

# JN0-649<sup>Q&As</sup>

Enterprise Routing and Switching Professional (JNCIP-ENT)

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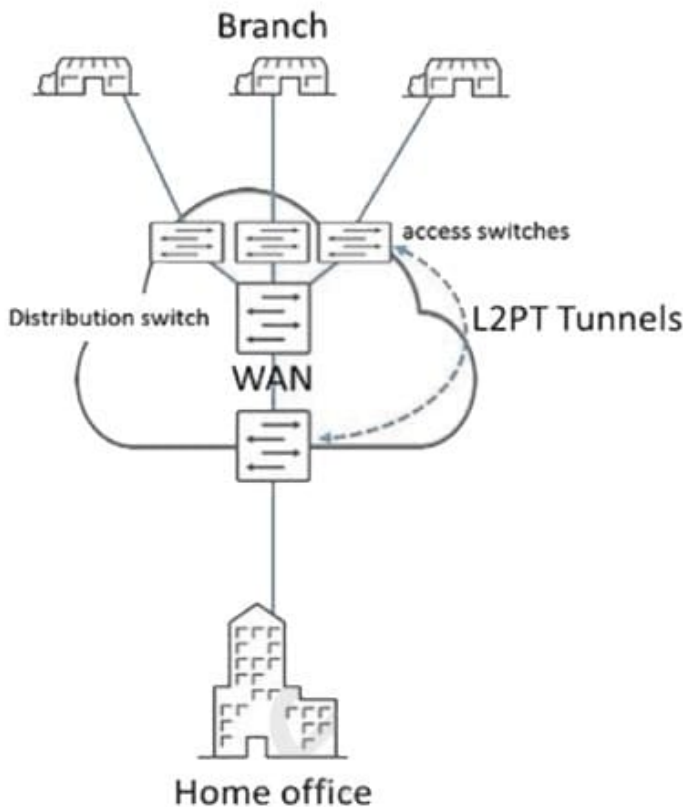
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**QUESTION 1**

Remote branches connect to the corporate WAN through access switches. The access switches connect to access ports on the WAN distribution switch, as shown in the exhibit. L2PT has previously been configured on the tunnel Layer 2 traffic across the WAN. You decide to move the L2PT tunnel endpoints to the access switches. When you apply the L2PT configuration to the access switches, the ports that connect the access switches to the distribution switch shut down.

Which action would solve this problem?



- A. Configure the links between the access switches and the distribution switch as a trunk port.
- B. Disable the BPDU block function on the access switches.
- C. Disable the BPDU block function on the distribution switch.
- D. Configure a GRE tunnel to encapsulate the L2PT traffic across the WAN.

Correct Answer: A

Access interfaces in an L2PT-enabled VLAN should not receive L2PT-tunneled PDUs. If an access interface does receive L2PT-tunneled PDUs, there might be a loop in the network, and the device will shut down the interface. <https://www.juniper.net/documentation/us/en/software/junos/multicast-l2/topics/topic-map/layer-2-protocol-tunneling.html>

**QUESTION 2**

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

```
user@switch> show poe interface
Interface      Admin      Oper      Max      Priority    Power      Class
status        status    power
ge-0/0/0      Enabled   OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/1      Enabled   OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/2      Enabled   OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/3      Enabled   OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/4      Enabled   OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/5      Enabled   OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/6      Enabled   OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/7      Enabled   OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/8      Enabled   OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/9      Enabled   OFF      15.4W    Low        0.0W      not-applicable
ge-0/0/10     Enabled   ON       25.4W(L) Low        11.0W     4
ge-0/0/11     Enabled   ON       25.4W(L) High       11.4W     4
(L) LLDP-negotiated value on the port.
user@switch> show poe controller
Controller      Maximum      Power      Guard      Management  Status      Lldp
index          power        consumption band
0              100.00W     22.40W     10W       Class      AT_MODE     Disabled
```

