

## N10-007 Dumps

### CompTIA Network+ N10-007

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**NEW QUESTION 1**

- (Exam Topic 1)

Which of the following would a company place at the edge of its network if it wants to view and control which Internet applications are being used?

- A. VPN concentrator
- B. NGFW
- C. IDS/IPS
- D. Proxy server

**Answer:** B

**NEW QUESTION 2**

- (Exam Topic 1)

Which of the following is a vulnerable system designed to detect and log unauthorized access?

- A. SIEM
- B. Honeypot
- C. DMZ
- D. Proxy server

**Answer:** B

**NEW QUESTION 3**

- (Exam Topic 1)

A UTM is deployed on the external edge of the main corporate office. The office connects to the WAN port of the edge router. The edge router at the main office connects to the remote offices using GRE IPsec tunnels. A network administrator notices that a worm that was not detected by the UTM has spread from the remote sites into the corporate network. The UTM currently has traffic rules applied that should block the port used by the worm. Which of the following steps would MOST likely correct this issue?

- A. Move the UTM onto the LAN side of the network
- B. Enable TLS inspection on the UTM
- C. Enable stateful inspection on the UTM
- D. Configure the UTM to deny encrypted files from being transferred

**Answer:** C

**NEW QUESTION 4**

- (Exam Topic 1)

Which of the following backup techniques is used to capture all the data that has changed since the least full backup?

- A. Incremental
- B. Replica
- C. Different
- D. Snapshot

**Answer:** C

**NEW QUESTION 5**

- (Exam Topic 1)

A company has just refreshed the hardware in its datacenter with new 10G Ethernet switches wishes to set up a new storage area network but must use existing infrastructure. Which of the following storage standards should the technician use?

- A. iSCSI
- B. Fibre Channel
- C. NAS
- D. InfinBand

**Answer:** C

**NEW QUESTION 6**

- (Exam Topic 1)

A administrator is troubleshooting a user's intermittent 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 7**

- (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 8**

- (Exam Topic 1)

Employees want the ability to use personal devices on the guest network while working out at the company gym. In order to meet the request, which of the following policies requires employee adherence?

- A. AUP
- B. SLA
- C. NDA
- D. MOU

**Answer:** A

**NEW QUESTION 9**

- (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 10**

- (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 10**

- (Exam Topic 1)

A network technician is troubleshooting an issue and has established a theory of probable cause. Which of the following steps should the network technician take NEXT?

- A. Test the possible solution
- B. Question the users
- C. Determine what has changed
- D. Document the theory

**Answer:** A

**NEW QUESTION 15**

- (Exam Topic 1)

A technician is installing a new wireless badging system on a hospital network. The requirements of the badging system are for it to have its own SSID and low power levels. The badging system has to cover 99.9% of the hospital. Which of the following is the BEST action to take to meet the system requirements?

- A. Install additional WAPs
- B. Install external antennas
- C. Move the WAPs closer to the more populated area
- D. Change the antenna types

**Answer:** A

**NEW QUESTION 19**

- (Exam Topic 1)

A company has contracted with an outside vendor to perform a service that will provide hardware, software, and procedures in case of a catastrophic failure of the primary datacenter. The Chief Information Officer (CIO) is concerned because this contract does not include a long-term strategy for extended outages. Which of the following should the CIO complete?

- A. Disaster recovery plan
- B. Business continuity plan
- C. Service level agreement
- D. First responder training

**Answer:** B

**NEW QUESTION 21**

- (Exam Topic 1)

Users are reporting Internet connectivity issues. The network administrator wants to determine if the issues are internal to the company network or if there is an issue with the ISP. Which of the following tools should be used to BEST determine where the outage is occurring?

- A. traceroute
- B. ping
- C. nslookup
- D. netstat

**Answer:** A

**NEW QUESTION 26**

- (Exam Topic 1)

Which of the following protocols are classified as connectionless? (Select TWO)

- A. TFTP
- B. FTP
- C. HTTP
- D. SNMP
- E. SSH
- F. IMAP

**Answer:** AD

**Explanation:**

Trivial FTP (TFTP) is a connectionless file transfer program.

**NEW QUESTION 27**

- (Exam Topic 1)

A technician attempts to replace a switch with a new one of similar model from the same vendor. When the technician moves the fiber and SFP plug, the switch does not completely boot up. Considering that the config files are the same, which of the following is the MOST likely cause of the failure?

- A. Damaged fiber
- B. Corrupted operating system
- C. VLAN mismatch
- D. Bad port

**Answer:** B

**NEW QUESTION 29**

- (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 34**

- (Exam Topic 1)

A critical vulnerability is discovered on a network device. The vendor states it has already patched this vulnerability in its current release. Which of the following actions should an administrator take?

- A. Change the default password
- B. Use a firewall in front of the device.
- C. Update the firmware.
- D. Upgrade the configuration.

**Answer:** C

**NEW QUESTION 35**

- (Exam Topic 1)

A technician is setting up a public guest network for visitors to access the Internet that must be separate from the corporate network. Which of the following are the BEST steps for the technician to take with minimum overhead configuration? (Choose two.)

- A. Enable SSID broadcasting to identify the guest network
- B. Configure visitor devices to use static IP addresses
- C. Enable two-factor authentication on visitor devices
- D. Configure the access point to use WPA2-AES encryption
- E. Ensure the access point is not running in mixed mode

**Answer:** AB

**NEW QUESTION 40**

- (Exam Topic 1)

A network technician is setting up a new router. Since it is exposed to the public, which of the following are the BEST steps the technician should take when setting up this device? (Choose two.)

- A. Disable unnecessary services.
- B. Use private IP addresses.
- C. Allow remote management access.
- D. Disable the console port.
- E. Enable encryption.
- F. Upgrade to the latest firmware.

**Answer:** AF

**NEW QUESTION 42**

- (Exam Topic 1)

Which of the following should current network performance be compared against to determine network anomalies?

- A. Baseline
- B. Traffic analysis
- C. Packet capture
- D. Logs

**Answer:** A

**NEW QUESTION 46**

- (Exam Topic 1)

A technician is troubleshooting a point-to-point fiber-optic connection. The technician is at a remote site and has no connectivity to the main site. The technician confirms the switch and the send-and-receive light levels are within acceptable range. Both fiber SFPs are confirmed as working. Which of the following should the technician use to reveal the location of the fault?

- A. OTDR
- B. Light meter
- C. Tone generator
- D. CSU/DSU

**Answer:** A

**NEW QUESTION 51**

- (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 52**

- (Exam Topic 1)

A network administrator receives a call from the sales department requesting ports 20 and 21 be opened on the company's firewall to allow customers to retrieve a large file. Which of the following should the administrator perform BEFORE making the needed changes? (Choose two.)

- A. Document the reason for the request
- B. Scan the file for malware to protect the sales department's computers
- C. Follow the company's approval process for the implementation
- D. Install a TFTP server for the customers to use for the transfer
- E. Create a honeypot to store the file on for the customers to use
- F. Write the SLA for the sales department authorizing the change

**Answer:** AC

**NEW QUESTION 55**

- (Exam Topic 1)

A router is set up to utilize RIPv2 to route traffic throughout the network. Which of the following routing metrics is used to determine the path?

- A. Distance
- B. bandwidth
- C. Speed
- D. hop count

**Answer:** D

**NEW QUESTION 59**

- (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 64**

- (Exam Topic 1)

A network technician receives a call from a user in the accounting department stating that Internet connectivity has been lost after receiving a new workstation. No other users in accounting are reporting similar issues. The network technician is able to ping the machine from the accounting department's router, but is not able to ping the machine from the IT network. Which of the following is MOST likely the cause?

- A. Incorrect default gateway
- B. Duplicate IP address
- C. Misconfigured OSPF
- D. Improper VLAN assignment

**Answer:** A

**NEW QUESTION 69**

- (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 72**

- (Exam Topic 1)

A network technician has to integrate three legacy industrial devices into the existing wireless network. The devices only support 802.11b and TKIP. Which of the following should the technician do to connect these devices to the wireless network with the restrictive settings while not affecting the performance of the other users? (Select Two).

- A. Create a second SSID that uses WPA personal.
- B. Change the encryption to WPA@ personal.
- C. Enable MAC filtering.
- D. Change the encryption to WPA2 Enterprise.

**Answer:** D

**NEW QUESTION 73**

- (Exam Topic 1)

A network technician is repurposing a switch that has been in storage for some time. The device has been wiped to factory defaults. Which of the following should be done FIRST to ensure the device has been hardened before configuration?

- A. Generate new keys.
- B. Disable unused ports.
- C. Check for updated firmware.
- D. Configure the default VLAN.

**Answer:** C



**NEW QUESTION 77**

- (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 79**

- (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 84**

- (Exam Topic 1)

A technician needs to upgrade a SOHO wireless router's firmware. The technician resets the router to factory settings and installs the new firmware. The technician enters the DHCP information and sets the SSID. Which of the following configurations would provide the MOST protection from advance hackers?

- A. Disable the broadcasting of the SSID.
- B. Enable WPA2 authentication for all hosts.
- C. Use private addressing for the DHCP scope.
- D. Install unidirectional antennas.

