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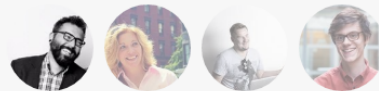
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**Exam** : **N10-006**

**Title** : **CompTIA Network+  
certification**

**Vendor** : **CompTIA**

**Version** : **DEMO**

**NO.1** A technician is being tasked to centralize the management of the switches and segment the switches by broadcast domains. The company is currently all on VLAN1 using a single private IP address range with a 24 bit mask. The supervisor wants VLAN 100 to be the management subnet and all switches to share the VLAN information. Which of the following options would work BEST to accomplish these requirements?

- A. Use VLSM on the IP address range, with STP and 802.1q on the inter switch connections with native VLAN 100
- B. Use VLSM on the IP address range with VTP and 802.1x on all inter switch connections with native VLAN 100
- C. Use VLSM on VLAN1, with VTP and 802.1w on the inter switch connections with native VLAN 100
- D. Use VLSM on the IP address range with VTP and 802.1q on the inter switch connections with native VLAN 100

**Answer:** D

**NO.2** Which of the following tools would a network technician use to troubleshoot a span of single-mode fiber cable?

- A. Punchdown tool
- B. Spectrum analyzer
- C. Ethernet tester
- D. OTDR

**Answer:** B

**NO.3** Which of the following devices should be installed on a network to monitor the presence of and actively defend against attacks?

- A. An IPS
- B. A protocol analyzer
- C. A traffic shaper
- D. An IDS

**Answer:** A

**NO.4** A system administrator wants to update a web-based application to the latest version. Which of the following procedures should the system administrator perform FIRST?

- A. Remove all user accounts on the server
- B. Isolate the server logically on the network
- C. Block all HTTP traffic to the server
- D. Install the software in a test environment

**Answer:** D

Explanation

We should test the new version of the application in a test/lab environment first.

This way any potential issues with the new software would not affect the production environment.

Set up a test lab on an isolated network in your organization.

Do not set up your test lab in your production environment.

**NO.5** A technician has finished configuring AAA on a new network device. However, the technician is

unable to log into the device with LDAP credentials but is able to do so with a local user account. Which of the following is the MOST likely reason for the problem?

- A. Username is misspelled in the device configuration file
- B. IDS is blocking RADIUS
- C. Shared secret key is mismatched
- D. Group policy has not propagated to the device

**Answer:** C

Explanation

AAA through RADIUS uses a Server Secret Key (a shared secret key). A secret key mismatch could cause login problems.

Authentication, authorization, and accounting (AAA) allows a network to have a single repository of user credentials. A network administrator can then, for example, supply the same credentials to log in to various network devices (for example, routers and switches). RADIUS and TACACS+ are protocols commonly used to communicate with an AAA server.

**NO.6** A secondary datacenter in a remote location is used by a company. The cable management and power management are handled by the datacenter staff. The building security is also handled by the datacenter staff with little oversight. Which of the following should the network administrator do to adhere to best practices?

- A. Secure the patch panels.
- B. Ensure power monitoring is enabled.
- C. Ensure rack security.
- D. Secure the UPS units.

**Answer:** C

**NO.7** Zach, a network technician, is unable to remotely manage or ping certain layer 2 switches. To manage those devices remotely, which of the following will MOST likely need to be configured?

- A. IP address on the native VLAN interface
- B. Port security
- C. Port forwarding
- D. IP address on the fiber interface

**Answer:** A

**NO.8** Which of the following describes what occurs with the ID of a specified native VLAN when traffic passes over a trunk?

- A. It becomes the gateway of last resort for the switch or router.
- B. It becomes the default VLAN for the untagged frames.
- C. It becomes the priority ID for all the VLAN traffic across the device.
- D. It becomes the default gateway for the port or ports.

