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# 642-780

## Cisco

*Maintaining Cisco Service Provider VPNs and MPLS Networks (MSPVM)*

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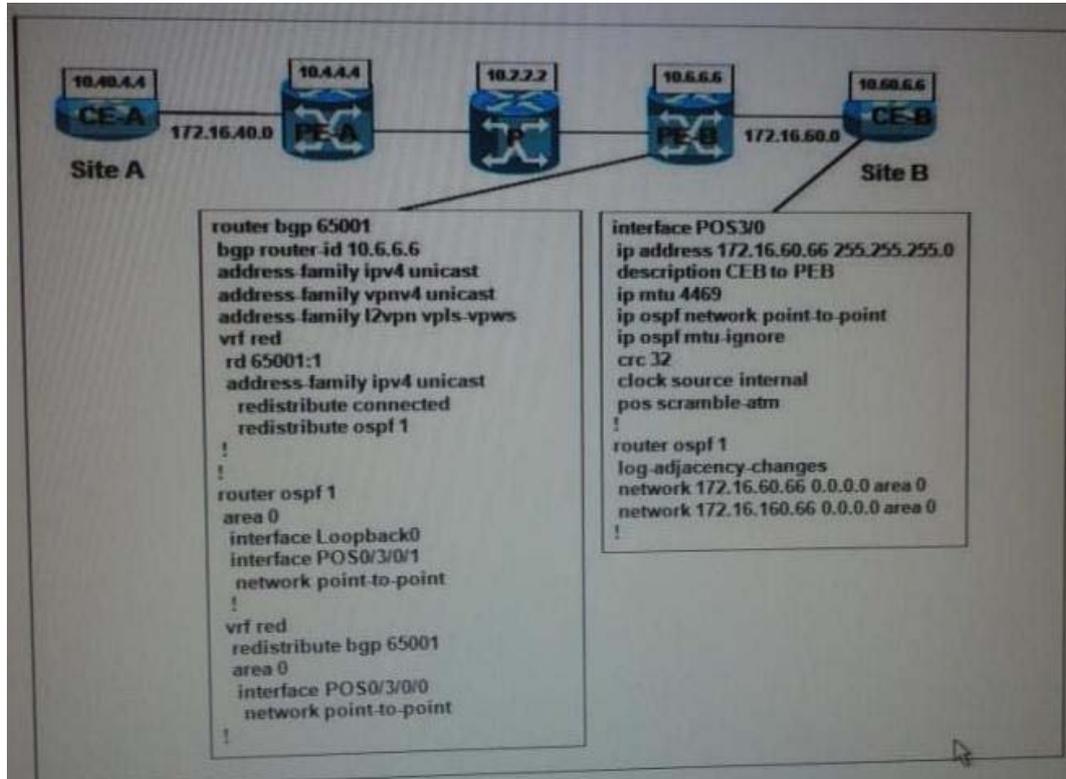
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# **DEMO EXAM**

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**QUESTION: 1**

Refer to the exhibit. The customer has an MPLS Layer 3 VPN service CE-A is not able to ping the CE-B loopback address 10.60.6.6 CE-A is able to ping the CE-B network interface address 172.16.60.66. What must be added to the configuration to allow the loopback ping to work?

- A. The PE-B configuration needs a neighbor 10.60.6.6 command added
- B. The PE-B configuration needs interface loopback0 added under vrf red area 0
- C. The CE-B configuration needs to static route added for the PE-B connected interface
- D. The CE-B configuration needs network 10.60.6.6 under router ospf 1

**Answer: D**

**QUESTION: 2**

```
ip vrf VPNA
rd 23456:100
route-target both 23456:100
route-target export 23456:300
route-target import 23456:301
!
ip vrf VPNB
rd 23456:200
route-target both 23456:200
route-target export 23456:300
route-target import 23456:301
!
ip vrf VPNC
rd 23456:300
route-target both 23456:300
route-target export 23456:301
!
```

Refer to the exhibit. What type of MPLS LAYER 3 VPN configurations is represented?

- A. Simple two-VPN scenario
- B. Overlapping VPNs
- C. Central services VPNs
- D. Extranet VPNs

**Answer:** C

**QUESTION: 3**

In a service provider layer 3 MPLS VPN implementations, what is the minimum number of routing on the PE routers?

