



# 640-878<sup>Q&As</sup>

Building Cisco Service Provider Next-Generation Network

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### QUESTION 1

Refer to the two show output examples below. The switch with the e8ba.70b5.7180 MAC address is the root bridge for which VLAN or VLANs?



S78#show spanning-tree

MST0

```
Spanning tree enabled protocol mstp
Root ID Priority 32768
  Address e8ba.70b5.6c00
  Cost 0
  Port 23 (FastEthernet0/21)
  Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 32768 (priority 32768 sys-id-ext 0)
  Address e8ba.70e1.d980
  Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
```

| Interface | Role | Sts | Cost   | Prio.Nbr | Type |
|-----------|------|-----|--------|----------|------|
| Fa0/1     | Desg | FWD | 200000 | 128.3    | P2p  |
| Fa0/2     | Desg | FWD | 200000 | 128.4    | P2p  |
| Fa0/21    | Root | FWD | 200000 | 128.23   | P2p  |
| Fa0/23    | Altn | BLK | 200000 | 128.25   | P2p  |

MST1

```
Spanning tree enabled protocol mstp
Root ID Priority 24577
  Address e8ba.70b5.6c00
  Cost 200000
  Port 23 (FastEthernet0/21)
  Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 32769 (priority 32768 sys-id-ext 1)
  Address e8ba.70e1.d980
  Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
```

| Interface | Role | Sts | Cost   | Prio.Nbr | Type |
|-----------|------|-----|--------|----------|------|
| Fa0/1     | Desg | FWD | 200000 | 128.3    | P2p  |
| Fa0/21    | Root | FWD | 200000 | 128.23   | P2p  |
| Fa0/23    | Altn | BLK | 200000 | 128.25   | P2p  |

MST2

```
Spanning tree enabled protocol mstp
Root ID Priority 24578
  Address e8ba.70b5.7180
  Cost 200000
  Port 25 (FastEthernet0/23)
  Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 32770 (priority 32768 sys-id-ext 2)
  Address e8ba.70e1.d980
```

| Interface | Role | Sts | Cost   | Prio.Nbr | Type |
|-----------|------|-----|--------|----------|------|
| Fa0/2     | Desg | FWD | 200000 | 128.4    | P2p  |
| Fa0/21    | Altn | BLK | 200000 | 128.23   | P2p  |
| Fa0/23    | Root | FWD | 200000 | 128.25   | P2p  |

S78# show spanning-tree mst

```
##### MST0 vlans mapped: 1-69,71-79,81-4094
Bridge address e8ba.70e1.d980 priority 32768 (32768 sysid 0)
Root address e8ba.70b5.6c00 priority 32768 (32768 sysid 0)
  port Fa0/21 path cost 0
Regional Root address e8ba.70b5.6c00 priority 32768 (32768 sysid 0)
  internal cost 200000 rem hops 19
Operational hello time 2, forward delay 15, max age 20, txholdcount 6
Configured hello time 2, forward delay 15, max age 20, max hops 20
```

| Interface | Role | Sts | Cost   | Prio.Nbr | Type |
|-----------|------|-----|--------|----------|------|
| Fa0/1     | Desg | FWD | 200000 | 128.3    | P2p  |
| Fa0/2     | Desg | FWD | 200000 | 128.4    | P2p  |
| Fa0/21    | Root | FWD | 200000 | 128.23   | P2p  |
| Fa0/23    | Altn | BLK | 200000 | 128.25   | P2p  |

```
##### MST1 vlans mapped: 70
Bridge address e8ba.70e1.d980 priority 32769 (32768 sysid 1)
Root address e8ba.70b5.6c00 priority 24577 (24576 sysid 1)
  port Fa0/21 cost 200000 rem hops 19
```



| Interface | Role | Sts | Cost   | Prio.  | Nbr | Type |
|-----------|------|-----|--------|--------|-----|------|
| Fa0/1     | Desg | FWD | 200000 | 128.3  |     | P2p  |
| Fa0/21    | Root | FWD | 200000 | 128.23 |     | P2p  |
| Fa0/23    | Altn | BLK | 200000 | 128.25 |     | P2p  |

