



CompTIA

Exam Questions N10-007

CompTIA Network+ N10-007

NEW QUESTION 1

- (Exam Topic 1)

A network administrator has been given a network of 172.16.85.0/21 and wants to know the usable range of IP addresses on that subnet. Which of the following indicates the correct IP address range?

- A. 172.16.80.0-172.16.85.254
- B. 172.16.80.0-172.16.88.255
- C. 172.16.80.1-172.16.87.254
- D. 172.16.80.1-172.16.85.255

Answer: C

NEW QUESTION 2

- (Exam Topic 1)

A technician needs to set up a workstation with a private static address. Which of the following IP address would meet this requirement? (Select TWO).

- A. 65.78.90.102
- B. 127.0.0.1
- C. 169.254.90.19
- D. 172.16..1.103
- E. 172.33.47.100
- F. 192.168.1.55

Answer: DE

NEW QUESTION 3

- (Exam Topic 1)

A administrator is troubleshooting a user's intermitted wireless connectivity issue. Other users across the hallway can connect use the wireless network properly. Upon inspection of the connection details, the administrator finds the following:

SSID	Company-WiFi
Signal	5%
SNR	2

Which of the following is MOST likely the cause of the poor wireless connection?

- A. Channel overlap
- B. Overcapacity
- C. Incorrect antenna type
- D. Latency

Answer: C

NEW QUESTION 4

- (Exam Topic 1)

A technician is configuring a default route with IPv6. Which of the following is the correct setting for an IPV6 default rout?

- A. :: 1
- B. :: /0
- C. 2001: :0/64
- D. FE80 : :0/64

Answer: C

NEW QUESTION 5

- (Exam Topic 1)

A new building needs to be joined to an existing network, but management has decided that running fiber is too expensive. Since the buildings are bout 1000ft (305m) apart, the IT department has been asked to propose alternatives. Which of the following is the BEST device to add to each building to facilitate the extension of the network while meeting budgetary demands?

- A. Switch
- B. Router
- C. Media converter
- D. PTP wireless

Answer: D

NEW QUESTION 6

- (Exam Topic 1)

A penetration tester has been tasked with reconnaissance to determine which ports are open on the network. Which of the following tasks should be done FIRST? (Choose two.)

- A. Network scan

- B. Banner grab
- C. Tracert
- D. DHCP server check
- E. Brute-force attack

Answer: AC

NEW QUESTION 7

- (Exam Topic 1)

To replace a defective UPS, the network administrator must take the switch offline. The administrator wants to be able to perform maintenance UPS in the future without affecting the availability of the attached switch. Which of the following would BEST allow this to happen?

- A. Add a redundant power supply to the switch
- B. Implement stacking on the switches in the rack
- C. Add a second UPS into the rack
- D. Install a power converter for the switch

Answer: A

NEW QUESTION 8

- (Exam Topic 1)

A network technician needs to set up an access method for Ann, a manager, to work from home. Ann needs to locally mapped corporate resources to perform her job. Which of the following would provide secure access to the corporate resources?

- A. Utilize an SSH connection to the corporate server.
- B. Use TFTP to transfer files to corporate resources.
- C. Allow RDP through an external firewall.
- D. Connect utilizing client-to-site VPN.

Answer: D

NEW QUESTION 9

- (Exam Topic 1)

A technician is troubleshooting network connectivity issue with a remote host. Which of the following tools would BEST between the client and the remote host?

- A. tracer
- B. ping
- C. tcpdump
- D. pathping
- E. netstate
- F. nslookup
- G. route

Answer: EF

NEW QUESTION 10

- (Exam Topic 1)

A company has two geographically separate locations that need to connect using a VPN. Which of the following devices must be specifically configured to allow VPN traffic into the network?

- A. Firewall
- B. Switch
- C. Router
- D. Modem

Answer: A

NEW QUESTION 10

- (Exam Topic 1)

A technician is troubleshooting network connectivity issues with a remote host. Which of the following tools would BEST inform the technician of nodes between the client and the remote host? (Choose two.)

- A. tracer
- B. ping
- C. tcpdump
- D. pathping
- E. netstat
- F. nslookup
- G. route

Answer: AD

NEW QUESTION 11

- (Exam Topic 1)

A network technician downloaded new firmware for the company firewall. Which of the following should the network technician verify to ensure the downloaded file is correct and complete?

- A. File hash
- B. File date
- C. File type
- D. File size

Answer: A

NEW QUESTION 13

- (Exam Topic 1)

A network administrator wishes to ensure there are no unnecessary open communication paths into a server. Using a port scanner, the administrator finds that ports are reported as closed. Which of the following BEST explains this response?

- A. The ports belong to an active system and are denying requests
- B. The ports are associated with deprecated services
- C. The ports do not belong to a live system
- D. The ports replied with a SYN/ACK response

Answer: B

NEW QUESTION 18

- (Exam Topic 1)

A forensic first responder arrives at the scene where an employee is suspected to have committed a computer-based crime. Which of the following should the first responder do FIRST?

- A. Document the scene
- B. Take pictures upon arrival
- C. Secure the area
- D. Implement chain of custody

Answer: C

NEW QUESTION 19

- (Exam Topic 1)

Two building used to be connected by wireless bridge, but they are upgrading to fiber. Which of the following new devices would be required at the demarcation points?

- A. Wireless access point
- B. Router
- C. Media converter
- D. Firewall

Answer: B

NEW QUESTION 22

- (Exam Topic 1)

A network technician receives a call from a user who is experiencing network connectivity issues. The network technician questions the user and learns the user brought in a personal wired router to use multiple computers and connect to the network. Which of the following has the user MOST likely introduced to the network?

- A. Rogue DHCP server
- B. Evil twin
- C. VLAN mismatch
- D. Honeytrap

Answer: A

NEW QUESTION 23

- (Exam Topic 1)

Which of the following would allow a device to maintain the same IP address lease based on the physical address of the network card?

- A. MAC address reservation
- B. Static IP address
- C. IP address exclusion
- D. Custom DNS server entry

Answer: A

NEW QUESTION 24

- (Exam Topic 1)

A network technician is installing a new network switch and is looking for an appropriate fiber optic patch cable. The fiber optic patch panel uses a twist-style connector. The switch uses a SFP module. Which of the following connector types should the fiber patch cable have?

