

# Exam Questions N10-007

CompTIA Network+ N10-007

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#### NEW QUESTION 1

- (Exam Topic 1)

A network technician installs a web server on the firewall. Which of the following methods should the technician implement to allow access to outside users without giving access to the inside network?

- A. VLAN
- B. DMZ
- C. SNMP
- D. NTP

**Answer:** B

#### NEW QUESTION 2

- (Exam Topic 1)

A network technician configures a firewall's ACL to allow outgoing traffic for several popular services such as email and web browsing. However, after the firewall's deployment, users are still unable to retrieve their emails. Which of the following would BEST resolve this issue?

- A. Allow the firewall to accept inbound traffic to ports 25, 67, 179, and 3389
- B. Allow the firewall to accept inbound traffic to ports 80, 110, 143, and 443
- C. Set the firewall to operate in transparent mode
- D. Allow the firewall to accept inbound traffic to ports 21, 53, 69, and 123

**Answer:** B

#### NEW QUESTION 3

- (Exam Topic 1)

A home user has purchased a new smart TV to stream online video services. The smart TV is unable to connect to the wireless network after several attempts. After from vacation, the home user tries again and can connect the TV to wireless network. However, the user notice a laptop is no longer able to connect to the network. Which of the following is the MOST likely cause?

- A. The DHCP scope has been exhausted.
- B. The security passcode has been changed
- C. The SSID is hidden.
- D. The AP configuration was reset.

**Answer:** A

#### NEW QUESTION 4

- (Exam Topic 1)

A Chief Information Officer (CIO) is concentrated about an attacker gaining administrative access to the company's network devices. Which of the following is the MOST secure way to prevent this?

- A. ACL allowing only HTTP
- B. ACL allowing only Telnet
- C. Out-of-band modem
- D. Out-of-band console router

**Answer:** D

#### NEW QUESTION 5

- (Exam Topic 1)

A network technician is planning to update the firmware on a router on the network. The technician has downloaded the file from the vendor's website. Before installing the firmware update, which of the following steps should the technician perform to ensure file integrity?

- A. Perform antivirus and anti-malware scans of the file.
- B. Perform a hash on the file for comparison with the vendor's hash.
- C. Download the file a second time and compare the version numbers.
- D. Compare the hash of the file to the previous firmware update.

**Answer:** B

#### NEW QUESTION 6

- (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 7

- (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 about 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 8

- (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 9

- (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 10

- (Exam Topic 1)

A network administrator is redesigning network security after an attack. During the attack, an attacker used open cubicle location to attach devices to the network. The administrator wants to be able to monitor future attack in a safe environment and determine the method of attack. Which of the following should the administrator do to Best meet this requirement?

- A. Create a VLAN for the unused ports and create a honeypot on the VLAN.
- B. Install a BPDU guard on switchports and enable STP
- C. Create a DMZ for public server and secure a segment for the internal network
- D. Install antivirus software and set an ACL on the servers.

**Answer:** A

#### NEW QUESTION 10

- (Exam Topic 1)

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

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

**Answer:** A

#### NEW QUESTION 15

- (Exam Topic 1)

A technician must determine if a web page user's visits are connecting to a suspicious website's IP address in the background. Which of the following tools would provide the information on TCP connections?

- A. netstat
- B. tracert
- C. arp
- D. ipconfig
- E. route

**Answer:** A

#### NEW QUESTION 16

- (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 17

- (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 20

- (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 25

- (Exam Topic 1)

Which of the following are characteristics of jumbo frames? (Choose 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:** AB

#### NEW QUESTION 27

- (Exam Topic 1)

A network engineer planning for wireless connectivity in large office building. Currently, the office building contains both legacy and newer devices. Which of the following wireless network routers should engineer select for the fastest throughput for all wireless devices in the office building?