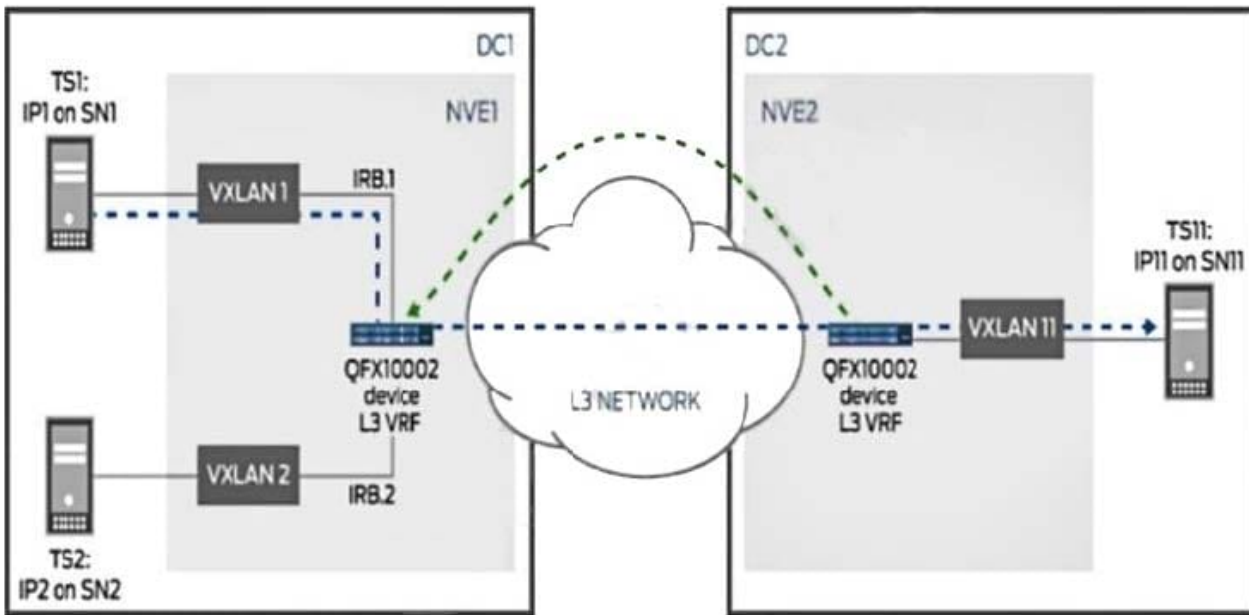
- A. The maximum wattage that this switch can allocate to attached Ethernet devices is 100 watts.
- B. If the total power consumption exceeds 90 watts, the ge-0/0/11 interface will continue to receive power.
- C. PoE is not enabled on the ge-0/0/0 interface.
- D. The ge-0/0/10 interface supports PoE+.

Correct Answer: AD

POE is enabled in the interface ge-0/0/0 but nothing is connected to it. switch is in AT mode (poe+) and interface ge-0/0/11 supports poe+ judging by maximum wattage

**QUESTION 3**

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 4**

You are deploying IP phones in your enterprise networks. When plugged in, the IP phones must automatically negotiate the power requirements for the new connection with the EX Series switches. In this scenario, which protocol should be used to enable this behavior?

- A. CDP
- B. MP-BGP
- C. LLDP-MED
- D. LLDP

Correct Answer: C

**QUESTION 5**

Your enterprise network is running BGP VPNs to support multitenancy. Some of the devices with which you peer BGP do not support the VPN NLRI. You must ensure that you do not send BGP VPN routes to the remote peer.

Which two configuration steps will satisfy this requirement? (Choose two.)

- A. Configure an import policy on the remote peer to reject the routes when they are received.
- B. Configure an export policy on the local BGP peer to reject the VPN routes being sent to the remote peer.
- C. Configure a route reflector for the VPN NLRI.
- D. Configure the apply-vpn-export feature on the local BGP peer.