- A. LC
- B. ST
- C. SC
- D. MTRJ
- E. MTP

Answer: B

NEW QUESTION 25

- (Exam Topic 1)

A technician is observing brownout issue at a smaller office. At least once a week, the edge switch power cycles. Which of the following should the technician do to resolve the issue?

- A. Install a new switch.
- B. Install a UPS.
- C. Replace the switch uplink cable.
- D. Install a new electrical circuit.

Answer: B

NEW QUESTION 29

- (Exam Topic 1)

A network technician wants to remotely and securely access the desktop of a Linux workstation. The desktop is running remote control software without encryption. Which of the following should the technician use to secure the connection?

- A. SSH in tunnel mode
- B. RDP set to console connection
- C. EAP-PEAP
- D. SFTP

Answer: A

NEW QUESTION 31

- (Exam Topic 1)

Which of the following BEST describes the BGP routing protocol?

- A. distance vector
- B. hybrid
- C. static
- D. link state

Answer: B

NEW QUESTION 32

- (Exam Topic 1)

The server team has just installed an application across three different servers. They are asking that all requests to the application are spread evenly across the three servers. Which of the following should the network team implement to fulfil the request?

- A. Proxy server
- B. UTM appliance
- C. Content filter
- D. Load balancer

Answer: D

NEW QUESTION 34

- (Exam Topic 1)

Under which of the following layers of the OSI do ATM cells operate?

- A. Data link
- B. Network
- C. Session
- D. Transport
- E. Presentation

Answer: A

NEW QUESTION 38

- (Exam Topic 1)

A technician has installed a Linux server in the tax office. The server can access most of the resources on the network, but it cannot connect to another server that has a share for backup. The technician learns that the target server is on a different subnet. Which of the following tools should the technician use to ensure the Linux server can reach the backup location?

- A. netstat
- B. traceroute
- C. route
- D. dig
- E. ifconfig

Answer: B

NEW QUESTION 42

- (Exam Topic 1)

A network administrator gets a call regarding intermittent network outages across the country. Which of the following should be used to connect to the network so the administrator can troubleshoot this issue from home? (Choose two.)

- A. FTP
- B. SMTP
- C. VPN
- D. SSH
- E. SNMP

Answer: CD

NEW QUESTION 47

- (Exam Topic 1)

A network technician notices the site-to-site VPN and Internet connection have not come back up at a branch office after a recent power outage. Which of the following is an out-of-band method the technician would MOST likely utilize to check the branch office's router status?

- A. Use a modem to console into the router
- B. Walk a user through troubleshooting the connection
- C. Travel to the branch office
- D. Hire a contractor to go on-site

Answer: A

NEW QUESTION 51

- (Exam Topic 1)

Which of the following MUST be implemented to share metrics between routing protocols within the same router?

- A. Routing loop
- B. Routing table
- C. Route redistribution
- D. Dynamic routes

Answer: B

NEW QUESTION 52

- (Exam Topic 1)

Which of the following should be performed to verify that unnecessary services are disabled on all switches in an environment?

- A. packet capturing
- B. port scanning
- C. Log scanning
- D. Baseline review

Answer: B

NEW QUESTION 54

- (Exam Topic 1)

Which of the following security mechanisms dynamically assigns a Layer 2 address and restricts traffic only to that Layer 2 address?

- A. Sticky MAC
- B. 802.1x
- C. ACL
- D. NAC

Answer: A

NEW QUESTION 58

- (Exam Topic 1)

Which of the following DNS records needs to be configured for SMTP traffic?

- A. MX
- B. CNAME
- C. AAAA
- D. PTR

Answer: A

NEW QUESTION 61

- (Exam Topic 1)

A firewall administrator is implementing a rule that directs HTTP traffic to an internal server listening on a non-standard socket. Which of the following types of rules is the administrator implementing?

- A. NAT
- B. PAT
- C. STP
- D. SNAT

E. ARP

Answer: B

NEW QUESTION 62

- (Exam Topic 1)

A contractor is setting up and configuring conference rooms for a convention. The contractor sets up each room in the conference center to allow wired Internet access going to individual tables. The contractor measured the distance between the hotel's patch panel to the jack, and the distance is within Cat 5e specifications. The contractor is concerned that the room will be out of specification if cables are run in each room from the wall jacks. Which of the following actions should the contractor take to ensure the cable runs meet specifications and the network functions properly?

- A. Place a switch at the hotel's patch panel for connecting each room's cables
- B. Place a switch on each table to ensure strong connectivity
- C. Place repeaters between the patch panel and the rooms
- D. place a switch at the wall jack and run the cables in the room from there

Answer: A

NEW QUESTION 66

- (Exam Topic 1)

The IT manager at a small firm is in the process of renegotiating an SLA with the organization's ISP. As part of the agreement, the organization will agree to a dynamic bandwidth plan to provide 150Mbps of bandwidth.

However, if the ISP determines that a host on the organization's internal network produces malicious traffic, the ISP reserves the right to reduce available bandwidth to 1.5 Mbps. Which of the following policies is being agreed to in the SLA?

- A. Session hijacking
- B. Blocking
- C. Throttling
- D. Data usage limits
- E. Bandwidth quotas

Answer: C

NEW QUESTION 67

- (Exam Topic 1)

Which of the following BEST describes the differences between VLAN hopping and session hijacking?

- A. VLAN hopping involves the unauthorized transition from one VLAN to another to gain additional access
- B. Session hijacking involves overriding a user's web connection to execute commands
- C. VLAN hopping is a brute force attack executed to gain additional access
- D. Session hijacking involves physically disrupting a network connection
- E. VLAN hopping involves overriding a user network connection to execute malicious command
- F. Session hijacking involves compromising a host to elevate privileges
- G. VLAN hopping is the act of exploiting poor VLAN tagging
- H. Session hijacking is a web-based attack aimed at privilege escalation

Answer: A

NEW QUESTION 70

- (Exam Topic 1)

A network administrator wants to increase the confidentiality of the system by hardening the authentication process. Currently, the users log in using usernames and passwords to access the system. Which of the following will increase the authentication factor to three?

- A. Adding a fingerprint reader to each workstation and providing a RSA authentication token
- B. Adding a fingerprint reader and retina scanner
- C. Using a smart card and RSA token
- D. Enforcing a stronger password policy and using a hand geometry scan

Answer: A

NEW QUESTION 74

- (Exam Topic 1)

A network administrator wants to employ a username and password authentication system for guest WiFi. Which of the following is the BEST option to provide this type of authentication?