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

**Answer:** A

#### Explanation:

<https://www.forbes.com/forbes/welcome/?toURL=https://www.forbes.com/sites/gordonkelly/2014/12/30/802-11>

#### NEW QUESTION 29

- (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 32

- (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 34

- (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 38

- (Exam Topic 1)

Which of the following datacenter security methodologies is MOST likely to remain usable during a network outage?

- A. biometric scanners
- B. door locks
- C. video surveillance
- D. motion detectors

**Answer:** B

#### NEW QUESTION 41

- (Exam Topic 1)

A network technician is creating a new subnet for 488 host machines. The technician is told to use a class B address scheme when making the subnet and is instructed to leave as much room as possible for additional subnets of the same size. Which of the following subnets would fulfill these requirements?

- A. 10.5.4.0/22
- B. 10.233.2.0/23
- C. 172.16.0.0/22
- D. 172.18.0.0/23
- E. 192.168.25.0/24

**Answer:** D

#### NEW QUESTION 42

- (Exam Topic 1)

A technician is performing a maintenance task on a weekly basis and wants to ensure the task is properly documented and able to be performed by other technician. Which of the following types of documentation should the technician complete?

- A. Standard operating procedure
- B. Work order
- C. Performance baseline
- D. Logical diagram
- E. Change management

**Answer:** A

#### NEW QUESTION 43

- (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 48

- (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 52

- (Exam Topic 1)

Which of the following BEST describes the BGP routing protocol?

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

**Answer:** B

#### NEW QUESTION 53

- (Exam Topic 1)

An assistant systems analyst reports the following findings of an investigation of slow Internet connections in a remote office to the senior systems analyst:

Device	CPU Utilization	Memory Utilization	Link Status
Router	5%	43%	Good
Firewall	92%	58%	Good
Switch 1	23%	32%	Good
Switch 2	8%	81%	Good

Which of the following devices is causing the issue?

- A. Router
- B. Firewall
- C. Switch 1
- D. Switch 2

**Answer:** B

#### NEW QUESTION 56

- (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 59

- (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 60

- (Exam Topic 1)

A company finds that many desktops are being reported as missing or lost. Which of the following would BEST assist in recovering these devices?

- A. Asset tracking tags
- B. Motion detectors
- C. Security guards
- D. Computer locks

**Answer:** D

#### NEW QUESTION 65



- (Exam Topic 1)

The security manager reports that individual systems involved in policy or security violations or incidents cannot be located quickly. The security manager notices the hostnames all appear to be randomly generated characters. Which of the following would BEST assist the security manager identifying systems involved in security incidents?

- A. Enforce port security to require system authentication
- B. Implement a standardized UNC
- C. Label existing systems with current hostnames
- D. Forward the DHCP logs to the security manager every day

**Answer:** B

#### NEW QUESTION 67

- (Exam Topic 1)

Which of the following ports should a network technician open on a firewall to back up the configuration and operating system files of a router to a remote server using the FASTES method possible?

- A. UDP port 22
- B. TCP port 22
- C. TCP port 25
- D. UDP port 53
- E. UDP port 69

**Answer:** E

#### NEW QUESTION 71

- (Exam Topic 1)

A junior network technician is setting up a new email server on the company network. Which of the following default ports should the technician ensure is open on the firewall so the new email server can relay email?

- A. 23
- B. 25
- C. 110
- D. 143

**Answer:** B

#### NEW QUESTION 72

- (Exam Topic 1)

Which of the following should a technician investigate when using a network baseline to troubleshoot?

- A. Tracing a network wire connectivity issue from the datacenter to a host.
- B. Determining if the server performance is degraded.
- C. Changes that have been made to the network configuration.
- D. Location of networking equipment in a rack.

**Answer:** B

#### NEW QUESTION 77

- (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 82

- (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 87

- (Exam Topic 1)

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

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

**Answer:** A

#### NEW QUESTION 89

- (Exam Topic 1)

A technician is downloading an ISO from a vendor's website. To ensure the integrity of the download, which of the following should be verified?