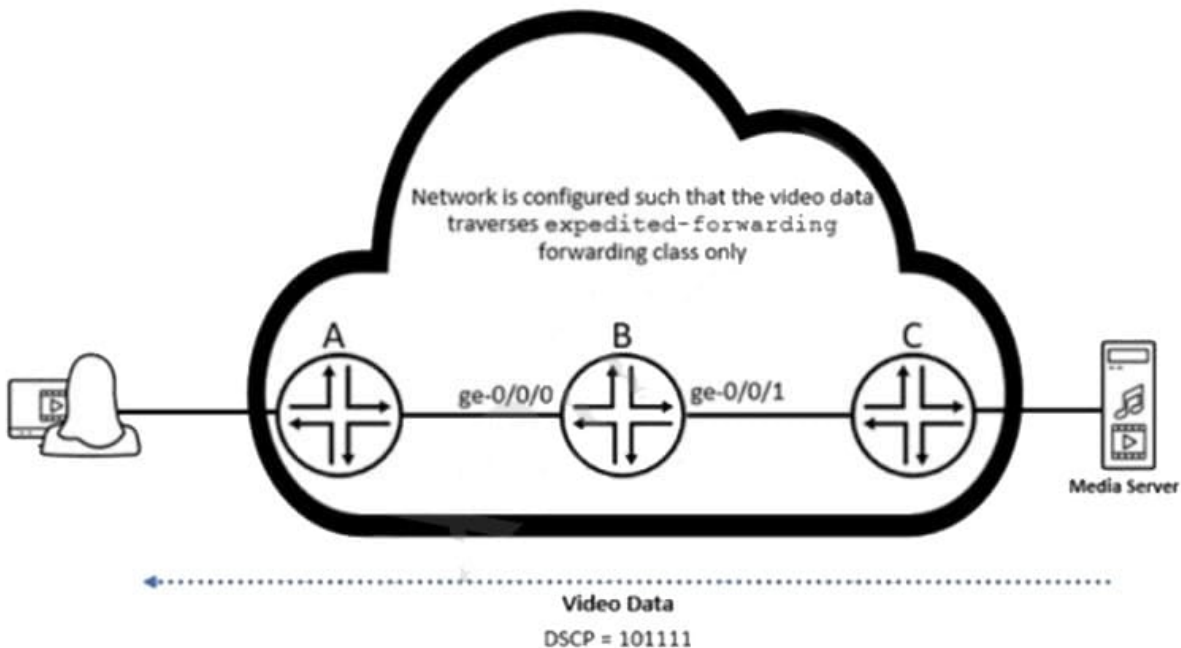
Correct Answer: BD

Apply both the VRF export and BGP group or neighbor export policies (VRF first, then BGP) before routes from the vrf or l2vpn routing tables are advertised to other PE routers. <https://www.juniper.net/documentation/us/en/software/junos/bg/topics/ref/statement/vpn-apply-export-edit-protocols-bgp-vp.html>

**QUESTION 6**

A user is attempting to watch a high-definition video being streamed from the mediaserver over the network. However, the user complains that the experienced video quality is poor. While logged on to router B, a Juniper Networks device, you notice that video packets are being dropped.

In this scenario, what would solve this problem?



- A. Adjust the scheduler for the expedited-forwarding forwarding class to support a higher transmit rate.
- B. Adjust the expedited-forwarding BA classifier to router B's ge-0/0/0 interface to support a higher transmit rate.
- C. Adjust the scheduler-map to support a higher transmit rate.

D. Adjust the expedited-forwarding BA classifier on router B's ge-0/0/1 interface to support a higher transmit rate.

Correct Answer: A

transmit rate is set on the scheduler, BA and classifier do not have transmit rate. scheduler-map=maps schedulers to fwd classes

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### QUESTION 7

You enable the Multiple VLAN Registration Protocol (MVRP) to automate the creation and management of virtual LANs.

Which statement is correct in this scenario?

- A. The forbidden mode does not register or declare VLANs.
- B. When enabled, MVRP affects all interfaces.
- C. Timers dictate when link state changes are propagated.
- D. MVRP works with RSTP and VSTP.