##### MST2 vlans mapped: 80

|        |         |                |          |        |                 |
|--------|---------|----------------|----------|--------|-----------------|
| Bridge | address | e8ba.70e1.d980 | priority | 32770  | (32768 sysid 2) |
| Root   | address | e8ba.70b5.7180 | priority | 24578  | (24576 sysid 2) |
|        | port    | Fa0/23         | cost     | 200000 | rem hops 19     |

| Interface | Role | Sts | Cost   | Prio.  | Nbr | Type |
|-----------|------|-----|--------|--------|-----|------|
| Fa0/2     | Desg | FWD | 200000 | 128.4  |     | P2p  |
| Fa0/21    | Altn | BLK | 200000 | 128.23 |     | P2p  |
| Fa0/23    | Root | FWD | 200000 | 128.25 |     | P2p  |

- A. VLAN 1
- B. VLAN 70
- C. VLAN 80
- D. VLANs 1, 70, and 80
- E. VLANs 1 and 70
- F. VLANs 1 and 80
- G. VLANs 70 and 80

Correct Answer: C

## QUESTION 2

Which procedure is used as the last resort disaster recovery procedure to completely replace the currently installed IOS XR software on Cisco IOS XR routers?

- A. netboot
- B. turboboot
- C. install recovery
- D. install rollback
- E. install add and install activate



Correct Answer: B

[http://www.cisco.com/en/US/docs/routers/crs/software/crs\\_r4.0/migration/guide/tbugapp.pdf](http://www.cisco.com/en/US/docs/routers/crs/software/crs_r4.0/migration/guide/tbugapp.pdf)

---

### QUESTION 3

A customer has been allocated a new VLAN on a new Layer 3 switch. After configuring the Switched Virtual Interface, what additional two configurations are required to ensure the switch can route packets to the Internet through a gateway with IP address of 209.165.200.250? (Choose two.)

- A. IP default-gateway 209.165.200.250
- B. IP routing
- C. IP route 0.0.0.0 0.0.0.0 209.165.200.250
- D. IP routing 0.0.0.0 0.0.0.0 209.165.200.250
- E. IP networking