- A. File size
- B. Vendor URL
- C. File hashing
- D. Encryption

**Answer:** C

#### NEW QUESTION 90

- (Exam Topic 1)

A small town is attempting to attract tourists who visit larger nearby cities. A network engineer is asked to implement a network encompassing the five-block town center and nearby businesses. The inclusion of smartphones and portable devices is crucial to the plan. Which of the following is the network engineer being asked to implement?

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

**Answer:** C

#### NEW QUESTION 95

- (Exam Topic 1)

A network technician is able to connect the switches between two 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 96

- (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 98

- (Exam Topic 1)

A network engineer is designing a new IDF in an old building. The engineer determines the equipment will fit in a two-post rack, and there is power available for this equipment. Which of the following would be the FIRST issue to remediate?

- A. Air flow and cooling
- B. UPS capability
- C. Circuit labeling
- D. Power redundancy

**Answer:** A

#### NEW QUESTION 102

- (Exam Topic 1)

A technician is replacing a switch at a branch office and discovers the existing backbone cable does not fit in the new switch. The fiber patch panel has circular connections. The new switch has a transceiver that accepts a smaller square adapter of two strands. Which of the following patch cables would the technician need to complete the installation?



- A. LC to SC
- B. SC to ST
- C. LC to ST
- D. ST to ST
- E. SC to SC

**Answer:** C

#### NEW QUESTION 107

- (Exam Topic 1)

As part of a transition from a static to a dynamic routing protocol on an organization's internal network, the routing protocol must support IPv4 and VLSM. Based on those requirements, which of the following should the network administrator use? (Choose two.)

- A. OSPF
- B. IS-IS
- C. RIPv1
- D. BGP
- E. VRRP

**Answer:** AB

#### NEW QUESTION 109

- (Exam Topic 1)

Users are reporting issues with slow connection speeds and a loss of connectivity on the newly installed wireless network. The issues are intermittent but seem to occur most often around midday. Which of the following is the MOST likely cause?

- A. There is interference from small appliances
- B. The signal coverage area is too small
- C. Not enough DHCP addresses have been allotted
- D. The DNS cache on the users' computers has become corrupt

**Answer:** C

#### NEW QUESTION 113

- (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 116

- (Exam Topic 1)

A network technician is installing a new SOHO branch office that requires the use of a DOCSIS-compatible. The modem needs to be connected to the ISP's network at the demark. Which of the following cable type should be used?

- A. UTP
- B. Multimode
- C. Coaxial
- D. Serial

**Answer:** C

#### NEW QUESTION 119

- (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 122

- (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 126

- (Exam Topic 1)

A technician is connecting a PC to a switchport. At the wiring closet, the technician is identify which cable goes from patch panel a connected to the switch to patch panel B connected to the PC. Which of the following tools should the technician use to resolve the issue?

- A. Cable tester
- B. Multimeter
- C. Tone generator
- D. OTDR

**Answer:** C

#### NEW QUESTION 130

- (Exam Topic 1)

When choosing a type of storage that integrates with the existing network infrastructure, the storage must be easily configurable to share files and can communicate with all existing clients over TCP/IP. Which of the following is the BEST technology for the network administrator to implement?

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

**Answer:** C

#### NEW QUESTION 135

- (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 137

- (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 141

- (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 142

- (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 144

- (Exam Topic 1)

A technician has been alerted of incoming HTTP traffic on the LAN segment that should not contain any web server's. The technician has the IP address of the destination host and wants to determine if the socket for HTTP is open. Which of the following should the technician perform?

- A. Baseline assessment
- B. packet analysis
- C. portscan
- D. Patch-level assessment.

**Answer:** C

#### NEW QUESTION 146

- (Exam Topic 1)

A network technician has created a network that consists of a router, a firewall, a switch, and several PCs. Which of the following physical network topologies was created?

