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Number: 300-135 Passing Score: 800 Time Limit: 120 min File Version: 15.0



Exam code: 300-135

Exam name: Troubleshooting and Maintaining Cisco IP Networks (TSHOOT)

Version 15.0

Question Set 1

#### **QUESTION 1**

Exhibit:

RouterA# debug eigrp packets ... 01:39:13: EIGRP: Received HELLO on Serial0/0 nbr 10.1.2.2 01:39:13: AS 100, Flags 0x0, Seq 0/0 idbQ 0/0 iidbQ un/rely 0/0 peerQ un/rely 0/0 01:39:13: K-value mismatch

A network administrator is troubleshooting an EIGRP connection between RouterA, IP address 10.1.2.1, and RouterB, IP address 10.1.2.2. Given the debug output on RouterA, which two statements are true? (Choose two.)

- A. RouterA received a hello packet with mismatched autonomous system numbers.
- B. RouterA received a hello packet with mismatched hello timers.
- C. RouterA received a hello packet with mismatched authentication parameters.
- D. RouterA received a hello packet with mismatched metric-calculation mechanisms.
- E. RouterA will form an adjacency with RouterB.
- F. RouterA will not form an adjacency with RouterB.

Correct Answer: DF Section: [none] Explanation

**Explanation/Reference:** 

### **QUESTION 2**

When troubleshooting an EIGRP connectivity problem, you notice that two connected EIGRP routers are not becoming EIGRP neighbors. A ping between the two routers was successful. What is the next thing that should be checked?

- A. Verify that the EIGRP hello and hold timers match exactly.
- B. Verify that EIGRP broadcast packets are not being dropped between the two routers with the show ip EIGRP peer command.
- C. Verify that EIGRP broadcast packets are not being dropped between the two routers with the show ip EIGRP traffic command.
- D. Verify that EIGRP is enabled for the appropriate networks on the local and neighboring router.



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Correct Answer: D Section: [none] Explanation

Explanation/Reference:

#### **QUESTION 3**

Refer to the exhibit.

R1#show ip route Codes: C - connected, S - static, R - RIP, M - mobile, B - BGP D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2 E1 - OSPF external type 1, E2 - OSPF external type 2 i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2 ia - IS-IS inter area, \* - candidate default, U - per-user static route o - ODR, P - periodic downloaded static route

Gateway of last resort is 212.50.185.126 to network 0.0.0.0

```
212.50.167.0/24 [90/160000] via 212.50.185.82, 00:05:55, Ethernet1/0
D
     212.50.166.0/24 is variably subnetted, 4 subnets, 2 masks
         212.50.166.0/24 is a summary, 00:05:55, NullO
D
         212.50.166.1/32 is directly connected, Loopback1
C
         212.50.166.2/32 is directly connected, Loopback2
212.50.166.20/32 is directly connected, Loopback20
C
C
     212.50.185.0/27 is subnetted, 3 subnets
         212.50.185.64 is directly connected, Ethernet1/0
C
         212.50.185.96 is directly connected, Ethernet0/0
C
C 212.50.185.32 is directly connected, Ethernet2/0
D*EX 0.0.0.0/0 [170/2174976] via 212.50.185.126, 00:05:55, Ethernet0/0
                  [170/2174976] via 212.50.185.125, 00:05:55, Ethernet0/0
```

How would you confirm on R1 that load balancing is actually occurring on the default-network (0.0.0.0)?

A. Use ping and the show ip route command to confirm the timers for each default network resets to 0.

B. Load balancing does not occur over default networks; the second route will only be used for failover.

C. Use an extended ping along with repeated show ip route commands to confirm the gateway of last resort address toggles back and forth.

D. Use the traceroute command to an address that is not explicitly in the routing table.

Correct Answer: D Section: [none] Explanation

### **Explanation/Reference:**

#### **QUESTION 4**

Which IPsec mode will encrypt a GRE tunnel to provide multiprotocol support and reduced overhead?