- A. port security
- B. MAC filtering
- C. Network access control
- D. Captive portal

Answer: D

NEW QUESTION 78

- (Exam Topic 1)

Which of the following is recognized as the SMALLEST network type?

- A. SAN

- B. CAN
- C. PAN
- D. LAN

Answer: C

Explanation:

PAN is definitively the smallest type of network you can currently use and the name comes from Personal Area Network. You've probably used this in the last week without even knowing it.

<http://compinfofro.com/types-of-network-pan-man-wlan-san-can-dan/>

NEW QUESTION 82

- (Exam Topic 1)

A technician wants to prevent an unauthorized host from connecting to the network via Ethernet. Which of the following is a Layer 2 access control the technician should implement?

- A. Access control lists
- B. Captive portal
- C. WPA2
- D. Port security

Answer: D

NEW QUESTION 83

- (Exam Topic 1)

Which of the following are DNS record type? (Select THREE).

- A. CNAME
- B. NTP
- C. PTR
- D. LDAP
- E. DHCP
- F. TTL
- G. SRV
- H. SSH

Answer: ACG

NEW QUESTION 85

- (Exam Topic 1)

A network technician is configuring a wireless network at a branch office. Users at this office work with large files and must be able to access their files on the server quickly. Which of the following 802.11 standards provides the MOST bandwidth?

- A. a
- B. ac
- C. g
- D. n

Answer: B

NEW QUESTION 86

- (Exam Topic 1)

Which of the following policies would Joe, a user, have to agree to when he brings in his personal tablet to connect to the company's guest wireless Internet?

- A. NDA
- B. IRP
- C. BYOD
- D. SLA

Answer: C

NEW QUESTION 90

- (Exam Topic 1)

A network engineer is configuring wireless access for guests at an organization. Access to other areas in the organization should not be accessible to guests. Which of the following represents the MOST secure method to configure guest access to the wireless network?

- A. Guests should log into a separate wireless network using a captive portal
- B. Guests should log into the current wireless network using credentials obtained upon entering the facility
- C. The existing wireless network should be configured to allow guest access
- D. An additional wireless network should be configured to allow guest access

Answer: A

NEW QUESTION 94

- (Exam Topic 1)

A switch has detected duplicate broadcast messages sourced from a second port. The broadcasts continue to be transmitted and duplicated until the amount of traffic causes severe performance issues. Which of the following should be configured to prevent this behavior?

- A. BPDU guard
- B. DHCP snooping
- C. ARP protection
- D. Spanning tree

Answer: D

NEW QUESTION 97

- (Exam Topic 1)

A building is equipped with light sensors that turn off the fluorescent lights when natural light is above a certain brightness. Users report experiencing network connection issues only during certain hours. The west side of the building experiences connectivity issues in the morning hours and the east side near the end of the day. At night the connectivity issues affect the entire building. Which of the following could be the cause of the connectivity issues?

- A. Light sensors are interfering with the network
- B. EMI from the lights is interfering with the network cables
- C. Network wiring is run perpendicular to electrical conduit
- D. Temperature changes are causing attenuation in copper cabling

Answer: C

NEW QUESTION 102

- (Exam Topic 1)

A network administrator needs to transmit traffic to geographically diverse sites to improve performance. Which of the following devices would BEST direct traffic to the remote sites?

- A. Hub
- B. Bridge
- C. Switch
- D. Router

Answer: D

NEW QUESTION 106

- (Exam Topic 1)

Which of the following would be the MOST efficient subnet mask for a point-to-point link?

- A. /28
- B. /29
- C. /31
- D. /32

Answer: C

NEW QUESTION 108

- (Exam Topic 1)

A technician is trying to configure a previously owned WAP. The technician successfully logs into the administrative console and attempts to input the IP address on the WAP. However, the WAP is not accepting the command. Which of the following is causing the problem?

- A. The WAP antenna is damaged
- B. The WAP transmitter light is dim
- C. The terminal emulation software is misconfigured
- D. The LWAPP image is installed on the WAP

Answer: C

NEW QUESTION 109

- (Exam Topic 1)

Client PCs are unable to receive addressing information from a newly configured interface on a router. Which of the following should be added to allow the clients to connect?

- A. DHCP lease me
- B. IP helper
- C. TTL
- D. DNS record type

Answer: B

NEW QUESTION 114

- (Exam Topic 1)

An engineer is reviewing the implementation requirements for an upcoming project. The basic requirements identified by the customer include the following:

- ▶ WLAN architecture supporting speeds in excess of 150 Mbps
- ▶ Clientless remote network access
- ▶ Port-based network access control

Which of the following solution sets properly addresses all of the identified requirements?

- A. 802.11a, IPSec VPN, 802.1x

- B. 802.11ac, MPLS, 802.3
- C. 802.11b, PPTP, 802.1x
- D. 802.11g, MS-CHAP, 802.16
- E. 802.11n, SSL-VPN, 802.1x

Answer: E

NEW QUESTION 117

- (Exam Topic 1)

A technician is diagnosing an issue with a new T1 connection. The router is configured, the cable is connected, but the T1 is down. To verify the configuration of the router, which of the following tools should the technician use?

- A. Loopback adapter
- B. Cable tester
- C. Tone generator
- D. Multimeter

Answer: A

NEW QUESTION 122

- (Exam Topic 1)

Which of the following BEST describes an exploit?

- A. A router with default credentials
- B. An open mail relay server
- C. A SNMPv1 private community
- D. A privilege escalation script

Answer: D

NEW QUESTION 123

- (Exam Topic 1)

A security guard notices an unauthorized individual, who is dressed like technician, has entered a secure area of the hospital with a large group. Which of the following security attacks is taking place?

- A. Evil twin
- B. Social engineering
- C. Insider threat
- D. Phishing

Answer: B

Explanation:

Social engineering attacks aren't considered hacking—at least in the classic sense of the word—although the goals are the same. Social engineering is where people attack an organization through the people in the organization or physically access the organization to get the information they need.

NEW QUESTION 124

- (Exam Topic 1)

A customer cannot access a company's secure website. The company's network security is reviewing the firewall for the server and finds the following output:

Time	Action	Src IP	Src Port	Dst IP	Dst Port
0902	Allow	12.73.15.5	31865	10.5.0.10	80
1005	Deny	12.73.15.5	31866	10.5.0.10	443
1006	Deny	12.73.15.5	31890	10.5.0.10	443

Which of the following changes should be made to allow all customers to access the company's secure website?