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

**Answer:** D

#### NEW QUESTION 148

- (Exam Topic 1)

A technician is connecting a router directly to a PC using the G1/0/1 interface. Without the use of auto-sensing ports, which of the following cables should be used?

- A. Straight-through
- B. Console
- C. Rollover
- D. Crossover

**Answer:** D

#### NEW QUESTION 153

- (Exam Topic 1)

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

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

**Answer:** B

#### Explanation:

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

#### NEW QUESTION 156

- (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 158

- (Exam Topic 1)

A user reports that a laptop cannot connect to the Internet despite the fact the wireless Internet was functioning on it yesterday. The user did not modify the laptop in any way, and the wireless Internet is functional on other users' laptops. Which of the following issues should be reviewed to help the user to connect to the wireless network?

- A. Wireless switch toggled off
- B. WAP settings
- C. WLAN IP address out of scope
- D. Wireless controller misconfiguration

**Answer:** A

**NEW QUESTION 161**

- (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 166**

- (Exam Topic 1)

A network administrator configures an email server to use secure protocols. When the upgrade is completed, which of the following ports on the firewall should be configured to allow for connectivity? (Choose three.)

- A. TCP 25
- B. TCP 110
- C. TCP 143
- D. TCP 389
- E. TCP 587
- F. TCP 993
- G. TCP 995

**Answer: EFG****NEW QUESTION 171**

- (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 175**

- (Exam Topic 1)

A technician is planning a remote-access strategy to manage routers and switches on a dedicated management network. The management network is segregated from the production network and uses site-to-site VPN connections. Some of the equipment does not support encryption. Which of the following should the technician choose that all the equipment would support?

- A. Telnet
- B. SSL
- C. SSH
- D. IPSec

**Answer: A****NEW QUESTION 178**

- (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 183

- (Exam Topic 1)

An administrator is moving to a new office. There will be several network runs through the ceiling area of the office. Which of the following is the BEST to utilize in these areas?

- A. Single-mode fiber-optic cabling
- B. Cat 5e-rated cabling
- C. Cat 6-rated cabling
- D. Plenum-rated cabling

**Answer:** D

#### NEW QUESTION 185

- (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 187

- (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 192

- (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 196

- (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 197

- (Exam Topic 2)

Which of the following ports is the default telnet port?

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

**Answer:** D

#### NEW QUESTION 198

- (Exam Topic 2)

Which of the following is an IPv6 address?

- A. 00:14:38:05:7B:E5
- B. 10.10.1.1
- C. 192.168.1.1
- D. 2001:cdba::3257:9652

**Answer:** D

#### NEW QUESTION 199

- (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 201

- (Exam Topic 2)

Jeff, an administrator, has just finished installing a new switch and connected two servers with IPs of 192.168.105.20 and .30. The servers are able to communicate with each other, but are unable to reach the Internet. Jeff sees the following information in the switch configuration:

interface VLAN 105

IP address 192.168.105.5 255.255.255.0

Jeff is able to ping the router at 192.168.105.1 from the switch. Which of the following is the MOST likely cause of the problem?

- A. The subnet mask is incorrect.
- B. A routing loop has occurred.
- C. Jeff used a crossover cable to connect the switch to the gateway.
- D. The server is missing default-gateway information.

**Answer:** D

#### NEW QUESTION 206

- (Exam Topic 2)

A network technician is configuring a wireless network. To avoid interference from other wireless networks in the area, the technician should change which setting?

- A. Channel
- B. SSID
- C. Firewall rule
- D. Encryption

**Answer:** A

#### NEW QUESTION 210

- (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 214

- (Exam Topic 2)

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

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

**Answer:** C

#### NEW QUESTION 219

- (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 222

- (Exam Topic 2)

Which of the following devices should be installed on a network to monitor the presence of and actively defend against attacks?



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

**Answer:** A

#### NEW QUESTION 224

- (Exam Topic 2)

Which of the following ports would have to be allowed through a firewall to allow SNMP traffic to pass on its default port? (Select TWO).

