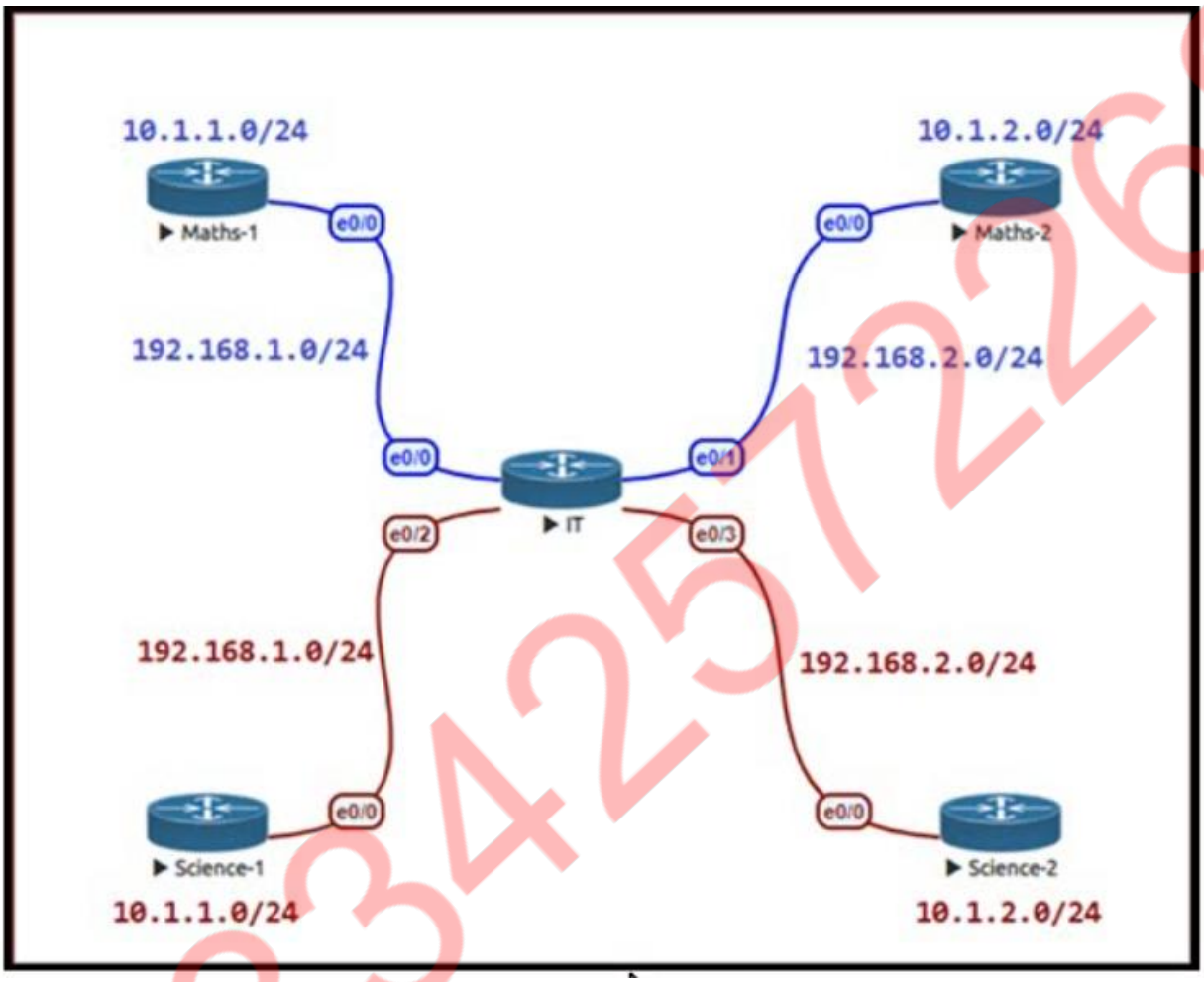
Taken on 4th Sep




Refer to the exhibit. The Math and Science departments connect through the corporate IT router, but users in the Math department must not be able to reach the Science department and vice versa. Which configuration accomplishes this task?

```
vrf definition Science
 address-family ipv4
 !
interface E 0/2
 ip address 192.168.1.1 255.255.255.0
 vrf forwarding Science
 no shut
 !
```

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Taken on 4th Sep

```
interface E 0/3
 ip address 192.168.2.1 255.255.255.0
 vrf forwarding Science
 no shut
```

- vrf definition Science

```
!
interface E 0/2
 ip address 192.168.1.1 255.255.255.0
 no shut
!
interface E 0/3
 ip address 192.168.2.1 255.255.255.0
 no shut
```

- vrf definition Science

```
 address-family ipv4
!
interface E 0/2
 ip address 192.168.1.1 255.255.255.0
 no shut
!
interface E 0/3
 ip address 192.168.2.1 255.255.255.0
 no shut
```

- vrf definition Science

```
 address-family ipv4
!
interface E 0/2
 vrf forwarding Science
 ip address 192.168.1.1 255.255.255.0
 no shut
!
interface E 0/3
 vrf forwarding Science
 ip address 192.168.2.1 255.255.255.0
 no shut
```

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```
Jan 9 15:29:29.713: DHCP_SNOOPING: process new DHCP packet, message type: DHCPINFORM, input interface:
Po2, MAC da: ffff.ffff.ffff, DHCP yiaddr: 0.0.0.0, DHCP siaddr: 0.0.0.0, DHCP giaddr: 0.0.0.0
Jan 9 15:29:29.713: DHCP_SNOOPING_SW: bridge packet get invalid mat entry: FFFF.FFFF.FFFF, packet is
flooded to ingress VLAN: (1)
Jan 9 15:29:29.722: DHCP_SNOOPING_SW: bridge packet send packet to cpu port: Vlan1.
Jan 9 15:29:31.509: DHCPSNOOP(hlfm_set_if_input): Setting if_input to Po2 for pak. Was Vl1
Jan 9 15:29:31.509: DHCPSNOOP(hlfm_set_if_input): Setting if_input to Vl1 for pak. Was Po2
Jan 9 15:29:31.509: DHCPSNOOP(hlfm_set_if_input): Setting if_input to Po2 for pak. Was Vl1Jan 9
15:29:31.517: DHCP_SNOOPING: received new DHCP packet from input interface (Port-channel2)
```

Refer to the exhibit. A network administrator enables DHCP snooping on the Cisco Catalyst 3750-X switch and configures the uplink port (Port-channel2) as a trusted port. Clients are not receiving an IP address, but when DHCP snooping is disabled, clients start receiving IP addresses. Which global command resolves the issue?

- **no ip dhcp snooping information option**
- **ip dhcp relay information trust portchannel2**
- **ip dhcp snooping trust**
- **ip dhcp snooping**

An engineer configured Reverse Path Forwarding on an interface and noticed that the routes are dropped when a route lookup fails on that interface for a prefix that is available in the routing table. Which interface configuration resolves the issue?

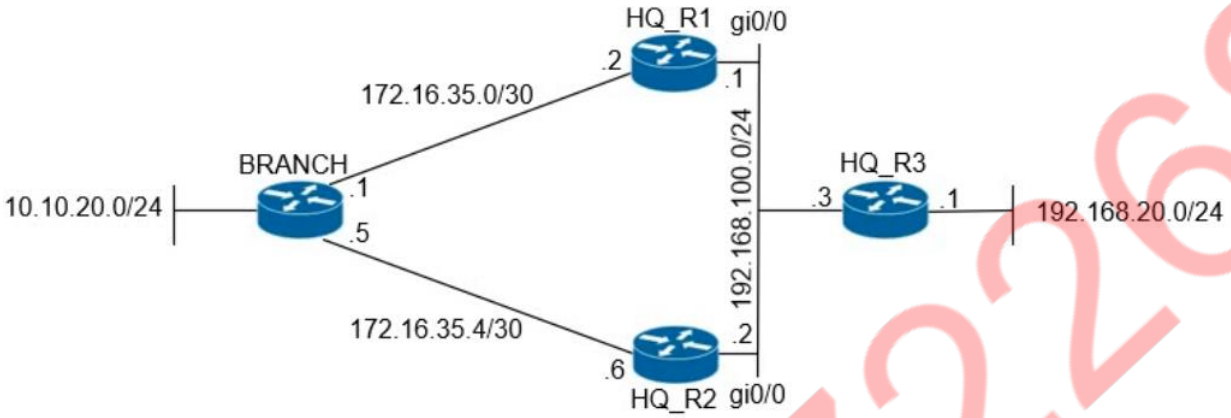
- **ip verify unicast source reachable-via l2-src**
- **ip verify unicast source reachable-via rx**
- **ip verify unicast source reachable-via any**
- **ip verify unicast source reachable-via allow-default**

How does an MPLS Layer 3 VPN function?

- set of sites use multiprotocol BGP at the customer site for aggregation
- multiple customer sites interconnect through a service provider network using customer edge to provider edge connectivity
- set of sites interconnect privately over the Internet for security
- multiple customer sites interconnect through service provider network to create secure tunnels between customer edge devices

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Taken on 4th Sep




```
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?