Correct Answer: A

The forbidden mode does not register or declare VLANs. You can change the registration mode of a specific interface to forbidden. An interface in forbidden registration mode does not participate in MVRP even if MVRP is enabled on the switch. <https://www.juniper.net/documentation/us/en/software/junos/multicast-l2/topics/topic-map/mvrp.html> MVRP is disabled by default on the switches and, when enabled, affects only trunk interfaces. Once you enable MVRP, all VLAN interfaces on the switch belong to MVRP (the default normal registration mode) and those interfaces accept PDU messages and send their own PDU messages. forbidden--The interface does not register or declare VLANs (except statically configured VLANs).

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### QUESTION 8

Your network is multihomed to two ISPs. The BGP sessions are established; however, the ISP peers are not receiving any routes.

Which two statements are correct about troubleshooting your configuration? (Choose two.)

- A. Verify the import policies on your router.
- B. Verify that the BGP routes are active in your routing table.
- C. Verify the export policies on your router.
- D. Verify that the multihop settings are configured on your router.

Correct Answer: CD

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### QUESTION 9

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

```
user@DS-1> show spanning-tree interface
Spanning tree interface parameters for VLAN 10
Interface      Port ID      Designated      Designated      Port      State  Role
                port ID      port ID          bridge ID      Cost
ge-0/0/7.0    128:521      128:521         4106.0019e25173c0  20000  FWD   DESG
ge-0/0/8.0    128:523      128:523         4106.0019e25173c0  20000  FWD   DESG
ge-0/0/9.0    128:525      128:525         4106.0019e25173c0  20000  FWD   DESG
...
Spanning tree interface parameters for VLAN 20
Interface      Port ID      Designated      Designated      Port      State  Role
                port ID      port ID          bridge ID      Cost
ge-0/0/7.0    128:521      128:523         4116.0019e2551d40  20000  BLK   ALT
ge-0/0/8.0    128:523      128:521         4116.0019e2551d40  20000  FWD   ROOT
ge-0/0/9.0    128:525      128:525         4116.0019e2551d40  20000  BLK   ALT
```

- A. BPDUs from the root bridge for VLAN 10 have been received on the ge-0/0/7.0 interface.
- B. DS-1 is the root bridge for VLAN 10.
- C. BPDUs from the root bridge for VLAN 20 have been received on the ge-0/0/7.0 interface.
- D. Default VSTP bridge priority values are configured.

Correct Answer: AC

**QUESTION 10**

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 EDT (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 11

You must provide network connectivity to hosts that fail authentication.

In this scenario, what would be used in a network secured with 802.1X to satisfy this requirement?

- A. Configure the native-vlan-id parameter on the port.
- B. Use the server-reject-vlan command to specify a guest VLAN.
- C. Configure a secondary IP address on the port for unauthenticated hosts.
- D. Configure the port as a spanning tree edge port.

