

Exam : Cisco 642-055

**Title : Cisco® ARSFE Advanced
Routing and Switching for
Field Engineers**

Version : Demo

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1. Which two commands can you use to confirm the native VLAN on the active trunk interface GigabitEthernet0/1 if only user EXEC privileges are available? (Choose two.)

- A. show vlan
- B. show vlan dot1q tag native
- C. show interface GigabitEthernet0/1 trunk
- D. show interface GigabitEthernet0/1 switchport
- E. show interface GigabitEthernet0/1 capabilities

Answer: CD

2. Refer to the exhibit. Assuming that Switch_A is correctly configured, which two configuration options, when configured on the GigabitEthernet2/1 and GigabitEthernet2/2 interfaces of Switch_B, will allow the EtherChannel bundle to come up? (Choose two.)

```
Output from Switch_A
!
Switch_A#configure terminal
Switch_A(config)#interface range gigabitEthernet 0/5 - 6
Switch_A(config-if-range)#no shutdown
%LINK-3-UPDOWN: Interface GigabitEthernet0/5, changed state to down
%LINK-3-UPDOWN: Interface GigabitEthernet0/6, changed state to down
FEC: pagp_switch_port_up: Gi0/5
FEC: pagp_switch_invoke_port_up: Gi0/5
FEC: pagp_switch_port_up: Gi0/6
FEC: pagp_switch_invoke_port_up: Gi0/6
%LINK-3-UPDOWN: Interface GigabitEthernet0/5, changed state to up
%LINK-3-UPDOWN: Interface GigabitEthernet0/6, changed state to up
%EC-5-L3DONTBNDL1: Gi0/6 suspended: PAgP not enabled on the remote port.
%EC-5-L3DONTBNDL1: Gi0/5 suspended: PAgP not enabled on the remote port.

Output from Switch_B
!
Switch_B#show running-config
! output omitted
!
interface GigabitEthernet2/1
description Switch_B Gi2/1-2 to Switch_A Gi0/5-6
no switchport
no ip address
speed 1000
duplex full
!
interface GigabitEthernet2/2
description Switch_B Gi2/1-2 to Switch_A Gi0/5-6
no switchport
no ip address
speed 1000
duplex full
!
```

- A. channel-group 10 mode active
- B. channel-group 10 mode auto
- C. channel-group 10 mode desirable

- D. channel-group 10 mode on
- E. channel-group 10 mode passive

Answer: BC

3. Refer to the exhibit. Which command will correctly set the holdtime for HSRP Group 11 to 300 milliseconds?

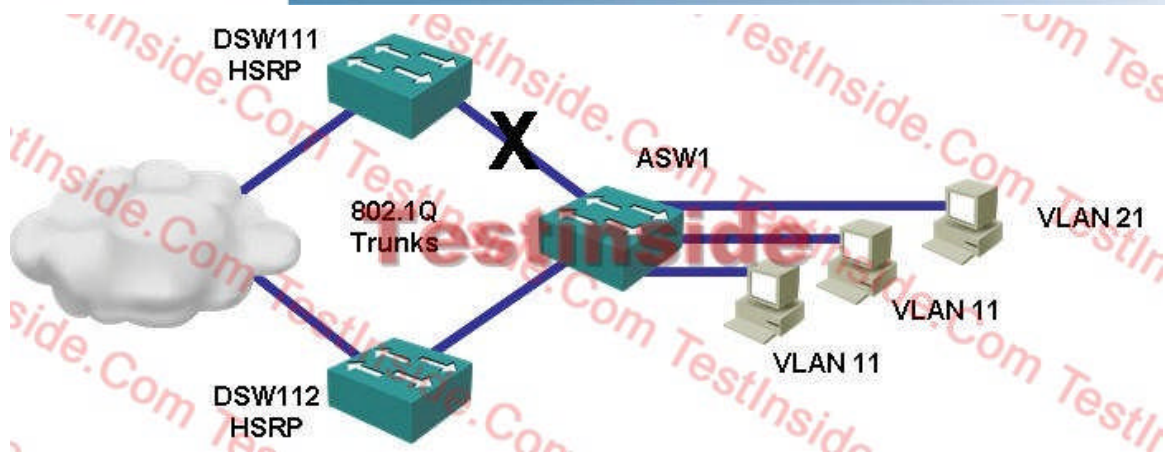
Output from Switch_A

```
Switch_A#show standby vlan 11
Vlan11 - Group 11
Local state is Active, priority 200, may preempt
Hellogtime 100 msec, holdtime 1 sec
Next hello sent in 0.024
Virtual IP address is 172.16.11.115 configured
Active router is local
Standby router is 172.16.11.112 expires in 0.924
Virtual mac address is 0000.0c07.ac0b
l state changes, last state change 16:10:30
IP redundancy name is "hsrp-V111-11" (default)
Priority tracking 2 interfaces or objects, 2 up:
Interface or object      Decrement  State
Port-channel10           50         Up
Port-channel11           50         Up
```