- A. Three
- B. Four
- C. Five
- D. Six

**Answer:** A

**QUESTION: 4**

```
RP/0/RSP1/CPU0:VKG-3#ping 10.11.11.11
Type escape sequence to abort.
Sending 5, 100-byte ICMP Echos to 10.11.11.11, timeout is 2 seconds:
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 2/2/2 ms

RP/0/RSP1/CPU0:VKG-3#ping mpls ipv4 10.11.11.11/32
Sending 5, 100-byte MPLS Echos to 10.11.11.11/32,
!!!!
Success rate is 100 percent (5/5), round-trip min/avg/max = 5/5/7 ms

RP/0/RSP1/CPU0:VKG-3#ping mpls pseudowire 10.11.11.11 100
Sending 5, 100-byte MPLS Echos to 10.11.11.11 vc: 100,
QQQQQ
Success rate is 0 percent (0/5)
```

Refer to the exhibit. The commands on the figure were executed from a Cisco ASR 9000 series router. The remote end of ping is Cisco XR 12000 series router. Which statement is true?

- A. The XR 12000 has an access list that blocks the MPLS pseudowire ping
- B. The interface connected to the XR 12000 is not running LDP
- C. These results will occur during convergence when MPLS LDP sync is enabled
- D. The MPLS pseudowire ping was not sent

**Answer:** D

**QUESTION:** 5

debug mpls packet

```

RP/0/0/CPU0:XR12000# debug mpls packet
LC/0/0/CPU0:May 27 10:44:45.011 : netio[212]: mpls_switch-2: received an mpls packet on GigabitEthernet0_0_1_1:
proto=0, direction = ingress
LC/0/0/CPU0:May 27 10:44:45.011 : netio[212]: Flag set to 0x00000001
LC/0/0/CPU0:May 27 10:44:45.012 : netio[212]: mpls_get_payload_start: ipv4: src=0xa646402, dst=0x7f000001
LC/0/0/CPU0:May 27 10:44:45.013 : netio[212]: mpls_get_payload_start: src.port = 0xdaf, dst.port = 0xdaf, protocol =
0x11
LC/0/0/CPU0:May 27 10:44:45.013 : netio[212]: mpls_switch: GigabitEthernet0_0_1_1, mpls eos 1, ttl 1, len 132, inlabel
16017, tbl_id=0xe0000000, vrf_id=0x60000000
LC/0/0/CPU0:May 27 10:44:45.014 : netio[212]: [mpls/netio/src/mpls_netio_switch.c:1133] l3_len:[0x00000078]
readoff [0x0000000c]
LC/0/0/CPU0:May 27 10:44:45.014 : netio[212]: Flag set to 0x00000001
LC/0/0/CPU0:May 27 10:44:45.015 : netio[212]: CW 0x46000078
LC/0/0/CPU0:May 27 10:44:45.015 : netio[212]: CW NOT found
LC/0/0/CPU0:May 27 10:44:45.016 : netio[212]: iphdr_len [24]
LC/0/0/CPU0:May 27 10:44:45.016 : netio[212]: mpls_netio_is_lspv_pkt: Packet is a LSP ping packet. UDP dest
port=3503
LC/0/0/CPU0:May 27 10:44:45.017 : netio[212]: [mpls/netio/src/mpls_netio_switch.c:1307] network_start pointing at:
0x00000046
LC/0/0/CPU0:May 27 10:44:45.017 : netio[212]: First 4 network bytes: 0x46000078
LC/0/0/CPU0:May 27 10:44:45.017 : netio[212]: mpls_switch: MPLS TTL expired on LSP ping packet. Send to ipv4
netio for processing
LC/0/0/CPU0:May 27 10:44:45.030 : netio[212]: mpls_switch-2: received an mpls packet on GigabitEthernet0_0_1_1:
proto=0, direction = ingress
LC/0/0/CPU0:May 27 10:44:45.030 : netio[212]: Flag set to 0x00000001
LC/0/0/CPU0:May 27 10:44:45.031 : netio[212]: mpls_get_payload_start: ipv4: src=0xa646402, dst=0x7f000001
LC/0/0/CPU0:May 27 10:44:45.031 : netio[212]: mpls_get_payload_start: src.port = 0xdaf, dst.port = 0xdaf, protocol =
0x11
LC/0/0/CPU0:May 27 10:44:45.032 : netio[212]: mpls_switch: GigabitEthernet0_0_1_1, mpls eos 1, ttl 2, len 132, inlabel
16017, tbl_id=0xe0000000, vrf_id=0x60000000
LC/0/0/CPU0:May 27 10:44:45.032 : netio[212]: mpls_switch: DISPOSITION (PHP) to ip: prop ttl = 1, ttl=1

```

Refer to the exhibit. The output from the debug command is from the Cisco XR12000 series Router, which statement is true?