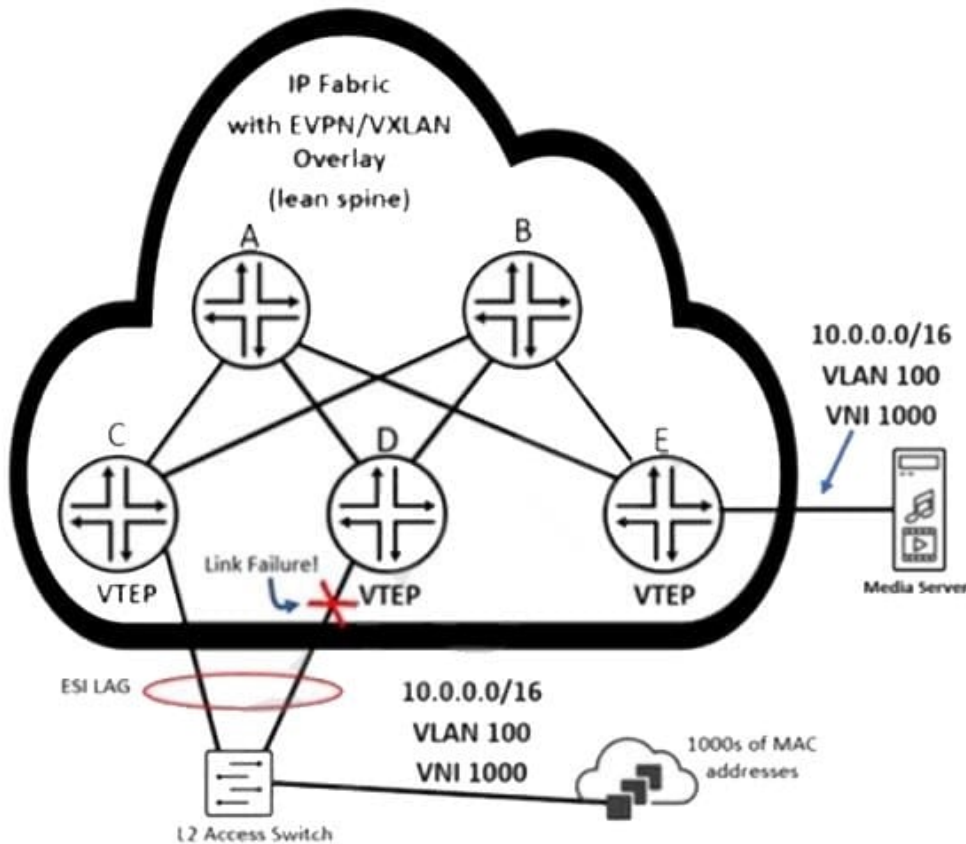
Correct Answer: B

For a device configured for 802.1X authentication, specify that when the device receives an Extensible Authentication Protocol Over LAN (EAPoL) Access-Reject message during the authentication process between the device and the RADIUS authentication server, supplicants attempting to access the LAN are granted access and moved to a specific bridge domain or VLAN. Any bridge domain, VLAN name or VLAN ID sent by a RADIUS server as part of the EAPoL Access-Reject message is ignored.

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#### QUESTION 12

Referring to the exhibit, how will router E quickly learn that the remote MAC addresses are no longer reachable through the router attached to the failed link?



- A. Router E receives Type 2 withdrawal messages from router D.
- B. Router E receives Type 1 withdrawal messages from router D.
- C. Router E receives Type 1 withdrawal messages from router C.
- D. Router E receives Type 2 withdrawal messages from router C.

Correct Answer: B

### QUESTION 13

You must ensure that all routes in the 10.0.0/8 address range are not advertised outside of your AS. Which well-known BGP community should be assigned to these addresses to accomplish this task?

- A. no-export
- B. no-peer
- C. internet
- D. no-advertise

Correct Answer: A

For specifying the BGP community attribute only, you also can specify community-ids as one of the following well-known community names defined in RFC 1997:

no-advertise--Routes containing this community name are not advertised to other BGP peers.

no-export--Routes containing this community name are not advertised outside a BGP confederation boundary.

no-export-subconfed--Routes containing this community are advertised to IBGP peers with the same AS number, but not to members of other confederations.

