642-813^Q&As

Implementing Cisco IP Switched Networks

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QUESTION 1

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.
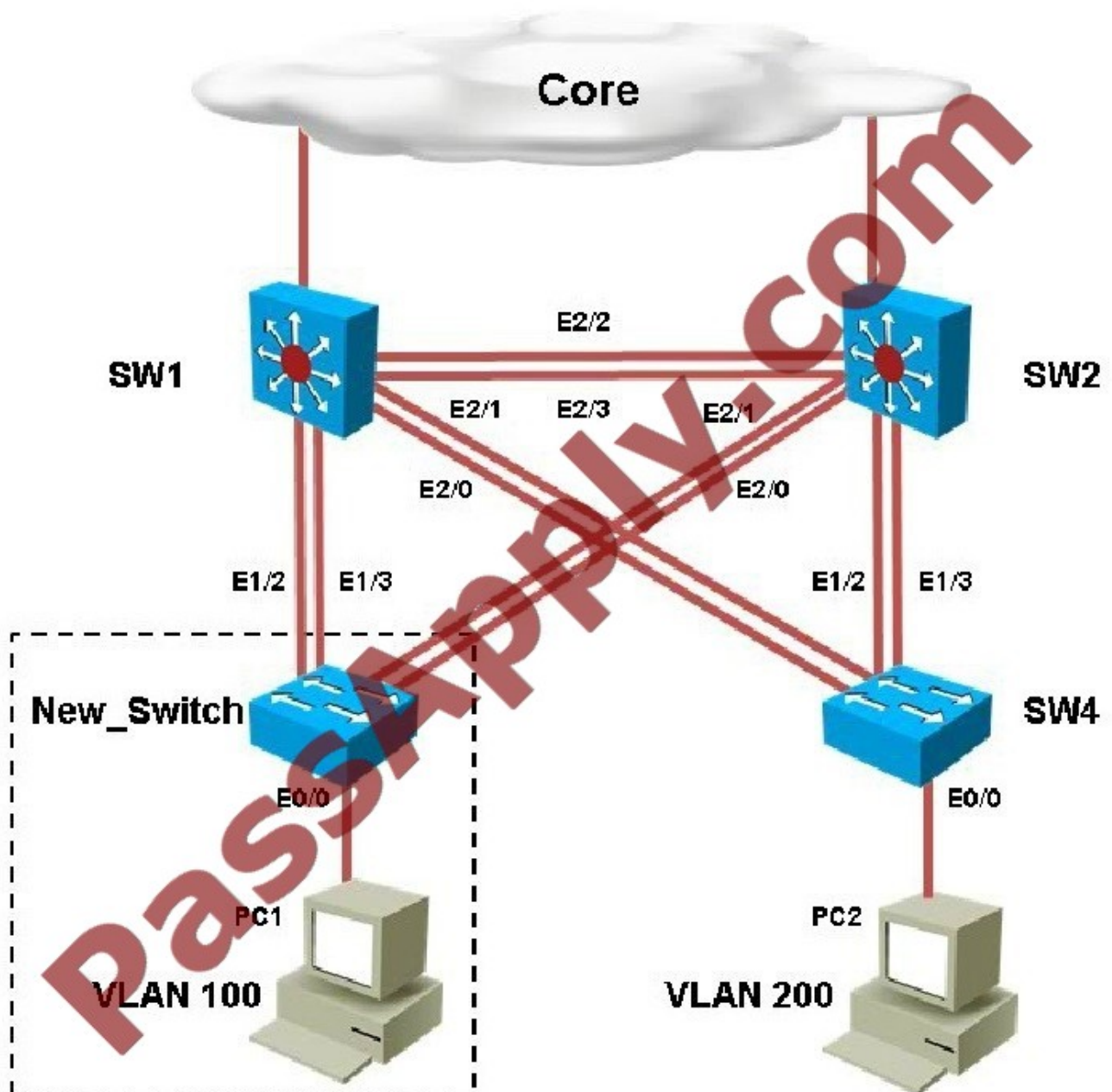
Refer to the configuration. For which configured VLAN are untagged frames sent over trunk between SW1 and SW2?