- A. standby 11 timers holddown msec 100
- B. standby 11 timers msec 300 msec 100
- C. standby 11 timers msec 100 msec 300
- D. standby 11 timers msec 100 holddown

Answer: C

4. Refer to the exhibit. Users complain that they intermittently lose data and connections to important servers. After investigation, you discover that the 802.1Q trunk between DSW111 and ASW1 is down. Even though the HSRP group 11 is being serviced by DSW112, you discover that the SVI for VLAN 11 is in the up state on DSW111. Which three Cisco Catalyst IOS commands should you use on DSW111 to find the source of this problem? (Choose three.)



- A. show vtp status
- B. show interfaces vlan 11
- C. show standby vlan 11 brief
- D. show spanning-tree vlan 11
- E. show interfaces <fast | gig> mod/port trunk

Answer: BDE

5. Refer to the exhibit. What is the HSRP state and priority of this interface after HSRP reaches its steady state?

```

SB: V111 Grp 11 Tracked interface Port-channel10 Down
SB: V111 Grp 11 Priority 201/251 -> 151/251
SB11: V111 Coup in 172.16.11.111 Standby pri 200 ip 172.16.11.115
SB11: V111 Active: j/Coup rcvd from higher pri router (200/172.16.11.111)
SB11: V111 Active router is 172.16.11.111, was local
SB11: V111 Standby router is unknown, was 172.16.11.111
SB11: V111 Active -> Speak
*STANDBY-6-STATECHANGE: Vlan11 Group 11 state Active -> Speak
SB11: V111 Redundancy "hsrp-V111-11" state Active -> Speak
SB11: V111 Speak: d/Standby timer expired (unknown)
SB11: V111 Standby router is local
SB11: V111 Speak -> Standby
SB11: V111 Redundancy "hsrp-V111-11" state Speak -> Standby
  
```

- A. Active, Priority 151
- B. Active, Priority 201
- C. Active, Priority 251
- D. Standby, Priority 151
- E. Standby, Priority 201
- F. Standby, Priority 251

Answer: D

6. When you enter the interface command `auto qos voip cisco-phone` on a port at the edge of a network, how does the Cisco Catalyst switch detect if a Cisco IP Phone is connected to the port?

- A. by snooping the CoS marking on the incoming frames
- B. by using RTP hello messages between the switch port and the Cisco IP Phone
- C. by using CDP
- D. by using DHCP snooping
- E. by snooping the incoming 802.1Q VLAN tag

Answer: C

7. Refer to the exhibit. What is wrong with the Cisco Catalyst switch 802.1x authentication configuration?

```
Switch# configure terminal
Switch(config)# aaa new-model
Switch(config)# radius-server host 172.120.39.46 auth-port 1812 key rad123
Switch(config)# aaa authentication login default group radius
Switch(config)# aaa authorization network default group radius
Switch(config)# dot1x system-auth-control
Switch(config)# dot1x guest-vlan supplicant
Switch(config)# interface fastethernet0/1
Switch(config-if)# switchport mode access
Switch(config-if)# dot1x port-control auto
Switch(config-if)# dot1x guest-vlan 9
Switch(config-if)# end
```

