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Vendor:Juniper

Exam Code:JN0-649

Exam Name:Enterprise Routing and Switching
Professional (JNCIP-ENT)

Version:Demo

QUESTION 1

You are deploying IP phones in your enterprise networks. When plugged in, the IP phones must be automatically provided with the correct VLAN ID needed for sending voice traffic to the EX Series switches.

In this scenario, which two solutions are required to accomplish this task? (Choose two.)

- A. Enable LLDP-MED on appropriate access interfaces.
- B. Create two VLANs and assign them as VLAN members to the appropriate access interfaces.
- C. Enable the voice VLAN feature with the appropriate access interfaces and VLAN ID for voice traffic.
- D. Use LLDP on appropriate interfaces.

Correct Answer: AC

QUESTION 2

Your EX Series switch has IP telephones and computers connected to a single switch port. You are considering implementing the voice VLAN feature to help with this setup. In this scenario, which two statements are correct? (Choose two.)

- A. The voice VLAN feature must be used with LLDP-MED to associate VLAN ID and 802.1p values with the traffic.
- B. The interfaces must be configured as access ports.
- C. Assigning the incoming voice and data traffic to separate VLANs enables the ability to prioritize the traffic using CoS.
- D. The voice VLAN feature will enable incoming tagged data and voice traffic to be associated with separate VLANs.

Correct Answer: BC

QUESTION 3

Referring to the exhibit, which two statements are correct? (Choose two.)

```

(master:0)[edit protocols mstp]
user@DS-1# show
configuration-name Region-1;
revision-level 1;
interface ge-0/0/8;
interface ge-0/0/9;
interface ge-0/0/10;
interface ge-0/0/12;
msti 1 {
    bridge-priority 4k;
    vlan 10-19;
}
msti 2 {
    bridge-priority 8k;
    vlan 20-29;
}
(master:0)[edit protocols mstp]
user@DS-2# show
configuration-name Region-1;
revision-level 1;
interface ge-0/0/8;
interface ge-0/0/9;
interface ge-0/0/10;
interface ge-0/0/12;
msti 1 {
    bridge-priority 8k;
    vlan 10-19;
}

```

- A. The DS-2 switch will be root bridge for MSTI 2.
- B. The DS-1 switch will be root bridge for MSTI 1.
- C. The DS-1 switch will be root bridge for MSTI 2.
- D. The DS-2 switch will be root bridge for MSTI 1.

Correct Answer: CD

Bridge priority is to determine which bridge becomes the designated bridge.

QUESTION 4

You are asked to troubleshoot voice quality issues on your newly implement VoIP network. You notice that the voice packets are being dropped. You have verified that the packets are correctly marked for expedited forwarding queue.

Referring to the exhibit, what must you configure to solve the problem?

```

[edit]
user@R1# show class-of-service
classifiers {
  dscp voip {
    import default;
  }
}
interfaces {
  ge-1/0/0 {
    unit 0 {
      classifiers {
        dscp voip;
      }
    }
  }
}
user@R1> show interfaces ge-1/0/0 extensive
Physical interface: ge-1/0/0, Enabled, Physical link is Up
Interface index: 154, SNMP ifIndex: 527, Generation: 157
Link-level type: Ethernet, MTU: 1514, MRU: 1522, LAN-PHY mode, Speed: 1000mbps, BFDU Error: None, Loop Detect PDU Error:
None,
Ethernet-Switching Error: None, MAC-REWRITE Error: None, Loopback: Disabled, Source filtering: Disabled, Flow control:
Enabled,
Auto-negotiation: Enabled, Remote fault: Online
Pad to minimum frame size: Disabled
Media type: Copper
Device flags : Present Running
Interface flags: SNMP-Traps Internal: 0x4000

Auto-negotiation: Enabled, Remote fault: Online
Pad to minimum frame size: Disabled
Media type: Copper
Device flags : Present Running
Interface flags: SNMP-Traps Internal: 0x4000
Link flags : None
CoS queues : 8 supported, 8 maximum usable queues
Schedulers : 0
Hold-times : Up 0 ms, Down 0 ms
Damping : half-life: 0 sec, max-suppress: 0 sec, reuse: 0, suppress: 0, state: unsuppressed
Current address: 4c:96:14:93:9a:95, Hardware address: 4c:96:14:93:9a:95
Last flapped : 2022-05-16 11:44:33 PDT (21:23:22 ago)
Statistics last cleared: Never
Traffic statistics:
Input bytes : 894761 0 bps
Output bytes : 681004 240 bps
Input packets: 13083 0 pps
Output packets: 11321 0 pps
IPv6 transit statistics:
Input bytes : 0
Output bytes : 0
Input packets: 0
Output packets: 0
Dropped traffic statistics due to STP State:
Input bytes : 0
Output bytes : 0
Input packets: 0
Output packets: 0
Input errors:

Errors: 0, Drops: 0, Framing errors: 0, Runts: 0, Policed discards: 0, L3 incompletes: 0, L2 channel errors: 0, L2
mismatch timeouts: 0,
FIFO errors: 0, Resource errors: 0
Output errors:
Carrier transitions: 1, Errors: 0, Drops: 0, Collisions: 0, Aged packets: 0, FIFO errors: 0, HS link CRC errors: 0,
MTU errors: 0,
Resource errors: 0
Egress queues: 8 supported, 4 in use
Queue counters: Queued packets Transmitted packets Dropped packets
0 430544 8126 456123
1 4294 1654 2817
2 0 0 0
3 11194 11194 0
Queue number: Mapped forwarding classes
0 best-effort
1 expedited-forwarding
2 assured-forwarding
3 network-control
Active alarms : None
Active defects : None
PCS statistics Seconds
Bit errors 0
Errored blocks 0
Ethernet FEC statistics Errors
FEC Corrected Errors 0

