



# 300-115<sup>Q&As</sup>

Implementing Cisco IP Switched Networks

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### QUESTION 1

Which two commands should we use to check the IP source guard bindings? (Choose two.)

- A. show dhcp snooping binding
- B. show dhcp snooping binding database
- C. show ip verify source
- D. show ip source binding

Correct Answer: CD

---

### QUESTION 2

Which of the following HSRP router states does an active router enter when it is preempted by a higher priority router?

- A. active
- B. speak
- C. learn
- D. listen
- E. init
- F. standby

Correct Answer: B

---

### QUESTION 3



```
R2#show standby
FastEthernet1/0 - Group 40
  State is Standby
    4 state changes, last state change 00:01:51
  Virtual IP address is 10.10.1.1
  Active virtual MAC address is 0000.0c07.ac28 (MAC Not In Use)
  Local virtual MAC address is 0000.0c07.ac28 (v1 default)
  Hello time 3 sec, hold time 10 sec
  Next hello sent in 1.856 secs
  Preemption disabled
  Active router is 10.10.1.3, priority 85 (expires in 8.672 sec)
  Standby router is local
  Priority 90 (configured 90)
  Track interface FastEthernet0/0 state Up decrement 10
  Group name is "hsrp-Fa1/0-40" (default)
```

Refer to the exhibit. Which two statements can be derived from the output of the show standby command? Choose two

- A. R2 Fa1/0 regains mastership when the link comes back up
- B. R2 becomes the active router after the hold time expires
- C. if Fa0/0 is shut down, the HSRP priority on R2 becomes 80
- D. R2 is using the default HSRP hello and hold timers

Correct Answer: CD

#### QUESTION 4

Which two statements about VTP modes are true? (Choose two.)

- A. Private VLANs are supported on devices that run VTP version 2 in transparent mode.
- B. Extended VLANs are supported only on devices that run VTP version 3 in server mode
- C. When VTP pruning is enabled on a VTP server, it is enabled for the entire management domain.
- D. Extended VLANs are supported only on devices that run VTP version 3 in client mode.
- E. Private VLANs are supported on devices that run any version of VTP in server mode.

Correct Answer: AC



#### QUESTION 5

Which two actions are possible when you are configuring port-security?(choose two)

- A. Port will be error disabled
- B. Port will be shutdown
- C. Port will drop traffic
- D. Port will send logs

Correct Answer: AD

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#### QUESTION 6

What would happen if IEEE was VLAN 99 as native? (Choose two.)

- A. VLAN 1 tagged as 99
- B. VLAN 1 untagged as 99
- C. VLAN 99 tagged as 1
- D. VLAN 99 untagged as 1

Correct Answer: AB

---

#### QUESTION 7

Refer to the exhibit. Why is there a mismatch?



```
Switch1# sh etherchannel summary
```

```
Number of channel-groups in use: 1  
Number of aggregators: 1  
Group Port-channel Protocol Ports  
1 Po1(SU) LACP Fa0/1(P), Fa0/2(P)
```

```
Switch2# sh etherchannel summary  
Number of channel-groups in use: 1  
Number of aggregators: 1  
Group Port-channel Protocol Ports  
1 Po1(SU) Fa0/1(P)
```

- A. Port channel has not been configured properly
- B. Too few ports in Switch2.
- C. Too many ports in Switch1.
- D. Protocol mismatch

Correct Answer: A

#### QUESTION 8

Which component does the GLBP client cache stores for each host of a particular GLBP group?

- A. IP address
- B. MAC address
- C. VLAN
- D. Token ring
- E. DCSP

Correct Answer: B

#### QUESTION 9

Which two StackWise configuration setting types are applied at the system level? (Choose two.)



- A. port-security settings
- B. VLAN settings
- C. speed/duplex settings
- D. SNMP settings
- E. 802.1k settings

Correct Answer: BD

---

#### QUESTION 10

Which three features about TACACS+ are true? (Choose three.)

- A. It supports TCP port 49
- B. It supports packet encryption
- C. It supports client-server architecture
- D. It supports client-private cloud architecture

Correct Answer: ABD

---

#### QUESTION 11

Which two beneficial features are used for VTPv3? (Choose two.)

- A. It supports the whole IEEE 802.1Q VLAN range up to 4095
- B. It can transfer information based on PVLAN structure
- C. It supports the whole IEEE 802.1Q VLAN range up to 1005.
- D. It can transfer information based on CDP structure

Correct Answer: AB

---

#### QUESTION 12

A question about UDLD. udld setting udld setting int f0/5 udld setting aggressive What happens if interface f0/5 has been damaged?

