



200-105^{Q&As}

Interconnecting Cisco Networking Devices Part 2 (ICND2)

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**QUESTION 1**

What is one benefit of PVST+?

- A. PVST+ supports Layer 3 load balancing without loops.
- B. PVST+ reduces the CPU cycles for all the switches in the network.
- C. PVST+ allows the root switch location to be optimized per VLAN.
- D. PVST+ automatically selects the root bridge location, to provide optimized bandwidth usage.

Correct Answer: C

Per VLAN Spanning Tree (PVST)

Introduction

Per VLAN Spanning Tree (PVST) maintains a spanning tree instance for each VLAN configured in the network. It means a switch can be the root bridge of a VLAN while another switch can be the root bridge of other VLANs in a common

topology. For example, Switch 1 can be the root bridge for Voice data while Switch 2 can be the root bridge for Video data. If designed correctly, it can optimize the network traffic.

Reference:

http://www.cisco.com/en/US/tech/tk389/tk621/tk846/tsd_technology_support_sub-protocol_home.html

<http://www.ciscopress.com/articles/article.asp?p=102157&andseqNum=4>

QUESTION 2

Which command do use we to see SNMP version?

- A. show snmp pending
- B. show snmp engineID C. snmp-server something

Correct Answer: A

QUESTION 3

While you were troubleshooting a connection issue, a ping from one VLAN to another VLAN on the same switch failed. Which command verifies that IP routing is enabled on interfaces and the local VLANs are up?

- A. show ip interface brief
- B. show ip nat statistics
- C. show ip statistics



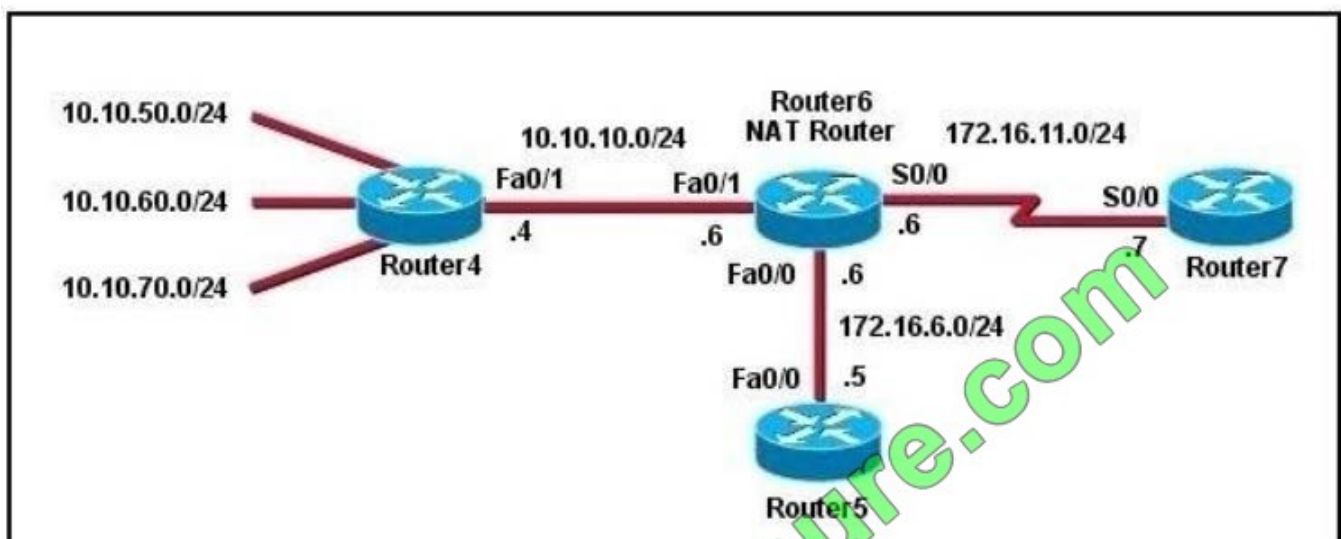
D. show ip route

Correct Answer: A

Initiate a ping from an end device in one VLAN to the interface VLAN on another VLAN in order to verify that the switch routes between VLANs. If the ping fails, verify that IP routing is enabled and that the VLAN interfaces status is up with the show ip interface brief command.

QUESTION 4

Refer to the exhibit. Router4 can ping Router5 (172.16.6.5), but not Router7 (172.16.11.7). There are no routing protocols running in any of the routers, and Router4 has Router6 as its default gateway. What can be done to address this problem?



```
Router-6# show running-configuration
<output omitted>
interface FastEthernet0/0
  ip address 172.16.6.6 255.255.255.0
  ip nat outside
interface FastEthernet0/1
  ip address 10.10.10.6 255.255.255.0
  ip nat inside
interface Serial0/0
  ip address 172.16.11.6 255.255.255.0
  ip nat outside
!
ip nat pool test 172.16.11.70 172.16.11.71 prefix-length 24
ip nat inside source static 10.10.10.4 172.16.6.14
ip nat inside source pool test
```

```
router-7# show ip route
<output omitted>
Gateway of last resort is not set
  172.16.0.0/24 is subnetted, 4 subnets
C       172.16.11.0 is directly connected, Serial0/0
```



- A. Convert to static NAT.
- B. Convert to dynamic NAT.
- C. Add a static route in Router7 back to Router4.
- D. Change the inside and outside NAT commands.

Correct Answer: C

QUESTION 5

The following configuration is applied to a Layer 2 Switch:

```
interface fastethernet 0/4
switchport mode access
switchport port-security
switchport port-security mac-address 0000.1111.1111
switchport port-security maximum 2
switchport port-security
```

What is the result of the above configuration being applied to the switch?

- A. A host with a mac address of 0000.1111.1111 and up to two other hosts can connect to FastEthernet 0/4 simultaneously
- B. A host with a mac address of 0000.1111.1111 and one other host can connect to Fast Ethernet 0/4 simultaneously
- C. Violating addresses are dropped and no record of the violation is kept
- D. The switch can send an SNMP message to the network management station
- E. The port is effectively shutdown

Correct Answer: BD

Reference: http://www.cisco.com/en/US/docs/switches/lan/catalyst4500/12.2/20ewa/configuration/guide/port_sec.html

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