



642-813^{Q&As}

Implementing Cisco IP Switched Networks

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QUESTION 1

Several new switches have been added to the existing network as VTP clients. All of the new switches have been configured with the same VTP domain, password, and version. However, VLANs are not passing from the VTP server (existing network) to the VTP clients. What must be done to fix this?

- A. Remove the VTP domain name from all switches with "null" and then replace it with the new domain name.
- B. Configure a different native VLAN on all new switches that are configured as VTP clients.
- C. Provision one of the new switches to be the VTP server and duplicate information from the existing network.
- D. Ensure that all switch interconnects are configured as trunks to allow VTP information to be transferred.

Correct Answer: D

QUESTION 2

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 3

Scenario:

You work for SWITCH.com. They have just added a new switch (SwitchB) to the existing network as shown in the topology diagram.

RouterA is currently configured correctly and is providing the routing function for devices on SwitchA and SwitchB. SwitchA is currently configured correctly, but will need to be modified to support the addition of SwitchB. SwitchB has a minimal

configuration. You have been

tasked with completing the needed configuring of SwitchA and SwitchB. SwitchA and SwitchB use Cisco as the enable password.

Configuration Requirements for SwitchA



The VTP and STP configuration modes on SwitchA should not be modified.

- SwitchA needs to be the root switch for vlans 11, 12, 13, 21, 22 and 23. All other vlans should be left are their default values.

Configuration Requirements for SwitchB

- Vlan 21

Name: Marketing will support two servers attached to fa0/9 and fa0/10

- Vlan 22

Name: Sales will support two servers attached to fa0/13 and fa0/14

- Vlan 23

o Name: Engineering

o will support two servers attached to fa0/15 and fa0/16

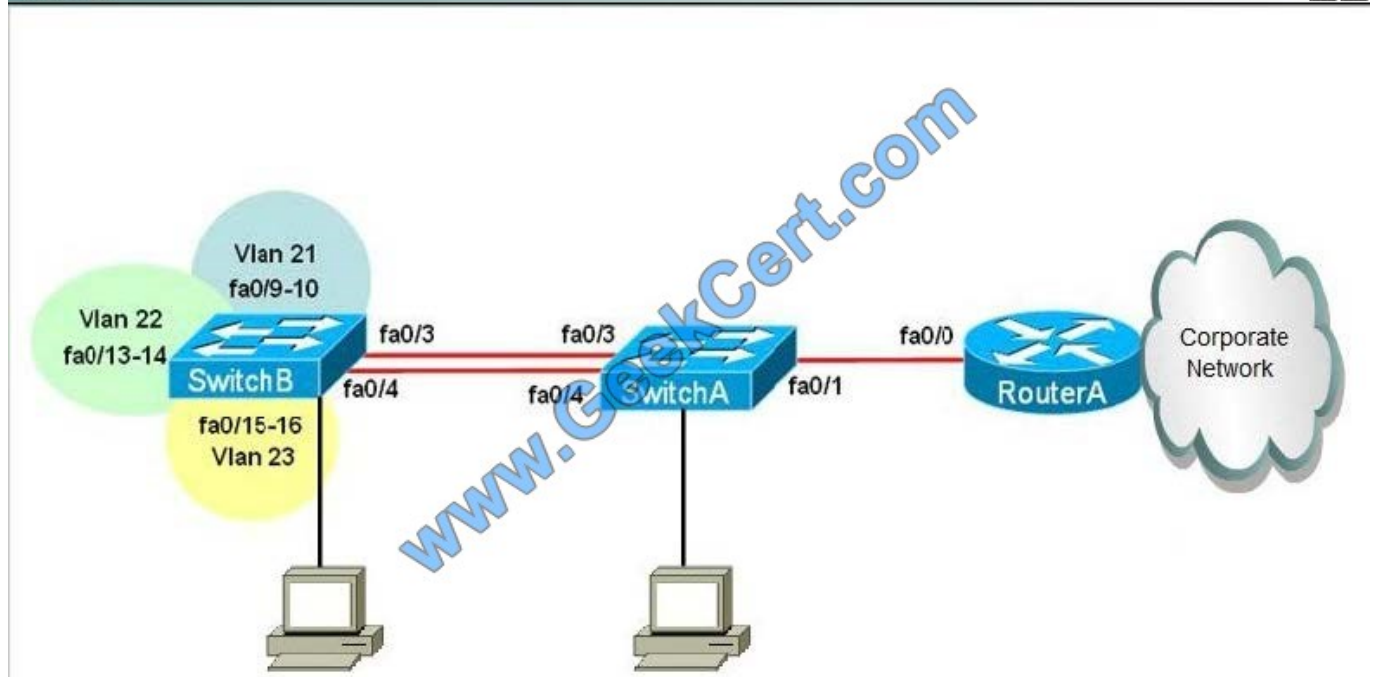
- Access ports that connect to server should transition immediately to forwarding state upon detecting the connection of a device.
- SwitchB VTP mode needs to be the same as SwitchA.
- SwitchB must operate in the same spanning tree mode as SwitchA
- No routing is to be configured on SwitchB
- Only the SVI vlan 1 is to be configured and it is to use address 192.168.1.11/24

