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Exam : Cisco 642-055

Title : Cisco(r) ARSFE Advanced Routing and Switching for Field Engineers

1. 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

2. 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

3. 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

4. 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

5. 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

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

- 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

7. 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

8. 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

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

- 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

10. 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

11. 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

12. 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

13. 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.)

- 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

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

- 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

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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