- HQ_R3(config)# **ip sla responder**
  HQ_R3(config)# **ip sla responder icmp-echo 172.16.35.1**
- BRANCH(config)# **ip sla 1**
  BRANCH(config-ip-sla)# **icmp-echo 192.168.100.2**
- HQ_R3(config)# **ip sla responder**
  HQ_R3(config)# **ip sla responder icmp-echo 172.16.35.5**
- BRANCH(config)# **ip sla 1**
  BRANCH(config-ip-sla)# **icmp-echo 192.168.100.1**

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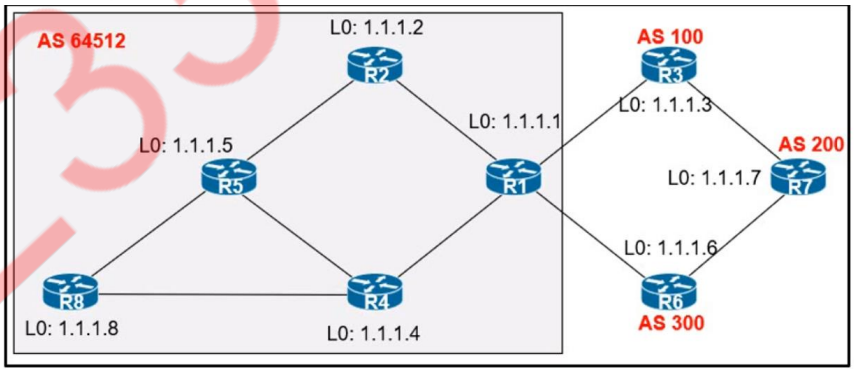
Taken on 4th Sep

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

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

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

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

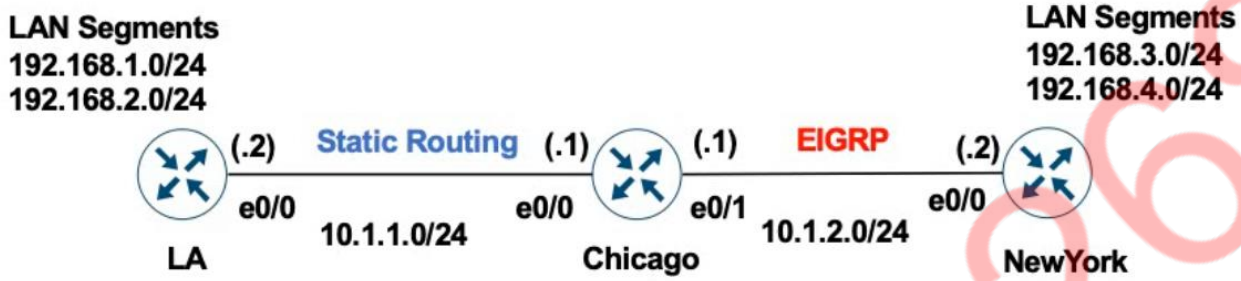



Refer to the exhibit. An engineer configured R2 and R5 as route reflectors and noticed that not all routes are sent to R1 to advertise to the eBGP peers. Which iBGP routers must be configured as route reflectors to advertise all routes to restore reachability across all networks?

- R1 and R4
- R1 and R5
- R4 and R5
- R2 and R5

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**Chicago Router**

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

**LA Router**

```
ip route 0.0.0.0 0.0.0.0 10.1.1.1
```

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

- LA Router

  ip route 192.168.3.0 255.255.255.0 10.1.1.1
  ip route 192.168.4.0 255.255.255.0 10.1.1.1

- Chicago Router

  router eigrp 100
  redistribute static metric 10 10 10 10 10

- Chicago Router

  router eigrp 100
  redistribute connected

- Chicago Router

  ip route 192.168.3.0 255.255.255.0 10.1.2.2
  ip route 192.168.4.0 255.255.255.0 10.1.2.2

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Taken on 4th Sep

**Configuration Output:**

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


password 7 K0AyUubDrfOgO4s
authorization exec VTY_AUTH
login authentication VTY_AUTH

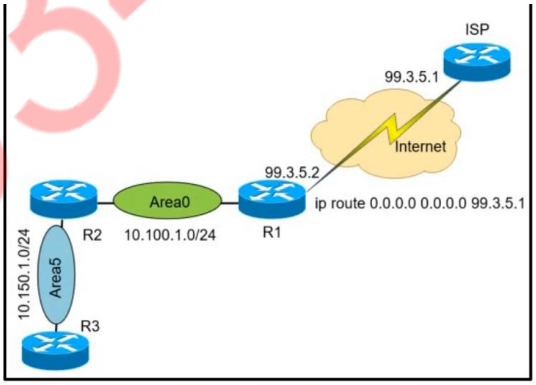
!
```

**Debug Output:**

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

Refer to the exhibit. Which action resolves the failed authentication attempt to the router?

- Configure **aaa authorization console** global command.
- Configure **aaa authorization login** command on **line vty 0 4**.
- Configure **aaa authorization console** command on **line vty 0 4**.
- Configure **aaa authorization login** command on **line console 0**.

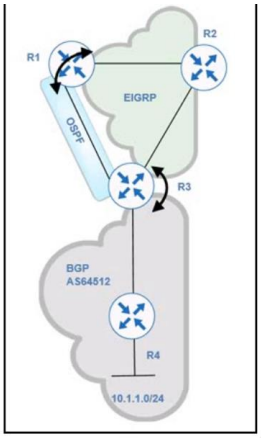



Refer to the exhibit. A network administrator redistributed the default static route into OSPF toward all internal routers to reach to Internet. Which set of commands restores reachability to the Internet by internal routers?

- **router ospf 1**
  **redistribute static subnets**
- **router ospf 1**
  **redistribute connected 0.0.0.0**
- **router ospf 1**
  **network 0.0.0.0 0.0.0.0 area 0**
- **router ospf 1**
  **default-information originate**

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

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

What are two purposes of using IPv4 and VPNv4 address-family configurations in a Layer 3 MPLS VPN? (Choose two.)

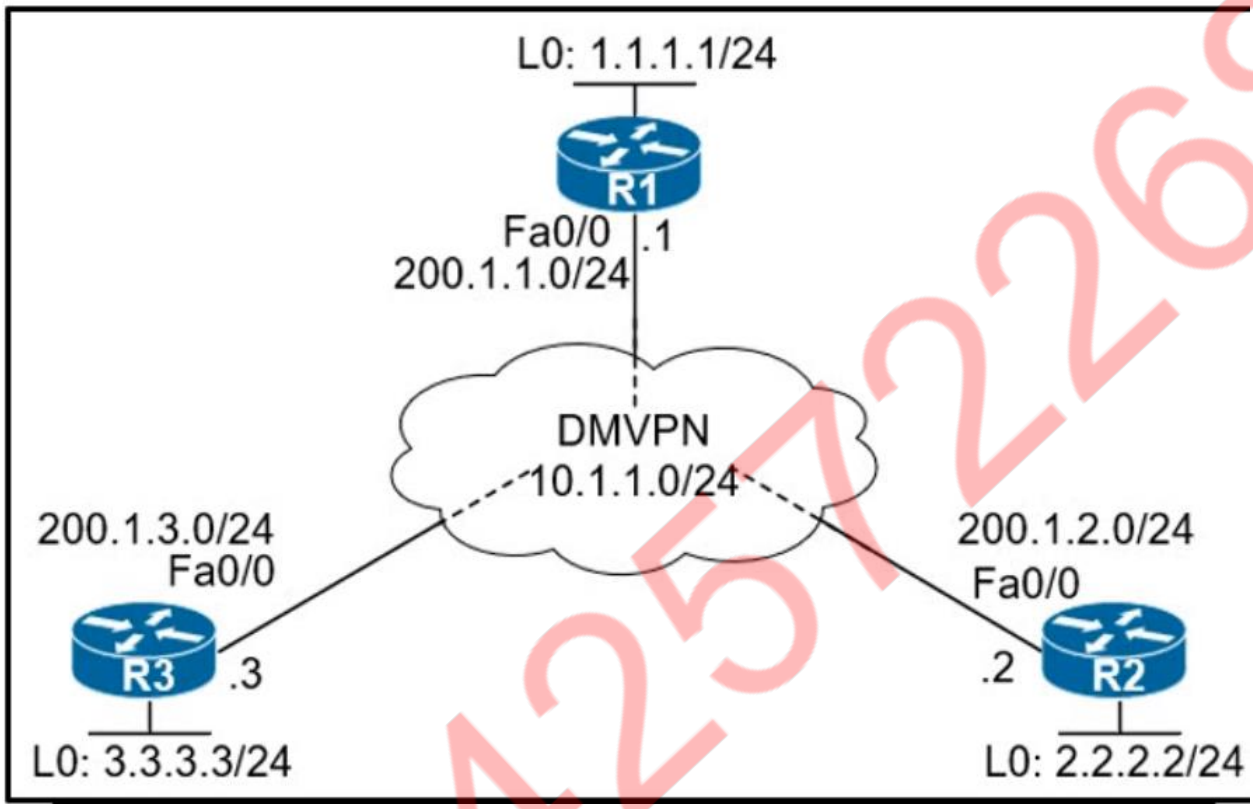
- [x] RD is prepended to the IPv4 route to make it unique.
- [x] The VPNv4 address consists of a 64-bit route distinguisher that is prepended to the IPv4 prefix.
- [ ] MP-BGP is used to allow overlapping IPv4 addresses between customers to advertise through the network.
- [ ] The IPv4 address is needed to tag the MPLS label.
- [ ] The VPNv4 address is used to advertise the MPLS VPN label.

A customer reports to the support desk that they cannot print from their PC to the local printer id:405296124. Which tool must be used to diagnose the issue using Cisco DNA Center Assurance?

- path trace
- device trace
- application trace
- ACL trace

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Taken on 4th Sep




```
R2:
======
R2(config)# crypto isakmp policy 10
R2(config-isakmp)# hash md5
R2(config-isakmp)# authentication pre-share
R2(config-isakmp)# group 2
R2(config-isakmp)# encryption 3des
R2(config)# crypto ipsec transform-set TSET esp-des esp-md5-hmac
R2(cfg-crypto-trans)# mode transport
R2(config)# crypto ipsec profile TST
R2(ipsec-profile)# set transform-set TSET
R2(config)# interface tunnel 123
R2(config-if)# tunnel protection ipsec profile TST
```

Refer to the exhibit. Which configuration allows spoke-to-spoke communication using loopback as a tunnel source?

- Configure **crypto isakmp key cisco address 0.0.0.0** on the hub.
- Configure **crypto isakmp key cisco address 200.1.0.0 255.255.0.0** on the hub.
- Configure **crypto isakmp key cisco address 200.1.0.0 255.255.0.0** on the spokes.
- Configure **crypto isakmp key cisco address 0.0.0.0** on the spokes.

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What are two functions of MPLS Layer 3 VPNs? (Choose two.)

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

```
ip prefix-list DefaultRouteOnly seq 5  deny   0.0.0.0/0 le 32
ip prefix-list DefaultRouteOnly seq 10 permit 0.0.0.0/0