**Answer:** B

**NEW QUESTION 86**

- (Exam Topic 1)

A technician is allocating the IP address space needed for a remote office. This office will contain the engineering staff with six employees and the digital marketing staff with 55 employees. The technician has decided to allocate the 192.1.0/24 block to the remote office. The engineering staff has been allocated the 192.168./29 subnet. Using the LEAST amount of space possible, which of the following would be the last usable IP address in the engineering subnet?

- A. 192.168.1.62
- B. 192.168.1.63
- C. 192.168.1.70
- D. 192.168.1.71

**Answer:** A

**NEW QUESTION 90**

- (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 91**

- (Exam Topic 1)

A network technician is configuring a firewall access list to secure incoming connections to an email server. The internal address of this email server is 192.168.1.143. The firewall should allow external email servers to send email to the email server. The email server also supports client access via a web browser. Only secure protocols should be used, and only the necessary ports should be open. Which of the following ACL rules should be configured in the firewall's WAN port? (Choose two.)

- A. Permit 192.168.1.143.25
- B. Permit 192.168.1.143.80
- C. Permit 192.168.1.143.110
- D. Permit 192.168.1.143.143
- E. Permit 192.168.1.143.443
- F. Permit 192.168.1.143.587

**Answer:** EF

**NEW QUESTION 92**

- (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 94**

- (Exam Topic 1)

A network administrator would like to collect information from several networking devices using SNMP. Which of the following SNMP options should a network administrator use to ensure the data transferred is confidential?

- A. authpriv
- B. SHA
- C. MD5
- D. Authentication passphrase

**Answer:** A

**NEW QUESTION 99**

- (Exam Topic 1)

A disgruntled employee decides to leak critical information about a company's new product. The employee places keyloggers on the department's computers, allowing the information to be sent out to the Internet. Which of the following attacks is occurring?

- A. Man-in-the-middle
- B. Logic bomb
- C. Insider threat
- D. Social engineering

**Answer:** C

**NEW QUESTION 102**

- (Exam Topic 1)

A typical cell tower will have microwave and cellular antennas. Which of the following network topologies do these represent? (Choose two.)

- A. Point-to-multipoint
- B. Bus
- C. Point-to-point
- D. Mesh
- E. Peer-peer
- F. Ring

**Answer:** CD

**NEW QUESTION 106**

- (Exam Topic 1)

A network administrator frequency needs to assist users with troubleshooting network hardware remotely, but the users are non-technical and unfamiliar with network devices. Which of the following would BEST help the administrator and users during hands-on troubleshooting?

- A. Logical diagrams
- B. MDF documentation
- C. Equipment labeling
- D. Standard operating procedures

**Answer:** D

**NEW QUESTION 107**

- (Exam Topic 1)

A network technician is connecting two switches together. Which of the following protocols should the technician use to increase speed and fault tolerance?

- A. SIP
- B. BGP
- C. LACP
- D. LLDP

**Answer:** C

**NEW QUESTION 111**

- (Exam Topic 1)

A network technician receives a call from a use 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. Honeypot

**Answer:** A

#### NEW QUESTION 114

- (Exam Topic 1)

At which of the following OSI model layers would a router operate?

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

**Answer:** B

#### NEW QUESTION 115

- (Exam Topic 1)

A network technician is installing a new network switch 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 119

- (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 thy 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 120

- (Exam Topic 1)

A technician set up a new SOHO network recently. The installed router has four Ethernet ports; however the customer has seven devices that wired connections. Which of the following should the technician do to BEST meet the customer's requirements?

- A. Install a six-port switch
- B. Configure port forwarding on the router
- C. Install WAPs near the devices.
- D. Configure the switchports as EtherChannel ports.

**Answer:** A

#### NEW QUESTION 124

- (Exam Topic 1)

A technician is upgrading the firmware on an older KVM switch. The specifications call for a serial port to connect to the computer on one side, and an Ethernet jack to connect to the switch on the other side. Which of the following connectors does the technician need for this cable? (Choose two.)

- A. RG-9
- B. DB-9
- C. RJ-11
- D. DB-25
- E. RJ-45
- F. BNC

**Answer:** BE

#### NEW QUESTION 128

- (Exam Topic 1)

A company has hundreds of nodes on a single subnet and has decided to implement VLANs. Which of the following BEST describes the benefit of this approach?

- A. It segments broadcast domains in the network infrastructure
- B. It provides a faster port to all servers
- C. It provides multiple collision domains on one switchport
- D. It provides multiple broadcast domains within a single collision domain

**Answer:** A

**NEW QUESTION 130**

- (Exam Topic 1)

A company has completed construction of a new datacenter, and the IT staff is now planning to relocate all server and network equipment from the old site to the new site. Which of the following should the IT staff reference to determine the location of the equipment being moved?

- A. Rack diagrams
- B. Network topology
- C. Standard operating procedures
- D. Wiring documentation

**Answer:** A

**NEW QUESTION 133**

- (Exam Topic 1)

A network technician has discovered a rogue access point under an empty cubicle desk. Which of the following should the technician perform to ensure another cannot be placed on the network?

- A. Disable unused ports on switches
- B. Enable DHCP guard to detect rogue servers
- C. Configure WPA2 on all access points
- D. Use TACACS+ authentication

**Answer:** B

**NEW QUESTION 137**

- (Exam Topic 1)

A Content filter is set to analyze XML and JSON that users access from the internet. At which of the following layer's is this analysis taking place?

- A. 1
- B. 3
- C. 5
- D. 7
- E. 6

**Answer:** E

**NEW QUESTION 138**

- (Exam Topic 1)

A network technician is working on a proposal for email migration from an on-premises email system to a vendor-hosted email in the cloud. The technician needs to explain to management what type of cloud model will be utilized with the cloud-hosted email. Which of the following cloud models should the technician identify in the proposal?

- A. IaaS
- B. PaaS
- C. SaaS
- D. MaaS

**Answer:** C

**NEW QUESTION 143**

- (Exam Topic 1)

A network technician is troubleshooting wireless network issues in a crowded office complex and suspects there is interference from nearby wireless networks. Which of the following should the technician perform to discover possible interference?

- A. Site survey
- B. Vulnerability scanning
- C. Wardriving
- D. Checking logical diagram
- E. Bandwidth test

**Answer:** A

**NEW QUESTION 148**

- (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 151**

- (Exam Topic 1)

A firewall log reports unencrypted console commands coming in on the WAN interface on the router. Inspection, port 23 is found to be ....router. Which of the following should be done to the router?

- A. Block all traffic coming in on that interface.
- B. Use Base64 to obfuscate the console traffic.
- C. Implement a pki to authenticate clients.
- D. Disable the Telnet service on the device.

**Answer:** A

**NEW QUESTION 154**

- (Exam Topic 1)

A network technician is deploying mobile phones for a company's sales staff. Salespeople frequently travel nationally and internationally to meet with clients, and often have to roam or switch cellular providers. Which of the following standards is the BEST option to fit the requirements?

- A. GSM
- B. TDM
- C. CDMA
- D. PSTN
- E. MIMO

**Answer:** A

**NEW QUESTION 159**

- (Exam Topic 1)

Which of the following are characteristic of jumbo frames? (Select TWO).

- A. Commonly used on SAN
- B. MTU size greater than 1500
- C. MTU size greater than 10000
- D. Commonly used on IaaS
- E. MTU size greater than 12000

**Answer:** BD

**NEW QUESTION 164**

- (Exam Topic 1)

A network technician is attempting to troubleshoot a connectivity issue. The issue is only reported during the evening hours, and only a single workstation loses connectivity. Which of the following is the MOST likely cause of the issue?

- A. The router has time-based ACL applied for the network segment.
- B. A light source is creating EMI interference, affecting the UTP.
- C. Nightly backups are consuming excessive bandwidth.
- D. The user has violated the AUP, and Internet access has been restricted

**Answer:** D

**NEW QUESTION 168**

- (Exam Topic 1)

Which of the following can be done to implement network device hardening (Select TWO).

- A. Implement spanning tree
- B. Perform VLAN hopping
- C. Patch and update
- D. Perform backups
- E. Enable port mirroring
- F. Change default admin password

**Answer:** CF

**Explanation:**

Network devices come with default credentials, the username and password that enables you to log into the device for configuration. Changing default credentials should be the first step in hardening a new device. As with any other system, avoiding common passwords adds security.

Keep network devices up to date. That means upgrading firmware, patching and updating as necessary to close any security gaps exposed over time.

Services on network devices like routers include common things, like Telnet and HTTP access; and also things you don't normally see, like TCP and UDP small services, debugging and testing tools that primarily use ports 20 and lower. If enabled, these services can be used to launch DoS and other attacks. All modern Cisco devices have these disabled; Cisco's hardening rules insist on disabling unnecessary services.

Using secure protocols hardens network devices. Don't use Telnet to access a managed switch or router, for example, but use SSH so that the communication is encrypted.

Disabling unused ports on network devices enhances port security for access control. This includes standard IP ports and device ports, both physical and virtual for the latter.

**NEW QUESTION 173**

- (Exam Topic 1)

A technician needs to order cable that meets 10GBASE-T and safety requirements for an installation between a drop ceiling and a standard ceiling.

Which of the following should the technician order to ensure compliance with the requirements?

