



642-813^{Q&As}

Implementing Cisco IP Switched Networks

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**QUESTION 1**

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 2

A network engineer must set the load balance method on an existing port channel. Which action must be done to apply a new load balancing method?

- A. Configure the new load balancing method using port-channel load-balance.
- B. Adjust the switch SDM back to "default".
- C. Ensure that IP CEF is enabled globally to support all load balancing methods.
- D. Upgrade the PFC to support the latest load balancing methods.

Correct Answer: A

QUESTION 3

Which private VLAN access port belongs to the primary VLAN and can communicate with all interfaces, including the community and isolated host ports?

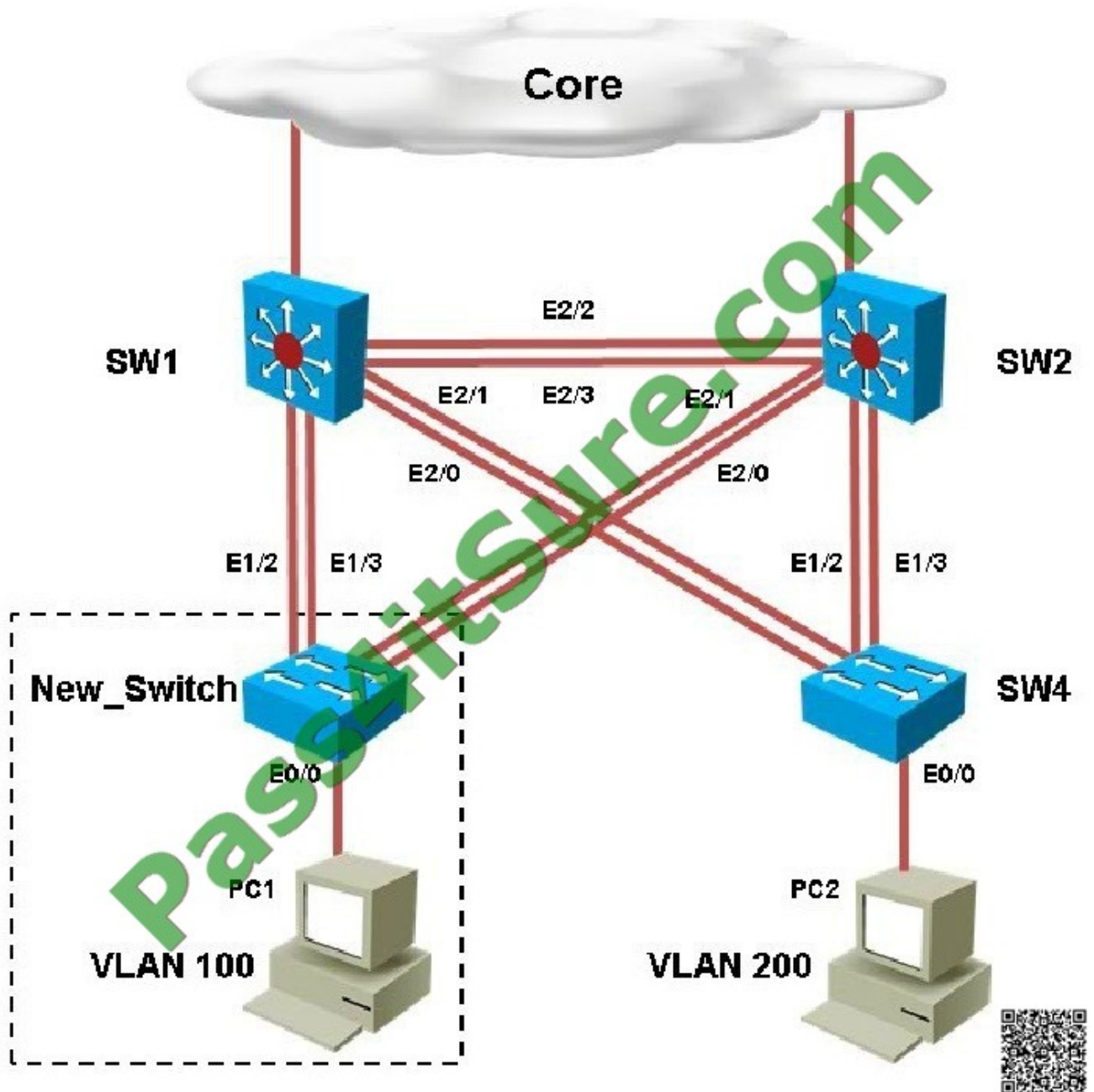
- A. promiscuous port
- B. isolated port
- C. community port
- D. trunk port

Correct Answer: A



QUESTION 4

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 0x
                       0xE3 0x65 0x9A 0xF7 0x03 0xBF 0xBA 0x
```



**QUESTION 5**

Refer to the exhibit.

```
Company A# show vtp status

VTP Version          : 2
Configuration Revision : 0
Maximum VLANs supported locally: 1005
Number of existing VLANs : 9
VTP Operating Mode   : Server
VTP Domain Name      : company
VTP Pruning Mode     : Disabled
VTP V2 Mode          : Disabled
VTP Traps Generation : Disabled

Company B# show vtp status

VTP Version          : 2
Configuration Revision : 2
Maximum VLANs supported locally: 1005
Number of existing VLANs : 42
VTP Operating Mode   : Server
VTP Domain Name      : company
VTP Pruning Mode     : Disabled
VTP V2 Mode          : Disabled
VTP Traps Generation : Disable
```

The network switches for two companies have been connected and manually configured for the required VLANs, but users in company A are not able to access network resources in company B when DTP is enabled. Which action resolves this problem?

- A. Delete vlan.dat and ensure that the switch with lowest MAC address is the VTP server.
- B. Disable DTP and document the VTP domain mismatch.
- C. Manually force trunking with switchport mode trunk on both switches.
- D. Enable the company B switch with the vtp mode server command.

Correct Answer: C



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