A. VLAN1

B. VLAN 99

C. VLAN 999

D. VLAN 40

E. VLAN 50

F. VLAN 200

G. VLAN 300

Correct Answer: B

The native VLAN is used for untagged frames sent along a trunk. By issuing the "show interface trunk" command on SW1 and SW2 we see the native VLAN is 99.

```
SW1
SW1#show interfaces trunk

Port      Mode          Encapsulation   Status        Native vlan
Et1/2     on            802.1q          trunking      99
Et1/3     on            802.1q          trunking      99
Et2/0     on            802.1q          trunking      99
Et2/1     on            802.1q          trunking      99
Et2/2     on            802.1q          trunking      99
Et2/3     on            802.1q          trunking      99
```

```
SW2
SW2#show interfaces trunk

Port      Mode          Encapsulation   Status        Native vlan
Et1/2     on            802.1q          trunking      99
Et1/3     on            802.1q          trunking      99
Et2/0     on            802.1q          trunking      99
Et2/1     on            802.1q          trunking      99
Et2/2     on            802.1q          trunking      99
Et2/3     on            802.1q          trunking      99
```

QUESTION 2

Which First Hop Redundancy Protocol is an IEEE Standard?

A. GLBP

B. HSRP

C. VRRP

D. OSPF

Correct Answer: C

QUESTION 3

Which statement describes what happens if all VSL connections between the virtual switch members are lost?

A. Both virtual switch members cease to forward traffic.

B. The VSS transitions to the dual active recovery mode, and both virtual switch members continue to forward traffic independently.

C. The virtual switch members reload.

D. The VSS transitions to the dual active recovery mode, and only the new active virtual switch continues to forward traffic.

Correct Answer: D

QUESTION 4

Which feature is automatically enabled when a voice VLAN is configured, but not automatically disabled when a voice VLAN is removed?

A. portfast

B. port-security

C. spanning tree

D. storm control

Correct Answer: A

QUESTION 5

Refer to the exhibit.

```
Switch#sh int g0/12
GigabitEthernet0/23 is up, line protocol is down (monitoring)
  Hardware is C6k 1000Mb 802.3, address is 001c.f9d4.7500 (bia
  001c.f9d4.750)
  MTU 1500 bytes, DW 1000000 Kbit, DLY 10 usec,
    Reliability 255/255, txload 1/255, rxload 1/255
  Encapsulation ARPA, loopback not set
  Keepalive set (10 sec)
  Full-duplex, 1000Mb/s
```

A network engineer investigates a recent network failure and notices that one of the interfaces on the switch is still down. What is causing the line protocol on this interface to be shown as down?

A. There is a layer 1 physical issue.

B. There is a speed mismatch on the interface.

C. The interface is configured as the target of the SPAN session.

D. The interface is configured as the source of the SPAN session.

E. There is a duplex mismatch on the interface.

Correct Answer: C

QUESTION 6

Which statement about the MAC address sticky entries in the switch when the copy run start command is entered is true?

A. A sticky MAC address is retained when the switch reboots.

B. A sticky MAC address can be a unicast or multicast address.

C. A sticky MAC address is lost when the switch reboots.

D. A sticky MAC address ages out of the MAC address table after 600 seconds.

Correct Answer: A

QUESTION 7

A Cisco Catalyst switch that is prone to reboots continues to rebuild the DHCP snooping database. What is the solution to avoid the snooping database from being rebuilt after every device reboot?

A. A DHCP snooping database agent should be configured.

B. Enable DHCP snooping for all VLANs that are associated with the switch.

C. Disable Option 82 for DHCP data insertion.

D. Use IP Source Guard to protect the DHCP binding table entries from being lost upon rebooting.

E. Apply ip dhcp snooping trust on all interfaces with dynamic addresses.

Correct Answer: A

QUESTION 8

Which statement describes one major issue that VTP can cause in an enterprise network when a new switch is introduced in the network in VTP mode server?