- A. PVC Cat 5
- B. Plenum Cat 5e
- C. Plenum Cat 6a
- D. PVC Cat 7

**Answer:** C

**Explanation:**

10GBaseT A 10 GbE standard designed to run on Cat 6a UTP cabling. Maximum cable length of 100 m.

**NEW QUESTION 174**

- (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 177**

- (Exam Topic 1)

A server in a LAN was configured to act as a gateway between all company computers and an external network. Which of the following network devices offers the ability to increase both performance and security?

- A. Load balancer
- B. IDS
- C. Proxy server
- D. Wireless controller

**Answer:** C

**NEW QUESTION 181**

- (Exam Topic 1)

Which of the following protocols authenticates a PC to the server using a ticket issued to it by the authentication service?

- A. Kerberos
- B. RADIUS
- C. TACACS+
- D. LDAP

**Answer:** A

**NEW QUESTION 183**

- (Exam Topic 1)

A network technician is adding workstation to the enterprise network. After bringing the PCs online. The technician receives reports from random users that they cannot log on. The technician checks and finds everything is functioning for most users. Which of the following is MOST likely causing the problem?

- A. Exhausted DHCP scope
- B. DNS resolving
- C. Duplicate Mac address
- D. Incorrect ACL entry

**Answer:** C

**NEW QUESTION 188**

- (Exam Topic 1)

A technician is working on a new machine that has been procured for testing and development. The machine will run a hypervisor and host several operating systems of various types so the development team can test the company's applications in a variety of environments. The technician wants the virtual machines to be available to communicate with each other without leaving the hypervisor. Which of the following is the BEST solution to the problem?

- A. The technician should connect the machine to its own separate switch.
- B. The technician should add a route in each virtual machine to the default gateway.
- C. The technician should configure a virtual switch.
- D. The technician should set up individual routes between the machines.

**Answer:** C

**NEW QUESTION 192**

- (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 193

- (Exam Topic 1)

A technician is responsible for configuring a new firewall. The hardware team has already installed, powered, and connected the system. Which of the following types of documentation should the technician utilize to complete the task?

- A. Rack diagram
- B. IDF/MDF documentation
- C. Network performance baseline
- D. Logical and physical diagrams

**Answer:** D

#### NEW QUESTION 194

- (Exam Topic 1)

A junior technician is setting up a voice control device so the Chief Executive Officer (CEO) will be able to control various things in the office. Of which of the following types of IoT technologies is this an example?

- A. LAN
- B. WAN
- C. SAN
- D. PAN

**Answer:** D

#### NEW QUESTION 198

- (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 200

- (Exam Topic 1)

A network technician is diagnosing a time-out issue generated from an end user's web browser. The web browser issues standard HTTP GET and POST commands to interact with the website. Given this information, the technician would like to analyze the entire TCP handshake of the HTTP requests offline. Which of the following tools would allow the technician to view the handshake?

- A. Packet analyzer
- B. Port analyzer
- C. SNMP traps
- D. Spectrum analyzer

**Answer:** A

#### NEW QUESTION 204

- (Exam Topic 1)

An office network consists of one two-port router connected to a 12-port switch. A four-port hub is also connected to the switch. On this particular network, which of the following is the number of collision domains that exist?

- A. 3
- B. 12
- C. 13
- D. 14
- E. 15

**Answer:** D

#### NEW QUESTION 205

- (Exam Topic 1)

A network engineer arrives at work and discovers that many users are having problems when attempting to connect to the company network shared drives. The network operations center (NOC) technician just completed server upgrades the night before. To which of the following documents should the NOC technician refer to determine what potentially caused the connectivity problem?

- A. Network maps
- B. Cable management
- C. Release notes
- D. Change management

**Answer:** D

**NEW QUESTION 210**

- (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 214**

- (Exam Topic 1)

The Chief Information Officer (CIO) has noticed the corporate wireless signal is available in the parking lot. Management requests that the wireless network be changed so it is no longer accessible in public areas, without affecting the availability inside the building. Which of the following should be changed on the network?

- A. Power levels
- B. Overcapacity
- C. Distance limitations
- D. Channel overlap

**Answer:** A

**NEW QUESTION 215**

- (Exam Topic 1)

A junior network technician is working in the field and needs to connect to the company/s remote server, however, doing so will require the junior technician to use the public Internet. Because security is a concern which of the following is the BEST method to use?

- A. Telnet
- B. SSH
- C. SFTP
- D. VNC

**Answer:** B

**NEW QUESTION 216**

- (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 221**

- (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 quotasf

**Answer:** C

**NEW QUESTION 225**

- (Exam Topic 1)

A network administrator has a monitoring system in place that is currently polling hundreds of network devices at regular intervals. The continuous polling is causing high CPU utilization on the server. Which of the following tasks should the administrator perform to resolve the CPU issue while maintaining full monitoring capabilities?

- A. Remove SNMP polling and configure SNMP traps on each network device
- B. Remove SNMP polling and implement snmpwalk on each network device
- C. Upgrade SNMP to the latest version to mitigate vulnerabilities
- D. Modify SNMP polling to poll only during business hours



**Answer:** A

**NEW QUESTION 230**

- (Exam Topic 1)

Which of the following WAN technologies utilizes the concept of virtual circuits and point-multipoint connections?

- A. ISDN
- B. MPLS
- C. PRI
- D. Broadband cable
- E. Frame relay

**Answer:** E

**NEW QUESTION 231**

- (Exam Topic 1)

An employee wishes to use a personal cell phone for work-related purposes, including storage of sensitive company data, during long business trips. Which of the following is needed to protect BOTH the employee and the company?

- A. An NDA ensuring work data stored on the personal phone remains confidential
- B. An AUP covering how a personal phone may be used for work matters
- C. A consent to monitoring policy covering company audits of the personal phone
- D. Real-time remote monitoring of the phone's activity and usage

**Answer:** D

**NEW QUESTION 234**

- (Exam Topic 1)

After a server outage, a technician discovers that a physically damaged fiber cable appears to be the problem. After replacing the cable, the server will still not connect to the network. Upon inspecting the cable at the server end, the technician discovers light can be seen through one of the two fiber strands. Which of the following should the technician do FIRST to reconnect the server to the network?

- A. Reverse the fiber strands of the cable and reconnect them to the server
- B. Use a TDR to test both strands of a new replacement cable prior to connecting it to the server
- C. Replace the server's single-mode fiber cable with multimode fiber
- D. Move the fiber cable to different port on the switch where both strands function

**Answer:** A

**NEW QUESTION 239**

- (Exam Topic 1)

Ann, a network technician, has just installed a fiber switch in a datacenter. To run the fiber cabling, Ann plans the cable route over the top of the rack using the cable trays, down to the switch, coiling up any excess cable. As Ann configures the switch, she notices several messages in the logging buffer stating the receive signal of the SFP is too weak. Which of the following is MOST likely the cause of the errors in the logging buffer?

- A. Bend radius exceeded
- B. Fiber cable mismatch
- C. Fiber type mismatch
- D. Bad fiber switch

**Answer:** A

**NEW QUESTION 240**

- (Exam Topic 1)

A technician is trying to determine the IP address of a customer's router. The customer has an IP address of 192.168.1.55/24. Which of the following is the address of the customer's router?

- A. 192.168.0.55
- B. 192.168.1.0
- C. 192.168.1.1
- D. 192.168.5.5
- E. 255.255.255.0

**Answer:** C

**NEW QUESTION 244**

- (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 247**

- (Exam Topic 1)

A small business developed an in-house application that is very sensitive to network latency when a communicating between servers. Due to a lack of funds, the business had to build its own network for workstations and servers. Now a network administrator must redesign the network due to performance issues with the application. Which of the following would be the MOST cost effective for the administrator to recommend?

- A. Create Ethernet VLANs
- B. Disable autonegotiation on the servers
- C. Install 10Gb Ethernet NICs in the servers
- D. Install Fibre Channel for the server network

**Answer:** C

**NEW QUESTION 250**

- (Exam Topic 1)

In which of the following ways does a DDoS attack differ from a spoofing attack?

- A. DDoS attacks target multiple networks
- B. Spoofing attacks originate from a single host
- C. DDoS attacks are launched from multiple hosts
- D. Spoofing attacks require physical presence

**Answer:** C

**NEW QUESTION 255**

- (Exam Topic 1)

A network technician is able to connect the switches between to offices, but the offices cannot communicate with each other, as each office uses a different IP addressing scheme. Which of the following devices needs to be installed between the switches to allow communication?

- A. Bridge
- B. Access point
- C. Router
- D. Range extender

**Answer:** C

**NEW QUESTION 257**

- (Exam Topic 1)

A network technician notices the site-to site VPN and internet connection have back up at a branch office' after a recent power outage. Which of the following is an out-of-band method the technician the would MOST likely utilize to check the branch office's router status?

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

**Answer:** B

**NEW QUESTION 258**

- (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 260**

- (Exam Topic 1)

Which of the following protocols is associated with a three-way handshake?

- A. UDP
- B. ICMP
- C. GRE
- D. TCP

**Answer:** D

**NEW QUESTION 264**

- (Exam Topic 1)

Which of the following is used to classify network data for the purpose of providing QoS?