- A. 3DES
- B. multipoint GRE
- C. tunnel
- D. transport

Correct Answer: D Section: [none] Explanation

**Explanation/Reference:** 

### **QUESTION 5**

Which three features are benefits of using GRE tunnels in conjunction with IPsec for building site-to-site VPNs? (Choose three.)

- A. allows dynamic routing over the tunnel
- B. supports multi-protocol (non-IP) traffic over the tunnel
- C. reduces IPsec headers overhead since tunnel mode is used
- D. simplifies the ACL used in the crypto map
- E. uses Virtual Tunnel Interface (VTI) to simplify the IPsec VPN configuration

Correct Answer: ABD Section: [none] Explanation

**Explanation/Reference:** 

# QUESTION 6

Which statement is true about an IPsec/GRE tunnel?

- A. The GRE tunnel source and destination addresses are specified within the IPsec transform set.
- B. An IPsec/GRE tunnel must use IPsec tunnel mode.
- C. GRE encapsulation occurs before the IPsec encryption process.





D. Crypto map ACL is not needed to match which traffic will be protected.

Correct Answer: C Section: [none] Explanation

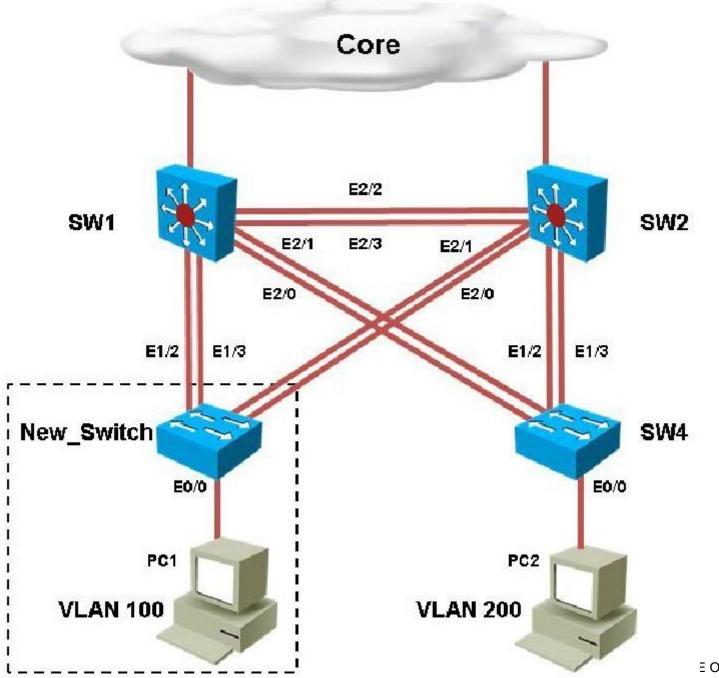
Explanation/Reference:

**Question Set 1** 



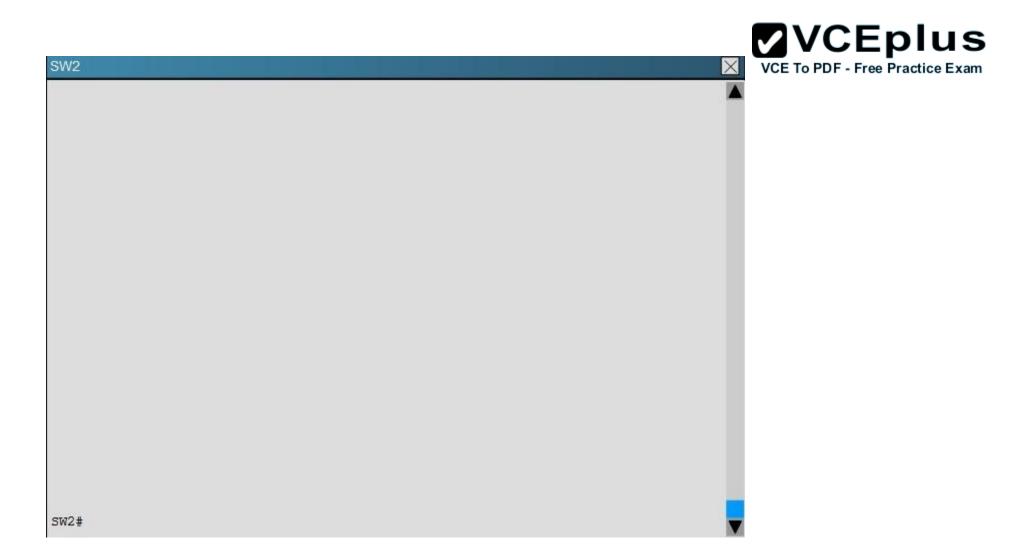
### **QUESTION 1**

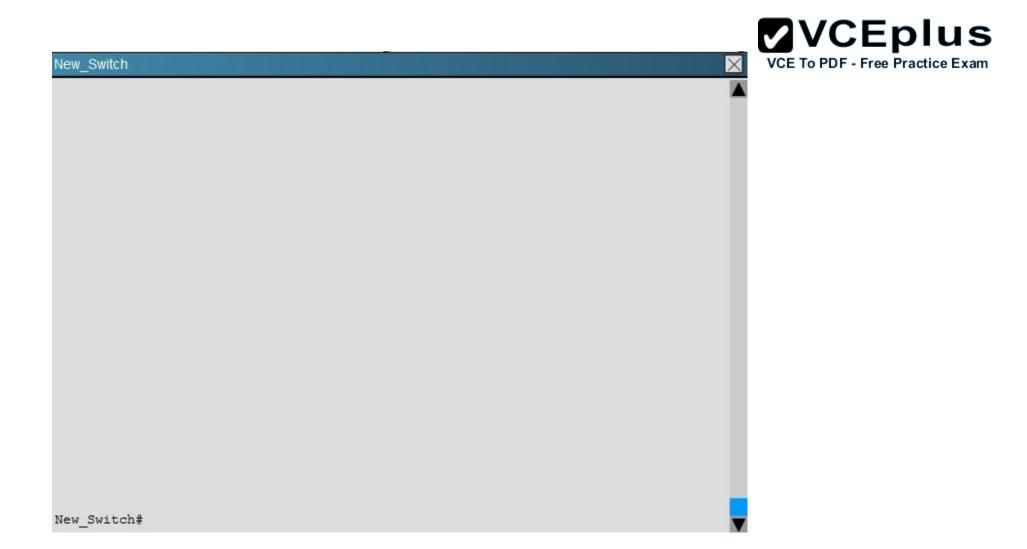














SW4#

PC2 in VLAN 200 is unable to ping the gateway address 172.16.200.1; identify the issue.

- A. VTP domain name mismatch on SW4
- B. VLAN 200 not configured on SW1
- C. VLAN 200 not configured on SW2
- D. VLAN 200 not configured on SW4

Correct Answer: D Section: [none]

# Explanation

# Explanation/Reference:

Explanation:

By looking at the configuration for SW2, we see that it is missing VLAN 200, and the "switchport access vlan 200" command is missing under interface eth 0/0:



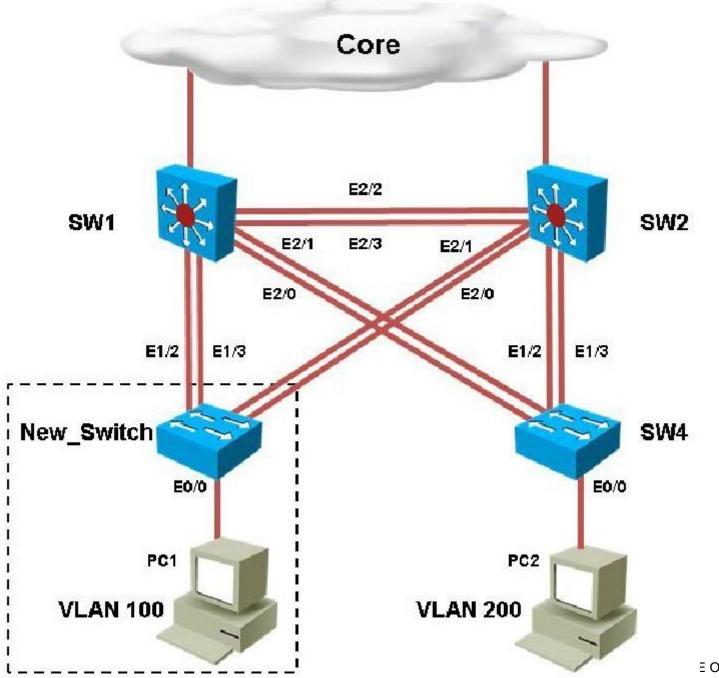


```
vlan internal allocation policy ascending
vlan 100
T
vlan 300
name Management VLAN
vlan 400
name VLAN400
interface Ethernet0/0
 description Connected to PC2
 switchport mode access
 duplex auto
```