Correct Answer: BC

---

### QUESTION 4



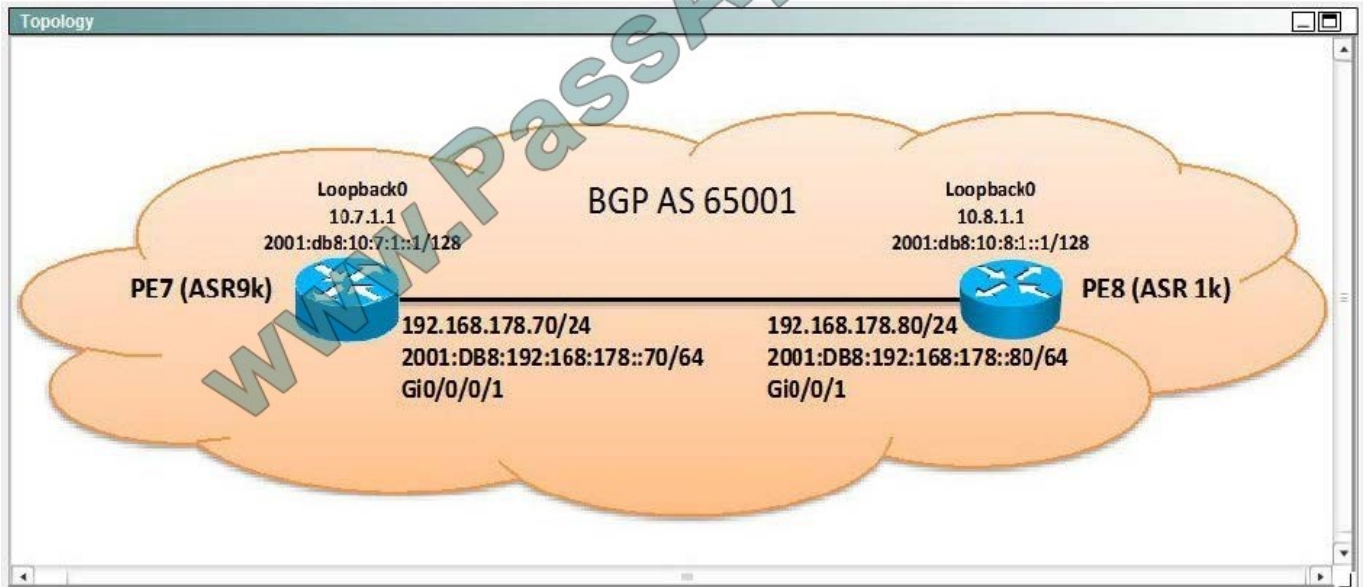
**Scenario**

Click on the PE7 router icon to access the PE7 router's CLI.  
You only have access to the PE7 router CLI.  
The PE8 router has been preconfigured. You only need to configure the PE7 router. PE7 and PE8 are directly connected and IPv4 and IPv6 static routes have been configured for the loopback addresses. The management interface (MgmtEth0/RSP0/CPU0/0) IPv4 address has been preconfigured and there is no need to enable routing on the management interface.

Your task is to configure the PE7 router per the following requirements:

1. Configure IPv4 and IPv6 addresses and enable the loopback0 and gi0/0/0/1 interfaces. Refer to the topology diagram for the IP addresses to use
2. Configure iBGP using AS 65001 for both IPv4 and IPv6 routing. Establish an iBGP peering relationship between loopback0 interfaces.
3. Create two BGP peering sessions, one for IPv4 and one for IPv6.
4. After successfully completing all the above configurations, you should be able to successfully establish an iBGP peer relationship with PE8. If you successfully complete the required BGP configurations on PE7, from PE7, you should see the 10.100.100.100/32 IPv4 BGP route and the 2001:db8:10:100:100::100/128 IPv6 BGP route advertised by PE8.

**Note:** The ping command is not supported in this simulation. Please use the proper show commands to verify the BGP peerings and the BGP routes on the PE7 router.





```
PE7
$ Some configuration options may have changed
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/0, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/1, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/2, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/3, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/4, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/5, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/6, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/7, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/8, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/9, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/10, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/11, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/12, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/13, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/14, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/15, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/16, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/17, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/18, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/19, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/20, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/21, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/22, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/23, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/24, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/25, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/26, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/27, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/28, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/29, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/30, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/31, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/32, changed state to administrati
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$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/33, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/34, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/35, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/36, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/37, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/38, changed state to administrati
ely down
$LINK-3-UPDOWN: Interface GigabitEthernet0/0/0/39, changed state to administrati
ely down
Press RETURN to get started!
```



Correct Answer: Check the answer in explanation.

Here is the solution:

```
conf t
int loopback 0
no shut
ipv4 address 10.7.1.1 255.255.255.255
ipv6 address 2001:db8:10:7:1::1/128
int Gi0/0/0/1
no shut
ipv4 address 192.168.178.70 255.255.255.0
ipv6 address 2001:DB8:192:168:178::70/64
commit
router bgp 65001
address-family ipv4 unicast
redistribute connected
neighbor 10.8.1.1
remote-as 65001
update-source loopback 0
commit
exit
address family ipv6 unicast
redistribute connected
neighbor 2001:db8:10:8:1::1
remote-as 65001
update-source loopback 0
commit
```

---

#### QUESTION 5

What layer of the IP NGN Model does the Customer Element and the Carrier Ethernet exist?





- A. Service Layer
- B. Network Layer
- C. Application Layer
- D. Operational Layer

Correct Answer: B

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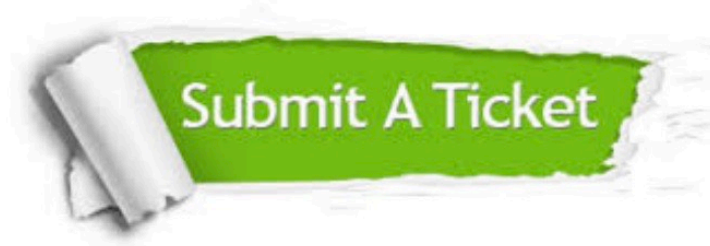
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