- A. STP
- B. VLANs

- C. SIP
- D. DSCP

**Answer:** D

#### NEW QUESTION 267

- (Exam Topic 1)

While working on a Linux-based OS, a technician experiences an issue accessing servers and some sites by name. Which of the following command-line tools should the technician use to assist in troubleshooting?

- A. dig
- B. iptables
- C. ifconfig
- D. traceroute

**Answer:** A

#### NEW QUESTION 272

- (Exam Topic 1)

A network administrator is assigned to run and connect a Cat 6e Ethernet cable between two nodes in a datacenter. Which of the following connector types should the network administrator use to terminate this cable?

- A. DB-9
- B. RS-232
- C. DB-25
- D. RJ-45

**Answer:** D

#### NEW QUESTION 274

- (Exam Topic 1)

A telecommunications provider has just deployed a new OC-12 circuit at a customer site. While the circuit showed no errors from the provider end to the customer's demarcation point, a network administrator is trying to determine the cause of dropped packets and errors on the circuit. Which of the following should the network administrator do to rule out any problems at Layer 1? (Choose two.)

- A. Use a loopback at the demark and router, and check for a link light
- B. Use an OTDR to validate the cable integrity
- C. Use a pinout tester to validate the cable integrity
- D. Use a multimeter to validate the cable integrity
- E. Check for any devices that may be causing EMI on the cable
- F. Clean the cables to be sure they are free of dust and debris

**Answer:** AB

#### NEW QUESTION 276

- (Exam Topic 1)

A technician is setting up a branch office on a point-to-point connection. Which of the following IP network blocks is the MOST efficient use of IP address space for the router connections between the two sites?

- A. /24
- B. /25
- C. /30
- D. /32

**Answer:** C

#### NEW QUESTION 277

- (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 282

- (Exam Topic 1)

Multiple users are reporting that they are unable to access the network. The ENTIRE network is shown in the diagram. PCs are not statically assigned IP addresses. The following devices will display settings.

- WorkstationA
- WorkstationB
- WorkstationC
- WorkstationD

- WokstationE
- WorkstalionF
- WorkstalionG
- Laptop1
- Laptop2
- DHCP server1
- DHCP serverr2

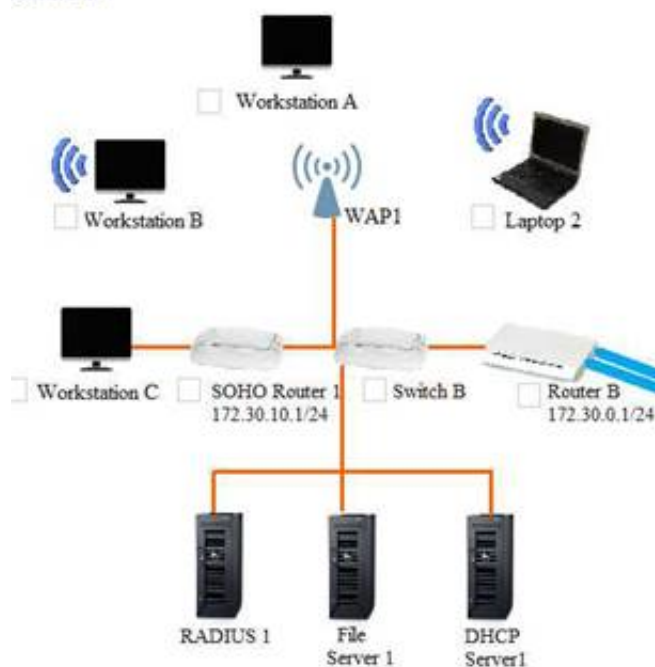
Review the settings and select the box in the diagram that identifies the device causing the issue. Only one device can be selected at a time.

After checking the device that is causing the issue, select the second tab in the lower left hand corner. Identify the reason as to why some users are unable to access the network.

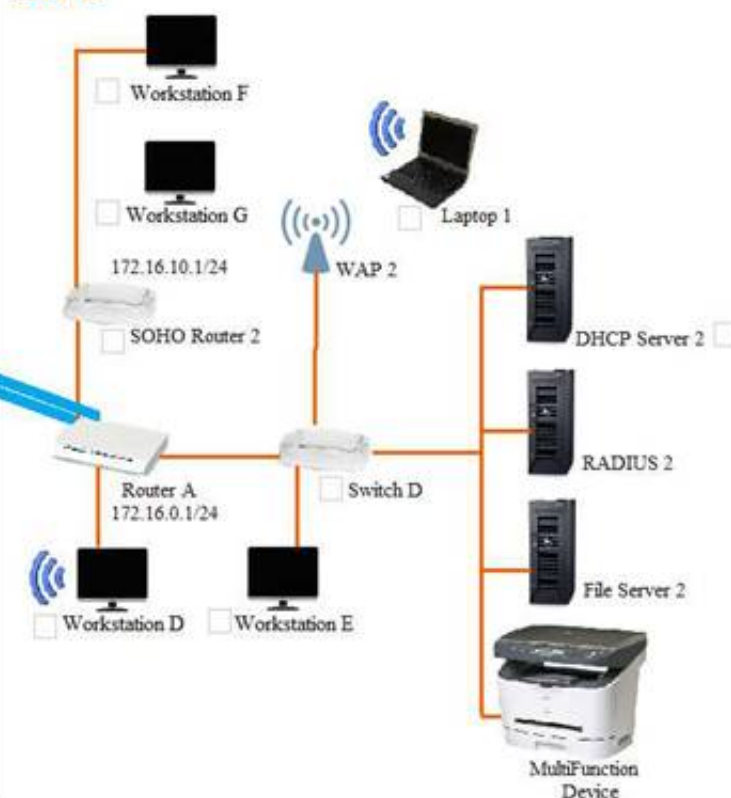
#### Site A and B Network Diagram

Instructions: Only one device can be selected at a time. Please ensure you complete Part 1 and Part 2 of the simulation.

#### SITE A



#### SITE B



#### WORKSTATION A

IP Address	172.30.0.10
Netmask	255.255.255.0
Gateway	172.30.0.1

OK

#### WORKSTATION B

IP Address	172.30.0.14
Netmask	255.255.255.0
Gateway	172.30.0.1

OK

#### WORKSTATION C

IP Address	169.254.200.67
Netmask	255.255.255.0
Gateway	

OK

#### WORKSTATION D

IP Address	172.16.0.221
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

#### WORKSTATION E

IP Address	172.16.0.21
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

**WORKSTATION F**

IP Address	172.16.10.43
Netmask	255.255.255.0
Gateway	172.16.10.1

**WORKSTATION G**

IP Address	172.16.10.120
Netmask	255.255.255.0
Gateway	172.16.10.1

**LAPTOP 1**

IP Address	172.16.0.220
Netmask	255.255.255.0
Gateway	172.16.0.1

**LAPTOP 2**

IP Address	172.30.0.12
Netmask	255.255.255.0
Gateway	172.30.0.1

**DHCP SERVER 1**

IP Address	172.30.0.5
Netmask	255.255.255.0
Gateway	172.30.0.1

DHCP Scope	172.30.0.10-250
Gateway	172.30.0.1
DNS Servers	10.200.2.20, 10.200.3.20
DHCP Lease Time	8 days

**DHCP SERVER 2**

IP Address	172.30.0.5
Netmask	255.255.255.0
Gateway	172.16.0.1

DHCP Scope	172.16.0.10-250
Gateway	172.16.0.1
DNS Servers	10.200.2.20, 10.200.3.20
DHCP Lease Time	8 days

Part 2

Identify the reason as to why some users are unable to access the network.

- A. Workstation(s) are plugged into switch ports configured with half duplex.
- B. The site-to-site router was configured with the incorrect ACL.
- C. DHCP server scope is full and is not providing IP addresses.
- D. WAN and LAN ports are reversed on the router.
- E. STP had disabled some of the ports on the switch.
- F. The NIC driver is not installed.
- G. A wireless client is unable to associate to the AP.

**Answer:** G



**NEW QUESTION 287**

- (Exam Topic 1)

A Chief Information Officer (CIO) wants to move some IT services to a cloud service offering. However, the network administrator still wants to be able to control some parts of the cloud service's networking components. Which of the following should be leveraged to complete this task?

- A. IaaS
- B. PaaS
- C. SaaS
- D. DaaS

**Answer:** B

**NEW QUESTION 289**

- (Exam Topic 1)

A systems administrator has recently purchased and installed a large electronic signage screen for the company's parking garage. The screen's management software was installed on a server with public IP address to allow remote management. The systems administrator is now troubleshooting an issue with the screen displaying unknown, random, and inappropriate messages. Which of the following is MOST effective in resolving this issue?

- A. Changing the management software's default credentials
- B. Disabling unnecessary services from the server and management software
- C. Changing the management software's default port
- D. Replacing the management software's self-signed certificate with a valid certificate

**Answer:** A

**NEW QUESTION 290**

- (Exam Topic 1)

A user reports difficulties connecting a PC to a wired network. The PC connects to an IP phone, which is working correctly. A network technician can verify that other devices successfully connect to the phone. At which of the following layers of the OSI model is the problem MOST likely located?

- A. Network
- B. Physical
- C. Transport
- D. Application

**Answer:** A

**NEW QUESTION 295**

- (Exam Topic 1)

A network technician has just configured NAC for connections using Cat 6 cables. However, none of the Windows clients can connect to the network. Which of the following components should the technician check on the Windows workstations? (Choose two.)