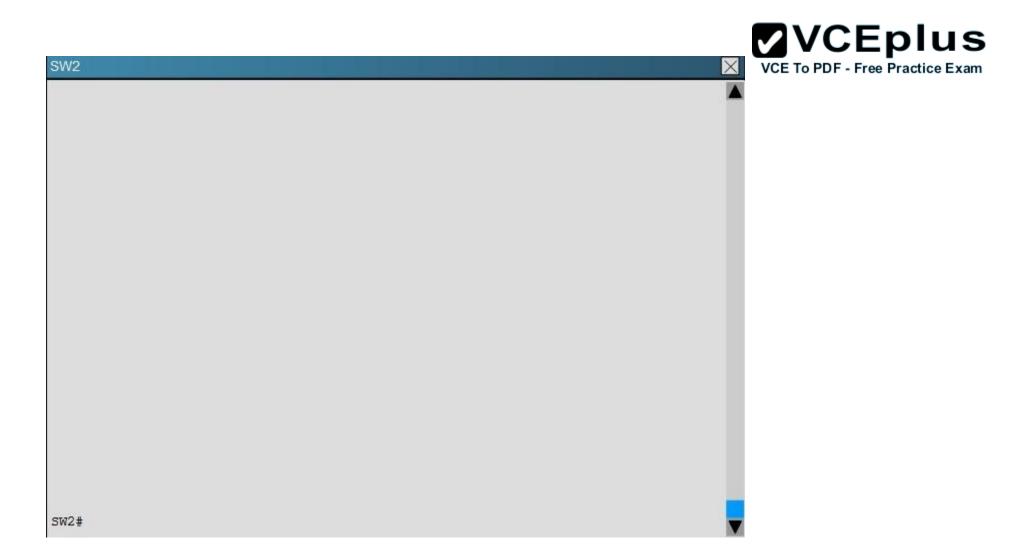
# **QUESTION 2**

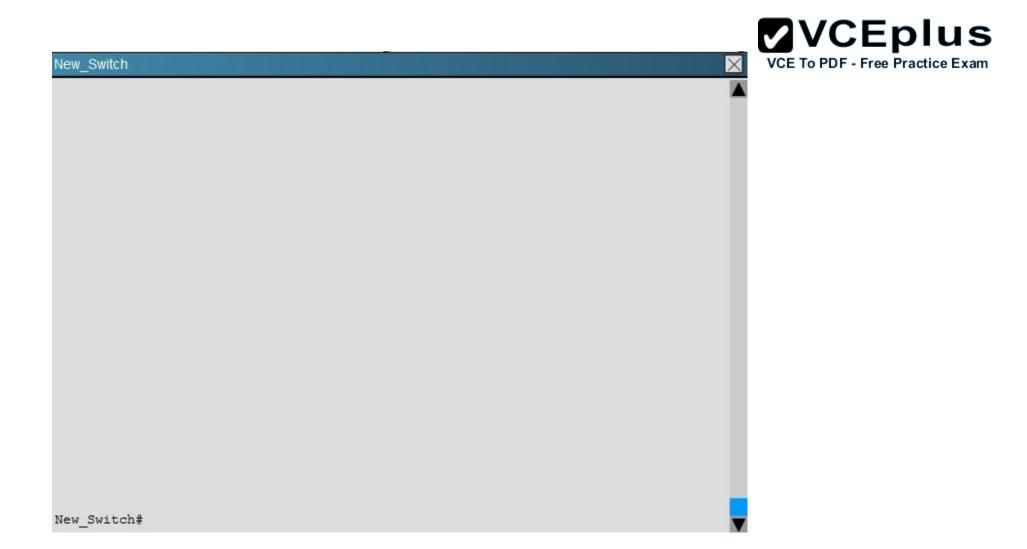














SW4#

Which of statement is true regarding STP issue identified with switches in the given topology?

- A. Loopguard configured on the New\_Switch places the ports in loop inconsistent state
- B. Rootguard configured on SW1 places the ports in root inconsistent state
- C. Bpduguard configured on the New\_Switch places the access ports in error-disable
- D. Rootguard configured on SW2 places the ports in root inconsistent state

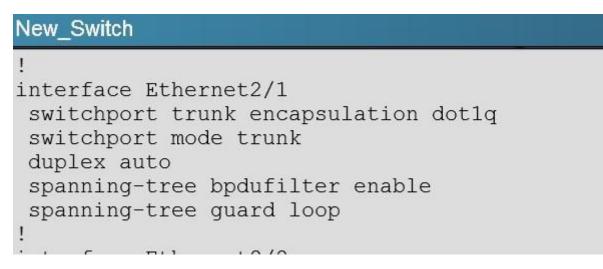
Correct Answer: A Section: [none]

### Explanation

### Explanation/Reference:

Explanation:

On the new switch, we see that loopguard has been configured with the "spanning-tree guard loop" command.

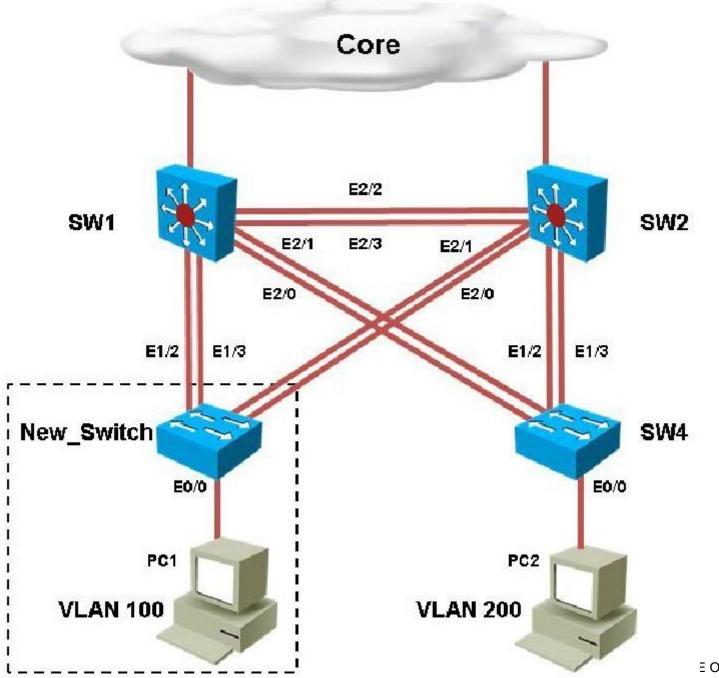


The loop guard feature makes additional checks. If BPDUs are not received on a non-designated port, and loop guard is enabled, that port is moved into the STP loop-inconsistent blocking state, instead of the listening / learning / forwarding state. Without the loop guard feature, the port assumes the designated port role. The port moves to the STP forwarding state and creates a loop.