- A. Allow any any 10.5.0.10 443
- B. Allow any any 12.73.15.5 443
- C. Allow 10.5.0.10 443 any any
- D. Allow 10.5.0.10 any 10.5.0.10 80

Answer: C

NEW QUESTION 129

- (Exam Topic 1)

A network technician needs to separate a web server listening on port 80 from the internal LAN and secure the server from the public Internet. The web server should be accessible to the public Internet over port 80 but not the private LAN. Currently, the network is segmented with a network-based firewall using the following IP addressing scheme on each interface:

Zone	Interface	IP Address
Public	eth0	10.0.0.1/24
DMZ	eth1	10.0.1.1/24
Private	eth2	10.0.2.1/24

Which of the following ones should the technician use to place the web server and which of the following firewall rules should the technician configure?

- A. Place the web server in the public zone with an inbound rule from eth0 interface to accept traffic over port 80 designated to the web server
- B. Place the web server in the DMZ with an inbound rule from eth0 interface to eth1 to accept traffic over port 80 designated to the web server
- C. Place the web server in the private zone with an inbound rule from eth2 interface to eth1 to accept traffic over port 80 designated to the web server
- D. Place the web server in the DMZ with an inbound rule from eth1 interface to eth0 to accept traffic over port 80 designated to the web server

Answer: B

NEW QUESTION 131

- (Exam Topic 1)

A technician is setting up VoIP phones on a wireless network. Users report that calls are choppy and sometimes dropped. The technician has measured two characteristics using simple command-line tools that verify the problem. Which of the following characteristics did the technician measure? (Choose two.)

- A. Reflection
- B. Latency
- C. Interference
- D. Packet loss
- E. Signal-to-noise ratio
- F. Attenuation

Answer: BD

NEW QUESTION 136

- (Exam Topic 1)

A technician notices clients are receiving a 169.254.x.x IP address following the upgrade of a server. Which of the following ports should the technician check on the local server firewall?

- A. ports 20 and 21
- B. ports 67 and 68
- C. ports 80 and 443
- D. port 123 and 8080

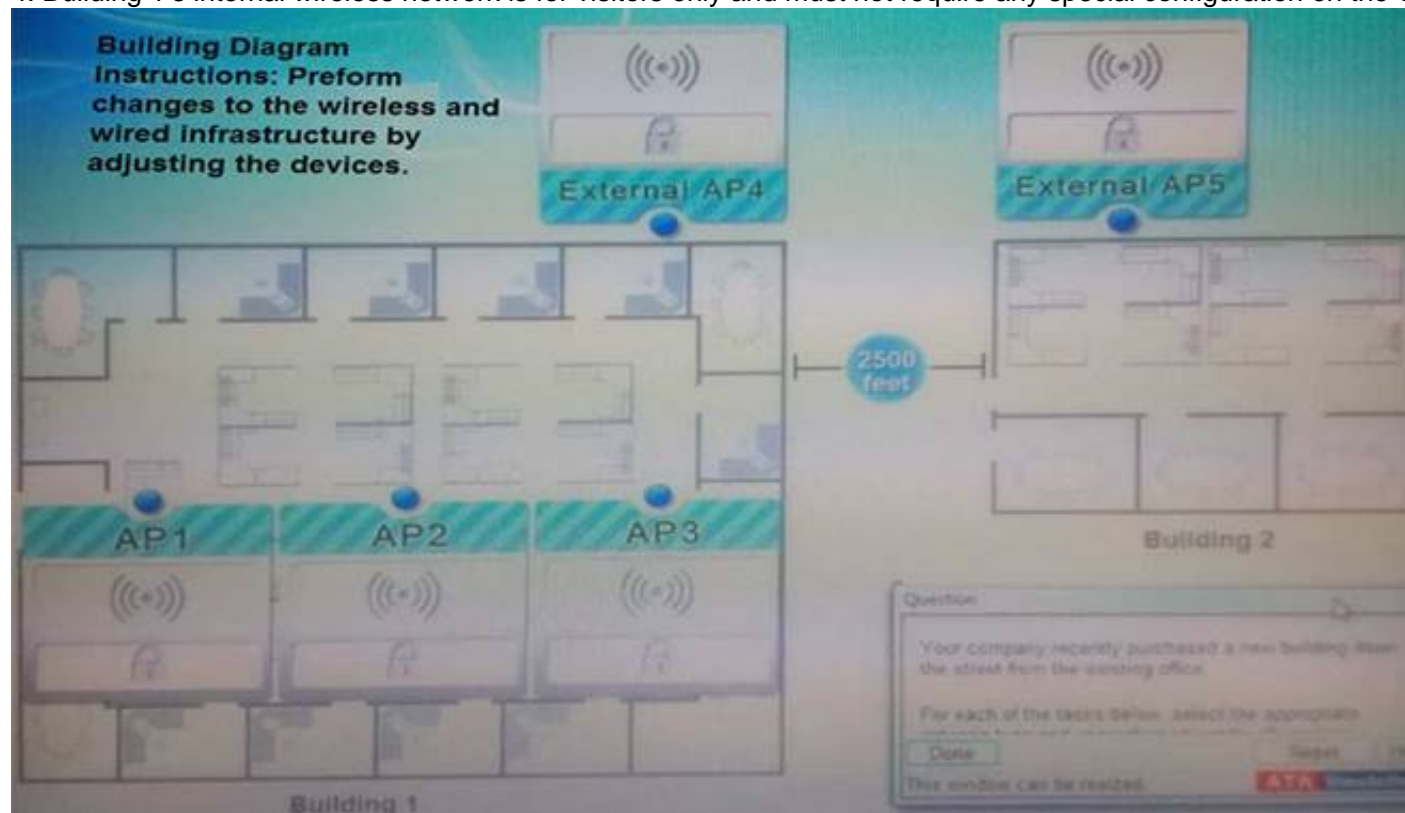
Answer: B

NEW QUESTION 138

- (Exam Topic 1)

Your company recently purchased a new building down the street from the existing office. For each of the tasks below, select the appropriate antenna type and encryption object for all wireless access point (AP).

1. Create an encrypted wireless connection between the two buildings that BEST controls signal propagation, while maximizing security.
2. Restrict the wireless signal generated by the access points (APs) inside Building 1, so that it minimizes broadcast beyond the building.
3. Maximize wireless coverage inside Building 1.
4. Building 1's internal wireless network is for visitors only and must not require any special configuration on the visitor's device to connect.