- A. Start the Wired AutoConfig service in the Services console
- B. Enable IEEE 802.1q Authentication in Network Interface Card Properties
- C. Enable IEEE 802.1x Authentication in Network Interface Card Properties
- D. Start the Wireless AutoConfig service in the Services console
- E. Enable IEEE 802.3 Ethernet IPv6 in Network Interface Card Properties

**Answer:** AC

**NEW QUESTION 297**

- (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 298**

- (Exam Topic 1)

A network technician is assisting the security team with some traffic captures. The security team wants to capture all traffic on a single subnet between the router and the core switch. To do so, the team must ensure there is only a single collision and broadcast domain between the router and the switch from which they will collect traffic. Which of the following should the technician install to BEST meet the goal?

- A. Bridge
- B. Crossover cable
- C. Hub
- D. Media converter

**Answer:** C

**NEW QUESTION 300**

- (Exam Topic 1)

A chief information Officer (CIO) tasks the network engineer with protecting the network from outside attacks. Placing which of the following devices on the network perimeter would provide the MOST security for the system?

- A. Firewall
- B. NGFW
- C. Content filter
- D. IDS/PS

**Answer:** B

#### NEW QUESTION 301

- (Exam Topic 1)

Joe, an employee at a large regional bank, wants to receive company email on his personal smartphone and table: To authenticate on the mail server, he must first a custom security application on those mobile services. Which of the following policies would BEST enforce this requirement?

- A. Incident response policy
- B. BYOD policy
- C. DLP policy
- D. Remote access policy

**Answer:** B

#### NEW QUESTION 306

- (Exam Topic 1)

A technician replaces a failed router with a spare that has been in inventory for some time. After attempting to enable HTTPS on the spare router, the technician discovers the feature is unavailable. The support office was able to connect to the previous router. Which of the following actions should the technician perform to enable HTTPS access for the support team?

- A. Reboot the router
- B. Enable HTTP on the router
- C. Update the firmware of the spare router
- D. Perform a factory reset on the router

**Answer:** C

#### NEW QUESTION 308

- (Exam Topic 1)

A technician logs onto a system using Telnet because SSH is unavailable. SSH is enabled on the target device, and access is allowed from all subnets. The technician discovers a critical step was missed. Which of the following would allow SSH to function properly?

- A. Perform file hashing
- B. Generate new keys
- C. Update firmware
- D. Change default credentials

**Answer:** B

#### NEW QUESTION 313

- (Exam Topic 1)

A network administrator is performing a major to the upgrade to the network. Which of the following should the administrator use in a case of a failure?

- A. Baseline report
- B. Vulnerability report
- C. Rollback plan
- D. Business continuity plan

**Answer:** A

#### NEW QUESTION 318

- (Exam Topic 1)

A network technician is considering opening ports on the firewall for an upcoming VoIP PBX implementation. Which of the following protocols is the technician MOST likely to consider? (Choose three.)

- A. SIP
- B. NTP
- C. H.323
- D. SMB
- E. ICMP
- F. RTP
- G. IPSec
- H. RDP

**Answer:** ACF

#### NEW QUESTION 323

- (Exam Topic 1)

The backups server connects to a NAS device using block-level storage over Ethernet. The performance is very slow, however, and the network technician suspects the performance issues are network related. Which of the following should the technician do to improve performance?

- A. Utilize UDP to eliminate packet overhead
- B. Turn off MDIX settings on the NAS and server switchports
- C. Enable jumbo frames on the NAS and server
- D. Encapsulate the storage traffic in a GRE tunnel

**Answer: C**

#### NEW QUESTION 325

- (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 326

- (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 331

- (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 334

- (Exam Topic 1)

Which of the following devices, if implemented, would result in decreased administration time of an 802.11 network running centralized authentication services? (Choose two.)

- A. VPN concentrator
- B. Proxy server
- C. Wireless controller
- D. RADIUS server
- E. Multilayer switch

**Answer: CD**

#### NEW QUESTION 335

- (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 340**

- (Exam Topic 1)

Users in a school lab are reporting slow connections to the servers and the Internet. Other users in the school have no issues. The lab has 25 computers and is connected with a single 1Gb Ethernet connection on Cat 5e wiring to an unmanaged switch. There are also three spare Cat 5e cable runs, which are not in use. The school wants to double the connection speed between the lab and the servers without running new cables. Which of the following would be the BEST solution?

- A. Plug in a second spare cable at each end to double the speed.
- B. Replace the switches with ones that utilize port bonding and use the spare cables.
- C. Replace the switches with 10Gb switches and utilize the existing cabling.
- D. Plug in a second cable and set one port to TX and one port to RX.

**Answer: B**

**NEW QUESTION 341**

- (Exam Topic 1)

Which of the following WAN technologies is MOST preferred when developing a VoIP system with 23 concurrent channels?

- A. DSL
- B. POTS
- C. T1
- D. DOCSIS

**Answer: C**

**NEW QUESTION 342**

- (Exam Topic 1)

A network technician has implemented ACLs to limit access to cloud-based file storage. Which of the following security mechanisms has the technician enforced?

- A. DLP
- B. IDS
- C. WAF
- D. WPA
- E. TPM

**Answer: C**

**NEW QUESTION 344**

- (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 349**

- (Exam Topic 1)

A computer lab on a campus network was recently reconfigured using recycled network cables. One of the 24 computers in the lab is unable to connect to the network after the upgrade. A network technician successfully uses the cable in question to connect directly to another computer. Which of the following is MOST likely issue with the cable?

- A. The cable is a crossover cable
- B. The cable is rollover cable
- C. The cable has bent pins
- D. The cable is a Cat 5 cable

**Answer: A**

**NEW QUESTION 353**

- (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 356

- (Exam Topic 1)

According to the OSI model, at which of the following layers is data encapsulated into a packet?

- A. Layer 2
- B. Layer 3
- C. Layer 4
- D. Layer 5
- E. Layer 6

**Answer:** B

#### NEW QUESTION 361

- (Exam Topic 1)

Which of the following physical security controls is MOST likely to be susceptible to a false positive?

- A. Identification card
- B. Biometric device
- C. Proximity reader
- D. Video camera

**Answer:** C

#### NEW QUESTION 366

- (Exam Topic 1)

Which of the following will listen on the line to ensure there is no traffic transmitting and implement a back-off timer if a collision occurs?

- A. CSMA/CD
- B. CSMA/CA
- C. MPLS
- D. OSPF

**Answer:** A

#### NEW QUESTION 370

- (Exam Topic 1)

A network technician is building a network for a small office. The office currently has cable TV and now requires access to the Internet without adding any cabling other than what is already in place. Which of the following solutions should the technician install to meet these requirements?

- A. DOCSIS modem
- B. Wireless router
- C. DSL modem
- D. Access point

**Answer:** A

#### NEW QUESTION 373

- (Exam Topic 1)

A web application is unable to authenticate customers so they can access their bills. The server administrator has tested the LDAP query but is not receiving results. Which of the following is the NEXT step the server administrator should take to correct the problem?

- A. Check port 636 to see if it being blocked.
- B. Change service port 636 to port 389.
- C. Restart the web server.
- D. Verify the browser is using port 443.

**Answer:** A

#### NEW QUESTION 377

- (Exam Topic 1)

A technician wants to deploy a network that will require wireless client devices to prompt for a username and password before granting access to be the wireless network. Which of the following must be configured to implement this solution?

- A. EAP-PEAP
- B. CCMP-AES

- C. WPA2-PSK
- D. TKIP-RC4

**Answer:** A

#### NEW QUESTION 378

- (Exam Topic 2)

Zach, a technician, is installing an 802.11n network. Which of the following should he disable to stop broadcasting the network name?

- A. Channel
- B. WEP
- C. SSID
- D. WPA

**Answer:** C

#### NEW QUESTION 382

- (Exam Topic 2)

Tenants access multiple wireless networks in a building. Users report intermittent connectivity. Which of the following is the MOST likely cause of the problem?

- A. The channels are overlapping with other wireless networks and should be changed.
- B. The SSIDs are incompatible and should be renamed.
- C. The users have incompatible wireless network cards and should upgrade.
- D. The default idle period for logoff is too short and should be changed to a longer limit.

**Answer:** A

#### NEW QUESTION 387

- (Exam Topic 2)

Which of the following uses port 53 by default?

- A. RDP
- B. QoS
- C. DHCP
- D. DNS

**Answer:** D

#### NEW QUESTION 388

- (Exam Topic 2)

The software that allows a machine to run multiple operating systems at once is called the:

- A. Server manager
- B. Hypervisor
- C. Boot loader
- D. Partition manager

**Answer:** B

#### NEW QUESTION 389

- (Exam Topic 2)

Which of the following uses types and codes rather than ports?

- A. EIGRP
- B. ICMP
- C. UDP
- D. IPv6

**Answer:** B

#### NEW QUESTION 391

- (Exam Topic 2)

Which of the following connector types would Sandy, a network technician, use to connect a serial cable?

- A. RJ-11
- B. BNC
- C. LC
- D. DB-9

**Answer:** D

#### NEW QUESTION 396

- (Exam Topic 2)

Which of the following mediums is circuit switched?