- A. The output is the result of single iteration of mpls ping executed on the cisco ASR 9000 Series Router'
- B. The output is the result of single iteration of mpls ping executed on the cisco ASR 9000 series Router
- C. The packets did not reach its destination because the control word was not found
- D. The output is the result of single iteration of mpls ping executed on the cisco CRS-1 carrier routing system.

**Answer:** C

**QUESTION:** 6

```

RP/0/0/CPU0:GSR-1#show cef vrf red 10.22.22.22 detail
10.22.22.22/32, version 1, internal 0x40040001 (0x9c8b88f8) [1], 0x0 (0x0), 0x4100 (0x9d3658f0)
Updated May 26 14:01:44.060
Prefix Len 32, traffic index 0, precedence routine (0)
gateway array (0x9cc5b668) reference count 5, flags 0x80700, source rib (3),
[1 type 1 flags 0x901101 (0x9d6092e4) ext 0x0 (0x0)]
LW-LDI[type=0, refc=0, ptr=0x0, sh-ldi=0x0]
via 192.168.252.3, 5 dependencies, recursive
next hop 192.168.252.3 via 16000/0/21
next hop 10.100.100.2   gi0/0/1/1   labels imposed [ImplNull] 143989

Load distribution: 0 (refcount 1)

Hash OK Interface Address
0 Y Unknown 16000/0

RP/0/0/CPU0:GSR-1#show bgp vpnv4 unicast labels
BGP router identifier 192.168.253.1, local AS number 65000
<snip>
status codes: s suppressed, d damped, h history, * valid, > best
i - internal, S stale
origin codes: i - IGP, e - EGP, ? - incomplete
Network Next Hop Rcvd Label Local Label
Route Distinguisher: 65000:9 (default for vrf red)
> i10.1.1.1/32 192.168.252.3 143988 noLabel
> i10.9.9.0/31 192.168.252.3 143989 noLabel
> 10.109.109.109/32 0.0.0.0 noLabel 16014
> i10.170.170.0/24 192.168.252.3 143990 noLabel
> i10.22.22.22/32 192.168.252.3 143989 noLabel
> i192.1.99.0/24 192.168.252.3 143991 noLabel
> 192.168.99.0/24 0.0.0.0 noLabel 16014

```

Refer to the exhibit. The commands were executed on the Cisco XR 12000 PE. Which statement is true?

- A. The outer label for prefix 10.22.22.22 is 143989.
- B. The outer label for prefix 10.22.22.22 is 16000.
- C. The outer label for prefix 10.22.22.22 is implNull.
- D. Prefix 10.22.22.22 has no outer label.

**Answer:** A

### QUESTION: 7

You have configured a MPLS-TE tunnel with a predefined explicit path as primary and dynamic path as the backup. The tunnel was designed to carry customer traffic from site A to site B. Although the MPLS-TE tunnel is set up, it is not carrying the traffic. Traffic has to go to network 171.68.0.0/16 connected to site B. Which three show commands would you use to identify and resolve the issue?

- A. Show mpls traffic-eng-link-management bandwidth to check the bandwidth is available.
- B. Show ip cef network-number to check if tabs are imposed
- C. Show mpls traffic-eng topology ipg-id ospf network number brief to check routing issue
- D. Show mpls traffic-eng autoroute to check auto routing is enabled
- E. Show mpls forwarding-table LABEL-number details to outgoing tags
- F. Show ip cef tunnel 1 to check traffic is passing through the tunnel

**Answer:** D, E

**QUESTION:** 8

```
RP/0/9/CPU0:GSR4#show running-config mpls ldp
Mon Jun 7 13:25:27.490 UTC
mpls ldp
router-id 10.10.10.99
discovery targeted-hello accept
graceful-restart
session protection
!
```

Refer to the exhibit. Is nonstop forwarding enabled or disabled, and which part of show command can be used to determine this?

- A. Enabled, graceful-restart
- B. Enabled, session protection
- C. Disabled, graceful-restart
- D. Disabled, session protection

**Answer:** A

**QUESTION:** 9

```
pe-1#sh mpls forwarding-table | include [V]
tag tagorVC orTunnelId switched interface
1. 271 Untagged 172.30.3.4/30[V]2276872 AT12/3.1283 point2point
2. 843 354 10.128.15.2/32[V]948729500 Gi14/1.1271 10.128.0.46
3. 2378 Untagged 10.145.88.0/23[V]279480962 Se9/0/1/7:0 point2point
4. 2574 355 10.128.53.0/24[V]146735829 AT12/3.1132 point2point
```

Refer to the exhibit. What two problems are associated with this show MPLS forwarding command output; given that this command only shows forwarding information for CE's faces interfaces and associated statistics? (Choose two)



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