Cisco

Exam Questions 300-115

SWITCH Implementing Cisco IP Switched Networks
NEW QUESTION 1
- (Exam Topic 1)
Which statement describes what happens when a port configured with root guard receives a superior BPDU?

A. The port goes into errdisabled state and stops forwarding traffic.
B. The port goes into BPDU-inconsistent state and stops forwarding traffic.
C. The port goes into loop-inconsistent state and stops forwarding traffic.
D. The port goes into root-inconsistent state and stops forwarding traffic.

Answer: D

NEW QUESTION 2
- (Exam Topic 1)
Which action allows a network engineer to limit a default VLAN from being propagated across all trunks?

A. Upgrade to VTP version 3 for advanced feature set support.
B. Enable VTP pruning on the VTP server.
C. Manually prune default VLAN with switchport trunk allowed vlans remove.
D. Use trunk pruning vlan 1.

Answer: C

NEW QUESTION 3
- (Exam Topic 1)
A network engineer must adjust the STP interface attributes to influence root port selection. Which two elements are used to accomplish this? (Choose two.)

A. port-priority
B. cost
C. forward-timers
D. link type
E. root guard

Answer: AB

NEW QUESTION 4
- (Exam Topic 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.

Answer: D

NEW QUESTION 5
- (Exam Topic 3)
Which feature do you implement so that an interface enters the root inconsistent state if it receives a superior BPDU?

A. DPDU filter
B. root guard
C. BPDU guard
D. loop guard

Answer: B

NEW QUESTION 6
- (Exam Topic 3)
Which causes routers R1 and R2 to be displayed as HSRP active routers for Group 2?

A. The HSRP group numbers do not match
B. The HSRP group authentication is misconfigured.
C. The HSRP Hello packets are blocked
D. The HSRP timers do not match
E. The HSRP group priorities do not match

Answer: B

NEW QUESTION 7
- (Exam Topic 3)
Which two statements about Stack Wise are true? (Choose two)

A. It monitors multiple switches from a central console
B. It enables multiple switch ports to share a single master configuration

Answer:
NEW QUESTION 8
- (Exam Topic 3)
Which database about the switch database management template is true?

A. The default template gives balance to all functions.
B. The default template disables routing and supports the maximum number of unicast MAC addresses.
C. The default template maximizes system resources for access control list.
D. The default template maximizes system resources for unicast routing.

Answer: A

NEW QUESTION 9
- (Exam Topic 3)
SIMULATION
The headquarter office for a cement manufacturer is installing a temporary Catalyst 3550 in an IDF to connect 24 additional users.

To prevent network corruption, it is important to have the correct configuration prior to connecting to the production network.

It will be necessary to ensure that the switch does not participate in VTP but forwards VTP advertisements that are received on trunk ports.

Because of errors that have been experienced on office computers, all non-trunking interfaces should transition immediately to the forwarding state of Spanning Tree. Also configure the user ports (all FastEthernet ports) so that the ports are permanently non-trunking.

Requirement:
You will configure FastEthernet ports 0/12 through 0/24 for users who belong to VLAN 20. Also all VLAN and VTP configurations are to be completed in global configuration mode as VLAN database mode is being deprecated by Cisco. You are required to accomplish the following tasks:
1. Ensure the switch does not participate in VTP but forwards VTP advertisements received on trunk ports.
2. Ensure all non-trunking interfaces (Fa0/1 to Fa0/24) transition immediately to the forwarding state of Spanning-Tree.
3. Ensure all FastEthernet interfaces are in a permanent non-trunking mode.
4. Place FastEthernet interfaces 0/12 through 0/24 in VLAN 20.