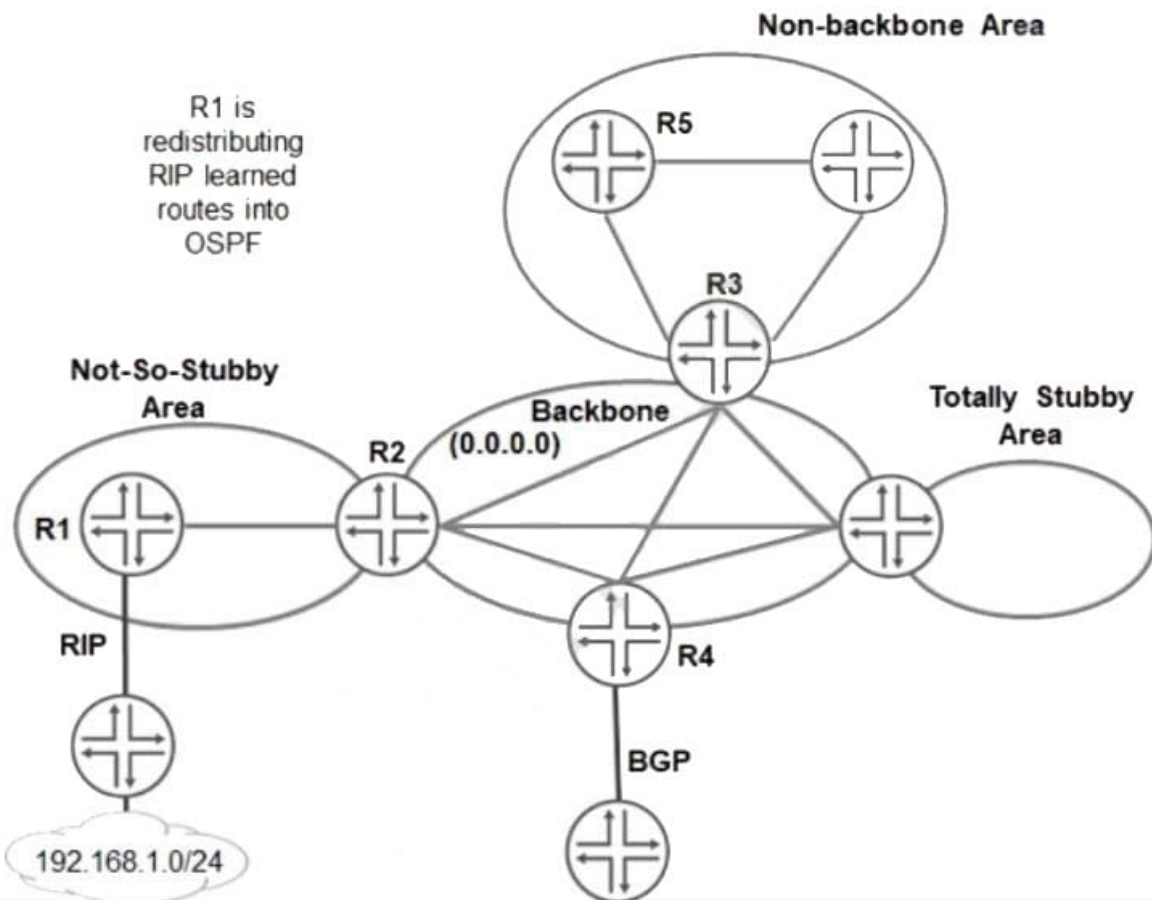
llgr-stale--Adds a community to a long-lived stale route when it is readvertised.

no-llgr--Marks routes which a BGP speaker does not want to be retained by LLGR. The Notification message feature does not have any associated configuration parameters.

<https://www.juniper.net/documentation/us/en/software/junos/bgp/topics/ref/statement/community-edit-routing-options.html>

**QUESTION 14**

Referring to the exhibit, which LSA type is used to advertise 192.168.1.0/24 to R5?



A. Type 5

B. Type 4

C. Type 3

D. Type 7

Correct Answer: A

Area-1 has no external connections. However, Area-1 has static route (172.16.31.0/24) that are not internal OSPF route. You can limit the external route advertisements to the area and advertise the static routes by designating the area an NSSA. In an NSSA, the ASBR (vMX1) generates NSSA external (Type 7) LSAs and floods them into the NSSA, where they are contained.

Type-7 LSAs allow an NSSA to support the presence of ASBR and their corresponding external routing information. The ABR (vMX2) converts Type-7 LSAs into Type-5 External LSAs and leaks them to the other areas, but external routes from other areas are not advertised within the NSSA.

An admin should check this and change it

<https://www.packetswitch.co.uk/configuring-junos-ospf-stub-and-nssa-areas/>

<https://www.juniper.net/documentation/us/en/software/junos/ospf/topics/ref/statement/nssa-edit-protocols-ospf.html>

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#### QUESTION 15

You are using 802.1X authentication in your network to secure all ports. You have a printer that does not support 802.1X and you must ensure that traffic is allowed to and from this printer without authentication. In this scenario, what will satisfy the requirement?

A. MAC filtering

B. MACsec

C. static MAC bypass

D. MAC RADIUS

Correct Answer: C

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

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