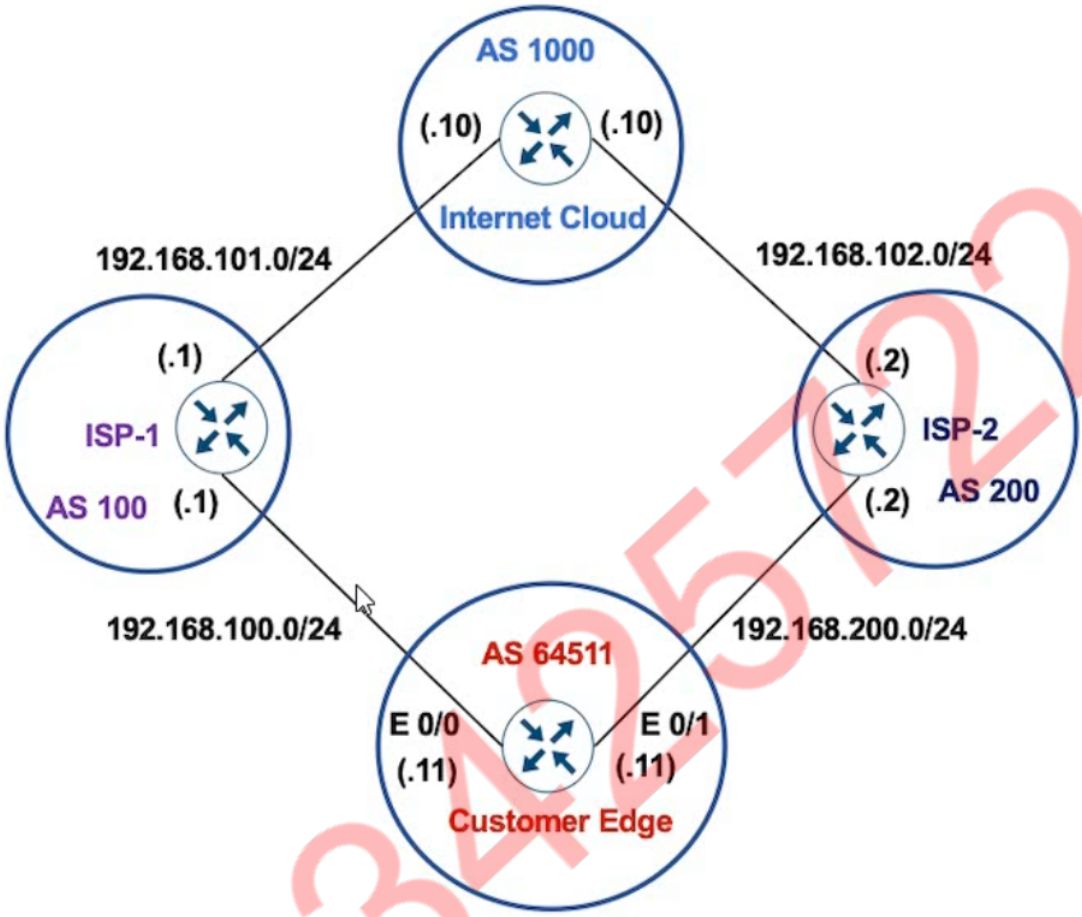
router eigrp ccnp
 address-family ipv4 unicast autonomous-system 1
  topology base
   distribute-list prefix DefaultRouteOnly out Tunnel0
```

Refer to the exhibit. The administrator configured route advertisement to a remote low resources router to use only the default route to reach any network but failed. Which action resolves this issue?

- (•) Remove the line with the sequence number 5 from the prefix list.
- ( ) Change the direction of the **distribute-list** command from out to in.
- ( ) Remove the line with the sequence number 10 from the prefix list.
- ( ) Remove the prefix keyword from the **distribute-list** command.

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Taken on 4th Sep




Refer to the exhibit. The network administrator has configured the Customer Edge router (AS 64511) to send only summarized routes toward ISP-1 (AS 100) and ISP-2 (AS 200).

```
router bgp 64511
 network 172.16.20.0 mask 255.255.255.0
 network 172.16.21.0 mask 255.255.255.0
 network 172.16.22.0 mask 255.255.255.0
 network 172.16.23.0 mask 255.255.255.0
 aggregate-address 172.16.20.0 255.255.252.0
```

After this configuration, ISP-1 and ISP-2 continue to receive the specific routes and the summary route. Which configuration resolves the issue?

(●) 
```
router bgp 64511
 aggregate-address 172.16.20.0 255.255.252.0 summary-only
```

( ) 
```
ip prefix-list PL_BLOCK_SPECIFIC deny 172.16.20.0/22 ge 22
ip prefix-list PL_BLOCK_SPECIFIC permit 172.16.20.0/22
!
route-map BLOCK_SPECIFIC permit 10
 match ip address prefix-list PL_BLOCK_SPECIFIC
!
router bgp 64511
 aggregate-address 172.16.20.0 255.255.252.0 suppress-map BLOCK_SPECIFIC
```

( ) 
```
interface E 0/0
 ip bgp suppress-map BLOCK_SPECIFIC
!
interface E 0/1
 ip bgp suppress-map BLOCK_SPECIFIC
!
ip prefix-list PL_BLOCK_SPECIFIC permit 172.16.20.0/22 ge 24
!
route-map BLOCK_SPECIFIC permit 10
 match ip address prefix-list PL_BLOCK_SPECIFIC
```

( ) 
```
router bgp 64511
 neighbor 192.168.100.1 summary-only
 neighbor 192.168.200.2 summary-only
```

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Taken on 4th Sep

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?

- Configure correct authentication and privacy passwords using SNMPv3 authPriv.
- Configure correct authentication and privacy passwords using SNMPv3 authNoPriv.
- Configure the correct authentication password using SNMPv3 authNoPriv.
- Configure the correct authentication password using SNMPv3 authPriv.

How are MPLS Layer 3 VPN services deployed?

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

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

- Configure all devices for SNMPv3 informs with priv.
- Configure all devices for SNMPv3 informs with auth.
- Configure all devices for SNMPv3 traps with priv.
- Configure all devices for SNMPv3 traps with auth.

When determining if a system is capable of support, what is the minimum time spacing required for a BFD control packet to receive once a control packet is arrived?

- Desired Min TX Interval
- Detect Mult
- Required Min RX Interval
- Required Min Echo RX Interval

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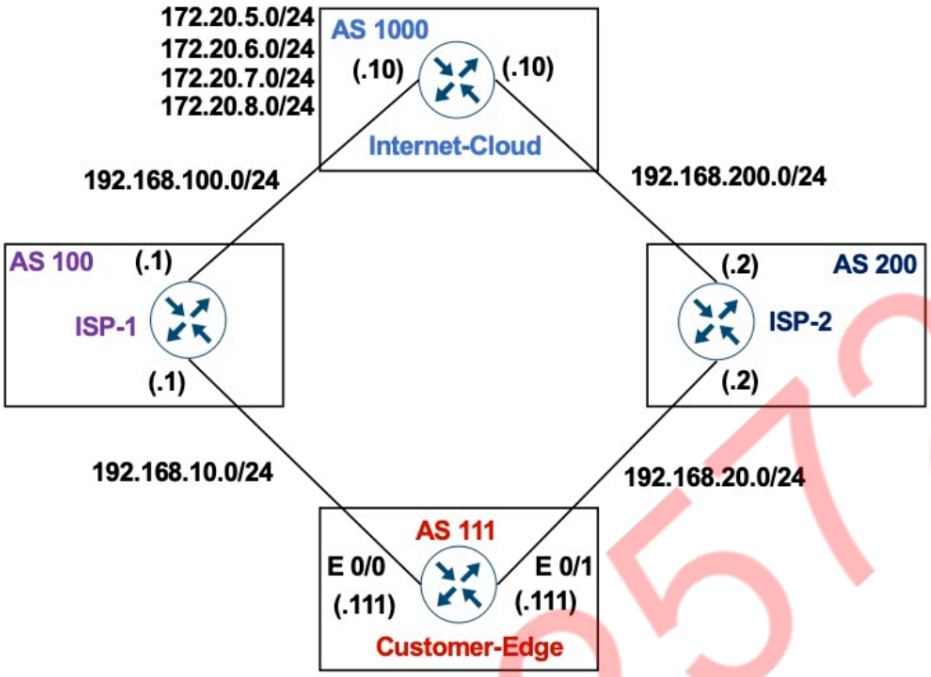
```
R1#show run | begin line
line con 0
 exec-timeout 0 0
 privilege level 15
 logging synohronous
 transport preferred telnet
 transport output none
 stopbits 0 4
line vty 0 4
 login
 transport referred telnet
 transport input none
 transport output telnet
R1#

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

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

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

Taken on 4th Sep




## Customer-Edge

```
ip prefix-list PLIST1 permit 172.20.5.0/24
!
route-map SETLP permit 10
 match ip address prefix-list PLIST1
 set local-preference 90
!
router bgp 111
 neighbor 192.168.10.1 remote-as 100
 neighbor 192.168.10.1 route-map SETLP in
 neighbor 192.168.20.2 remote-as 200
```

Refer to the exhibit. AS 111 wanted to use AS 200 as the preferred path for 172.20.5.0/24 and AS 100 as the backup. After the configuration, AS 100 is not used for any other routes. Which configuration resolves the issue?

- router bgp 111
  no neighbor 192.168.10.1 route-map SETLP in
  neighbor 192.168.10.1 route-map SETLP out

- route-map SETLP permit 10
  match ip address prefix-list PLIST1
  set local-preference 110
  route-map SETLP permit 20

- router bgp 111
  no neighbor 192.168.10.1 route-map SETLP in
  neighbor 192.168.20.2 route-map SETLP in

- route-map SETLP permit 10
  match ip address prefix-list PLIST1
  set local-preference 99
  route-map SETLP permit 20

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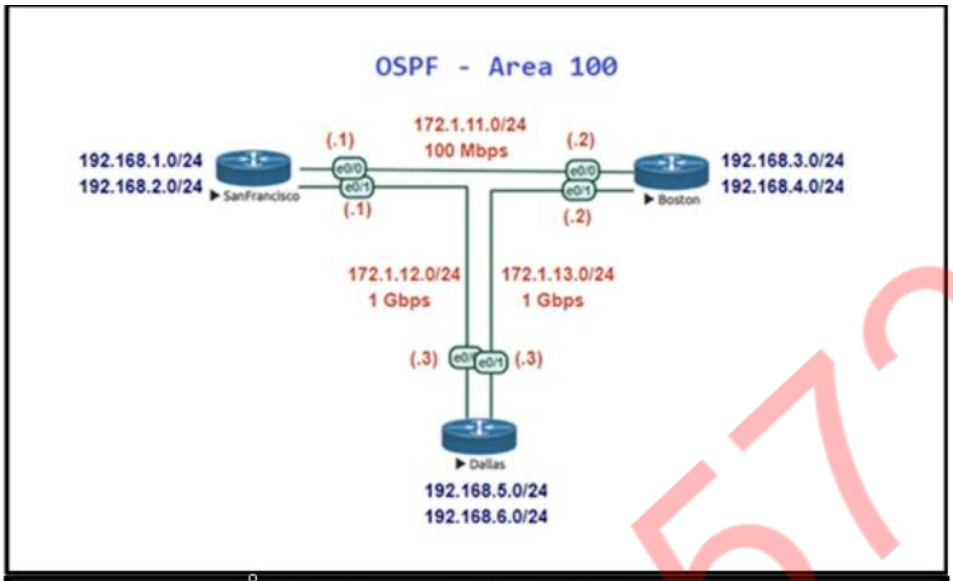
Taken on 4th Sep

An engineer must configure a Cisco router to initiate secure connections from the router to other devices in the network but kept failing. Which two actions resolve the issue? (Choose two.)