```

```

FEC Uncorrected Errors          0
FEC Corrected Errors Rate      0
FEC Uncorrected Errors Rate    0
MAC statistics:
  Receive          Transmit
Total octets        947941    752356
Total packets      13084     11320
Unicast packets     92         93
Broadcast packets  37         34
Multicast packets  12955    11193
CRC/Align errors    0         0
FIFO errors         0         0
MAC control frames  0         0
MAC pause frames   0         0
Oversized frames   0         0
Jabber frames      0         0
Fragment frames    0         0
VLAN tagged frames  0         0
Code violations     0         0
Total errors        0         0
Filter statistics:
Input packet count    13083
Input packet rejects  0
Input DA rejects     0
Input SA rejects     0
Output packet count   11320
Output packet pad count 0
Output packet error count 0
CAM destination filters: 0, CAM source filters: 0
Autonegotiation information:

Fragment frames      0
VLAN tagged frames   0
Code violations      0
Total errors         0
Filter statistics:
Input packet count    13083
Input packet rejects  0
Input DA rejects     0
Input SA rejects     0
Output packet count   11320
Output packet pad count 0
Output packet error count 0
CAM destination filters: 0, CAM source filters: 0
Autonegotiation information:
Negotiation status: Complete
Link partner:
  Link mode: Full-duplex, Flow control: Symmetric/Asymmetric, Remote fault: OK
Local resolution:
  Flow control: Symmetric, Remote fault: Link OK
Packet Forwarding Engine configuration:
Destination slot: 0 (0x00)
CoS information:
Direction : Output
CoS transmit queue      Bandwidth      Buffer Priority  Limit
                        %      bps      %      usec
0 best-effort           95      950000000  95      0      low  none
3 network-control       5       500000000  5       0      low  none
Interface transmit statistics: Disabled