A. It can cause network access ports to go into err-disabled state.

B. It can cause a network-wide VLAN configuration change if the revision number on the new switch is higher.

C. It can cause a network-wide VLAN configuration change if the revision number on the new switch is lower.

D. It can cause routing loops.

Correct Answer: B

QUESTION 9

Refer to the exhibit.

```
*Mar  1 00:16:43.095: %LINK-3-UPDOWN: Interface Vlan11, changed state to up
*Mar  1 00:16:43.099: SB: V111 Interface up
*Mar  1 00:16:43.099: SB11: V111 Init: a/HSRP enabled
*Mar  1 00:16:43.099: SB11: V111 Init -> Listen
*Mar  1 00:16:43.295: SB11: V111 Hello in 172.16.11.112 Active pri 50 ip 172.16.11.115
*Mar  1 00:16:43.295: SB11: V111 Active router is 172.16.11.112
*Mar  1 00:16:43.295: SB11: V111 Listen: h/Hello rcvd from lower pri Active router (50/172.16.11.112)
*Mar  1 00:16:43.295: SB11: V111 Active router is local, was 172.16.11.112
*Mar  1 00:16:43.299: %STANDBY-6-STATECHANGE: Vlan11 Group 11 state Listen -> Active
*Mar  1 00:16:43.299: SB11: V111 Hello out 172.16.11.111 Active pri 100 ip 172.16.11.115
*Mar  1 00:16:43.303: SB11: V111 Hello in 172.16.11.112 Speak pri 50 ip 172.16.11.115
*Mar  1 00:16:46.207: SB11: V111 Hello out 172.16.11.111 Active pri 100 ip 172.16.11.115
*Mar  1 00:16:49.095: SB11: V111 Hello in 172.16.11.112 Speak pri 50 ip 172.16.11.115
```

Based on the debug output, which three statements about HSRP are true? (Choose three.)

A. The final active router is the router with IP address 172.16.11.111.

B. The router with IP address 172.16.11.111 has preempt configured.

C. The priority of the router with IP address 172.16.11.112 is preferred over the router with IP address 172.16.11.111.

D. The IP address 172.16.11.115 is the virtual HSRP IP address.

E. The router with IP address 172.16.11.112 has nonpreempt configured.

F. The router with IP address 172.16.11.112 is using default HSRP priority.

Correct Answer: ABD

QUESTION 10

What effect does the mac address-table aging-time 180 command have on the MAC address-table?