- [x] Configure a domain name.
- [x] Configure a crypto key to be generated.
- [ ] Configure **transport input ssh** command on the console.
- [ ] Configure a TACACS+ server and enable it.
- [ ] Configure a source port for the SSH connection to initiate.

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Taken on 4th Sep




**Show IP Route – San Francisco Router**

```
Gateway of last resort is not set

     172.1.0.0/16 is variably subnetted, 5 subnets, 2 masks
C       172.1.11.0/24 is directly connected, Ethernet0/0
L       172.1.11.1/32 is directly connected, Ethernet0/0
C       172.1.12.0/24 is directly connected, Ethernet0/1
L       172.1.12.1/32 is directly connected, Ethernet0/1
O       172.1.13.0/24 [110/11] via 172.1.11.2, 00:02:34, Ethernet0/0
     192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.1.0/24 is directly connected, Loopback0
L       192.168.1.1/32 is directly connected, Loopback0
     192.168.2.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.2.0/24 is directly connected, Loopback1
L       192.168.2.1/32 is directly connected, Loopback1
```

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```
O    192.168.3.0/24 [110/11] via 172.1.11.2, 00:00:44, Ethernet0/0
O    192.168.4.0/24 [110/11] via 172.1.11.2, 00:00:34, Ethernet0/0
O    192.168.5.0/24 [110/11] via 172.1.12.3, 00:00:34, Ethernet0/1
O    192.168.6.0/24 [110/11] via 172.1.12.3, 00:00:24, Ethernet0/1
```

**Show IP Route – Boston**

```
Gateway of last resort is not set

     172.1.0.0/16 is variably subnetted, 5 subnets, 2 masks
O       172.1.11.0/24 [110/11] via 172.1.13.2, 00:04:44, Ethernet0/1
                      [110/11] via 172.1.12.1, 00:04:44, Ethernet0/0
C       172.1.12.0/24 is directly connected, Ethernet0/0
L       172.1.12.3/32 is directly connected, Ethernet0/0
C       172.1.13.0/24 is directly connected, Ethernet0/1
L       172.1.13.3/32 is directly connected, Ethernet0/1
O    192.168.1.0/24 [110/2] via 172.1.12.1, 00:04:44, Ethernet0/0
O    192.168.2.0/24 [110/2] via 172.1.12.1, 00:04:44, Ethernet0/0
O    192.168.3.0/24 [110/2] via 172.1.13.2, 00:04:44, Ethernet0/1
O    192.168.4.0/24 [110/2] via 172.1.13.2, 00:04:44, Ethernet0/1
     192.168.5.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.5.0/24 is directly connected, Loopback0
L       192.168.5.1/32 is directly connected, Loopback0
     192.168.6.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.6.0/24 is directly connected, Loopback1
L       192.168.6.1/32 is directly connected, Loopback1
```

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

- All Routers

```
router ospf 1
 auto-cost reference-bandwidth 100
```

- Boston Router

```
router ospf 1
 auto-cost reference-bandwidth 1000
```

- SanFrancisco Router

```
router ospf 1
 auto-cost reference-bandwidth 1000
```

- All Routers

```
router ospf 1
 auto-cost reference-bandwidth 1000
```

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Drag and drop the actions from the left into the order on the right to configure a policy to avoid following packet forwarding based on the normal routing path.

| | |
|---|---|
| Configure route map instances. | step 1 |
| Configure set commands. | step 2 |
| Configure fast switching for PBR. | step 3 |
| Configure ACLs. | step 4 |
| Configure match commands. | step 5 |
| Configure PBR on the interface. | step 6 |

Configure ACLs.

Configure route map instances.

Configure match commands.

Configure set commands.

Configure PBR on the interface.

Configure fast switching for PBR.

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Taken on 4th Sep

Which protocol does MPLS use to support traffic engineering?

- BGP
- LDP
- RSVP
- TDP

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?

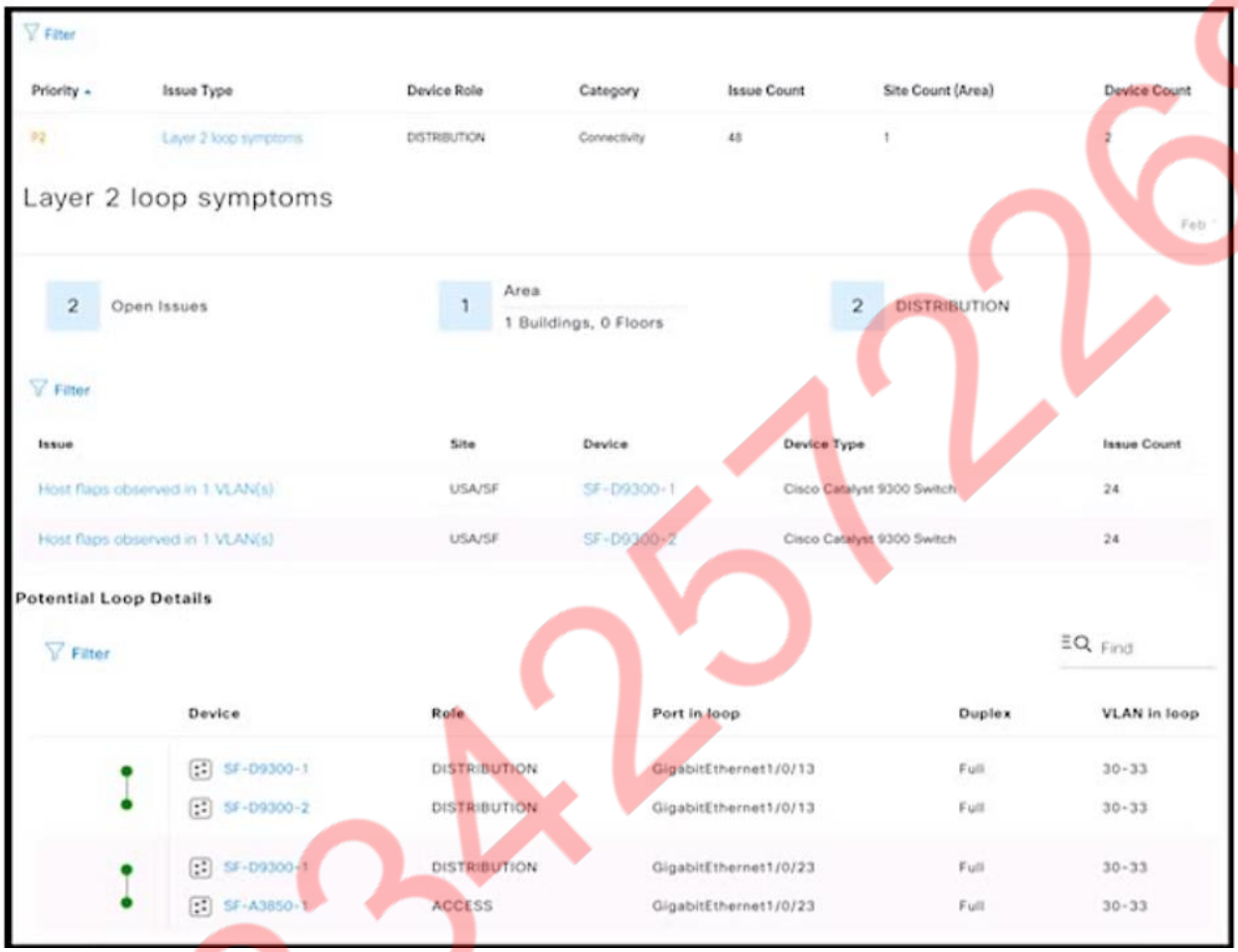
- LOCAL_PREF
- AS-PATH
- MED
- WEIGHT

What are two MPLS label characteristics? (Choose two.)

- [ ] The label edge router swaps labels on the received packets.
- [ ] Labels are imposed in packets after the Layer 3 header.
- [x] LDP uses TCP for reliable delivery of information.
- [x] An MPLS label is a short identifier that identifies a forwarding equivalence class.
- [ ] A maximum of two labels can be imposed on an MPLS packet.

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Taken on 4th Sep



Filter

| Priority | Issue Type | Device Role | Category | Issue Count | Site Count (Area) | Device Count |
|---|---|---|---|---|---|---|
| P2 | Layer 2 loop symptoms | DISTRIBUTION | Connectivity | 48 | 1 | 2 |

Layer 2 loop symptoms

Feb

2 Open Issues

1 Area
1 Buildings, 0 Floors

2 DISTRIBUTION

Filter

| Issue | Site | Device | Device Type | Issue Count |
|---|---|---|---|---|
| Host flaps observed in 1 VLAN(s) | USA/SF | SF-D9300-1 | Cisco Catalyst 9300 Switch | 24 |
| Host flaps observed in 1 VLAN(s) | USA/SF | SF-D9300-2 | Cisco Catalyst 9300 Switch | 24 |

Potential Loop Details

Filter

Find

| Device | Role | Port in loop | Duplex | VLAN in loop |
|---|---|---|---|---|
| SF-D9300-1 | DISTRIBUTION | GigabitEthernet1/0/13 | Full | 30-33 |
| SF-D9300-2 | DISTRIBUTION | GigabitEthernet1/0/13 | Full | 30-33 |
| SF-D9300-1 | DISTRIBUTION | GigabitEthernet1/0/23 | Full | 30-33 |
| SF-A3850-1 | ACCESS | GigabitEthernet1/0/23 | Full | 30-33 |