# **QUESTION 3**

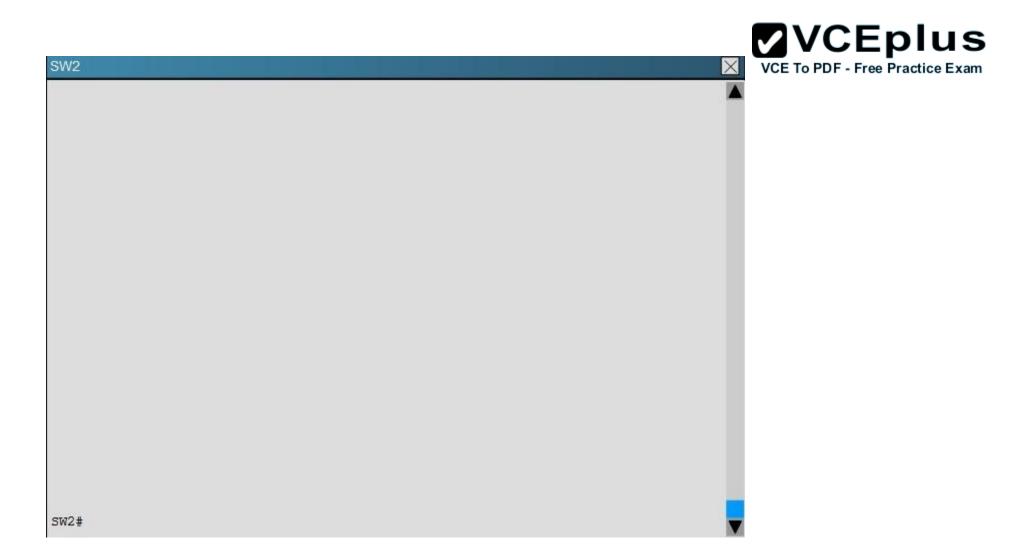


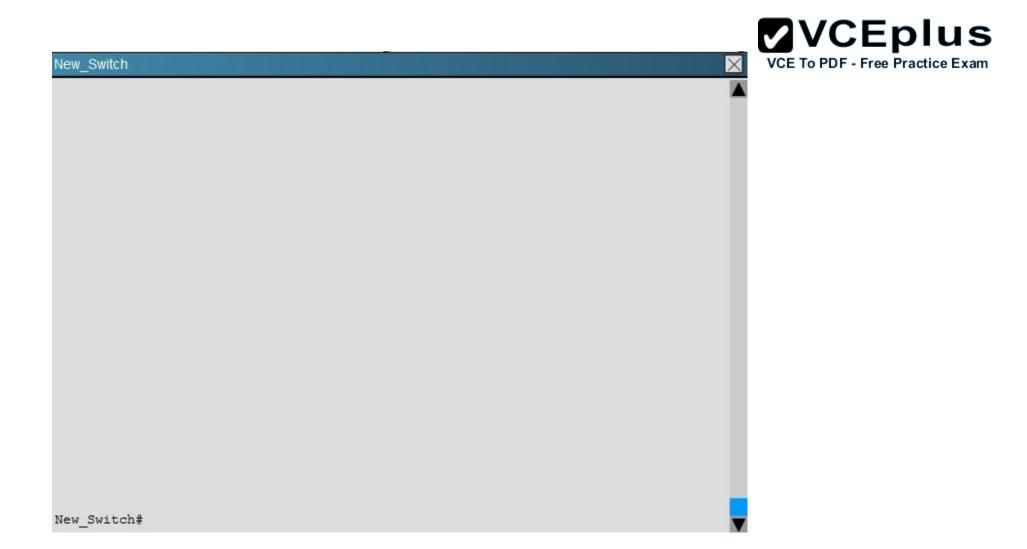














SW4#

You have configured PVST+ load balancing between SW1 and the New\_Switch in such a way that both the links E2/2 and E2/3 are utilized for traffic flow, which component of the configuration is preventing PVST+ load balancing between SW1 and SW2 links

