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Implementing Cisco IP Switched Networks

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QUESTION 1

Refer to the exhibit.

```
SW1#show spanning-tree vlan 1
VLAN0001
Spanning tree enabled protocol ieee
Root ID Priority 1
Address 001b.bbbb.dddd
This bridge is the root
Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Bridge ID Priority 1 (priority 0 sys-id-ext 1)
Address 001b.bbbb.dddd

Hello Time 2 sec Max Age 20 sec Forward Delay 15 sec
Aging Time 300

Interface   Role  Sts   Cost   Prio.Nbr   Type
---------   ----  ---   ----   --------   ----
Fa0/1       Desg  FWD   19     128.15     P2p
Fa0/2       Desg  FWD   19     128.16     P2p
Fa0/3       Desg  FWD   19     128.17     P2p
Fa0/4       Desg  FWD   19     128.18     P2p
Fa0/5       Desg  FWD   19     128.19     P2p
Fa0/6       Desg  FWD   19     128.19     P2p
```

Why would the switch be considered as a root bridge?

A. The bridge priority is 1 and all ports are forwarding.

B. The switch priority for VLAN 1 and the macro specifies "This Bridge is the root".

C. The bridge priority is 128.19 and all ports are forwarding.

D. The switch priority value is zero, it has the lowest priority value for VLAN 1.

Correct Answer: D

QUESTION 2

A network engineer wants to add a new switch to an existing switch stack. Which configuration must be added to the new switch before it can be added to the switch stack?
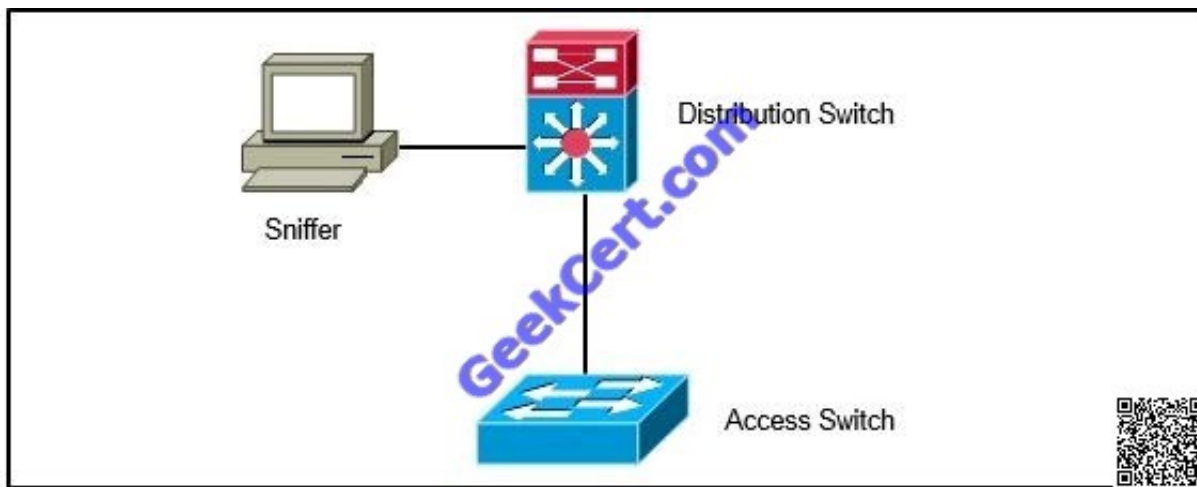
A. No configuration must be added.

B. stack ID

C. IP address

D. VLAN information

E. VTP information

Correct Answer: A

QUESTION 3

Refer to the exhibit.

A network engineer wants to analyze all incoming and outgoing packets for an interface that is connected to an access switch. Which three items must be configured to mirror traffic to a packet sniffer that is connected to the distribution switch? (Choose three.)

