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**Cisco**

# 300-515

*Implementing Cisco Service Provider VPN Services (SPVI)*



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Question #51 Section 1

```
ip vrf mvpn-extranet
rd 12:1
vpn id 12:1
route-target import 12:2
route-target export 12:3
mdt default mpls mldp 192.168.1.2
exit
ip multicast-routing vrf mvpn-extranet
```

Refer to the exhibit. What is the effect of this configuration?

- A. The mroute table is cleared.
- B. Router 1 accepts multicast routes with a tag of 12:1
- C. A Cisco MPLS TE tunnel is generated with 192.168.1.2 as the source IP address of router 1.
- D. An LSP virtual interface tunnel is created.

**Answer: B**

Question #52 Section 1

```
mdt default mpls mldp 2.2.2.2
```

Refer to the exhibit. Which statement about this command is true?

- A. It must be configured on each PE router to enable the PE routers to receive multicast traffic for this particular MVRF.
- B. It is used to set the designated router on a link using PIM-SM.
- C. It must be configured on the PE and CE router to enable MP-BGP to send labels for CSC.
- D. It is used to set the router that will server as the root bridge for STP.

**Answer: A**

Reference:

<https://www.cisco.com/c/en/us/td/docs/routers/asr1000/configuration/guide/chassis/asrswcfg/lsmmldp.html>

Question #53 Section 1

**R1**

```
router bgp 65010
no bgp default ipv4-unicast
neighbor 192.168.1.1 remote-as 65010
address-family ipv4
neighbor 192.168.1.1 activate
```

Refer to the exhibit. Which statement describes the result of this BGP configuration?

- A. R1 operates using IPv4 and VPNv4 address families.
- B. R1 operates on IPv6 only because the bgp default ipv4-unicast command is missing.
- C. R1 establishes a VPNv4 eBGP relationship with neighbor 192.168.1.1.
- D. R1 establishes an iBGP relationship with peer 192.168.1.1.

**Answer: D**

Question #54 Section 1

```
PE(config-router-af)#neighbor 10.10.10.1 local-as 100
PE(config-router-af)#neighbor 10.10.10.1 remote-as 65000
PE(config-router-af)#neighbor 10.10.10.1 as-override

PE#show ip bgp vpnv4 vrf BLUE 10.10.10.10/32
BGP routing table entry for 111:1234:10.10.10.10/32, version 624
Paths: (1 available, best #2, table BLUE)
  Advertised to update-groups:
    38          39
  65000 65100 65222 65000
    192.168.40.1 (metric 31410) from 192.168.10.1 (192.168.10.1)
      Origin incomplete, localpref 100, valid, internal, best
      Extended Community:  RT:111:1234
      Originator: 192.168.20.1, Cluster list: 192.168.30.1
      mpls labels in/out nolabel/1146
```

Refer to the exhibit. While provisioning a new BGP session between the PE and CE router, you issue the as-override command. Which statement describes modification of the prefix before being sent to the CE router (10.10.10.1)?

- A. The fourth AS changes, but no other autonomous systems change.
- B. The first and fourth autonomous systems change.
- C. The second and third autonomous systems change.

D. The first AS changes, but no other autonomous systems change.

**Answer: D**

Question #55 Section 1

```
R1#sho run sec router isis
ip router isis
router isis
net 49.0002.1010.2021.00
is-type level-1
spf-interval 110

R2#sho run sec router isis
ip router isis
router isis
net 49.0001.1010.2020.00
is-type level-2-only
set-overload-bit
spf-interval 100
redistribute static ip
```

Refer to the exhibit. A technician is troubleshooting a connectivity issue and notices that there is no IS-IS adjacency between R1 and R2. What can the technician change to bring the IS-IS adjacency up?

- A. Change R2's net address to be in the same area as R1.
- B. Change R1's is-type to level-2-only
- C. Change R1's net address to be in the same area as R2.
- D. Change R2's configuration to no longer set the overload bit.

**Answer: B**

Question #56 Section 1

Which BGP feature causes to replace the AS number of originating router with the AS number of the sending router?

- A. route reflectors
- B. route dampening
- C. confederations
- D. AS override

**Answer: D**

Reference:

<https://community.cisco.com/t5/networking-documents/understanding-bgp-as-override-feature/ta-p/3111967>

Question #57 Section 1

|   |   |
|---|---|
| <b>PE1</b><br><b>ip vrf CE1</b><br><b>rd 111:1</b><br><b>route-target export 100:1</b><br><b>route-target import 200:2</b>  | <b>PE2</b><br><b>ip vrf CE2</b><br><b>rd 112 :2</b><br><b>route-target export 200:2</b><br><b>route-target import 100:1</b><br><b>route-target import 300:3</b> |
| <b>PE3</b><br><b>ip vrf Internet</b><br><b>rd 333:3</b><br><b>route-target export 300:3</b><br><b>route-target import 100:1</b><br><b>route-target import 200:2</b> |   |

Refer to the exhibit. PE1 and PE2 are exchanging VPNv4 routes for CE1 and CE2, and PE3 contains the default route to the internet. If the three devices are operating normally, which two conclusions describe this configuration? (Choose two.)

- A. The CE1 and CE2 VRFs can exchange routes only between their respective VRFs on PE1 and PE2.
- B. All three routers must be running a distance-vector routing protocol.
- C. All three routers must be running MP-BGP.
- D. The CE1 and CE2 VRFs can access the default route provided by the Internet VRF.
- E. Only the CE2 VRF can access the default route provided by the Internet VRF.

**Answer:** AC

Question #58 Section 1

The network engineering group of a large ISP needs to harden the management plane of its Cisco 9000 Series ASRs. While addressing IPv6 ICMP issues, they realized they have to limit the rate at which IPv6 ICMP error messages are sent out on the network. Which command do they need to apply?

- A. icmp ipv6 rate-limit unreachable 1000
- B. ipv6 rate-limit 1000
- C. icmp ipv4 rate-limit unreachable 1000
- D. ipv6 icmp error-interval 50 20

**Answer:** D

Reference:

[https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6\\_basic/configuration/xr-3s/ipv6b-xr-3s-book/ipv6-icmp-rate-lmt-xr.html](https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6_basic/configuration/xr-3s/ipv6b-xr-3s-book/ipv6-icmp-rate-lmt-xr.html)

Question #59 Section 1

Which optional information can be included with an IPv6 ping to support the troubleshooting process?

- A. IPv4 IP address
- B. source MAC address
- C. destination MAC address
- D. IPv6 hostname

**Answer:** D

Reference:

<https://www.cisco.com/c/en/us/td/docs/ios-xml/ios/ipv6/configuration/xr-3s/ipv6-xr-36s-book/ipv6-mng-apps.html>



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