- A. Port priority configuration on SW1
- B. Port priority configuration on the New\_Switch
- C. Path cost configuration on SW1
- D. Path cost configuration on the New\_Switch

### Correct Answer: D

Section: [none] Explanation

**Explanation/Reference:** Explanation:

Here is the configuration found on the New\_Switch:

# New\_Switch

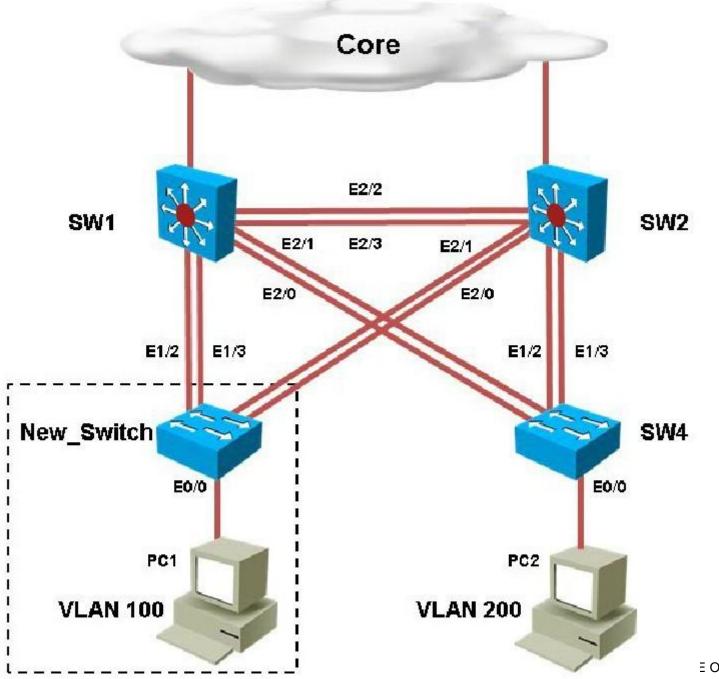
```
!
interface Ethernet1/2
switchport trunk encapsulation dot1q
switchport mode trunk
duplex auto
!
interface Ethernet1/3
switchport trunk encapsulation dot1q
switchport mode trunk
duplex auto
spanning-tree cost 250
!
```

This causes the port cost for link eth 1/3 to increase the path cost to 250 for all VLANs, making that link less preferred so that only eth 1/2 will be used.