```
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
```

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

- spanning-tree backbonefast
- no spanning-tree uplinkfast
- spanning-tree portfast bpduguard
- spanning-tree loopguard default

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Taken on 4th Sep

Drag and drop the LDP features from the left onto the descriptions on the right.

| | |
|---|---|
| implicit null label | provides ways of improving load balancing by eliminating the need for DPI at transit LSRs |
| explicit null label | LSR receives an MPLS header with the label set to 3 |
| inbound label binding filtering | packet is encapsulated in MPLS with the option of copying the IP precedence to EXP bits |
| entropy label | controls the amount of memory used to store LDP label bindings advertised by other devices |




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Taken on 4th Sep

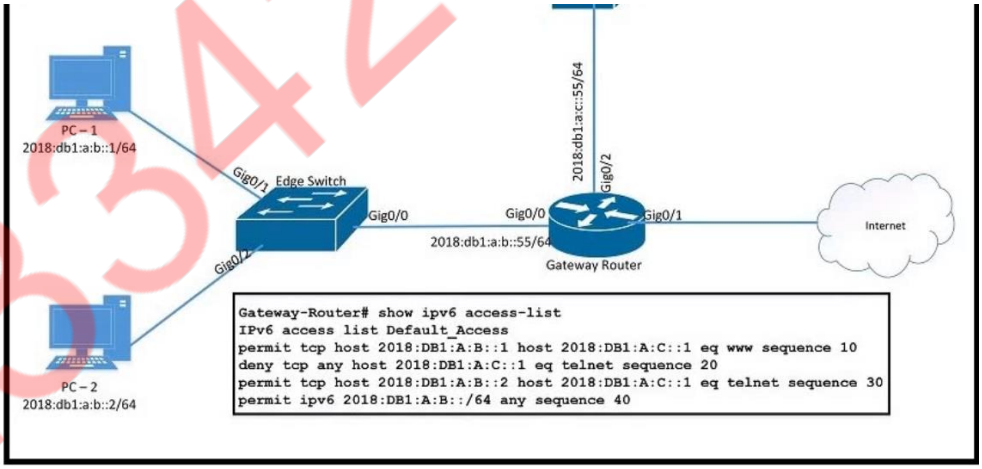
**Configuration output:**
clock timezone PST -8
clock summer-time PDT recurring
service timestamps debug datetime
service timestamps log datetime
logging buffered 16000 debugging
ntp clock-period 17179272
ntp server 161.181.92.152

**Debug output:**
router#show clock
14:12:26.312 PDT Thu Apr 27 2019
router#config t
Enter configuration commands, one per line. End with CNTL/Z.
router(config)#exit

router#
Apr 27 21:12:28: %SYS-5-CONFIG_I: Configured from console by vty0

Refer to the exhibit. A network administrator configured NTP on a Cisco router to get synchronized time for system and logs from a unified time source. The configuration did not work as desired. Which service must be enabled to resolve the issue?

- Enter the **service timestamps log datetime console** global command.
- Enter the **service timestamps log datetime localtime** global command.
- Enter the **service timestamps log datetime clock-period** global command.
- Enter the **service timestamps log datetime synchronize** global command.




Refer to the exhibit. PC-2 failed to establish a Telnet connection to the terminal server. Which configuration resolves the issue?

- Gateway-Router(config)#**ipv6 access-list Default_Access**
  Gateway-Router(config-ipv6-acl)#**sequence 25 permit tcp host 2018:DB1:A:B::2 host 2018:DB1:A:C::1 eq telnet**
- Gateway-Router(config)#**ipv6 access-list Default_Access**
  Gateway-Router(config-ipv6-acl)#**no sequence 20**
  Gateway-Router(config-ipv6-acl)#**sequence 5 permit tcp host 2018:DB1:A:B::2 host 2018:DB1:A:C::1 eq telnet**
- Gateway-Router(config)#**ipv6 access-list Default_Access**
  Gateway-Router(config-ipv6-acl)#**permit tcp host 2018:DB1:A:B::2 host 2018:DB1:A:C::1 eq telnet**
- Gateway-Router(config)#**ipv6 access-list Default_Access**
  Gateway-Router(config-ipv6-acl)#**sequence 15 permit tcp host 2018:DB1:A:B::2 host 2018:DB1:A:C::1 eq telnet**

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Taken on 4th Sep

An engineer is troubleshooting on the console session of a router and turns on multiple debug commands. The console screen is filled with scrolling debug messages that none of the commands can be verified if entered correctly or display any output. Which action allows the engineer to see entered console commands while still continuing the analysis of the debug messages?

- Configure the **logging synchronous level all** command.
- Configure the **no logging console debugging** command globally.
- Configure the **logging synchronous** command.
- Configure the **term no mon** command globally.

Which configuration feature should be used to block rogue router advertisements instead of using the IPv6 Router Advertisement Guard feature?

- PVLANs with community ports associated to route advertisements and isolated ports for nodes
- IPv4 ACL blocking route advertisements from nonauthorized hosts
- VACL blocking broadcast frames from nonauthorized hosts
- PVLANs with promiscuous ports associated to route advertisements and isolated ports for nodes

When configuring Control Plane Policing on a router to protect it from malicious traffic, an engineer observes that the configured routing protocols start flapping on that device. Which action in the Control Plane Policy prevents this problem in a production environment while achieving the security objective?

- Set the conform-action to transmit and exceed-action to drop to test the ACLs and transmit rates and apply the Control Plane Policy in the output direction.
- Set the conform-action and exceed-action to transmit initially to test the ACLs and transmit rates and apply the Control Plane Policy in the input direction.
- Set the conform-action and exceed-action to transmit initially to test the ACLs and transmit rates and apply the Control Plane Policy in the output direction.
- Set the conform-action to transmit and exceed-action to drop to test the ACLs and transmit rates and apply the Control Plane Policy in the input direction.

An engineer configured a DHCP server for Cisco IP phones to download its configuration from a TFTP server, but the IP phones failed to load the configuration. What must be configured to resolve the issue?

- BOOTP port 67
- DHCP option 66
- BOOTP port 68
- DHCP option 69

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Taken on 4th Sep

```
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
```

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

- [ ] Configure a three-color policer instead of two-color policer under **Class COPP-CRITICAL-7600**.
- [ ] Configure a higher value for CIR under the **Class COPP-CRITICAL-7600**.
- [x] Configure a higher value for CIR under the default class to allow more packets during peak traffic.
- [x] Configure BGP in the **COPP-CRITICAL-7600** ACL.
- [ ] Configure IP CEF for CoPP policy and BGP to work.

Taken on 4th Sep

```
config t
flow record v4_r1
match ipv4 tos
match ipv4 protocol
match ipv4 source address
match ipv4 destination address
match transport source-port
match transport destination-port
collect counter bytes long
collect counter packets long
!
flow exporter EXPORTER-1
 destination 172.16.10.2
 transport udp 2055
 exit
```

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Taken on 4th Sep

```
!
flow monitor v4_r1
!
ip cef
!
interface Ethernet0/0.1
 ip address 172.16.6.2 255.255.255.0
 ip flow monitor v4_r1 input
!
```

Refer to the exhibit. The remote server is failing to receive the NetFlow data. Which action resolves the issue?

- Modify the flow transport command **transport udp 2055** to move under flow monitor profile.
- Modify the interface command to **ip flow monitor FLOW-MONITOR-1 input**.
- Modify the udp port under flow exporter profile to **ip transport udp 4739**.
- Modify the flow record command **record v4_r1** to move under flow exporter profile.

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Taken on 4th Sep

**Router Configuration:**