A. A monitor session on the distribution switch with a physical interface as the source and the remote SPAN VLAN as the destination

B. A remote SPAN VLAN on the distribution and access layer switch

C. A monitor session on the access switch with a physical interface source and the remote SPAN VLAN as the destination

D. A monitor session on the distribution switch with a remote SPAN VLAN as the source and physical interface as the destination

E. A monitor session on the access switch with a remote SPAN VLAN source and the physical interface as the destination

F. A monitor session on the distribution switch with a physical interface as the source and a physical interface as the destination

Correct Answer: BCD

QUESTION 4

Which VTP mode is needed to configure an extended VLAN, when a switch is configured to use VTP versions 1 or 2?

A. transparent

B. client

C. server

D. Extended VLANs are only supported in version 3 and not in versions 1 or 2.

Correct Answer: D

QUESTION 5

You have been asked to install and configure a new switch in a customer network. Use the console access to the existing and new switches to configure and verify correct device configuration.
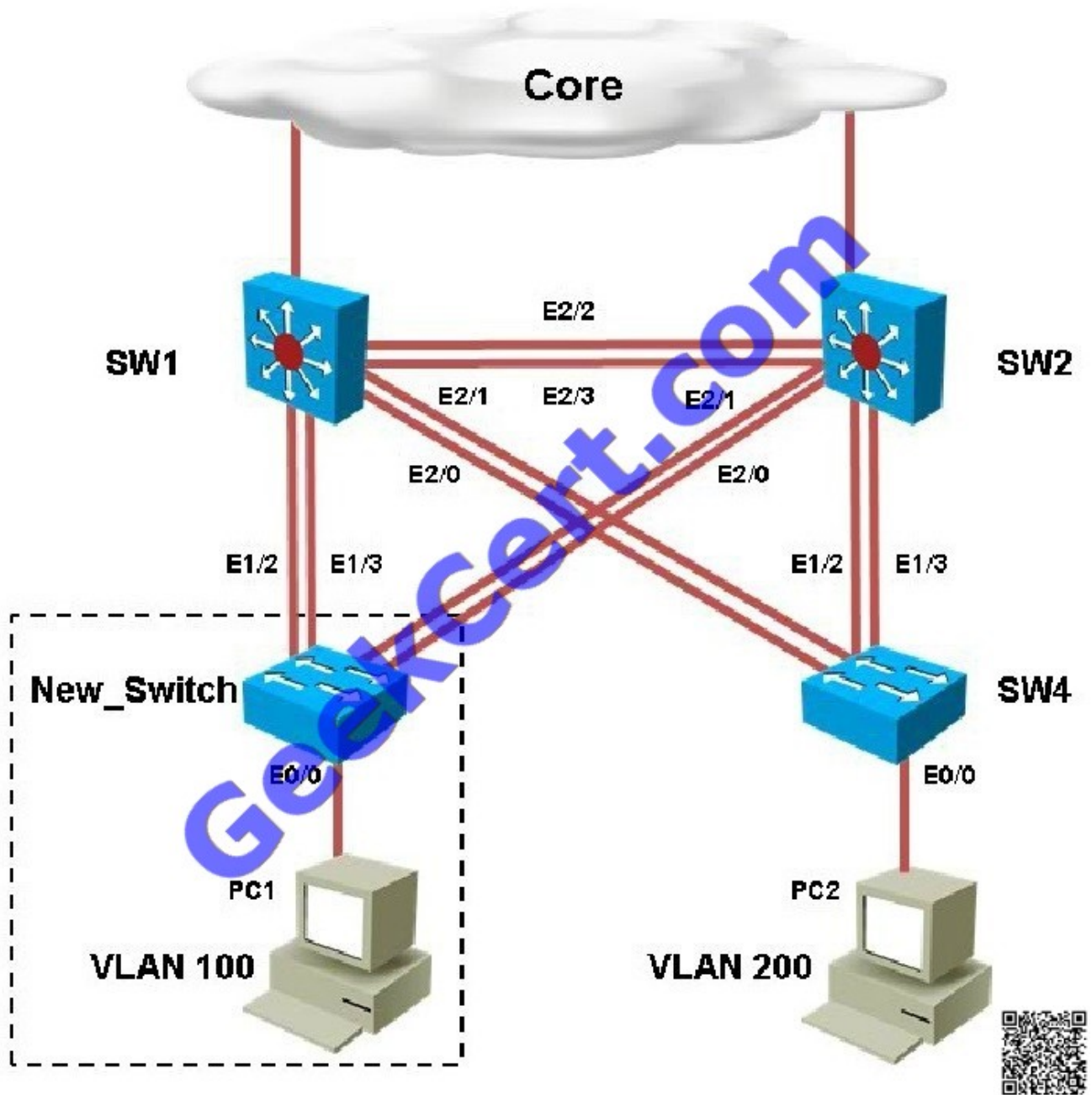
You are connecting the New_Switch to the LAN topology; the switch has been partially configured and you need to complete the rest of configuration to enable PC1 communication with PC2. Which of the configuration is correct?