- A. PSTN
- B. ATM
- C. Frame relay
- D. MPLS

**Answer:** A

**NEW QUESTION 399**

- (Exam Topic 2)

Which of the following is true about tunneling and encryption?

- A. SIP encrypts all data going through the tunnel.
- B. PPTP creates a secure tunnel.
- C. SSL VPN provides a secure tunnel.
- D. RAS is a secure way to create a tunnel.

**Answer:** C

**NEW QUESTION 402**

- (Exam Topic 2)

Which of the following has a maximum transfer rate of 54Mbps and operates at the 5GHz frequency?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

**Answer:** A

**NEW QUESTION 405**

- (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 409**

- (Exam Topic 2)

A company wants to only allow incoming HTTP and HTTPS traffic on their public wireless network. Which of the following port numbers should be the only allowed open ports on the firewall to accomplish this? (Select TWO).

- A. 20
- B. 80
- C. 143
- D. 443
- E. 8080

**Answer:** BD

**NEW QUESTION 414**

- (Exam Topic 2)

Which of the following BEST describes how a layer 2 switch functions?

- A. Switches packets within the same subnet based on MAC addresses
- B. Switches packets between different subnets based on IP addresses
- C. Switches packets between different subnets based on MAC addresses
- D. Switches packets between different subnets based on MAC addresses

**Answer:** A

**NEW QUESTION 416**

- (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 418**

- (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 419

- (Exam Topic 2)

Which of the following uses certificates as a form of security?

- A. Kerberos
- B. LDAP
- C. PKI
- D. CHAP

**Answer:** C

#### NEW QUESTION 422

- (Exam Topic 2)

Which of the following uses eight groups of characters for addressing?

- A. MAC
- B. IPv4
- C. IPv6
- D. DHCP

**Answer:** C

#### NEW QUESTION 425

- (Exam Topic 2)

A computer on VLAN 10 with the IP address of 192.168.1.45/27 cannot ping a computer on VLAN 20 with the IP address of 192.168.1.65/27. Which configuration change will allow the PING to be successful?

- A. Replace the router with a Layer 2 switch that supports VLANs
- B. Change VLAN 20 computers Default Gateway to 192.168.1.127/27
- C. Change VLAN 10 computers Default Gateway to 192.168.1.32/27
- D. Allow ICMP to pass through the Router

**Answer:** D

#### NEW QUESTION 426

- (Exam Topic 2)

Which of the following is a purpose of a VLAN?

- A. Decreases bandwidth on a network
- B. Segments broadcast traffic
- C. Increases port speed
- D. Allows another connection to the router

**Answer:** B

#### NEW QUESTION 429

- (Exam Topic 2)

Which of the following defines an IP address that is NOT routed on the Internet?

- A. Multicast
- B. Public
- C. Private
- D. Classful

**Answer:** C

#### NEW QUESTION 431

- (Exam Topic 2)

Which of the following is a proprietary routing protocol?

- A. RIP
- B. EIGRP
- C. OSPF
- D. BGP

**Answer:** B

**NEW QUESTION 434**

- (Exam Topic 2)

Which of the following operates at OSI layer 2 to forward traffic based on the MAC address?

- A. Switch
- B. Proxy Server
- C. Router
- D. VPN Concentrator

**Answer:** A

**NEW QUESTION 436**

- (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 437**

- (Exam Topic 2)

Which of the following protocols would Kurt, a technician, use to synchronize local date and time of a client workstation to that of a server?

- A. RTP
- B. NTP
- C. TFTP
- D. ARP

**Answer:** B

**NEW QUESTION 440**

- (Exam Topic 2)

Matt, an administrator, notices a flood fragmented packet and retransmits from an email server. After disabling the TCP offload setting on the NIC, Matt sees normal traffic with packets flowing in sequence again. Which of the following utilities was he MOST likely using to view this issue?

- A. Spam filter
- B. Protocol analyzer
- C. Web application firewall
- D. Load balancer

**Answer:** B

**NEW QUESTION 444**

- (Exam Topic 2)

A technician is troubleshooting a problem with a network printer. The technician thinks the network printer is out of paper and ink. Which of the following should the technician do NEXT?

- A. Implement the solution
- B. Question users
- C. Test the theory
- D. Escalate the problem

**Answer:** C

**NEW QUESTION 446**

- (Exam Topic 2)

A company would like all HTTP traffic to filter through a proxy server on port 8080. Which of the following port numbers needs to be redirected through the proxy server to accomplish this?

- A. 20
- B. 80
- C. 143
- D. 443

**Answer:** B

**NEW QUESTION 450**

- (Exam Topic 2)

Which of the following is the network topology in which computers connect in a closed circle?

- A. Bus
- B. Mesh
- C. Ring
- D. Star

**Answer:** C

**NEW QUESTION 452**

- (Exam Topic 2)

After plugging a cable into a computer, a user reports there is no network access. Which of the following tools would the technician MOST likely check to verify that the cable was crimped correctly?

- A. Punch down tool
- B. Cable certifier
- C. Loopback plug
- D. Toner probe

**Answer:** B

**NEW QUESTION 454**

- (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 455**

- (Exam Topic 2)

When querying a DNS server for an AAAA record, which of the following is an appropriate response?

- A. 192.168.2.1
- B. 00:f3:82:99:a2:b8
- C. 61.23.168.192.in-addr.arpa
- D. 3ffe:1900:4545:3:200:f8ff:fe21:67cf

**Answer:** D

**NEW QUESTION 460**

- (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 463**

- (Exam Topic 2)

An organization has installed a new firewall. Users need to have access to remote websites and must be able to use SSH to retrieve files from remote locations. Which of the following actions should be taken on the new firewall? (Select TWO).

- A. Allow UDP port 21 outbound
- B. Allow UDP port 22 outbound
- C. Allow UDP port 80 outbound
- D. Allow TCP port 21 outbound
- E. Allow TCP port 22 outbound
- F. Allow TCP port 80 outbound

**Answer:** EF

**NEW QUESTION 467**

- (Exam Topic 2)

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

**NEW QUESTION 470**

- (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 474

- (Exam Topic 2)

An administrator is receiving reports from an executive that the executive's wireless access point loses the signal frequently, even though the WAP is on the executive's desk. The office contains four other 802.11n access points. Which of the following would MOST likely correct interference problems in the executive's office?

- A. Turn off SSID broadcasting for the executive's access point
- B. Replace the 802.11n access point in the office with an 802.11a access point.
- C. Change the channel on the access point to channel 11.
- D. Turn off as many lights in the executive's office as possible to reduce interference.

**Answer:** C

#### NEW QUESTION 476

- (Exam Topic 2)

Which of the following is the BEST way to mitigate security threats on a network?

- A. Social engineering
- B. User training
- C. Incident response
- D. Man-in-the- middle

**Answer:** B

#### NEW QUESTION 477

- (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 482

- (Exam Topic 2)

Which of the following is used to provide hot standby capabilities using paired routers?

- A. CARP
- B. L2TP
- C. PPTP
- D. ISAKMP

**Answer:** A

#### NEW QUESTION 483

- (Exam Topic 2)

Which of the following subnet masks would allow for 192.168.0.3 and 192.168.0.240 to be in the same subnet?

- A. 255.255.255.0
- B. 255 255.255.128
- C. 255.255.255.192
- D. 255.255.255.248

**Answer:** A

#### NEW QUESTION 487

- (Exam Topic 2)

Which of the following MUST be kept synchronized in order for Kerberos to work?

- A. Certificate
- B. Ticket
- C. Time
- D. Token

**Answer:** C

**NEW QUESTION 489**

- (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 492**

- (Exam Topic 2)

Which of the following ports does DHCP use? (Select TWO).

- A. 22
- B. 23
- C. 67
- D. 68
- E. 69

**Answer:** CD

**NEW QUESTION 494**

- (Exam Topic 2)

Which of the following is a routed protocol that functions at layer 3 of the OSI model?

- A. IP
- B. Frame relay
- C. PPP
- D. ADSL

**Answer:** A

**NEW QUESTION 499**

- (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 501**

- (Exam Topic 2)

A firewall that operates at Layer 7 of the OSI model is known as a(n):

- A. Circuit gateway
- B. Packet filter
- C. Application level
- D. Redundant firewall

**Answer:** C

**NEW QUESTION 505**

- (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 506**

- (Exam Topic 2)

A small office home office (SOHO) customer is going to be replacing their switch. The customer also wants to add a WAP in a dropped ceiling; however, there are no power outlets above the drop ceiling, but there is a CAT5e network jack. Which of the following technologies should the new switch have to allow this WAP to be placed where the customer requests, without any other major changes to the environment?

- A. PoE
- B. Layer 3 switching
- C. STP
- D. VLAN

**Answer:** A

#### NEW QUESTION 511

- (Exam Topic 2)

An administrator is replacing an existing WAP because the customer is reporting that the connection speeds are too slow. Which of the following should be installed?

- A. 802.11a
- B. 802.11b
- C. 802.11g
- D. 802.11n

**Answer:** D

#### NEW QUESTION 513

- (Exam Topic 2)

A technician has replaced the Internet gateway router, and now no users can reach the Internet. The technician can ping the router Ethernet port but not the ISP's router IP address. Which of the following is the MOST likely problem?