```
router ospf 0.0.0.0
 network 2.0.0.0 0.255.255.255 area 0.0.0.0
!
router bgp 100
 redistribute ospf 0.0.0.0
!
neighbor 3.3.3.2 remote-as 200
!
end
```

**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 | ? |

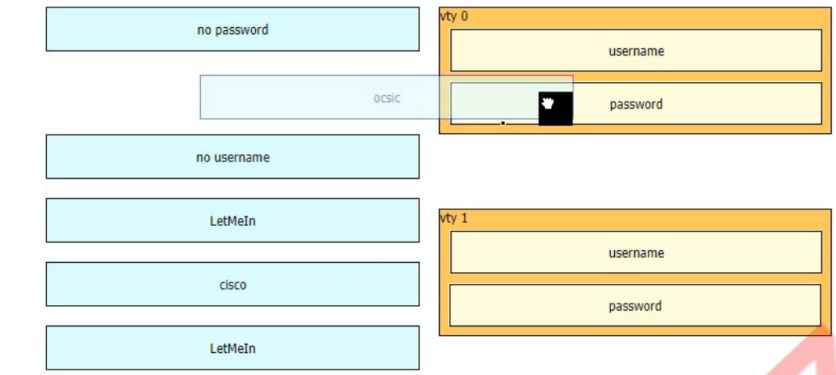
Refer to the exhibit. The OSPF routing protocol is redistributed into the BGP routing protocol, but not all the OSPF routes are distributed into BGP. Which action resolves the issue?

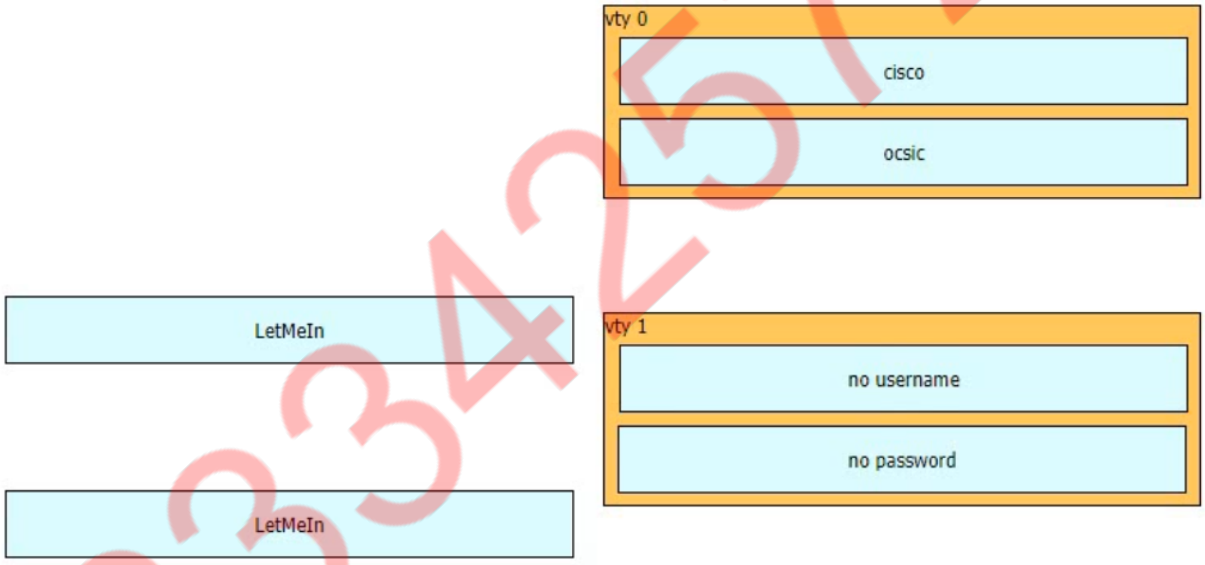
- Include the word **external** in the **redistribute** command.
- Use a **route-map** command to redistribute OSPF external routes defined in an access list.
- Include the word **internal external** in the **redistribute** command.
- Use a **route-map** command to redistribute OSPF external routes defined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

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Taken on 4th Sep

Refer to the exhibit. Drag and drop the credentials from the left onto the remote login information on the right to resolve a failed login attempt to vtys. Not all credentials are used.




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Taken on 4th Sep

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

Refer to the exhibit. When monitoring an IPv6 access list, an engineer notices that the ACL does not have any hits and is causing unnecessary traffic to pass through the interface. Which command must be configured to resolve the issue?

- **ipv6 traffic-filter INTERNET in**
- **ipv6 access-class INTERNET in**
- **access-class INTERNET in**
- **ip access-group INTERNET in**

An engineer configured policy-based routing for a destination IP address that does not exist in the routing table. How is the packet treated through the policy for configuring the **set ip default next-hop** command?

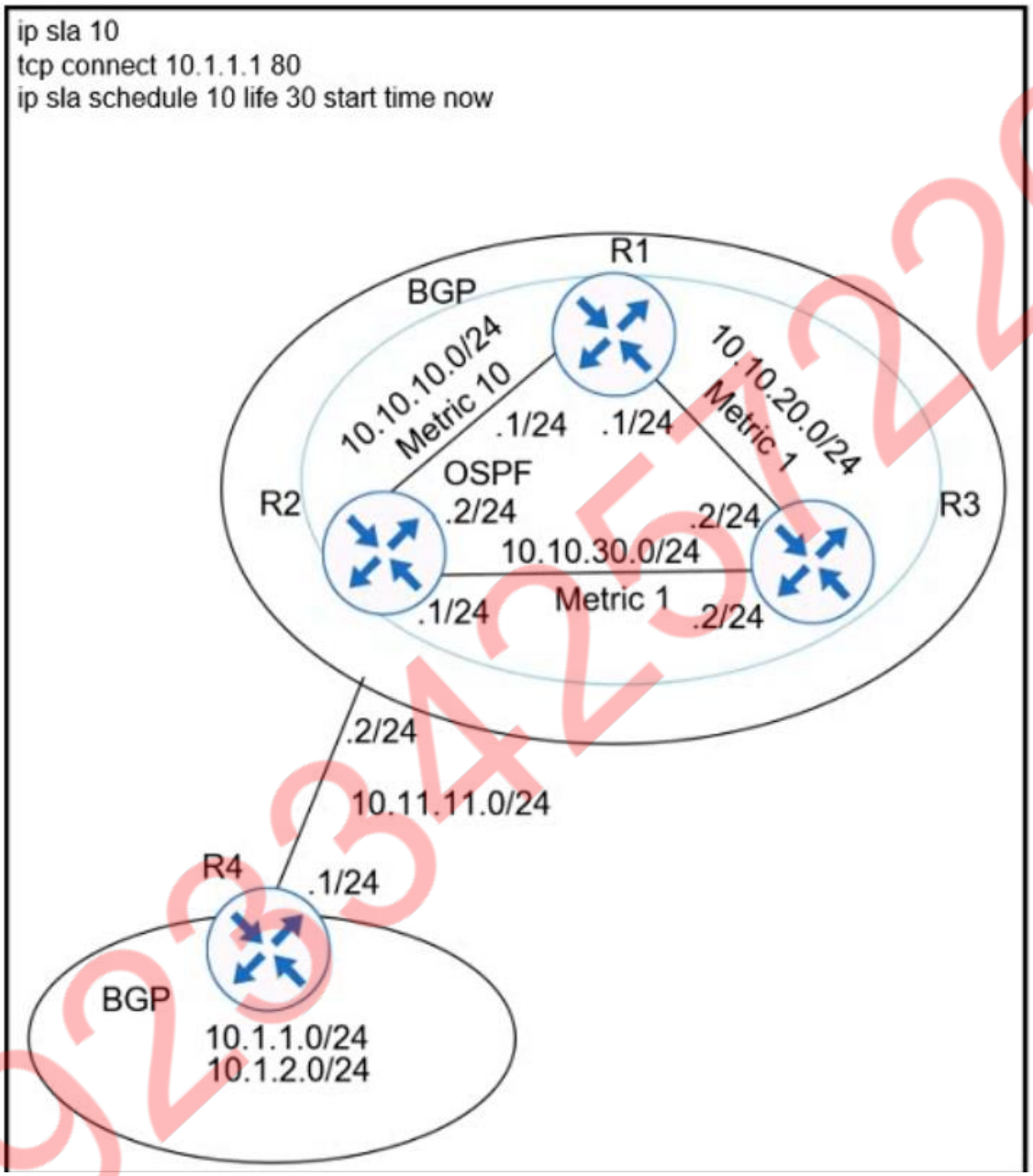
- Packets are not forwarded to the specific next hop.
- Packets are forwarded based on the routing table.
- Packets are forwarded based on a static route.
- Packets are forwarded to the specific next hop.

A DMVPN single hub topology is using IPsec + mGRE with OSPF. What should be configured on the hub to ensure it will be the designated router?

- OSPF priority to 0
- OSPF priority greater than 1
- route map to set the metrics of learned routes to 110
- tunnel interface of the hub with ip nhrp ospf dr

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Taken on 4th Sep




Refer to the exhibit. A user has set up an IP SLA probe to test if a non SLA host web server on IP address 10.1.1.1 accepts HTTP sessions prior to deployment. The probe is failing. Which action should the network administrator recommend for the probe to succeed?

- Add **icmp-echo** command for the host.
- Add the **control disable** option to the tcp connect.
- Re-issue the **ip sla schedule** command.
- Modify the **ip sla schedule frequency** to forever.

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Taken on 4th Sep

In which two ways does the IPv6 First-Hop Security Binding Table operate? (Choose two.)

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

An engineer configured a company's multiple area OSPF Head Office router and Site A Cisco routers with VRF lite. Each site router is connected to a PE router of an MPLS backbone:

Head Office & Site A

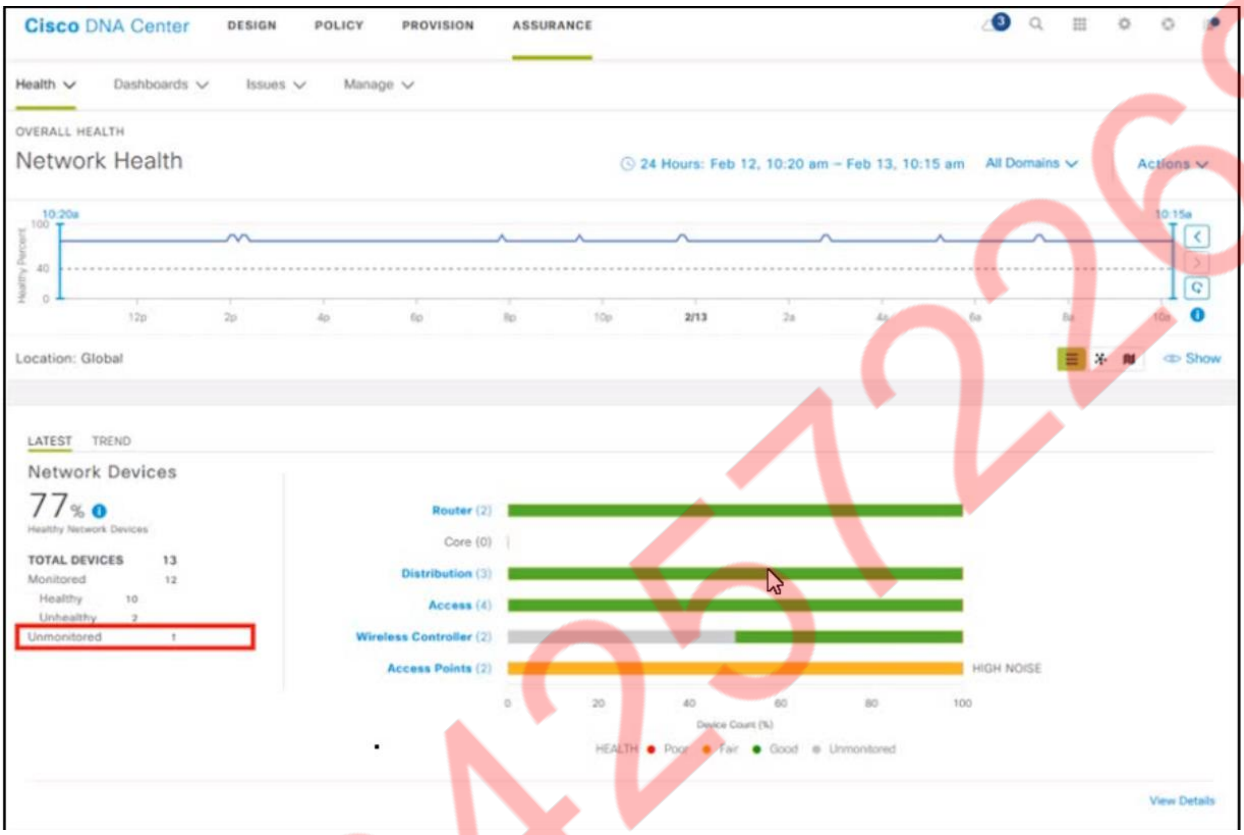
```
ip cef
ip vrf abc
rd 101:101
!
interface FastEthernet0/0
ip vrf forwarding abc
ip address 172.16.16.X 255.255.255.252
!
router ospf 1 vrf abc
log-adjacency-changes
network 172.16.16.0 0.0.0.255 area 1
```

After finishing both site router configurations, none of the LSA 3, 4, 5, and 7 are installed at Site A router. Which configuration resolves this issue?

- ( ) configure **capability vrf-lite** on Head Office and Site A routers under **router ospf 1 vrf abc**
- ( ) configure **capability vrf-lite** on Head Office and its connected PE router under **router ospf 1 vrf abc**
- ( ) configure **capability vrf-lite** on Site A and its connected PE router under **router ospf 1 vrf abc**
- (•) configure **capability vrf-lite** on both PE routers connected to Head Office and Site A routers under **router ospf 1 vrf abc**

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Taken on 4th Sep

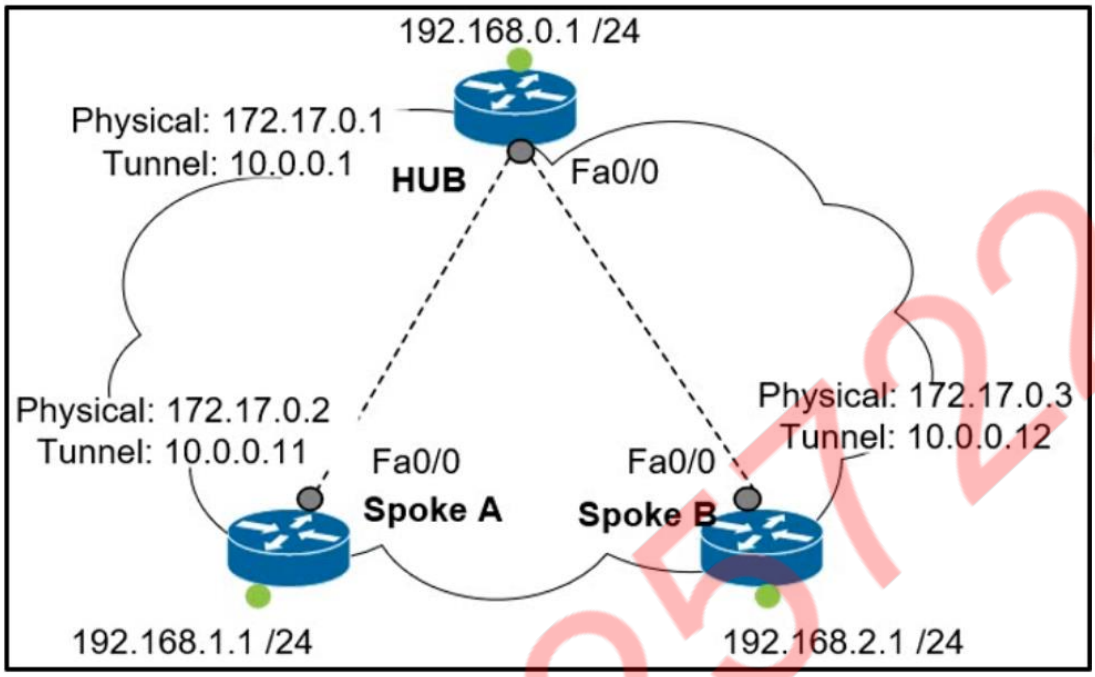



Refer to the exhibit. A network administrator added one router in the Cisco DNA Center and checked its discovery and health from the Network Health Dashboard. The network administrator observed that the router is still showing up as unmonitored. What must be configured on the router to mount it in the Cisco DNA Center?

- Configure router with NetFlow data.
- Configure router with SNMPv2c or SNMPv3 traps.
- Configure router with the telemetry data.
- Configure router with routing to reach Cisco DNA Center.

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Taken on 4th Sep




Refer to the exhibit. Which interface configuration must be configured on the HUB router to enable MVPN with mGRE mode?

- interface Tunnel0
  description mGRE - DMVPN Tunnel
  ip address 10.1.0.1 255.255.255.0
  ip nhrp map multicast dynamic
  ip nhrp network-id 1
  tunnel source 172.17.0.1
  ip nhrp map 10.0.0.11 172.17.0.2
  ip nhrp map 10.0.0.12 172.17.0.3
  tunnel mode gre

- interface Tunnel0
  description mGRE - DMVPN Tunnel
  ip address 10.0.0.1 255.255.255.0
  ip nhrp map multicast dynamic
  ip nhrp network-id 1
  tunnel source 10.0.0.1
  tunnel mode gre multipoint

- interface Tunnel0
  description mGRE - DMVPN Tunnel
  ip address 10.0.0.1 255.255.255.0
  ip nhrp network-id 1
  tunnel source 172.17.0.1
  tunnel mode gre multipoint

- interface Tunnel0
  description mGRE - DMVPN Tunnel
  ip address 10.0.0.1 255.255.255.0
  ip nhrp map multicast dynamic
  ip nhrp network-id 1
  tunnel source 10.0.0.1
  tunnel destination 172.17.0.2
  tunnel mode gre multipoint

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Taken on 4th Sep