○ vtp domain CCNP_TEST
  vtp password cisco123
  vtp version 3
  vtp mode server
  int e0/0
  switchport mode access
  switchport access vlan 100

○ vtp domain CCNP_TEST
  vtp password cisco123
  vtp version 3
  vtp mode client
  int e0/0
  switchport mode access
  switchport access vlan 200

○ vtp domain CCNP_TEST
  vtp password cisco123
  vtp version 2
  vtp mode client
  int e0/0
  switchport mode access
  switchport access vlan 100

○ vtp domain CCNP
  vtp password cisco
  vtp version 3
  vtp mode client
  int e0/0
  switchport mode access
  switchport access vlan 100

○ vtp domain CCNP
  vtp password cisco
  vtp version 2
  vtp mode transparent
  int e0/0
  switchport mode access
  switchport access vlan 200

A. Option A

B. Option B

C. Option C

D. Option D

E. Option E

Correct Answer: D

Within any VTP, the VTP domain name must match. So, step one is to find the correct VTP name on the other switches. Logging in to SW1 and using the "show vtp status" command we see this:

```
SW1

SW1#show vtp status
VTP Version capable              : 1 to 3
VTP version running              : 3
VTP Domain Name                  : CCNP
VTP Pruning Mode                 : Enabled
VTP Traps Generation             : Disabled
Device ID                        : aabb.cc00.2500

Feature VLAN:
--------------
VTP Operating Mode               : Server
Number of existing VLANs         : 8
Number of existing extended VLANs : 0
Maximum VLANs supported locally  : 4096
Configuration Revision           : 11
Primary ID                       : aabb.cc00.2b00
Primary Description              : SW1
MD5 digest                       : 0xA2 0xFA 0x6E 0x8D 0xD0 0xDE 0x5A 0xEF
                                   0xE3 0x65 0x9A 0xF7 0x03 0xBF 0xBA 0x10

Feature MST:
```

So we know that the VTP domain must be CCNP. This leaves only choice D and E. We also see from the topology diagram that eth 0/0 of the new switch connects to a PC in VLNA 100, so we know that this port must be an access port in VLAN 100, leaving only choice D as correct. Note that the VTP versions supported in this network are 1, 2, 3 so either VTP version 2 or 3 can be configured on the new switch.

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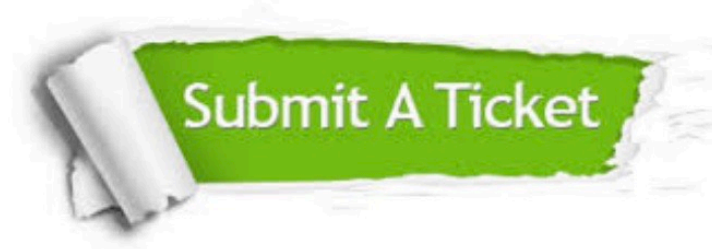
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