- A. Faulty crossover cable
- B. DNS server is down
- C. Switching loop
- D. Outside interface shutdown

**Answer:** D

#### NEW QUESTION 514

- (Exam Topic 2)

Which of the following could be used to stop unknown threats?

- A. DMZ
- B. Signature based IPS
- C. Behavior based IPS
- D. Honeypots

**Answer:** C

#### NEW QUESTION 518

- (Exam Topic 2)

Which of the following protocols uses port 3389?

- A. IMAP
- B. DHCP
- C. SSH
- D. RDP

**Answer:** D

#### NEW QUESTION 520

- (Exam Topic 2)

A network technician needs to address bandwidth issues on the wireless network. There are currently four 802.11n access points. The technician would like to increase the bandwidth. Which of the following would be the BEST solution?

- A. Disable SSID
- B. Channel bonding
- C. MIMO
- D. Increase the signal

**Answer:** B

#### NEW QUESTION 523

- (Exam Topic 3)

Jeff, a business owner, has discovered that several of the nearby businesses have wireless networks. Jeff wants to implement a unique wireless network inside the business. Which of the following should be configured on the wireless access point to reduce interference from the other wireless networks?

- A. PPPoE authentication
- B. MAC filtering
- C. WPA encryption
- D. Wireless channel

**Answer:** D

**NEW QUESTION 524**

- (Exam Topic 3)

Which of the following protocols is used to securely connect to a multi-layer switch?

- A. HTTP
- B. SMTP
- C. SSH
- D. Telnet

**Answer:** C

**NEW QUESTION 527**

- (Exam Topic 3)

When configuring a wireless access point, Zach, a network administrator, needs to determine the MAC address of a local printer. Which of the following commands would be MOST helpful in determining the MAC address?

- A. ping
- B. arp
- C. route
- D. dig

**Answer:** B

**NEW QUESTION 530**

- (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 532**

- (Exam Topic 3)

Which of the following problems is MOST likely to arise when configuring an IPv6 over IPv4 tunnel?

- A. Routing loop
- B. MTU black hole
- C. Framing errors
- D. SYN flood

**Answer:** B

**NEW QUESTION 534**

- (Exam Topic 3)

Zach, a technician, discovers a switch is not communicating with the other switches in a stack. Which of the following is the MOST likely cause?

- A. Both T568A and T568B standards are being used.
- B. STP is disabled.
- C. The cable is not a crossover.
- D. The port is not trunked.

**Answer:** C

**NEW QUESTION 538**

- (Exam Topic 3)

Which of the following methods for network performance optimization is used to distribute traffic among similar devices?

- A. Fault tolerance
- B. QoS
- C. Proxy server
- D. Load balancing

**Answer:** D

**NEW QUESTION 542**

- (Exam Topic 3)

An administrator hosts all of the company's virtual servers internally. In the event of total server failure, the server images can be restored on a cloud provider and accessed through the VPN.

Which of the following cloud services is the administrator using?

- A. Community PaaS
- B. Public IaaS
- C. Hybrid SaaS
- D. Private IaaS

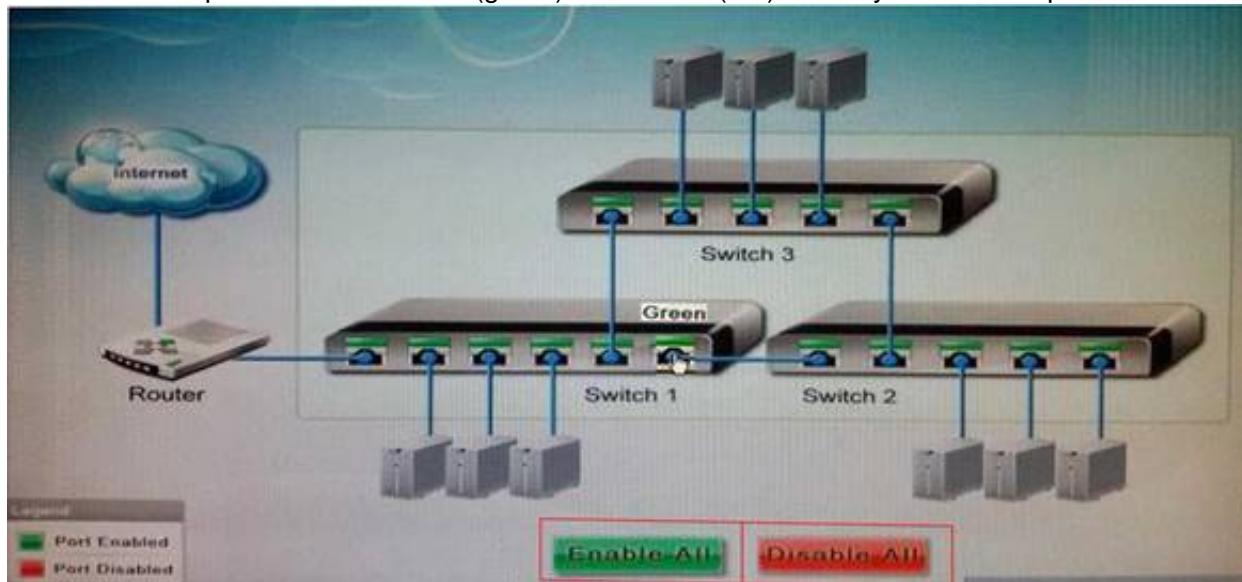
**Answer:** B

**NEW QUESTION 547**

- (Exam Topic 3)

Workstations are unable to access the Internet after a recent power outage. Configure the appropriate devices to ensure ALL workstations have Internet connectivity.

Instructions: All ports can be enabled (green) or disabled (red). When you have completed the simulation please select the Done button.



- A. Mastered
- B. Not Mastered

**Answer:** A

**Explanation:**

All ports should be enabled.

**NEW QUESTION 552**

- (Exam Topic 3)

A customer has not been using security on a wireless network and has recently received many attacks through this vector. Which of the following would be the MOST secure way to harden this wireless network?

- A. Disable the SSID
- B. WPA encryption
- C. VLAN implementation
- D. WEP encryption

**Answer:** B

**NEW QUESTION 553**

- (Exam Topic 3)

Which of the following should be implemented in a networked environment carrying teleconferencing packets?

- A. L2TP
- B. SSH
- C. QoS
- D. SNMP

**Answer:** C

**NEW QUESTION 556**

- (Exam Topic 3)

A VoIP system will require 23 concurrent voice channels and signaling channel. Which of the following types of service would provides the BEST connectivity to the PSTN?

- A. PRI
- B. BRI
- C. E1/E3
- D. DSL

**Answer:** A

**NEW QUESTION 558**

- (Exam Topic 3)

Jeff, a network technician, is installing a wireless router. Which of the following should Jeff consider to get the BEST signal strength?

- A. WAP placement
- B. PoE devices
- C. MAC filtering
- D. Encryption type

**Answer:** A

**NEW QUESTION 559**

- (Exam Topic 3)

A network technician is installing a simple SOHO router with wireless functionality. Which of the following wireless encryption standards would be BEST suited for the HIGHEST level of security?

- A. WPA2
- B. WPA
- C. WEP64
- D. WEP128

**Answer:** A

**NEW QUESTION 561**

- (Exam Topic 3)

Which of the following DNS records allows for reverse lookup of a domain?

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

**Answer:** A

**NEW QUESTION 564**

- (Exam Topic 3)

Which of the following devices are MOST often responsible for 1q tagging? (Select TWO).

- A. Switch
- B. Router
- C. IDS
- D. Hub
- E. IPS
- F. Network tap

**Answer:** AB

**NEW QUESTION 568**

- (Exam Topic 3)

An organization wants to perform maintenance on any of its web servers without affecting the service availability during a scheduled change window. Which of the following network devices would be required to provide this functionality?

- A. Router
- B. Forward proxy
- C. Load balancer
- D. Firewall

**Answer:** C

**NEW QUESTION 569**

- (Exam Topic 3)

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

**NEW QUESTION 571**

- (Exam Topic 3)

Zach, a technician, needs to terminate a CAT5e Ethernet cable to a 110 block. Which of the following tools should he use?

- A. Toner probe
- B. Punch down
- C. Wire tester
- D. Crimper

**Answer:** B

**NEW QUESTION 575**

- (Exam Topic 3)



Lisa, a network technician, needs to introduce a few more cables to the existing patch panel. Which of the following tools would she use?

- A. OTDR
- B. Multimeter
- C. Punch down tool
- D. Temperature monitor

**Answer:** C

#### NEW QUESTION 580

- (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 585

- (Exam Topic 3)

A user is unable to connect to a server in another building. A technician is troubleshooting the issue and determines the following:

- 1) Client PC 1 has an IP address of 192.168.10.25/25
- 2) PC 1 can successfully ping its gateway of 192.168.10.1/25 which is an interface of router A
- 3) Server A is named 'BLDGBFILESVR01' and has an IP address of 192.168.10.145/25
- 4) PC 2 with an IP address of 192.168.10.200/25 can successfully ping server A

However, when PC 1 pings server A, it receives a destination host unreachable response. Which of the following is the MOST likely cause?