- A. Other interface will recover.
- B. All links go down



C. link stays up

Correct Answer: A

---

### QUESTION 13

Which of the following commands are valid to configure DHCP snooping with Dynamic ARP Inspection for a VLAN? (Choose four.)

- A. (config)# ip dhcp snooping vlan arp trust
- B. (config)# ip dhcp snooping
- C. (config)# ip dhcp snooping vlan 10
- D. (config)# ip arp inspection vlan 10
- E. (config)# interface ethernet 0/0 (config-if)# ip dhcp snooping trust (config-if)# ip arp inspection trust
- F. (config)# interface ethernet 0/0 (config-if)# ip dhcp arp inspect-snoop trust

Correct Answer: BCDE

---

### QUESTION 14

Which two statements are true of root guard? (Choose two.)

- A. Configure root guard to automatically change a designated port to a root port.
- B. Configure uplinkfast on an enabled root guard interface to protect the root status of a switch.
- C. Configure root guard to ensure that root guard enabled ports become designated ports.
- D. Configure root guard to prevent an unauthorized switch from becoming the root switch.
- E. Issue a no shutdown command to recover a port from the root-inconsistent state.

Correct Answer: CD

---

### QUESTION 15

Which statement about the UDLD protocol is true?

- A. UDLD is a Cisco-proprietary Layer 2 protocol that enables devices to monitor the physical status of links and detect unidirectional failures.
- B. UDLD is a Cisco-proprietary Layer 2 protocol that enables devices to advertise their identity, capabilities, and



neighbors on a local area network.

C. UDLD is a standardized Layer 2 protocol that enables devices to monitor the physical status of links and detect unidirectional failures.

D. UDLD is a standardized Layer 2 protocol that enables devices to advertise their identity, capabilities, and neighbors on a local area network.

Correct Answer: A

The Cisco-proprietary UDLD protocol monitors the physical configuration of the links between devices and ports that support UDLD. UDLD detects the existence of

unidirectional links. When a unidirectional link is detected, UDLD puts the affected port into the errdisabled state and alerts the user.

Reference:

<http://www.cisco.com/en/US/docs/switches/lan/catalyst6500/ios/12.2SX/configuration/guide/udld.html>

---

#### QUESTION 16

Which options of VLANs IDs are in extended range? (Choose three)

A. 1006

B. 1001

C. 999

D. 4021

E. 3003

F. 99

Correct Answer: ADE

---

#### QUESTION 17

Which type of information does the DHCP snooping binding database contain?

A. untrusted hosts with leased IP addresses

B. trusted hosts with leased IP addresses

C. untrusted hosts with available IP addresses

D. trusted hosts with available IP addresses

Correct Answer: A

DHCP snooping is a security feature that acts like a firewall between untrusted hosts and trusted DHCP servers. The





DHCP snooping feature performs the following activities: Validates DHCP messages received from untrusted sources and filters out invalid messages.

Rate-limits DHCP traffic from trusted and untrusted sources. Builds and maintains the DHCP snooping binding database, which contains information about untrusted hosts with leased IP addresses.

Utilizes the DHCP snooping binding database to validate subsequent requests from untrusted hosts. Reference: <http://www.cisco.com/c/en/us/td/docs/switches/lan/catalyst6500/ios/12-2SX/configuration/guide/book/snoodhcp.pdf>

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#### QUESTION 18

Which two statements about HSRP are true?(Choose two.)

- A. you must manually configure ICMP redirect messages on HSRP interfaces
- B. It is supported on switch virtual interfaces and routed ports
- C. Primary and secondary HSRP switches forward traffic in a round-robin style
- D. The interfaces in a HSRP group share a virtual MAC address
- E. An HSRP group can support a maximum of eight switches.

Correct Answer: BD

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#### QUESTION 19

Which information in a RADIUS access request packet is encrypted?

- A. username and password
- B. entire payload
- C. entire header
- D. password

Correct Answer: A

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#### QUESTION 20

A physical switch port is part of an EtherChannel group. What happens while the same port is configured as a SPAN destination?

- A. The port is removed from the EtherChannel group.
- B. The operation is not allowed as an EtherChannel member cannot be a SPAN source port.
- C. The port forwards traffic in the EtherChannel group and acts as a SPAN source simultaneously.
- D. The port is put in the errdisabled state and can only be re-enabled manually.



Correct Answer: A

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#### QUESTION 21

Which two options about Multichassis EtherChannel are true? (Choose two.)