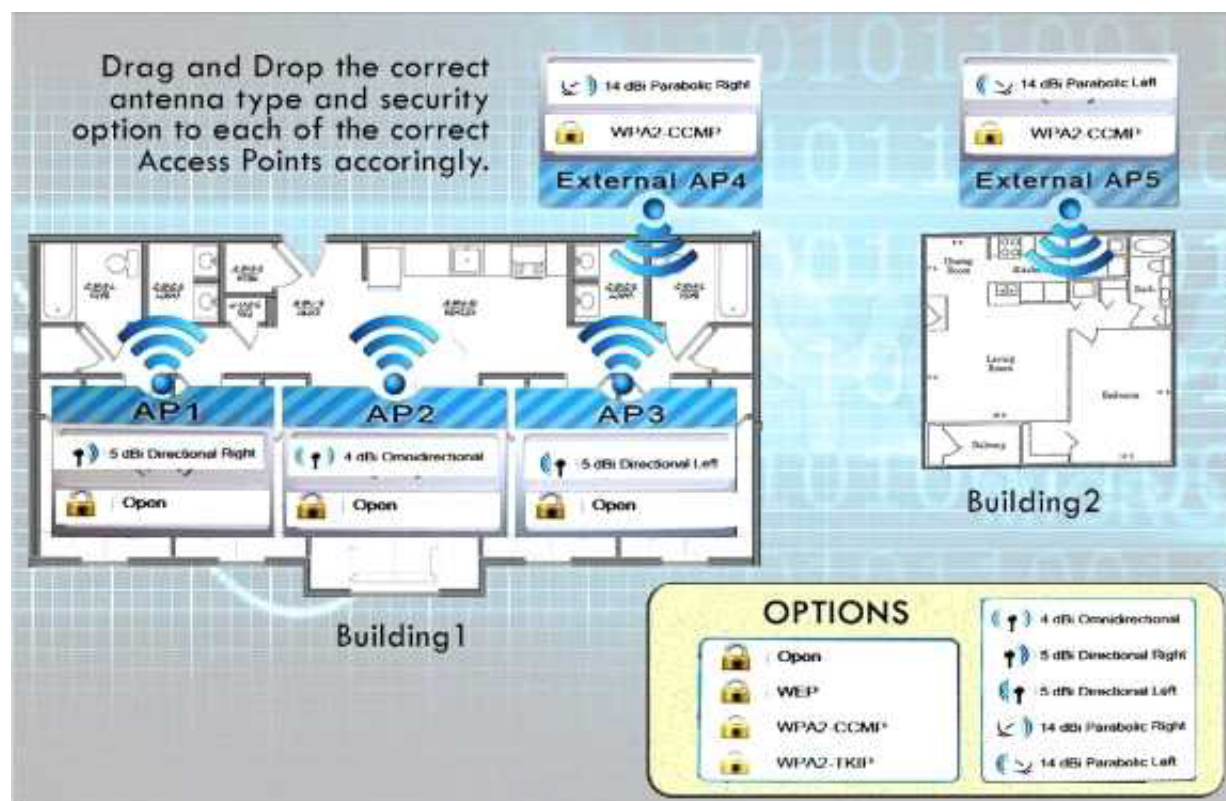
Instructions: When you have completed the simulation, select the Done button to submit.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer is as below in image.



NEW QUESTION 143

- (Exam Topic 1)

A network technician receives a spool of Cat 6a cable and is asked to build several cables for a new set of Ethernet runs between devices. Which of the following tools are MOST likely needed to complete the task? (Choose three.)

- A. Wire stripper
- B. Cable crimper
- C. RJ-11 connectors
- D. RJ-45 connectors
- E. Multimeter
- F. Punchdown tool
- G. Tone generator

Answer: ABD

NEW QUESTION 147

- (Exam Topic 2)

Which of the following default ports would need to be disabled to block TFTP traffic?

- A. 20
- B. 21
- C. 69
- D. 123

Answer: C

NEW QUESTION 148

- (Exam Topic 2)

Which of the following default ports would need to be open on a firewall to allow remote desktop access?

- A. 143
- B. 443
- C. 3389
- D. 8080

Answer: C

NEW QUESTION 152

- (Exam Topic 2)

Which of the following is a secure way to connect to a device?

- A. RSH
- B. TFTP
- C. SNMPv2
- D. SFTP

Answer: D

NEW QUESTION 154

- (Exam Topic 2)

A company has installed an access point and configured it to broadcast at 802.11n only. Some users are stating that they cannot connect to this access point. Which of the following is the MOST likely reason some users cannot connect?

- A. Incorrect channel
- B. Weak encryption
- C. Incompatible NICs
- D. Incorrect SSID

Answer: C

NEW QUESTION 155

- (Exam Topic 2)

Use of group accounts should be minimized to ensure which of the following?

- A. Password security
- B. Regular auditing
- C. Baseline management
- D. Individual accountability

Answer: D

NEW QUESTION 160

- (Exam Topic 2)

Which of the following cables will MOST likely be used to connect to a satellite dish?

- A. RG-6
- B. CAT5e
- C. Fiber
- D. CAT6

Answer: A

NEW QUESTION 165

- (Exam Topic 2)

Which of the following provides the MOST protection against zero day attacks via email attachments?

- A. Anti-spam
- B. Anti-virus
- C. Host-based firewalls
- D. Patch management

Answer: A

NEW QUESTION 169

- (Exam Topic 2)

Which of the following protocols is used to transmit outgoing email?

- A. RDP
- B. NTP
- C. POP3
- D. SMTP

Answer: D

NEW QUESTION 171

- (Exam Topic 2)

In order to reduce spam email, Kim, a network administrator, changes the standard SMTP port from which of the following port numbers to port number 587?

- A. 20
- B. 21
- C. 23
- D. 25

Answer: D

NEW QUESTION 174

- (Exam Topic 2)

Privilege creep among long-term employees can be mitigated by which of the following procedures?

- A. User permission reviews
- B. Mandatory vacations
- C. Separation of duties
- D. Job function rotation

Answer: A

NEW QUESTION 177

- (Exam Topic 2)

Which of the following will allow multiple frequencies to be combined?

- A. WiMAX
- B. MPLS
- C. MIMO
- D. Channel bonding

Answer: D

NEW QUESTION 179

- (Exam Topic 2)

Which of the following defines when Pete, an attacker, attempts to monitor wireless traffic in order to perform malicious activities?