A. This is how long a dynamic MAC address will remain in the CAM table.

B. The MAC address-table will be flushed every 3 minutes.

C. The default timeout period will be 360 seconds.

D. ARP requests will be processed less frequently by the switch.

E. The MAC address-table will hold addresses 180 seconds longer than the default of 10 minutes.

Correct Answer: A

QUESTION 11

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.
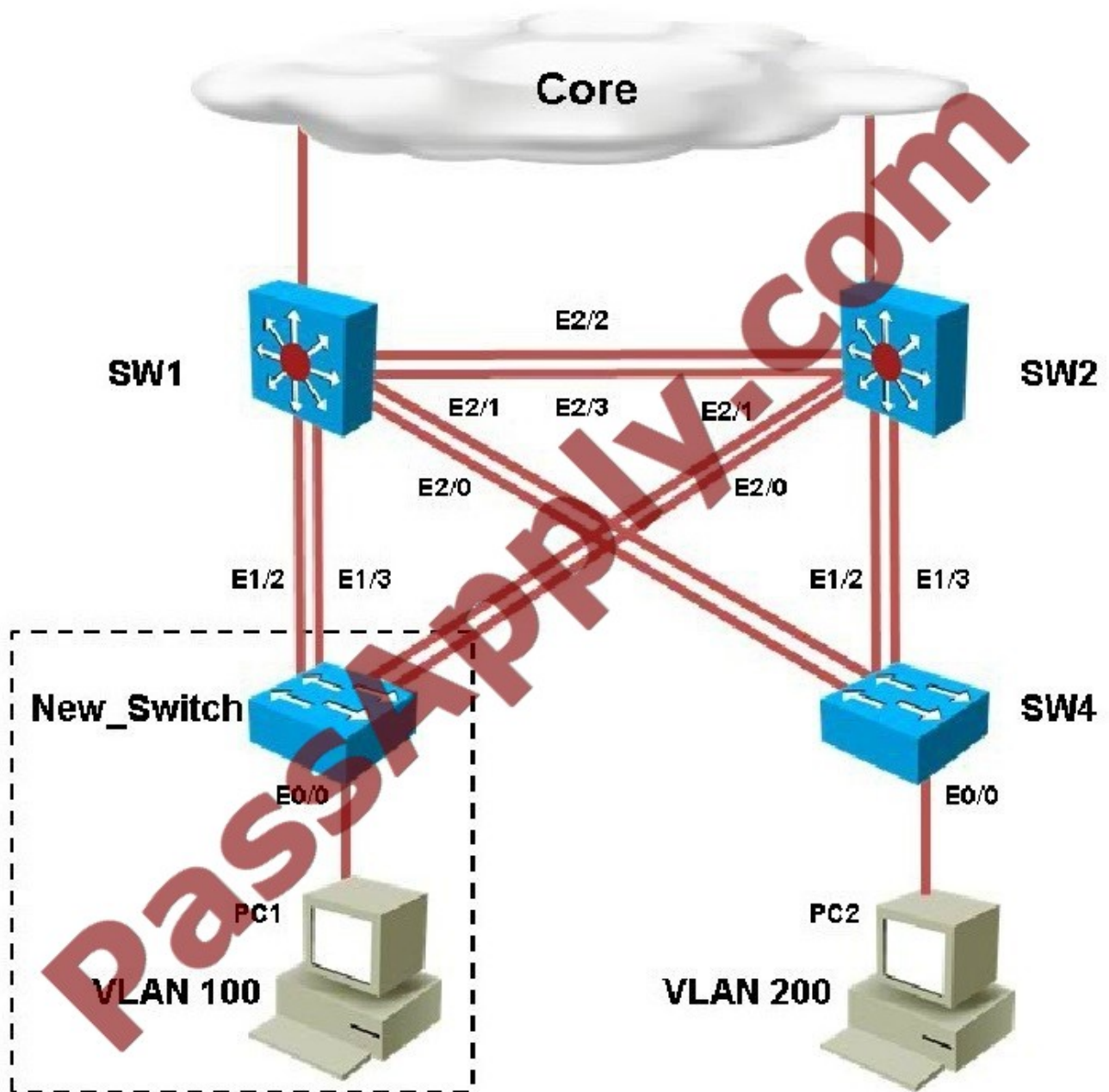
You are adding new VLANs. VLAN500 and VLAN600 to the topology in such way that you need to configure SW1 as primary root for VLAN 500 and secondary for VLAN 600 and SW2 as primary root for VLAN 600 and secondary for VLAN

500. Which configuration step is valid?

A. Configure VLAN 500 and VLAN 600 on both SW1 and SW2

B. Configure VLAN 500 and VLAN 600 on SW1 only

C. Configure VLAN 500 and VLAN 600 on SW2 only

D. Configure VLAN 500 and VLAN 600 on SW1 ,SW2 and SW4

E. On SW2; configure vtp mode as off and configure VLAN 500 and VLAN 600; configure back to vtp server mode.

Correct Answer: A

By issuing the "show vtp status command on SW2, SW2, and SW4 we see that both SW1 and SW2 are operating in VTP server mode, but SW4 is a client, so we will need to add both VLANs to SW1 and SW2.

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
```

SW2

```
SW2#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.cc00.2600

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
```

SW4

```
SW4#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.cc00.2800

Feature VLAN:
--------------
VTP Operating Mode              : Client
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
```

QUESTION 12

Refer to the exhibit.

