1.1.255.255.255.252 along with the summary route. After finishing configuration, the customer complained not receiving summary route with specific loopback address. Which two configurations will fix it? (Choose two.)

```
router eigrp 1
!
route-map Leak-Route deny 10
!
interface Serial 0/0
 ip summary-address eigrp 1 10.0.0.0 255.0.0.0 leak-map Leak-Route
```

A. Configure access-list 1 permit 10.1.1.0.0.0.0.3.
B. Configure access-list 1 permit 10.1.1.1.0.0.0.252.
C. Configure access-list 1 and match under route-map Leak-Route.
D. Configure route-map Leak-Route permit 10 and match access-list 1.
E. Configure route-map Leak-Route permit 20.

Answer: AD

Explanation:
When you configure an EIGRP summary route, all networks that fall within the range of your summary are suppressed and no longer advertised on the interface. Only the summary route is advertised. But if we want to advertise a network that has been suppressed along with the summary route then we can use leak-map feature. The below commands will fix the configuration in this question:
R1(config)#access-list 1 permit 10.1.1.0 0.0.0.3
R1(config)#route-map Leak-Route permit 10 // this command will also remove the “route_map Leak-Route deny 10” command.
R1(config-route-map)#match ip address 1

NEW QUESTION 392
- (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 396
- (Exam Topic 1)
Which protocol does MPLS use to support traffic engineering?

A. Tag Distribution Protocol (TDP)
B. Resource Reservation Protocol (RSVP)
C. Border Gateway Protocol (BGP)
D. Label Distribution Protocol (LDP)

Answer: B

Explanation:
MPLS TE provides a way to integrate TE capabilities (such as those used on Layer 2 protocols like ATM) into Layer 3 protocols (IP). MPLS TE uses an extension to existing protocols (Intermediate System-to-Intermediate System (IS-IS), Resource Reservation Protocol (RSVP), OSPF) to calculate and establish unidirectional tunnels that are set according to the network constraint. Traffic flows are mapped on the different tunnels depending on their destination.

NEW QUESTION 397
.....

THANKS FOR TRYING THE DEMO OF OUR PRODUCT

Visit Our Site to Purchase the Full Set of Actual 300-410 Exam Questions With Answers.

We Also Provide Practice Exam Software That Simulates Real Exam Environment And Has Many Self-Assessment Features. Order the 300-410 Product From:

https://www.2passeasy.com/dumps/300-410/

Money Back Guarantee

300-410 Practice Exam Features:

* 300-410 Questions and Answers Updated Frequently

* 300-410 Practice Questions Verified by Expert Senior Certified Staff

* 300-410 Most Realistic Questions that Guarantee you a Pass on Your FirstTry

* 300-410 Practice Test Questions in Multiple Choice Formats and Updatesfor 1 Year