Inter-switch Connectivity Configuration Requirements

- For operational and security reasons trunking should be unconditional and Vlans 1, 21, 22 and 23 should tagged when traversing the trunk link.
- The two trunks between SwitchA and SwitchB need to be configured in a mode that allows for the maximum use of their bandwidth for all vlans. This mode should be done with a non-proprietary protocol, with SwitchA controlling activation.
- Propagation of unnecessary broadcasts should be limited using manual pruning on this trunk link.



Topology



Correct Answer:

Explanation/Reference:

Here are steps:

```
hostname SWITCH_B
```

```
!!
```

```
vlan 21
```

```
name Marketing
```

```
vlan 22
```

```
name Sales
```

```
vlan 23
```

```
name Engineering
```

```
!!
```

```
interface FastEthernet0/3
```

```
switchport trunk allowed vlan 1,21-23
```

```
channel-protocol lacp
```

```
channel-group 1 mode passive
```

```
switchport mode trunk
```



!

```
interface FastEthernet0/4  
switchport trunk allowed vlan 1,21-23  
channel-protocol lacp  
channel-group 1 mode passive  
switchport mode trunk
```

!

```
interface FastEthernet0/9  
switchport access vlan 21  
switchport mode access  
spanning-tree portfast
```

!

```
interface FastEthernet0/10  
switchport access vlan 21  
switchport mode access  
spanning-tree portfast
```

!

```
interface FastEthernet0/13  
switchport access vlan 22  
switchport mode access  
spanning-tree portfast
```

!!

```
interface FastEthernet0/14  
switchport access vlan 22  
switchport mode access  
spanning-tree portfast
```

!

```
interface FastEthernet0/15  
switchport access vlan 23
```



switchport mode access

spanning-tree portfast

!

interface FastEthernet0/16

switchport access vlan 23

switchport mode access

spanning-tree portfast

!!

interface GigabitEthernet1/1

!

interface GigabitEthernet1/2

!

interface Port-channel 1

switchport mode trunk

switchport trunk encapsulation dot1q

spanning-tree allowed vlans 1,21-23

!

interface Vlan1

ip address 192.168.1.11 255.255.255.0

!

end

SWITCH_B(config)#

hostname SWITCH_A

!

spanning-tree vlan 11 root primary

spanning-tree vlan 12 root primary

spanning-tree vlan 13 root primary

spanning-tree vlan 21 root primary

spanning-tree vlan 22 root primary



spanning-tree vlan 23 root primary

!

interface FastEthernet0/3

switchport trunk allowed vlan 1,21-23

channel-protocol lacp

channel-group 1 mode active

switchport mode trunk

!

interface FastEthernet0/4

switchport trunk allowed vlan 1,21-23

channel-protocol lacp

channel-group 1 mode active

switchport mode trunk

!

interface FastEthernet0/21

switchport access vlan 21

switchport mode access

!

interface FastEthernet0/22

switchport access vlan 22

switchport mode access

!

interface FastEthernet0/23

switchport access vlan 23

switchport mode access

!

interface GigabitEthernet1/1

!

interface GigabitEthernet1/2



```
!  
  
interface Port-channel 1  
  
!  
  
interface Vlan1  
  
no ip address  
  
shutdown  
  
!  
  
ip default-gateway 192.168.1.1
```

QUESTION 4

What is the maximum number of VLANs that can be assigned to an access switchport without a voice VLAN?

- A. 0
- B. 1
- C. 2
- D. 1024

Correct Answer: B

QUESTION 5

When you design a switched network using VTPv2, how many VLANs can be used to carry user traffic?

- A. 1000
- B. 1001
- C. 1024
- D. 2048
- E. 4095
- F. 4096

Correct Answer: B



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