- A. Link from router A to PC 1 are on different subnets
- B. Link from router A to server A is down
- C. Link from PC 1 to router A has duplex issues
- D. Link from server A to PC 2 is down

**Answer:** A

#### NEW QUESTION 589

- (Exam Topic 3)

An administrator has received a recommendation against deploying WEP as a wireless encryption protection scheme. Which of the following is MOST likely the reason?

- A. WEP's IV is too small.
- B. WEP uses RC4 which is easily accessible and not secure.
- C. WEP uses plain text.
- D. WEP is not well supported.

**Answer:** A

#### NEW QUESTION 591

- (Exam Topic 3)

An administrator is setting up a secure wireless network. The administrator decides to support 802.11n and 802.11g with a WPA2 pre-shared key. Users are given the SSID with the pre-shared key, but the administrator has disabled the SSID broadcast and MAC filtering. Some users have reported connection issues. Which of the following would MOST likely resolve the users' connection issues?

- A. Limit the devices to 802.11n only.
- B. Enable the SSID broadcast.
- C. Enable MAC filtering.
- D. Use a WEP 128-bit key.

**Answer:** B

#### NEW QUESTION 593

- (Exam Topic 3)

Zach, a network administrator, needs to purchase a new switch to support VoIP phones and wireless access points in a new building. Which of the following features are the MOST important for the new switch to support?

- A. PoE and QoS
- B. LACP and OSPF
- C. 802.1x and 802.11n
- D. NAT and VTP

**Answer:** A

#### NEW QUESTION 597

- (Exam Topic 3)

Which of the following security threats relies primarily on user deception and misinformation?



- A. Rogue access points
- B. DoS attacks
- C. Man-in-the-middle attacks
- D. Phishing

**Answer:** D

#### NEW QUESTION 600

- (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 605

- (Exam Topic 3)

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

#### NEW QUESTION 606

- (Exam Topic 3)

Which of the following protocols are used for accessing a command line terminal session for management purposes? (Select TWO).

- A. Telnet
- B. FTP
- C. SNMP
- D. SSH
- E. RDP

**Answer:** AD

#### NEW QUESTION 610

- (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 613

- (Exam Topic 3)

When configuring a WAP for a SOHO, which parameter will BEST limit access to the office area?

- A. Signal strength
- B. SSID enable
- C. Encryption
- D. Password hardening

**Answer:** A

#### NEW QUESTION 614

- (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 615**

- (Exam Topic 3)

An analog POTS voice line is no longer working and Kim, the technician, is tasked to verify if a dial tone is present at the IDF. Which of the following tools would be used?

- A. Protocol analyzer
- B. Butt set
- C. OTDR
- D. Toner probe

**Answer:** B

**NEW QUESTION 618**

- (Exam Topic 3)

Zach, a technician, wants to test a laptop's NIC for functionality but has no other networking equipment to attach it to. Which of the following would allow him to test basic functionality of the NIC?

- A. Loopback plug
- B. Protocol analyzer
- C. Smart jack
- D. Coupler

**Answer:** A

**NEW QUESTION 621**

- (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 626**

- (Exam Topic 3)

A technician looks at an ARP table in an attempt to resolve a connectivity issue. After table of the switch is a cleared, a different MAC in the output, Which of the following does this indicate?

- A. ARP flooding
- B. VLAN mismatch
- C. Duplicate IP address
- D. Faulty NIC

**Answer:** A

**NEW QUESTION 627**

- (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:**

A Cable 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 631**

- (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 connector

**Answer: B**

**NEW QUESTION 633**

- (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 637**

- (Exam Topic 3)

Which of the following technologies allows more than two transceivers with an access point?

- A. MIMO
- B. FIFO
- C. 802.1x
- D. WPA

**Answer:** A

**NEW QUESTION 642**

- (Exam Topic 3)

A network technician needs to install an additional access point to the company's wireless network. The network has two 802.11b access points. Which of the following channels should be used to allow the access point's coverage areas to overlap?

- A. 1, 6, 11
- B. 2, 5, 10
- C. 3, 13, 23
- D. 4, 8, 16

**Answer:** A

**NEW QUESTION 646**

- (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 648**

- (Exam Topic 3)

Which of the following could be used to estimate RTT across a router?

- A. Dig
- B. Traceroute
- C. Arp
- D. Uptime

**Answer:** B

**NEW QUESTION 652**

- (Exam Topic 3)

Lisa, a consultant, is inspecting an office that reports frequent wireless issues. Upon scanning the network broadcasting in the vicinity of the office, seven SSIDs are found. The company's Wi-Fi network and three others all share channel six. Which of the following is MOST likely causing the issue?

- A. Frequency interference
- B. Low signal strength
- C. Standard mismatch
- D. Incorrect channel

**Answer:** A

**NEW QUESTION 654**

- (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 656**

- (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 659**

- (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 660**

- (Exam Topic 3)

A user reports a network failure on a computer. The technician determines that the computer and NIC are operating properly. Which of the following tools can the technician use to trace the network cabling back to the punch down block?

- A. Protocol analyzer
- B. Multimeter
- C. Punch down tool
- D. Toner probe

**Answer:** D

**NEW QUESTION 663**

- (Exam Topic 3)

Which of the following technologies could be implemented to improve call clarity when using VoIP technology?

- A. Static IP addressing
- B. Caching engines
- C. QoS
- D. Port forwarding

**Answer:** C

**NEW QUESTION 664**

- (Exam Topic 3)

Jeff, a customer, has a wireless network and has reported that the network traffic from the wireless access points seems high compared to the limited number of wireless devices used. Jeff believes that other non-employees are using the wireless network to access the Internet. Which of the following could be used to limit the access to the wireless network? (Select TWO).

- A. WPA encryption
- B. Changing wireless channels
- C. MAC filtering
- D. Changing wireless speed standards
- E. SSID disable

**Answer:** AC

**NEW QUESTION 669**

- (Exam Topic 3)

A network technician is configuring user's access to a VPN concentrator and has advised to use a protocol that supports encryption over UDP. Which of the following protocols has the technician MOST likely configured for client use?

- A. TFTP
- B. DTLS
- C. DNS
- D. SNMP

**Answer:** B

**NEW QUESTION 672**

- (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 677**

- (Exam Topic 3)

A network administrator has created a virtual machine in the cloud. The technician would like to connect to the server remotely using RDP. Which of the following default ports needs to be opened?

- A. 445
- B. 3389
- C. 5004
- D. 5060

**Answer: B**

**NEW QUESTION 682**

- (Exam Topic 3)

Which of the following will prevent switching loops by selectively shutting down switch ports?

- A. RIP
- B. IGP
- C. STP
- D. VLAN

**Answer: C**

**NEW QUESTION 685**

- (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 689**

- (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 691**

- (Exam Topic 3)

The software in a virtualized environment that controls resource allocation and allows multiple operating system guests to run on the same physical platform is known as the:

- A. hypervisor.
- B. LPAR.
- C. broker.
- D. VDI.

**Answer: A**

**NEW QUESTION 695**

- (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 697

- (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 699

- (Exam Topic 3)

An administrator is troubleshooting analog telephony issues on the punch down block. Which of the following tools would be MOST useful in this scenario?

- A. T1 loopback
- B. Butt set
- C. Multimeter
- D. Protocol analyzer

**Answer:** B

#### NEW QUESTION 700

- (Exam Topic 3)

Jeff, a technician, is charged with setting up network monitoring for critical devices in the network. It is important the information be sent securely to the monitoring station. Which of the following protocols will support secure transmission of the data?

- A. SNMP v2
- B. VPN
- C. SYSLOG
- D. SMTP

**Answer:** A

#### NEW QUESTION 702

- (Exam Topic 3)

Kim, a network administrator, is seeing workstations in building C authenticate to the building A wireless access point. Which of the following would resolve this issue?

- A. Change the security method
- B. Reduce the transmission power
- C. Change the SSID
- D. Change the frequency

**Answer:** B

#### NEW QUESTION 703

- (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 707

- (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 710**

- (Exam Topic 3)

Jeff, a user, is having a problem with a POTS line. Which of the following tools would Jeff use to make sure the phone lines have a dial tone?

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

**Answer: B**

**NEW QUESTION 713**

- (Exam Topic 3)

Which of the following separates broadcast domains?

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

**Answer: B**

**NEW QUESTION 717**

- (Exam Topic 3)

Which of the following utilities would a technician use to determine the location of lost packets on a routed network?

- A. ping
- B. nslookup
- C. route
- D. tracert

**Answer: D**

**NEW QUESTION 719**

- (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 723**

- (Exam Topic 3)

Several users from the same building are reporting connectivity issues. The SFP at that building's IDF switch is showing a link light, but there is no link light to the corresponding switch's SFP at the MDF. Which of the following is the MOST likely cause?

- A. A crossover cable is being used.
- B. DB loss is too high on all strands.
- C. Only TX or RX strand is working.
- D. TX and RX are reversed.

**Answer: C**

**NEW QUESTION 728**

- (Exam Topic 3)

ADSL modem connects to the provider's network using which of the following authentication techniques?

- A. PoE
- B. MS-CHAP
- C. PPPoE
- D. EAP

**Answer: C**

**NEW QUESTION 731**

- (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 733**

- (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 738**

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