- A. supports PagP only
- B. supports LACP only
- C. supports PagP and LACP
- D. <http://certbus.com>

Correct Answer: AB

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#### QUESTION 22

Which three statements are true of a default HSRP configuration? (Choose three)

- A. The Standby hello time is 2 seconds
- B. Two HSRP groups are configured
- C. The Standby track interface priority decrement is 10.
- D. The Standby hold time is 10 seconds
- E. The Standby priority is 100
- F. The Standby delay is 3 seconds

Correct Answer: CDE

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#### QUESTION 23

If a switch that is configured globally with DHCP snooping receives a packet that has DHCP Option-82 set to 192.168.1.254, how does the switch handle the packet?

- A. It replaces the source MAC address of the packet with its own MAC address and forwards the packet
- B. It forwards the packet normally
- C. It sends a proxy ARP request for the MAC address of 192.168.1.254
- D. It drops the packet



- E. It removes the Option-82 information from the packet and forwards the packet
- F. It replaces the source IP address of the packet with its own management IP address and forwards the packet

Correct Answer: B

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#### QUESTION 24

Which two StackWise configuration setting types are applied at the system level? (Choose two.)

- A. port-security settings
- B. VLAN settings
- C. speed/duplex settings
- D. SNMP settings
- E. 802.1k settings

Correct Answer: BD

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#### QUESTION 25

Which two statements about sticky MAC address learning are true? (Choose two.)

- A. A single device can learn up to three sticky MAC addresses.
- B. Devices can learn sticky MAC addresses dynamically.
- C. Learned addresses are saved to the startup configuration file by default.
- D. Learned addresses are saved to the running configuration by default.
- E. Learned addresses are automatically preserved when the device reboots.
- F. It can be used only on devices that operate in a single layer.

Correct Answer: BD

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#### QUESTION 26

Which statements about RSPAN are true? (Choose two.)

- A. It supports MAC address learning.
- B. RSPAN VLANs can carry RSPAN traffic only.
- C. only one RSPAN VLAN can be configured per device.
- D. RSPAN VLANs are exempt from VTP pruning.



- E. MAC address learning is not supported.
- F. RSPAN uses GRE tunnel to transmit captured traffic.

Correct Answer: BC

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#### QUESTION 27

Which form of centralized devices authentication allows each AAA feature to function separately?

- A. local database
- B. RADIUS
- C. Kerberos
- D. TACACS+

Correct Answer: D

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#### QUESTION 28

Which of the following commands are valid to configure DHCP snooping with Dynamic ARP Inspection for a VLAN?  
(Choose four.)

- A. (config)# ip dhcp snooping vlan arp trust
- B. (config)# ip dhcp snooping
- C. (config)# ip dhcp snooping vlan 10
- D. (config)# ip arp inspection vlan 10
- E. (config)# interface ethernet 0/0 (config-if)# ip dhcp snooping trust (config-if)# ip arp inspection trust
- F. (config)# interface ethernet 0/0 (config-if)# ip dhcp arp inspect-snoop trust

Correct Answer: BCDE

---

#### QUESTION 29

If switch SW1 is connected in a mesh with four other switches and all switches retain the default configuration, which command do you enter on SW1 interface to make it the root bridge for all VLANs?

- A. SW1(config)#spanning-tree port-priority 129
- B. SW1(config)#spanning-tree port-priority 127
- C. SW1(config-if)#spanning-tree port-priority 129



D. SW1(config-if)#spanning-tree port-priority 127

Correct Answer: D

---

### QUESTION 30

In which UDLD mode does a link remain up, even when a unidirectional link failure is detected?

- A. aggressive
- B. enable
- C. reset
- D. normal

Correct Answer: A

---

### QUESTION 31

Which two packet types for authentication and authorization are used in TACACS+? (Choose two.)

- A. request
- B. continue
- C. response
- D. start
- E. stop

Correct Answer: AC

---

### QUESTION 32

Your manager asked you to make every port on your switch bypass the normal spanning-tree timers which includes your uplink to other switches. What two commands can you apply on the interfaces? (Choose two.)

- A. spanning-tree portfast
- B. spanning-tree portfast default
- C. spanning-tree portfast access
- D. spanning-tree portfast trunk

Correct Answer: AD

---



### QUESTION 33

Which SDM template disables routing and supports the maximum number of unicast MAC addresses?

- A. VLAN
- B. access
- C. default
- D. routing

Correct Answer: A

To allocate ternary content addressable memory (TCAM) resources for different usages, the switch SDM templates prioritize system resources to optimize support for certain features. You can select SDM templates to optimize these features:

Access--The access template maximizes system resources for access control lists (ACLs) to accommodate a large number of ACLs. Default--The default template gives balance to all functions. Routing--The routing template maximizes

system resources for IPv4 unicast routing, typically required for a router or aggregator in the center of a network.