```
Interface GigabitEthernet1/0/1
  switchport access vlan 10
  switchport trunk encapsulation dot1q
  switchport mode trunk
  switchport voice vlan 11
  spanning-tree portfast
!
```

Which option shows the expected result if a show vlan command is issued?

```
Switch#sh vlan

VLAN Name                    Status    Ports
---- ----------------------  --------  ------------------------------
1    default                 active    G11/0/2, G11/0/3, G11/0/4
                                       G11/0/5, G11/0/6, G11/0/7
                                       G11/0/8, G11/0/9, G11/0/10
                                       G11/0/11, G11/0/12, G11/0/13
                                       G11/0/14, G11/0/15, G11/0/16
                                       G11/0/17, G11/0/18, G11/0/19
                                       G11/0/20, G11/0/21, G11/0/22
                                       G11/0/23, G11/0/24
10   Data                    active
11   Voice                   active
1002 fddi-default            act/unsup
1003 token-ring-default      act/unsup
1004 fddinet-default         act/unsup
1005 trnet-default           act/unsup
```

A.

B.

```
Switch#sh vlan

VLAN Name                             Status     Ports
---- -------------------------------- ---------- -------------------------------
1    default                          active     Gi1/0/2, Gi1/0/3, Gi1/0/4
                                                 Gi1/0/5, Gi1/0/6, Gi1/0/7
                                                 Gi1/0/8, Gi1/0/9, Gi1/0/10
                                                 Gi1/0/11, Gi1/0/12, Gi1/0/13
                                                 Gi1/0/14, Gi1/0/15, Gi1/0/16
                                                 Gi1/0/17, Gi1/0/18, Gi1/0/19
                                                 Gi1/0/20, Gi1/0/21, Gi1/0/22
                                                 Gi1/0/23, Gi1/0/24
10   Data                             active     Gi1/0/1
11   Voice                            active     Gi1/0/1
1002 fddi-default                     act/unsup
1003 token-ring-default               act/unsup
1004 fddinet-default                  act/unsup
1005 trnet-default                    act/unsup
```

C.

```
Switch#sh vlan

VLAN Name                             Status     Ports
---- -------------------------------- ---------- -------------------------------
1    default                          active     Gi1/0/1, Gi1/0/2, Gi1/0/3
                                                 Gi1/0/4, Gi1/0/5, Gi1/0/6
                                                 Gi1/0/7, Gi1/0/8, Gi1/0/9
                                                 Gi1/0/10, Gi1/0/11, Gi1/0/12
                                                 Gi1/0/13, Gi1/0/14, Gi1/0/15
                                                 Gi1/0/16, Gi1/0/17, Gi1/0/18
                                                 Gi1/0/19, Gi1/0/20, Gi1/0/21
                                                 Gi1/0/22, Gi1/0/23, Gi1/0/24
10   Data                             active
11   Voice                            active     Gi1/0/1
1002 fddi-default                     act/unsup
1003 token-ring-default               act/unsup
1004 fddinet-default                  act/unsup
1005 trnet-defaul
```

D.

```
Switch#sh vlan

VLAN Name                             Status     Ports
---- -------------------------------- ---------- -------------------------------
1    default                          active     Gi1/0/2, Gi1/0/3, Gi1/0/4
                                                 Gi1/0/5, Gi1/0/6, Gi1/0/7
                                                 Gi1/0/8, Gi1/0/9, Gi1/0/10
                                                 Gi1/0/11, Gi1/0/12, Gi1/0/13
                                                 Gi1/0/14, Gi1/0/15, Gi1/0/16
                                                 Gi1/0/17, Gi1/0/18, Gi1/0/19
                                                 Gi1/0/20, Gi1/0/21, Gi1/0/22
                                                 Gi1/0/23, Gi1/0/24
10   Data                             active     Gi1/0/1
11   Voice                            active
1002 fddi-default                     act/unsup
1003 token-ring-default               act/unsup
1004 fddinet-default                  act/unsup
1005 trnet-default                    act/unsup
```

B. C. D.

Correct Answer: A

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