- A. The authentication method list is not correctly enabled for dot1x.
- B. 802.1x authentication is not enabled globally on the switch.
- C. The Fa0/1 interface is not configured as an 802.1Q trunk port.
- D. The guest VLAN is not correctly configured.
- E. dot1x reauthentication is not globally enabled.

Answer: A

8. On a Cisco Catalyst switch, which configuration command is used to apply a VACL named "test" to filter the traffic within VLAN100?

- A. `interface vlan 100`
`ip access-group test`

- B. interface vlan 100
ip access-group test in
- C. interface vlan 100
ip access-group test out
- D. vlan filter test vlan-list 100
- E. vlan access-map test 100

Answer: D

9. What is the function of the no switchport Catalyst switch interface configuration command?

- A. switches the port from access mode to trunk mode
- B. converts the port from physical Layer 2 port to physical Layer 3 port
- C. enables the interface for Layer 2 switching
- D. disables the interface to prevent traffic flow
- E. clears all the configurations on the interface

Answer: B

10. On the Catalyst 6500 Series switch, which command is used to establish a console connection to the Firewall Services Module?

- A. telnet
- B. connect
- C. session
- D. ssh
- E. login

Answer: C

11. Which two statements are correct in verifying SPFv3 IPv6 routing configurations? (Choose two.)

- A. OSPFv3 router ID is now 128 bits instead of 32 bits.
- B. OSPFv3 area ID and link-state ID are now 128 bits instead of 32 bits.
- C. OSPFv3 is enabled per-link, not per-network.
- D. OSPFv3 requires router to be running CEF.

E. When configuring a broadcast interface, OSPFv3 requires a list of OSPFv3 neighbors to be manually configured.

Answer: CD

12. Which three of these items are found within the router advertisement message of IPv6 stateless autoconfiguration? (Choose three.)

- A. /64 prefix that can be used on the link and the lifetime of the prefix
- B. IPv6 DHCP server address information
- C. flags indicating the kind of autoconfiguration that can be done by hosts
- D. default router information
- E. IPv6 DNS server address information

Answer: ACD

13. Referring to the debug output shown below, which one of the statements is correct?

```
R1# debug ipv6 icmp
```

```
ICMPv6: Sending echo request to 2001:DB8:C18:1::D0C
```

```
ICMPv6: Received ICMPv6 packet from 2001:DB8:C18:1::D0C, type 129
```

```
ICMPv6: Received ICMPv6 packet from FE80::260:3EFF:FE47:1530, type 134
```

- A. FE80::260:3EFF:FE47:1530 is the site-local address of R1.
- B. 2001:DB8:C18:1::D0C is a link-local address.
- C. The last ICMP message received is a router advertisement message.
- D. The type 129 ICMP echo reply message indicates an MTU error.
- E. The type 129 message is an ICMP redirect message.

Answer: C

14. Which three of these items are IPv6 transition mechanisms? (Choose three.)

- A. NATv6
- B. PATv6
- C. ISATAP
- D. automatic 4to6 relay tunnels

- E. dual stack configurations
- F. manually configured overlay tunnels

Answer: CEF

15. What are four advantages to using tunnel brokers in an IPv6 transition environment? (Choose four.)

- A. Tunnel broker configuration is automated in Cisco IOS.
- B. IPv6 enabling a node looks automatic to the end user.
- C. Tunnel brokers make it simpler for nontechnical users to deploy manual tunnels.
- D. Tunnel information is sent via IPv4.
- E. Tunnel brokers automatically provide configuration parameters to peer routers.

Answer: BCDE

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