```

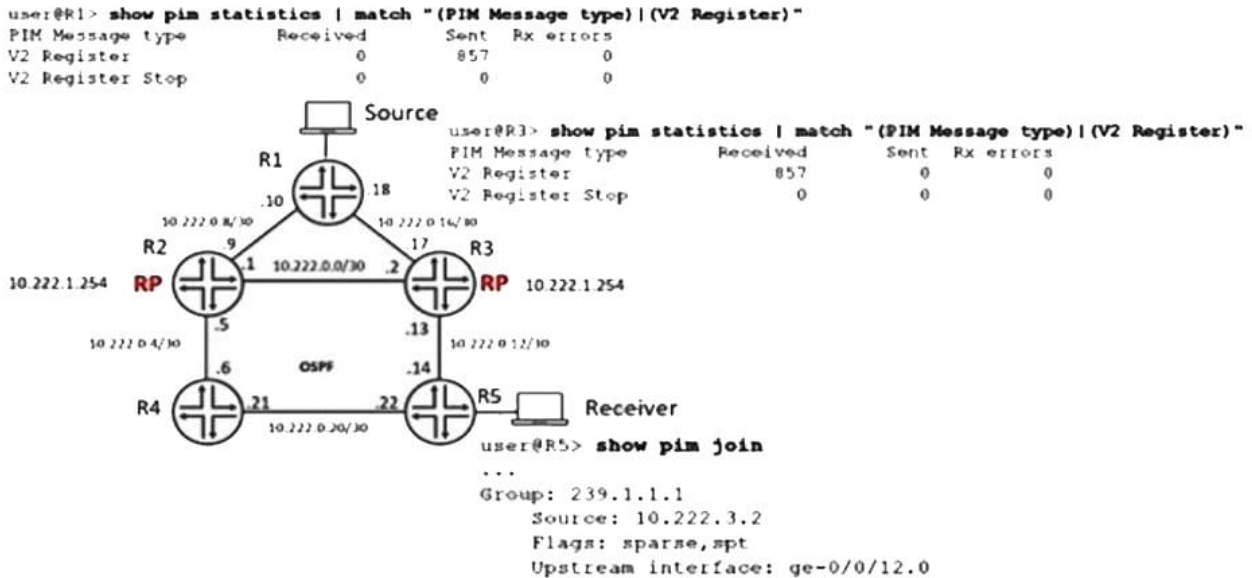
- A. You must configure a multifield classifier to put the VoIP traffic in the correct queue.
- B. You must configure a rewrite rule to ensure that the traffic is scheduled properly in the device.
- C. You must configure a scheduler to allocate bandwidth to the expedited forwarding queue.
- D. You must configure a policer to ensure that the queue is not being starved.

Correct Answer: C

QUESTION 5

Referring to the exhibit, anycast RP is implemented to ensure multicast service availability. The source is currently sending multicast traffic using group 239.1.1.1 and R3 is receiving PIM register messages, but R2 does not have active source information.

In this scenario, what are two methods to receive the active source information on R2? (Choose two.)



- A. Configure an RP set in PIM on R1, allowing R1 to forward PIM register messages to R2 and R3 in the set.
- B. Configure an MSDP protocol between R2 and R3.
- C. Configure an RP set in PIM on R2 and R3, allowing the RPs to forward PIM register messages to the other RPs in the set.
- D. Configure an MSDP protocol between R1 and R2.

Correct Answer: AC

<https://www.juniper.net/documentation/us/en/software/junos/multicast/topics/ref/statement/rp-set-edit-protocols-pim.html>

QUESTION 6

You are running OSPF as your IGP. The interfaces connecting two routers are in the ExStart state. You notice that something is incorrect with the configuration. Referring to the exhibit, which statement is correct?

```

user@R2> show ospf neighbor
Address          Interface          State              ID                 Pri   Dead
10.0.0.2         ge-0/0/2.0        ExStart           192.168.1.1       128   36
10.0.0.10        ge-0/0/3.0        Full              192.168.1.3       128   38
user@R2> show ospf interface ge-0/0/2.0 detail
Interface        State   Area           DR ID             BDR ID           Nbrs
ge-0/0/2.0       DR     0.0.0.0        192.168.1.2      192.168.1.1      1
  Type: LAN, Address: 10.0.0.1, Mask: 255.255.255.252, MTU: 1500, Cost: 1
  DR addr: 10.0.0.1, BDR addr: 10.0.0.2, Priority: 128
  Adj count: 0
  Hello: 10, Dead: 40, ReXmit: 5, Not Stub
  Auth type: None
  Protection type: None
  Topology default (ID 0) -> Cost: 1
user@R1> show ospf interface ge-0/0/2.0 detail
Interface        State   Area           DR ID             BDR ID           Nbrs
ge-0/0/2.0       BDR    0.0.0.0        192.168.1.2      192.168.1.1      1
  Type: LAN, Address: 10.0.0.2, Mask: 255.255.255.252, MTU: 9164, Cost: 1
  DR addr: 10.0.0.1, BDR addr: 10.0.0.2, Priority: 128
  Adj count: 0
  Hello: 10, Dead: 40, ReXmit: 5, Not Stub
  Auth type: None
  Protection type: None
  Topology default (ID 0) -> Cost: 1

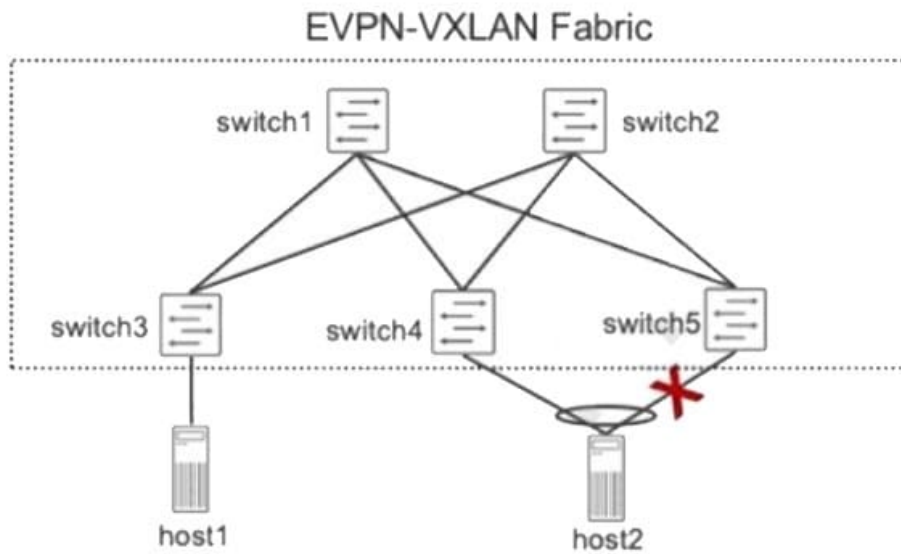
```