VLANs--The VLAN template disables routing and supports the maximum number of unicast MAC addresses. It would typically be selected for a Layer 2 switch.

Reference:

[http://www.cisco.com/en/US/docs/switches/lan/catalyst3560/software/release/12.2\\_55\\_se/configuration/guide/swsdm.pdf](http://www.cisco.com/en/US/docs/switches/lan/catalyst3560/software/release/12.2_55_se/configuration/guide/swsdm.pdf)

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### QUESTION 34

If you enable etherchannel guard misconfig on all trunk ports and after switch reboot found that 1 port in trunk is in err-disable state. What would be the cause?

- A. Due to EtherChannel misconfiguration this happened.
- B. <http://certbus.com>
- C. <http://certbus.com>
- D. <http://certbus.com>

Correct Answer: A

---

### QUESTION 35

A question about configuring AAA TACACS+ authentication with fall back to local user database and commands were

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given?

- A. aaa authentication login default tacacs+ local
- B. http://certbus.com
- C. http://certbus.com
- D. http://certbus.com

Correct Answer: A

---

### QUESTION 36

Which two commands or combination of commands make native VLAN 99 tagged? (Choose two.)

- A. vlan dot1q tag native
- B. vlan dot1q tag native vlan 99
- C. interface fa0/1 switchport trunk native vlan 99
- D. encapsulation dot1q tag native vlan 99
- E. encapsulation dot1q 99 native

Correct Answer: AC

---

### QUESTION 37

After the recent upgrade of the switching infrastructure, the network engineer notices that the port roles that were once "blocking" are now defined as "alternate" and "backup." What is the reason for this change?

- A. The new switches are using RSTP instead of legacy IEEE 802.1D STP.
- B. IEEE 802.1D STP and PortFast have been configured by default on all newly implemented Cisco Catalyst switches.
- C. The administrator has defined the switch as the root in the STP domain.
- D. The port roles have been adjusted based on the interface bandwidth and timers of the new Cisco Catalyst switches.

Correct Answer: A

RSTP works by adding an alternative port and a backup port compared to STP. These ports are allowed to immediately enter the forwarding state rather than passively wait for the network to converge. RSTP bridge port roles: Root port A forwarding port that is the closest to the root bridge in terms of path cost Designated port A forwarding port for every LAN segment Alternate port A best alternate path to the root bridge. This path is different than using the root port. The alternative port moves to the forwarding state if there is a failure on the designated port for the segment. Backup port A backup/redundant path to a segment where another bridge port already connects. The backup port applies only when a single switch has two links to the same segment (collision domain). To have two links to the same collision domain, the switch must be attached to a hub. Disabled port Not strictly part of STP, a network administrator can manually disable a



port Reference: <http://www.cisco.com/c/en/us/support/docs/lan-switching/spanning-tree-protocol/24062-146.html>

---

### QUESTION 38

Which command enables a RADIUS server configuration to use vendor-proprietary attributes?

- A. radius-server host non-standard
- B. radius-server attribute nas-port extended
- C. radius-server configure-nas
- D. radius-server vsa send authentication

Correct Answer: D

---

### QUESTION 39

The following command was issued on a router that is being configured as the active HSRP router.

```
standby ip 10.2.1.1
```

Which statement is true about this command?

- A. This command will not work because the HSRP group information is missing
- B. The HSRP MAC address will be 0000 0c07 ac00
- C. The HSRP MAC address will be 0000 0c07 ac01.
- D. The HSRP MAC address will be 0000.070c ad01.
- E. This command will not work because the active parameter is missing

Correct Answer: B

---

### QUESTION 40

Drag the description from the left to add on appropriate section on right

Select and Place:





port self recovery

protect designated port from receiving superior BPDU

a better BPDU disables the port as err-disabled

detecting unidirectional switching links

Guard Root

Guard Loop

QR code

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Correct Answer:

Guard Root

a better BPDU disables the port as err-disabled

Guard Loop

protect designated port from receiving superior BPDU

detecting unidirectional switching links

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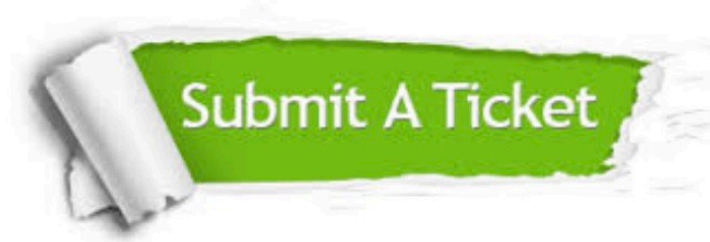
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