- A. XSS
- B. SQL injection
- C. Directory traversal
- D. Packet sniffing

Answer: D

NEW QUESTION 181

- (Exam Topic 2)

Which of the following is the MOST economical way for Sandy, a technician, to implement 10- Gigabit Ethernet at a datacenter?

- A. 10GBaseLR
- B. 10GBaseSR
- C. 10GBaseX
- D. 10GBaseT

Answer: D

NEW QUESTION 185

- (Exam Topic 2)

Which of the following cables is MOST likely to be terminated into a patch panel?

- A. Serial
- B. RG-6
- C. RG-59
- D. CAT6

Answer: D

NEW QUESTION 188

- (Exam Topic 2)

A user is unable to open up websites on the Internet from a browser. The administrator determines that the workstation can ping its local gateway, but not the remote web server. At which of the following layers of the OSI model does the problem MOST likely exist?

- A. Data link
- B. Network
- C. Session
- D. Physical

Answer: B

NEW QUESTION 192

- (Exam Topic 2)

Kim, a user, took a laptop on vacation and made changes to the configuration in order to use the device at the hotel. She can reach the Internet, but cannot access any internal network resources.

Which of the following is the MOST likely reason?

- A. Incorrect DNS
- B. Incorrect subnet mask
- C. Duplicate IP address
- D. Incorrect SSID

Answer: A

NEW QUESTION 193

- (Exam Topic 2)

A technician discovers that a malware infection has damaged part of the Windows TCP/IP stack. Which of the following commands can help repair the damage?

- A. netsh lan
- B. netsh interface
- C. netsh wlan
- D. netsh winsock

Answer: D

NEW QUESTION 196

- (Exam Topic 2)

A pest control contractor attempts to gain access to the datacenter; however, the manager on duty notes that a pest control inspection was not on the schedule. Which of the following attacks is in progress?

- A. Phishing
- B. Social engineering
- C. Man-in-the-middle
- D. Smurfing

Answer: B

NEW QUESTION 199

- (Exam Topic 2)

Which of the following network devices restricts traffic based on words, signatures, and URLs?

- A. Layer 2 switch
- B. Content filter
- C. Load balancer
- D. Traffic analyzer

Answer: B

NEW QUESTION 204

- (Exam Topic 2)

Which of the following allows a technician to gather information about the operating system?

- A. Domain services
- B. Fingerprinting
- C. Countermeasures
- D. Reconnaissance

Answer: B

NEW QUESTION 209

- (Exam Topic 2)

A new firewall was recently installed blocking SMTP traffic. As a result, no one has Internet access. Which of the following has MOST likely occurred?

- A. Port security is blocking all traffic.
- B. An IDS is blocking all traffic.
- C. Implicit deny is blocking all traffic.
- D. SMTP is blocking all traffic.

Answer: C

NEW QUESTION 214

- (Exam Topic 2)

A VoIP line will MOST likely have which of the following connectors?

- A. RJ-11
- B. DB-25
- C. BNC
- D. RJ-45

Answer: D

NEW QUESTION 218

- (Exam Topic 2)

Which of the following ports would Zach, a technician, need to open on a firewall to allow SSH on the default port?

- A. 20
- B. 21
- C. 22
- D. 23

Answer: C

NEW QUESTION 221

- (Exam Topic 2)

A username provides which of the following?

- A. Biometrics
- B. Identification
- C. Authorization
- D. Authentication

Answer: B

NEW QUESTION 223

- (Exam Topic 2)

A technician, Joe, visits a site that has reported a network down emergency. He immediately reboots the switches and the router since the network is down. Which of the following network troubleshooting methodology steps should Joe have performed FIRST?

- A. Determine if anything has changed
- B. Once a theory is confirmed determine the next step is to resolve the problem
- C. Implement the solution or escalate as necessary
- D. Question the obvious

Answer: A

NEW QUESTION 226

- (Exam Topic 2)

Which of the following is true about an IP address if the first bit is a one and the second bit is a zero?

- A. The address is a Class A address.
- B. The address is a Class B address.
- C. The address is a Class C address.
- D. The address is a Class D address.

Answer: B

NEW QUESTION 230

- (Exam Topic 2)

Something you have, something you are, and something you know are the three tenets of:

- A. Social engineering
- B. Change management
- C. Remote access
- D. Access control

Answer: D

NEW QUESTION 234

- (Exam Topic 3)

Zach, a technician, suspects a duplicate IP address assignment on the network. Which of the following resources can be used to verify this problem?

- A. Network map
- B. Environmental monitor
- C. Placement map
- D. Syslog

Answer: D

NEW QUESTION 235

- (Exam Topic 3)

A company is experiencing accessibility issues reaching services on a cloud-based system. Which of the following monitoring tools should be used to locate possible outages?

- A. Network analyzer
- B. Packet analyzer
- C. Protocol analyzer
- D. Network sniffer

Answer: A

Explanation:

A network analyzer is a useful tool, helping you do things like track traffic and malicious usage on the network.

NEW QUESTION 239

- (Exam Topic 3)

When Jeff, a technician, is troubleshooting a problem, which of the following is the NEXT step after verifying full system functionality?

- A. Establish a plan of action to resolve the problem and identify potential effects.
- B. Implement the solution.
- C. Establish a theory of probable cause.
- D. Document findings, actions, and outcomes.

Answer: D

NEW QUESTION 244

- (Exam Topic 3)

Which of the following tools can the technician use to analyze TCP/IP packets when trying to determine a connection problem within a subnet?

- A. Wire mapper
- B. Protocol analyzer
- C. Cable tester
- D. SYSLOG server

Answer: B

NEW QUESTION 248

- (Exam Topic 3)

Which of the following methods limits access to a network based on characteristics of the network card?

- A. IP filtering
- B. MAC filtering
- C. Port filtering
- D. Encryption

Answer: B

NEW QUESTION 253

- (Exam Topic 3)

A technician needs to verify an Ethernet run is functioning properly. Which of the following tools should be used?

- A. Protocol analyzer
- B. Crimper
- C. Cable tester
- D. Punch down tool

Answer: C

NEW QUESTION 256

- (Exam Topic 3)

A Windows server has a problem after booting up. Kim, a technician, should immediately check the:

- A. history logs.
- B. cron logs.
- C. application logs.
- D. system logs.