- A. The subnet mask is incorrect.
- B. The MTU setting are incorrect.
- C. The interface type is incorrect.
- D. The IP addresses are incorrect.

Correct Answer: B

QUESTION 7

Referring to the exhibit, which statement is correct when a failure exists on the link between host2 and switch5 on this EVPN-VXLAN fabric?

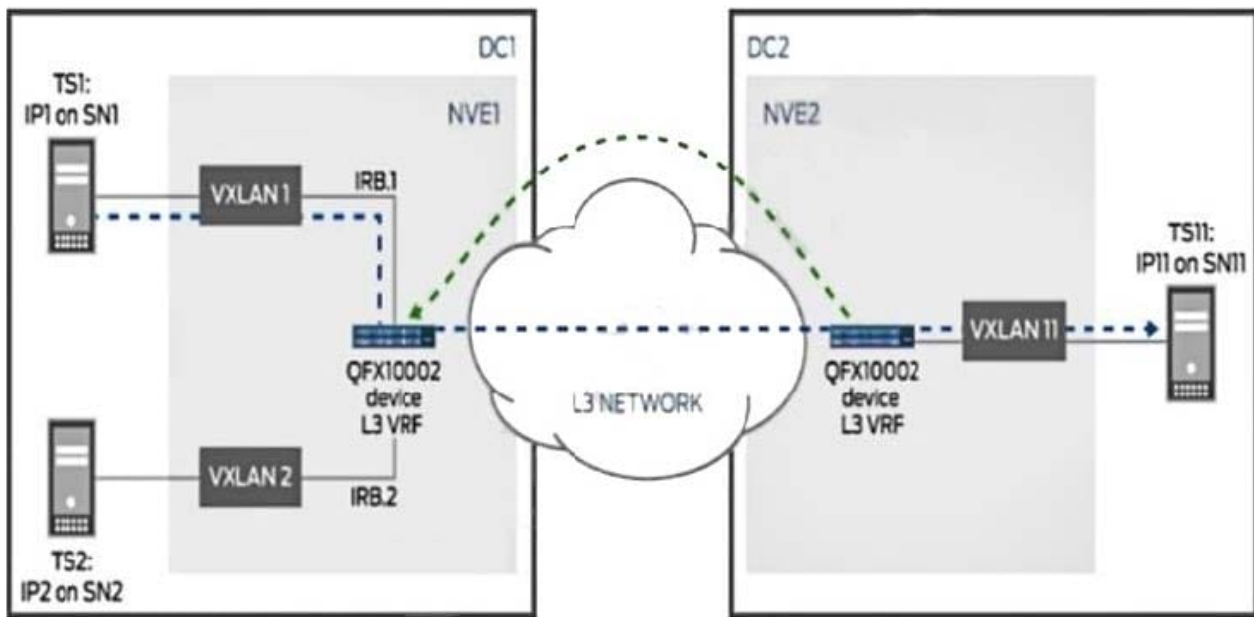


- A. The switch5 device will send a Type 2 route to all peers.
- B. The switch5 device will send a Type 4 route to all peers.
- C. The switch5 device will send a Type 1 route to all peers.
- D. The switch5 device will send a Type 3 route to all peers.

Correct Answer: D

QUESTION 8

The connection between DC1 and DC2 is routed as shown in the exhibit. In this scenario, which statement is correct?