```
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
```

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

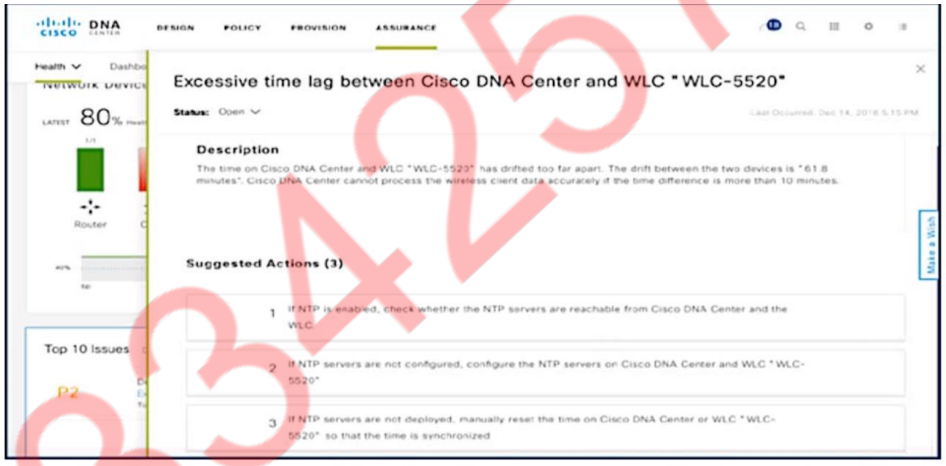
- Modify the CoPP policy to increase the configured exceeded limit for SNMP.
- Modify the access list to include snmptrap.
- Modify the CoPP policy to increase the configured CIR limit for SNMP.
- Modify the access list to add a second line to allow udp any any eq snmp.

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Taken on 4th Sep

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

- [x] LDP
- [ ] LSP
- [ ] MPLS OAM
- [ ] ECMP
- [x] RSVP

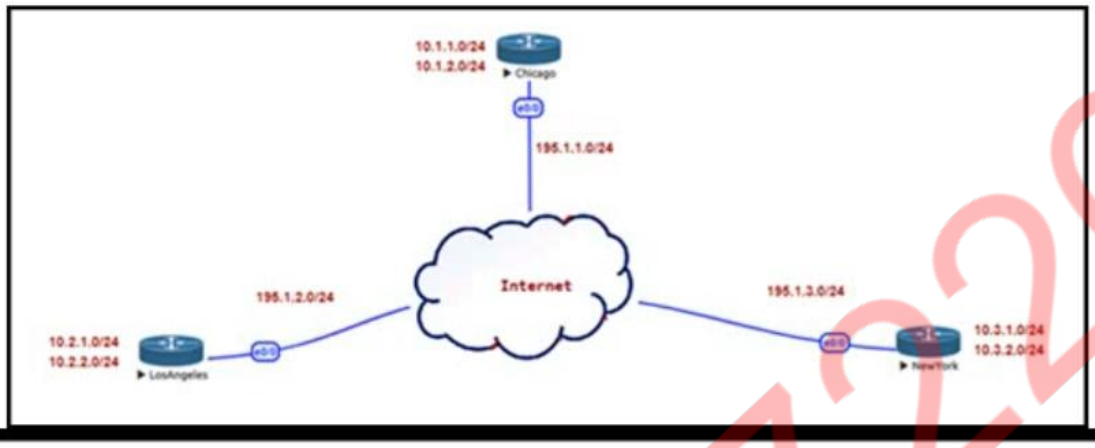



Refer to the exhibit. NTP is configured across the network infrastructure and Cisco DNA Center. An NTP issue was reported on the Cisco DNA Center at 17:15. Which action resolves the issue?

- Check and resolve reachability between Cisco DNA Center and the NTP server.
- Check and resolve reachability between the WLC and the NTP server.
- Reset the NTP server to resolve any synchronization issues for all devices.
- (•) Check and configure NTP on the WLC and synchronize with Cisco DNA Center.

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Taken on 4th Sep




**Chicago**

```
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 map multicast dynamic
 no ip next-hop-self eigrp 111
 tunnel protection ipsec profile IPSec-PROFILE
!
```

```
router eigrp 111
 network 192.168.1.0
 network 10.0.0.0
```

Refer to the exhibit. The Los Angeles and New York routers are receiving routes from Chicago but not from each other. Which configuration fixes the issue?

- interface Tunnel1
  tunnel protection ipsec profile IPSec-PROFILE
- interface Tunnel1
  tunnel mode ipsec ipv4
- interface Tunnel1
  ip next-hop-self eigrp 111
- interface Tunnel1
  no ip split-horizon eigrp 111

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Taken on 4th Sep

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

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

- 172.18.16.2
- 172.18.46.2
- 192.168.1.4
- 192.168.1.1

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

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

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

+923345722268

Taken on 4th Sep

**LA**