Answer: D

NEW QUESTION 258

- (Exam Topic 3)

A company has attempted to introduce a new major network segment to allow growth in capacity. On the core switch, a GBIC was used to interconnect with a newly placed downstream distribution switch for the first time. Soon after this implementation, a network flood and an outage occurred between the core and new distribution network modules. Which of the following should the network administrator troubleshoot FIRST in order to rectify the issue?

- A. Check for switching loops between core and distribution switches.
- B. Check whether an incorrect VLAN has been assigned to the new distribution switch.
- C. Check for inconsistent or missing routes between the core and distribution switches.
- D. Check whether the GBIC was set to multi-mode instead of single-mode SFP.

Answer: A

NEW QUESTION 261

- (Exam Topic 3)

A SOHO office recently installed a wireless network for employees to use during lunch breaks. As such, the access point was placed in the kitchen area by the microwave. Employees have been reporting intermittent connectivity when using the wireless network. Which of the following would BEST improve connectivity?

- A. Disable SSID broadcast
- B. Increase the signal strength
- C. Move the access point
- D. Change the broadcast channel

Answer: C

NEW QUESTION 266

- (Exam Topic 3)

A network technician is troubleshooting intermittent issues with VoIP call quality. A throughput tester can help assess the functionality of which of the following?

- A. LLDP
- B. VLAN tagging
- C. QoS
- D. SIP trunking

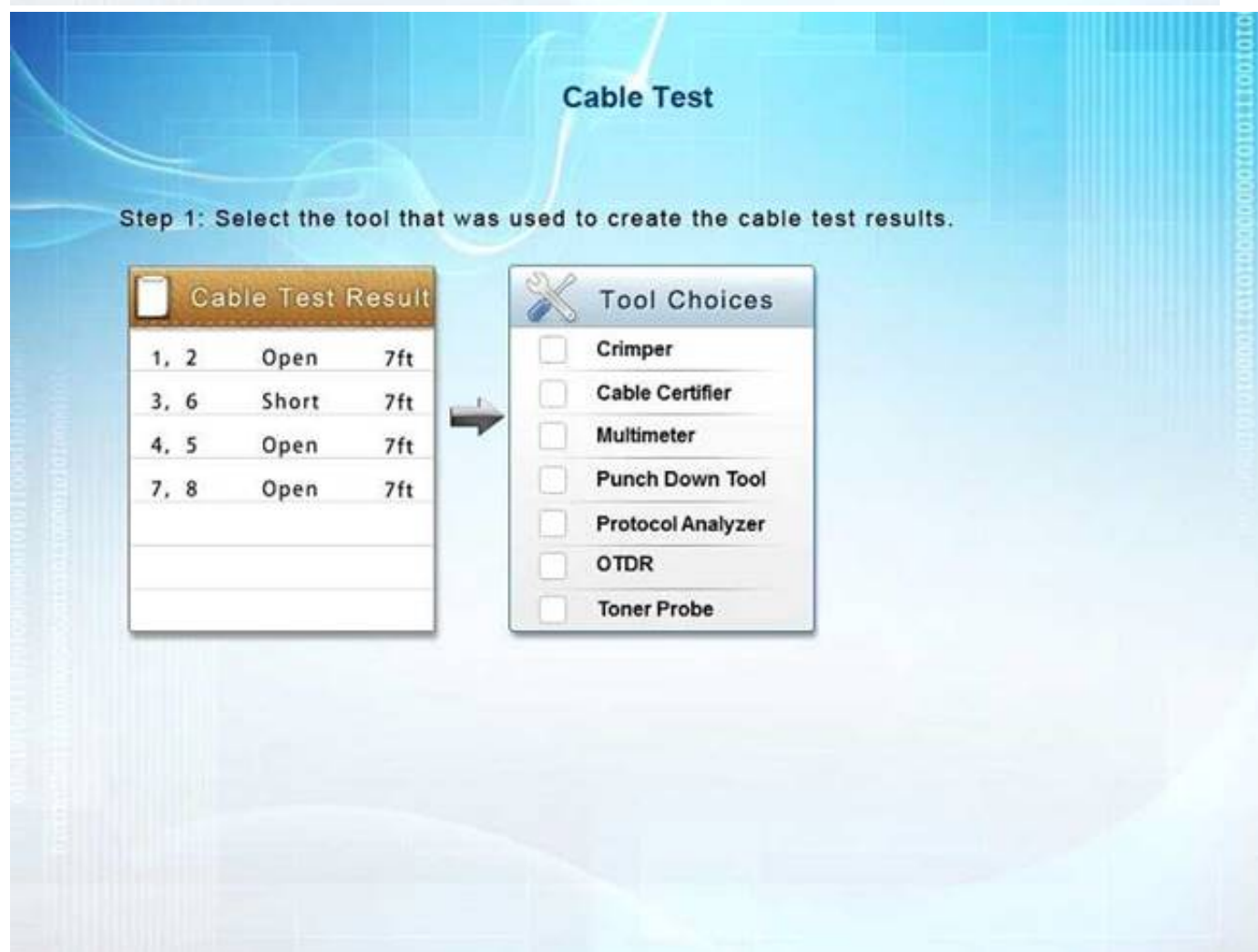
Answer: C

NEW QUESTION 267

- (Exam Topic 3)

You have been tasked with testing a CAT5e cable. A summary of the test results can be found on the screen. Step 1: Select the tool that was used to create the cable test results.

Step 2: Interpret the test results and select the option that explains the results. After you are done with your analysis, click the 'Submit Cable Test Analysis' button.



- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

ACable Certifier provides "Pass" or "Fail" information in accordance with industry standards but can also show detailed information when a "Fail" occurs. This includes shorts, the wire pairs involved and the distance to the short. When a short is identified, at the full length of the cable it means the cable has not been crimped correctly.

NEW QUESTION 271

- (Exam Topic 3)

Which of the following devices can be used to offload outbound web server SSL encryption overhead?

- A. NIPS

- B. Proxy server
- C. Content filter
- D. VPN connectator

Answer: B

NEW QUESTION 276

- (Exam Topic 3)

Which of the follow creates a secure remote connection at the OSI network layer?

- A. L2TP
- B. SSL
- C. DTLS
- D. IPSec

Answer: D

NEW QUESTION 280

- (Exam Topic 3)

Which of the following media types can carry a standard Ethernet signal for network connectivity?

- A. USB
- B. PArallel
- C. Serial
- D. CAT6

Answer: D

NEW QUESTION 284

- (Exam Topic 3)

The network optimization process used to allow reasonable use of data, voice, and video on the same network infrastructure is called:

- A. CARP
- B. QoS
- C. Traffic shaping.
- D. Fault tolerance.