- A. The border devices must be able to perform Layer 3 routing and provide IRB functionality.
- B. L3VPN must be enabled to advertise reachability.
- C. An IP prefix route provides encoding for intra-subnet forwarding.
- D. Type 2 and Type 5 routes will be exchanged between DC1 and DC2.

Correct Answer: A

<https://www.juniper.net/documentation/us/en/software/junos/evpn-vxlan/topics/concept/evpn-route-type5-understanding.html>

QUESTION 9

You are asked to establish interface level authentication for users connecting to your network. You must ensure that only corporate devices, identified by MAC addresses, are allowed to connect and authenticate. Authentication must be handled by a centralized server to increase scalability.

Which authentication method would satisfy this requirement?

- A. MAC RADIUS
- B. captive portal
- C. 802.1X with single-secure supplicant mode
- D. 802.1X with multiple supplicant mode

Correct Answer: A

<https://www.juniper.net/documentation/us/en/software/junos/user-access/topics/topic-map/mac-radius-authentication-switching-devices.html>

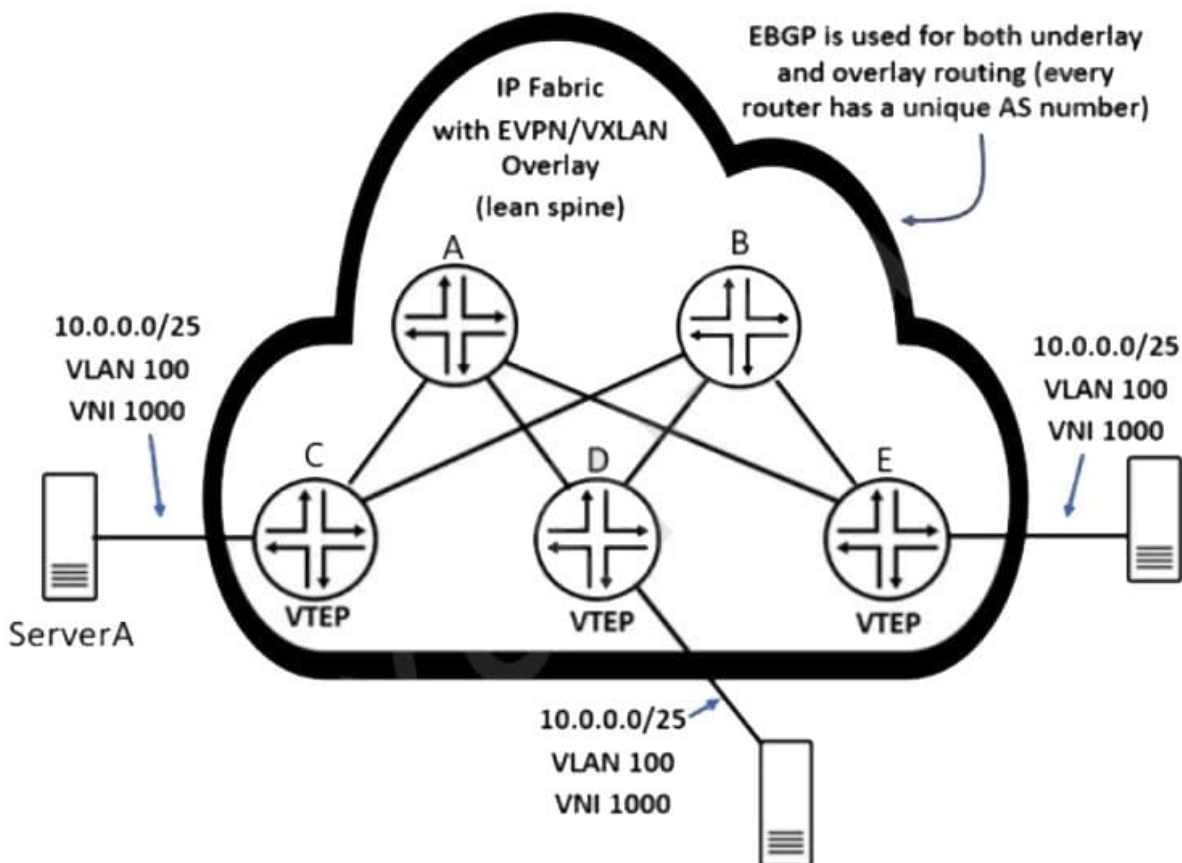
You can configure MAC RADIUS authentication on an interface that also allows 802.1X authentication, or you can configure either authentication method alone.