**Answer:** B

**NO.9** Users have reported poor performance when streaming videos from media sites. A network technician runs several online speed tests from a user's computer and consistently receives an estimated bandwidth of 5Mbps downstream and 2Mbps upstream. The technician then pings one of

the streaming servers and receives the following:

```
>ping 242.12.76.44
Reply from 242.12.74.44      time=8ms
Reply from 242.12.74.44      time=6ms
Reply from 242.12.74.44      time=7ms
Reply from 242.12.74.44      time=8ms
```

Based on the above information, which of the following is the MOST likely cause of the poor video-streaming performance?

- A. A network administrator has applied a throttling policy for video streaming.
- B. There is packet loss on the WAN connection that is causing poor performance.
- C. The upstream bandwidth is too low to support streaming video.
- D. The downstream bandwidth is too low to support streaming video.
- E. The router does not have enough processing power to provide consistent video streams.

**Answer:** E

**NO.10** Lisa, a technician, has configured a new switch that is remotely accessed using SSH. The switch is working properly but cannot be accessed remotely. Which of the following items is MOST likely missing in the configuration?

- A. Port speed
- B. Cryptokey
- C. Data VLAN
- D. NAT/PAT

**Answer:** B

**NO.11** A technician is installing a media converter that connects a newly installed multimode connection to an existing CAT5e infrastructure. Which of the following media converter types should the technician use?

- A. Ethernet to coaxial
- B. Fiber to Ethernet
- C. Fiber to coaxial
- D. Multimode to single mode fiber

**Answer:** B

**NO.12** A new network administrator is hired to replace a consultant that has been keeping the network running for several months. After a month, the network administrator is having network issues. The problems are easily resolved and appear to be changes in the server settings. The log files on the servers do not contain any error or messages related to the issues. Which of the following is a possible cause of the issues?

- A. TACAS\Radius misconfiguration is causing logs to be erased
- B. ICMP ping of death is resetting DHCP and DNS on the server
- C. A backdoor has been installed to access the network
- D. The last ACL on the router is set to Deny All

**Answer:** C

**NO.13** Zach, a technician, is checking newly installed CAT5e cabling, and suspects that some of the ends were not properly terminated. Which of the following tools will verify this?

- A. Cable tester
- B. Toner probe
- C. OTDR
- D. Loopback plug

**Answer:** A

**NO.14** A technician needs to secure web traffic for a new e-commerce website. Which of the following will secure traffic between a web browser and a website?

- A. SSL
- B. DNSSEC
- C. WPA2
- D. MTU

**Answer:** A

Explanation

Secure SocketsLayer (SSL) provides cryptography and reliability for upper layers (Layers 5-7) of the OSI model. SSL (and TLS) provide secure web browsing (web traffic) via Hypertext Transfer Protocol Secure (HTTPS).

**NO.15** A PC technician has installed a new network printer that was preconfigured with the correct static IP address, subnet mask, and default gateway. The printer was installed with a new cable and appears to have link activity, but the printer will not respond to any network communication attempts. Which of the following is MOST likely the cause of the problem?

- A. Damaged cable
- B. Duplex mismatch
- C. Incorrect VLAN assignment
- D. Speed mismatch

**Answer:** C

Explanation

If a port is accidentally assigned to the wrong VLAN in a switch, it's as if that client was magically transported to another place in the network. This would explain the inability to communication with the printer, as it is on a different VLAN.

**NO.16** A technician is called to investigate a connectivity issue to a remote office that is connected by fiber optic cable. Using a light meter, it is determined that the Db loss is excessive. The installation has been working for several years. The switch was recently moved to the other side of the room and a new patch cord installed.

Which of the following is MOST likely the cause of the issue?

- A. Distance limitations
- B. Wavelength mismatch
- C. Bend radius limitation
- D. Dirty connectors

**Answer:** D

**NO.17** Which of the following is the default subnet mask for a Class B address?

- A. 255.0.0.0
- B. 255.255.0.0
- C. 255.255.255.0
- D. 255.255.255.255

**Answer:** B

**NO.18** Which of the following attacks utilizes a wireless access point which has been made to look as though it belongs to the network in order to eavesdrop on wireless traffic?

- A. Evil twin
- B. Rogue access point
- C. WEP attack
- D. War driving

**Answer:** A