Answer: B

NEW QUESTION 288

- (Exam Topic 3)

Kim, a network administrator, should consult which documentation sources FIRST to determine the cause of recent network issues?

- A. Network map
- B. Cable management
- C. Change management
- D. Asset management

Answer: C

NEW QUESTION 292

- (Exam Topic 3)

A new user is reporting connectivity issues. Zach, the network technician, notices that there is no link light on the user's NIC. Which of the following would be used to verify the wiring back to the patch panel?

- A. Butt set
- B. Cable certifier
- C. Toner probe
- D. Snips

Answer: B

NEW QUESTION 296

- (Exam Topic 3)

A customer wishes to network several computers throughout a large warehouse containing numerous metal shelves and concrete walls. The computers are at least 175 meters (574 feet) apart. Which of the following media types should be recommended for the customer using only a single switch?

- A. Fiber optic
- B. Wireless
- C. CAT5e
- D. CAT3

Answer: A

NEW QUESTION 301

- (Exam Topic 3)

Which of the following protocols is used for remote management of devices?

- A. SNMP
- B. TFTP
- C. Syslog
- D. SMTP

Answer: A

NEW QUESTION 305

- (Exam Topic 3)

A user wants a SOHO network to be protected from unauthorized users hacking their network. Which of the following should be implemented to aide in this matter?

- A. VPN
- B. Throughput tester
- C. Firewall
- D. OC3

Answer: C

NEW QUESTION 306

- (Exam Topic 3)

A network technician receives a call from a branch office about a problem with its wireless connectivity. The user states the office hosting a large meeting that includes some online training with local businesses. The guest users have all brought devices to connect to the guest network at the branch office. All users are connected to a single WAP and are reporting that connections dropping and network speeds are unusable. Which of the following is the MOST likely cause of this issue?

- A. DHCP exhaustion
- B. Chanel overlapping
- C. Interference
- D. Overcapacity

Answer: C

NEW QUESTION 309

- (Exam Topic 3)

Which of the following needs to be configured on a switch to use a packet sniffer?

- A. Port trunking
- B. Port mirroring
- C. Tagged VLAN
- D. Untagged VLAN

Answer: B

NEW QUESTION 311

- (Exam Topic 3)

A network technician is trying to terminate CAT5 modular jacks. Which of the following tools would be MOST appropriate for this scenario?

- A. Crimper
- B. OTDR
- C. Throughput tester
- D. Punch down tool

Answer: D

NEW QUESTION 314

- (Exam Topic 3)

Which of the following protocols is used to allow multiple hosts to share a common IP address?

- A. HTTPS
- B. ARP
- C. CARP
- D. NAT

Answer: D

NEW QUESTION 319

- (Exam Topic 3)

A network technician configures a firewall to block only certain IP addresses from accessing the Internet. All users are reporting that they are unable to access the Internet.

Which of the following is the MOST likely reason?

- A. Incorrectly configured ACL
- B. Implicit allow statement

- C. SMTP requests are being denied
- D. All protocols are being allowed in

Answer: A

NEW QUESTION 320

- (Exam Topic 3)

Which of the following occurs when antenna gain is increased on an access point?

- A. Connection speeds decrease
- B. Throughput decreases
- C. Cell size increases
- D. Attenuation increases

Answer: C

NEW QUESTION 324

- (Exam Topic 3)

No link lights on a switch's SFP are functioning, so the network technician re-terminates the end. After testing the cable, the tester is showing a db loss of-9. Which of the following types of cable is MOST likely being tested?

- A. Fiber
- B. CAT3
- C. CAT5e
- D. CAT6a

Answer: A

NEW QUESTION 328

- (Exam Topic 3)

Which of the following technologies allows for redundant links within a Layer 2 segment?

- A. OSPF
- B. RIP
- C. Port Mirroring
- D. Spanning Tree

Answer: D

NEW QUESTION 330

- (Exam Topic 3)

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

NEW QUESTION 335

- (Exam Topic 3)

A mobile user is no longer able to access network resources. Jeff, the network technician, is unable to ping the user's workstation. Which of the following commands would MOST likely be used on that workstation to verify its current network settings?

- A. net share
- B. hostname
- C. ipconfig
- D. tracert

Answer: C

NEW QUESTION 339

- (Exam Topic 3)

Which of the following separates broadcast domains?

- A. Port mirroring
- B. Router
- C. Convergence
- D. Switch

Answer: B

NEW QUESTION 343

- (Exam Topic 3)

A technician needs to limit the amount of broadcast traffic on a network and allow different segments to communicate with each other. Which of the following options would satisfy these requirements?

- A. Add a router and enable OSPF.
- B. Add a layer 3 switch and create a VLAN.
- C. Add a bridge between two switches.
- D. Add a firewall and implement proper ACL.

Answer: B

Explanation:

We can limit the amount of broadcast traffic on a switched network by dividing the computers into logical network segments called VLANs.

A virtual local area network (VLAN) is a logical group of computers that appear to be on the same LAN even if they are on separate IP subnets. These logical subnets are configured in the network switches. Each VLAN is a broadcast domain meaning that only computers within the same VLAN will receive broadcast traffic.

To allow different segments (VLAN) to communicate with each other, a router is required to establish a connection between the systems. We can use a network router to route between the VLANs or we can use a 'Layer 3' switch. Unlike layer 2 switches that can only read the contents of the data-link layer protocol header in the packets they process, layer 3 switches can read the (IP) addresses in the network layer protocol header as well.

NEW QUESTION 347

- (Exam Topic 3)

A network technician at a small office upgrades the VLAN switch. After the upgrade, a user reports being unable to access network resources. When the technician checks the switchport, the LED light is not lit. Which of the following should technician check FIRST?

- A. The device is using the correct cable type.
- B. The switchport is functioning properly.
- C. The device is connected to the switch.
- D. The switch is connected to the router.

Answer: C

NEW QUESTION 351

- (Exam Topic 3)

Which of the following is the prefix for a link-local IPv6 address?

- A. FE80::/10
- B. FF00::/8
- C. 2FFE::/16
- D. FEEF:/12

Answer: A

NEW QUESTION 352

- (Exam Topic 3)

Which of the following devices is used to distribute network traffic equally over multiple links?

- A. Content filter
- B. DNS server
- C. Load balancer
- D. Proxy server

Answer: C

NEW QUESTION 353

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