If both MAC RADIUS and 802.1X authentication are enabled on the interface, the switch first sends the host three EAPoL requests to the host. If there is no response from the host, the switch sends the host's MAC address to the RADIUS server to check whether it is a permitted MAC address. If the MAC address is configured as permitted on the RADIUS server, the RADIUS server sends a message to the switch that the MAC address is a permitted address, and the switch opens LAN access to the nonresponsive host on the interface to which it is connected.

QUESTION 10

Referring to the exhibit, ServerA sends a single IP packet destined to 10.0.0.127.

Which two statements correctly describe the behavior of the resulting outbound VXLAN packets that contain the original packet destined to 10.0.0.127? (Choosetwo.)



- A. Router E will replicate and send a copy of the received VXLAN packet to router D.
- B. Router C will send a VXLAN packet destined only to router D and router E.
- C. Router D will not replicate and send a copy of the received VXLAN packet to router E.
- D. Router C will send a single VXLAN packet to one remote VTEP.

Correct Answer: AD

QUESTION 11

Referring to the outputs shown in the exhibit, which two statements are correct about the IS-IS adjacency? (Choose two.)

```
user@R1> show isis adjacency extensive
R2
  Interface: ge-1/0/0.0, Level: 2, State: Up, Expires in 7 secs
  Priority: 64, Up/Down transitions: 1, Last transition: 00:02:19 ago
  Circuit type: 2, Speaks: IP, IPv6, MAC address: 4c:96:14:93:9a:96
  Topologies: Unicast
  Restart capable: Yes, Adjacency advertisement: Advertise
  LAN id: R2.02, IP addresses: 10.1.1.2
  Transition log:
  When                State      Event      Down reason
  Mon May 16 11:53:33  Up        Seenself
user@R2> show isis adjacency extensive
R1
  Interface: ge-1/0/1.0, Level: 2, State: Up, Expires in 20 secs
  Priority: 64, Up/Down transitions: 1, Last transition: 00:01:55 ago
  Circuit type: 3, Speaks: IP, IPv6, MAC address: 4c:96:14:93:9a:95
  Topologies: Unicast
  Restart capable: No, Adjacency advertisement: Advertise
  LAN id: R2.02, IP addresses: 10.1.1.1
  Transition log:
  When                State      Event      Down reason
  Mon May 16 11:53:33  Up        Seenself
```

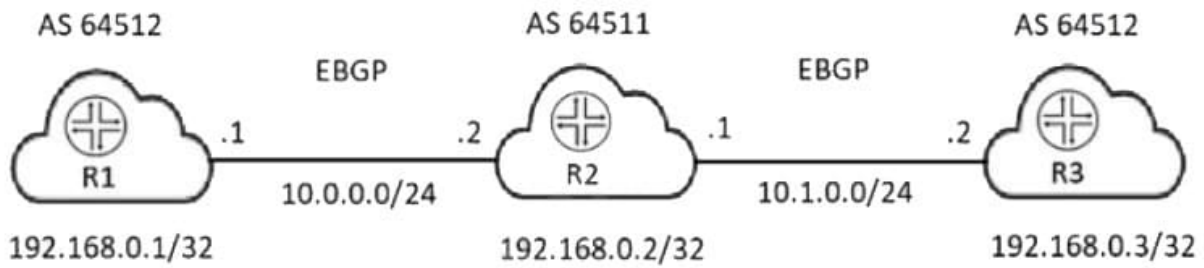
- A. R1 is configured to participate in both Level 1 and Level 2.
- B. R2 is configured to participate in both Level 1 and Level 2.
- C. R1 is configured to participate in Level 2 only.
- D. R2 is configured to participate in Level 2 only.

Correct Answer: AD

QUESTION 12

You are asked to establish full connectivity between all devices in the BGP network.

Referring to the exhibit, which two configuration changes will allow BGP route advertisements? (Choose two.)



- A. On R2, include the loops 2 statement at the [edit protocols bgp family inet unicast] hierarchy.
- B. On R1 and R3, include the loops 2 statement at the [edit protocols bgp family inet unicast] hierarchy.
- C. On R1 and R3, include the advertise-peer-as statement at the [edit protocols bgp group external] hierarchy.
- D. On R2, include the advertise-peer-as statement at the [edit protocols bgp group external] hierarchy.

Correct Answer: BD

<https://www.juniper.net/documentation/us/en/software/junos/bgp/topics/ref/statement/advertise-peer-as-edit-protocols-bgp.html>