A. Mastered
B. Not Mastered

Answer: A

Explanation:
/Reference:
Console into the Switch
Switch>enable
Switch#configure terminal
Switch(config)#interface range fa0/1 – 24
Switch(config-if-range)#switchport mode access <<Make all FastEthernet interfaces into access mode. Switch(config-if-range)#spanning-tree portfast <<Enables the PortFast on interface.
Next, we need to assign FastEthernet ports 0/12 through 0/24 to VLAN 20. By default, all ports on the switch are in VLAN 1. To change the VLAN associated with a port, you need to go to each interface (or a range of interfaces) and tell it which VLAN to be a part of.
Switch(config-if-range)#interface range fa0/12 – 24
Switch(config-if-range)#switchport access vlan 20 <<Make these ports members of vlan 20
Switch(config-if-range)#exit
Next we need to make this switch in transparent mode. In this mode, switch doesn’t participate in the VTP domain, but it still forwards VTP advertisements through any configured trunk links.
Switch(config)#vtp mode transparent Switch(config)#exit
Switch#copy running-config startup-config

NEW QUESTION 10
- (Exam Topic 3)
Which of the following commands can be issued without interfering with the operation of loop guard?

A. Switch(config-if)#spanning-tree guard root
B. Switch(config-if)#spanning-tree portfast
C. Switch(config-if)#switchport mode trunk
D. Switch(config-if)#switchport mode access

Answer: C

NEW QUESTION 11
- (Exam Topic 3)
If all devices on an EtherChannel are sending traffic to a single MAC address, which two methods of load balancing on the EtherChannel are preferred? (Choose two.)
A. destination-MAC  
B. dest-source-MAC  
C. destination-IP  
D. source-MAC  
E. source-IP  

**Answer:** BD

**NEW QUESTION 12**  
- (Exam Topic 4)  
in a Cisco StackWise Virtual environment, which planes on the component devices are virtually combined in the common logical switch?  
A. management and data only  
B. control and data only  
C. control and management only  
D. control, data, and management  

**Answer:** C

**NEW QUESTION 13**  
- (Exam Topic 4)  
Which two commands display the VLANs that are present in the VLAN database? (Choose two)  
A. show vlan brief  
B. show running-config  
C. show vlan  
D. show vlan database  
E. show vlan id  

**Answer:** AC

**NEW QUESTION 14**  
- (Exam Topic 4)  
Which VTP mode you configure on a VTP domain so that the switch with the highest VTP configuration revision number in the domain propagates VLAN information to the other switches?  
A. client mode  
B. server mode  
C. off mode  
D. transparent mode  

**Answer:** B

**NEW QUESTION 15**  
- (Exam Topic 4)  
Which command is required for root guard for Cisco device to place ID:2071948x? (Where x is the last digit ID)  
A. (config if)# spanning-tree guard root  
B. (config)# spanning-tree guard root  
C. (config-if)# spanning-tree guard root  
D. (config)# spanning-tree root guard  

**Answer:** A

**NEW QUESTION 16**  
- (Exam Topic 4)  
Which security feature inspects ARP packets based on valid-to-MAC address bindings?  
A. DAI  
B. BPDU guard  
C. port security  
D. IP Source Guard  

**Answer:** A

**NEW QUESTION 17**  
- (Exam Topic 4)  
Which device type can act as a client in a system that uses TACACS+?  
A. router  
B. ADserver  
C. end user wireless device  
D. end user workstation  

**Answer:** B
NEW QUESTION 18
- (Exam Topic 4)
Which feature do you implement so that a physical port enters the loop inconsistent state if it fails to receive BPDUs?

A. loop guard
B. loop disable
C. root guard
D. flex links
E. BPDU ignore
F. loop block

Answer: A

NEW QUESTION 19
- (Exam Topic 4)
For which reason does an administrator disable MAC address learning within a VLAN?

A. to configure a VLAN as an SVI
B. to free up space in the MAG address table
C. to implement port security
D. to reduce flooding in the network

Answer: C

NEW QUESTION 20
- (Exam Topic 4)
Which two statements about VRRP are true? (Choose Two)

A. Preemption is not supported
B. It support clear text authentication only
C. It uses a shared vip to support default gateway redundancy
D. It requires each device in the group to participate in the same dynamic routing protocol.
E. It can use a single virtual address to provide default gateways redundancy

Answer: CD

Explanation:

NEW QUESTION 21
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