```
router ospf 1
 network 192.168.12.0 0.0.0.255 area 0
 network 172.16.1.0 0.0.0.255 area 0
```

**NY**

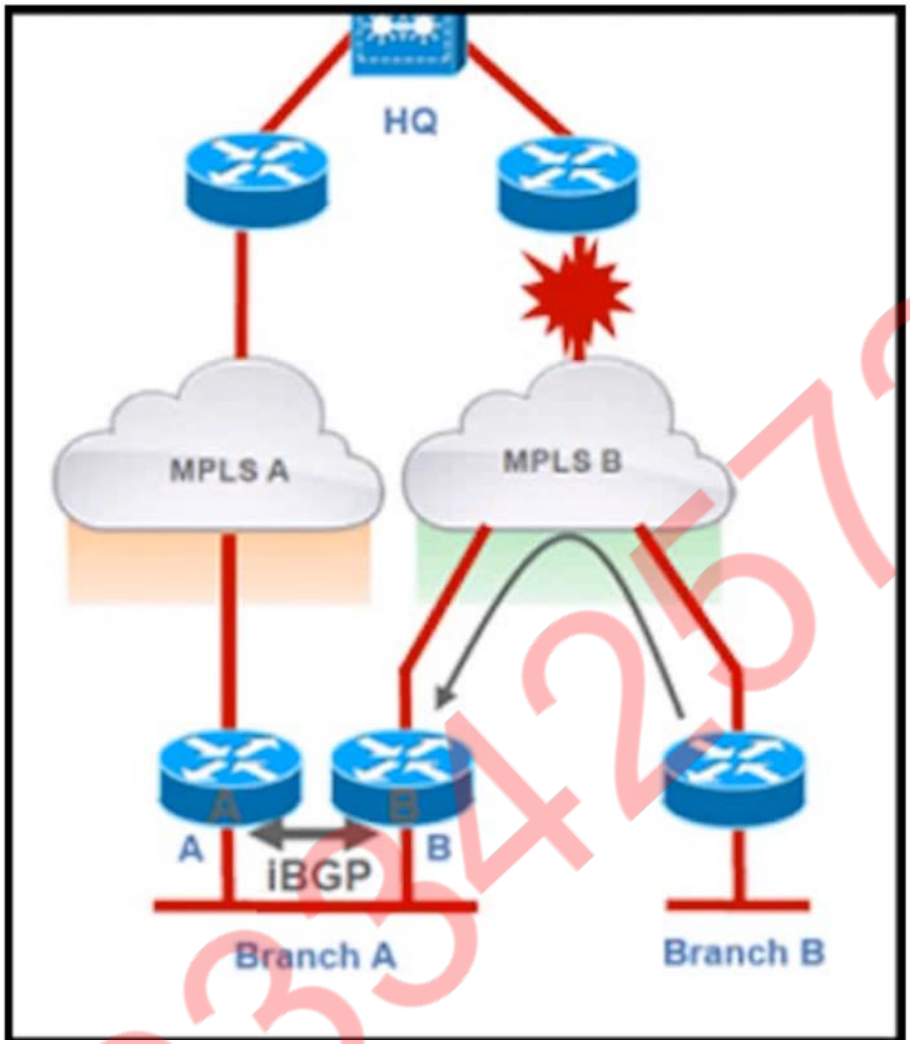
```
router ospf 1
 network 192.168.12.0 0.0.0.255 area 0
 network 172.16.2.0 0.0.0.255 area 0
!
interface E 0/0
 ip ospf authentication message-digest
 ip ospf message-digest-key 1 md5 Cisco123
```

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

- [ ] LA
  router ospf 1
  area 0 authentication message-digest
- [ ] NY
  router ospf 1
  area 0 authentication message-digest
- [x] LA
  interface E 0/0
  ip ospf message-digest-key 1 md5 Cisco123
- [ ] NY
  interface E 0/0
  no ip ospf message-digest-key 1 md5 Cisco123
  ip ospf authentication-key Cisco123
- [x] LA
  interface E 0/0
  ip ospf authentication-key Cisco123

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Taken on 4th Sep




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Refer to the exhibit. Troubleshoot and ensure that branch B only ever uses the MPLS B network to reach HQ. Which action achieves this requirement?

- Introduce AS path prepending on the branch A MPLS B network connection so that any HQ advertisements from branch A toward the MPLS B network are prepended three times.
- Modify the weight of all HQ prefixes received at branch B from the MPLS B network to be higher than the weights used on the MPLS A network.
- Increase the local preference for all HQ prefixes received at branch B from the MPLS B network to be higher than the local preferences used on the MPLS A network.
- Introduce an AS path filter on branch A routers so that only local prefixes are advertised into BGP.

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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?

- Configure syslog level 2.
- Configure syslog level 3.
- Configure syslog level 4.
- Configure syslog level 5.

**Debug output:**

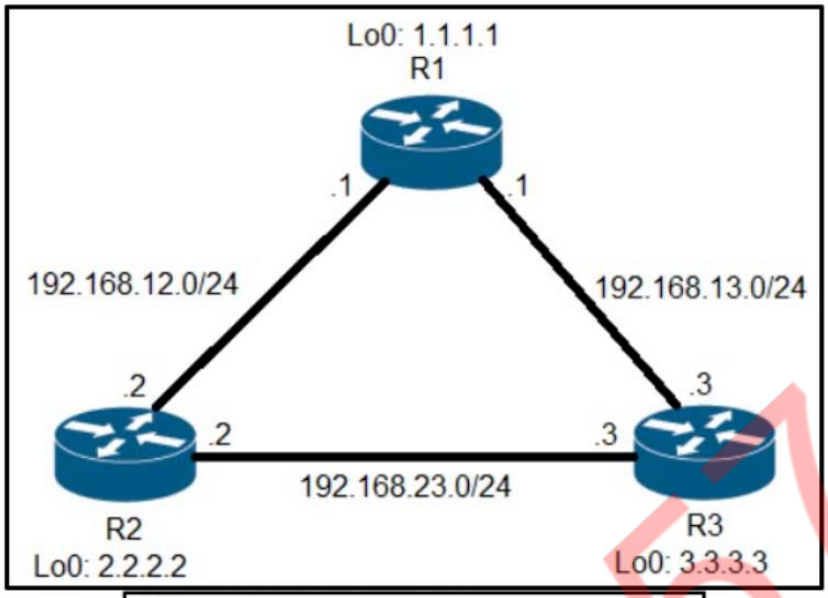
```
username: USER55
password:
Aug 26 12:39:23.813: TPLUS: Queuing AAA Authentication request 4950 for processing
Aug 26 12:39:23.813: TPLUS(00001356) login timer started 1020 sec timeout
Aug 26 12:39:23.813: TPLUS: processing authentication continue request id 4950
Aug 26 12:39:23.813: TPLUS: Authentication continue packet generated for 4950
Aug 26 12:39:23.813: TPLUS(00001356)/0/WRITE/3A72C8D0: Started 5 sec timeout
!
!----- output omitted -----!
!
Aug 26 12:40:01.241: TAC+: using previously set server 192.168.1.3 from group tacacs+
Aug 26 12:40:01.241: TAC+: Opening TCP/IP to 192.168.1.3/49 timeout=5
Aug 26 12:40:01.249: TAC+: Opened TCP/IP handle 0x3BE31D1C to 192.168.1.3/49
Aug 26 12:40:01.249: TAC+: Opened 192.168.1.3 index=1
Aug 26 12:40:01.250: TAC+: 192.168.1.3 (3653537180) AUTHOR/START queued
Aug 26 12:40:01.449: TAC+: (3653537180) AUTHOR/START processed
Aug 26 12:40:01.449: TAC+: (-641430116): received author response status = FAIL
Aug 26 12:40:01.450: TAC+: Closing TCP/IP 0x3BE31D1C connection to 192.168.1.3/49
```

Refer to the exhibit. A network administrator logs into the router using TACACS+ username and password credentials, but the administrator cannot run any privileged commands. Which action resolves the issue?

- Configure TACACS+ synchronization with the Active Directory admin group.
- Configure the username from a local database.
- Configure an authorized IP address for this user to access this router.
- Configure full access for the username from TACACS+ server.

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

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

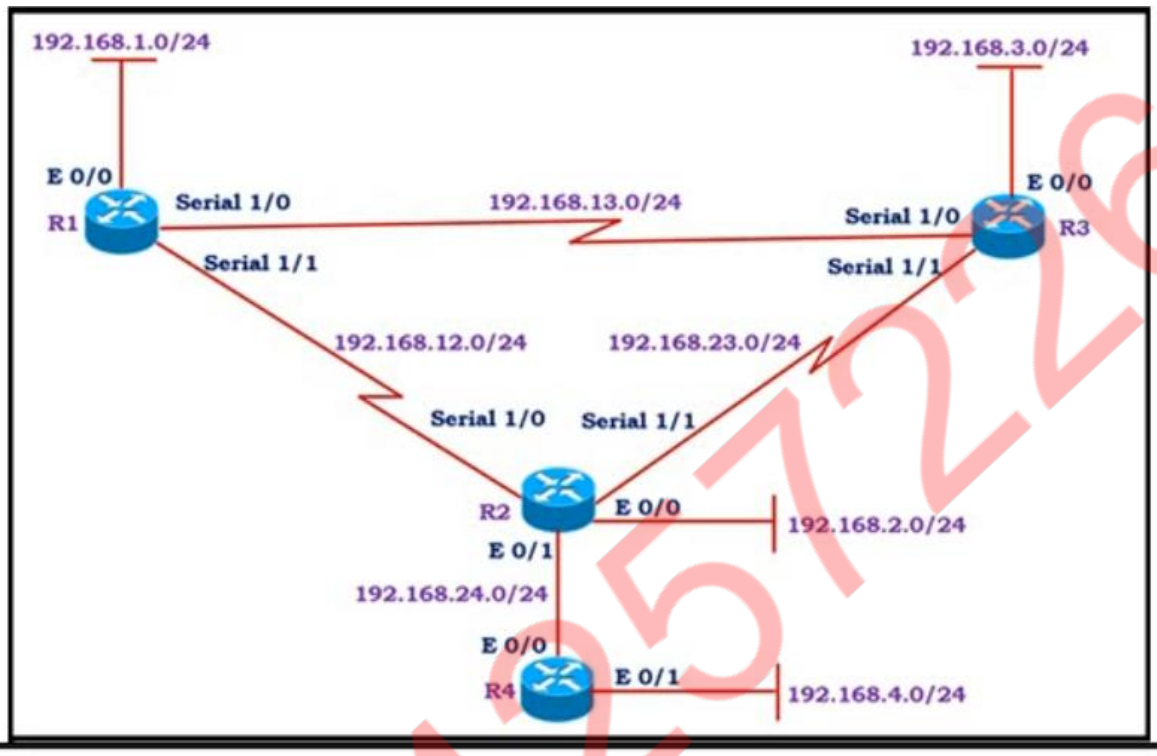
R2#show ip route 192.168.13.0
Routing entry for 192.168.13.0/24
  Known via "eigrp 1", distance 90, metric 1075200, type internal
  Redistributing via eigrp 1
  Last update from 192.168.23.3 on FastEthernet0/1, 00:00:57 ago
  Routing Descriptor Blocks:
  * 192.168.23.3, from 192.168.23.3, 00:00:57 ago,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

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

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

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**# Show IP route on R1**

192.168.1.0/24 is variably subnetted, 2 subnets, 2 masks

```
C       192.168.1.0/24 is directly connected, Ethernet0/0
L       192.168.1.1/32 is directly connected, Ethernet0/0
D       192.168.2.0/24 [90/2297856] via 192.168.12.2, 00:02:14, Serial1/1
S       192.168.3.0/24 [1/0] via 192.168.12.2
      192.168.12.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.12.0/24 is directly connected, Serial1/1
L       192.168.12.1/32 is directly connected, Serial1/1
      192.168.13.0/24 is variably subnetted, 2 subnets, 2 masks
C       192.168.13.0/24 is directly connected, Serial1/0
L       192.168.13.1/32 is directly connected, Serial1/0
D     192.168.23.0/24 [90/2681856] via 192.168.13.3, 00:06:38, Serial1/0
                      [90/2681856] via 192.168.12.2, 00:06:38, Serial1/1
D     192.168.24.0/24 [90/2195456] via 192.168.12.2, 00:06:38, Serial1/1
```

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

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

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Congratulations, you have achieved a score of 932
A minimum of 825 is required.
Scoring is based on a scale of 300 to 1000 points.

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