# **QUESTION 4**



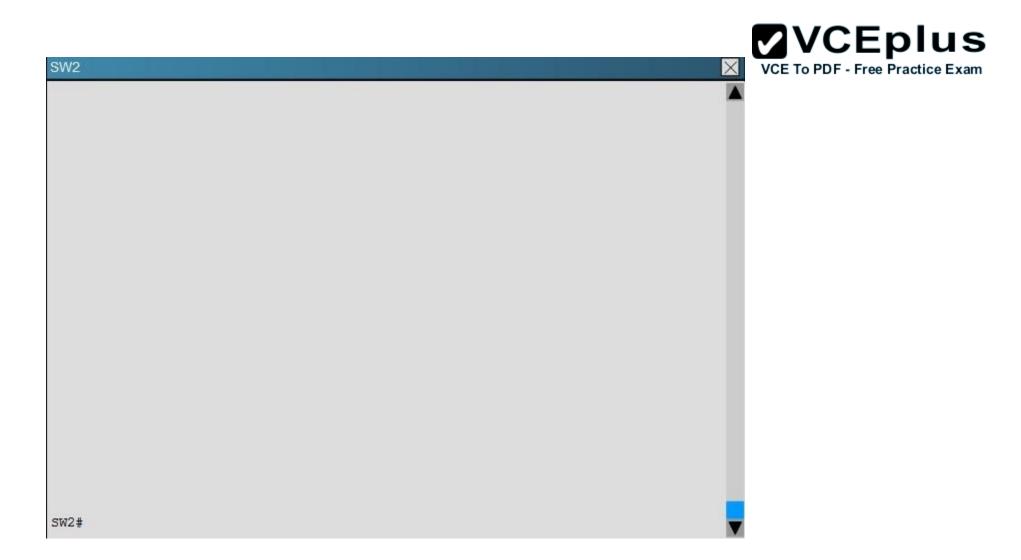


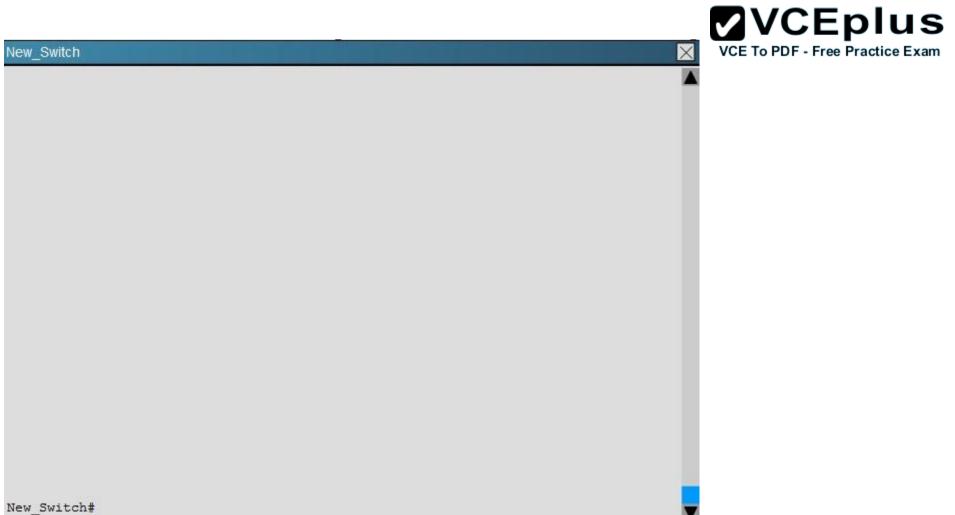


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SW4#

Refer to the topology.

SW1 Switch Management IP address is not pingable from SW4. What could be the issue?

- A. Management VLAN not allowed in the trunk links between SW1 and SW4
- B. Management VLAN not allowed in the trunk links between SW1 and SW2
- C. Management VLAN not allowed in the trunk link between SW2 and SW4
- D. Management VLAN ip address on SW4 is configured in wrong subnet
- E. Management VLAN interface is shutdown on SW4



Correct Answer: D Section: [none] Explanation

Explanation/Reference:

Explanation:

In the network, VLAN 300 is called the Management VLAN. Based on the configurations shown below, SW1 has VLAN 300 configured with the IP address of 192.168.10.1/24, while on SW4 VLAN 300 has an IP address of 192.168.100.4/24, which is not in the same subnet.

# SW1 ! interface Vlan1 no ip address ! interface Vlan100 ip address 172.16.100.1 255.255.255.0 ! interface Vlan200 ip address 172.16.200.1 255.255.255.0 ! interface Vlan300 ip address 192.168.10.1 255.255.255.0 !



```
switchport mode trunk
duplex auto
!
interface Ethernet2/2
shutdown
duplex auto
!
interface Ethernet2/3
shutdown
duplex auto
!
interface Vlan1
no ip address
!
interface Vlan300
ip address 192.168.100.4 255.255.255.0
!
```