- A. 22
- B. 23
- C. 143
- D. 161
- E. 162
- F. 8080

**Answer:** DE

#### NEW QUESTION 228

- (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 232

- (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 233

- (Exam Topic 2)

Which of the following is used to assign an IP address to a device?

- A. DHCP
- B. NTP
- C. DNS
- D. RADIUS

**Answer:** A

#### NEW QUESTION 236

- (Exam Topic 2)

An organization recently installed a firewall on the network. Employees must have access to their work computer from their home computer. In which of the following ways should the firewall be configured?

- A. Allow TCP port 3389 outbound
- B. Allow UDP port 3389 inbound
- C. Allow UDP port 3389 outbound
- D. Allow TCP port 3389 inbound

**Answer:** D

#### NEW QUESTION 241

- (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 244

- (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 247

- (Exam Topic 2)

An organization recently installed a firewall on the network. Employees must be able to send and receive email from a POP3 server. In which of the following ways should the firewall be configured? (Select TWO).

- A. Allow TCP port 23
- B. Allow TCP port 25
- C. Allow TCP port 110
- D. Allow UDP port 25
- E. Allow UDP port 110

**Answer:** BC

#### NEW QUESTION 249

- (Exam Topic 2)

Which of the following is indicative of an FTP bounce?

- A. Arbitrary IP address
- B. Reverse DNS lookups
- C. Same Port Number
- D. File Transfer Success

**Answer:** A

#### NEW QUESTION 253

- (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 256

- (Exam Topic 2)

Which of the following standards can operate at both the 2.4GHz and 5GHz frequencies?

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

**Answer:** D

#### NEW QUESTION 260

- (Exam Topic 2)

Which of the following allows a central point to simultaneously address other points without addressing all of them?

- A. Multicast
- B. Subnetting
- C. Unicast
- D. Broadcast

**Answer:** A

#### NEW QUESTION 261

- (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 264

- (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 266

- (Exam Topic 2)

Which of the following network topologies allows only communication to take place from one node at a time by passing a token around the network?

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

**Answer:** D

#### NEW QUESTION 267

- (Exam Topic 2)

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

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

**Answer:** D

#### NEW QUESTION 268

- (Exam Topic 2)

Which of the following describes a DNS server?

- A. Translates an IP address to a name
- B. Caches commonly viewed web pages
- C. Assigns IP addresses to network devices
- D. Provides port security for a network

**Answer:** A

#### NEW QUESTION 273

- (Exam Topic 2)

Which of the following commands will display the associated IP address of a network adapter in Windows and Linux environments? (Select TWO).

- A. dig
- B. nslookup
- C. nbstat
- D. ifconfig
- E. ipconfig

**Answer:** DE

#### NEW QUESTION 274

- (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 279

- (Exam Topic 3)

A technician is setting up a firewall on the network that would show a public IP address out to the Internet and assign private IP addresses to users inside the

network. Which of the following processes should be set up?

- A. Port security
- B. MAC filtering
- C. ACL
- D. NAT

**Answer: D**

#### NEW QUESTION 283

- (Exam Topic 3)

Which of the following would Kim, a technician, do to monitor remote traffic through an access point?

- A. Enable an SNMP agent
- B. Enable network mapping
- C. Set monitoring SSID
- D. Select WPA2

**Answer: A**

#### NEW QUESTION 284

- (Exam Topic 3)

Which of the following BEST describes the difference between layer 2 switching and layer 2 routing?

- A. Switching moves packets between hosts on different subnets, and routing moves packets between hosts on the same subnet.
- B. Routing moves packets between hosts on different subnets, and switching moves packets between hosts on the same subnet.
- C. Both routing and switching move packets between hosts on the same subnet, but routing does so at a faster pace.
- D. Both routing and switching move packets between hosts on different subnets, but switching does so at a faster pace.

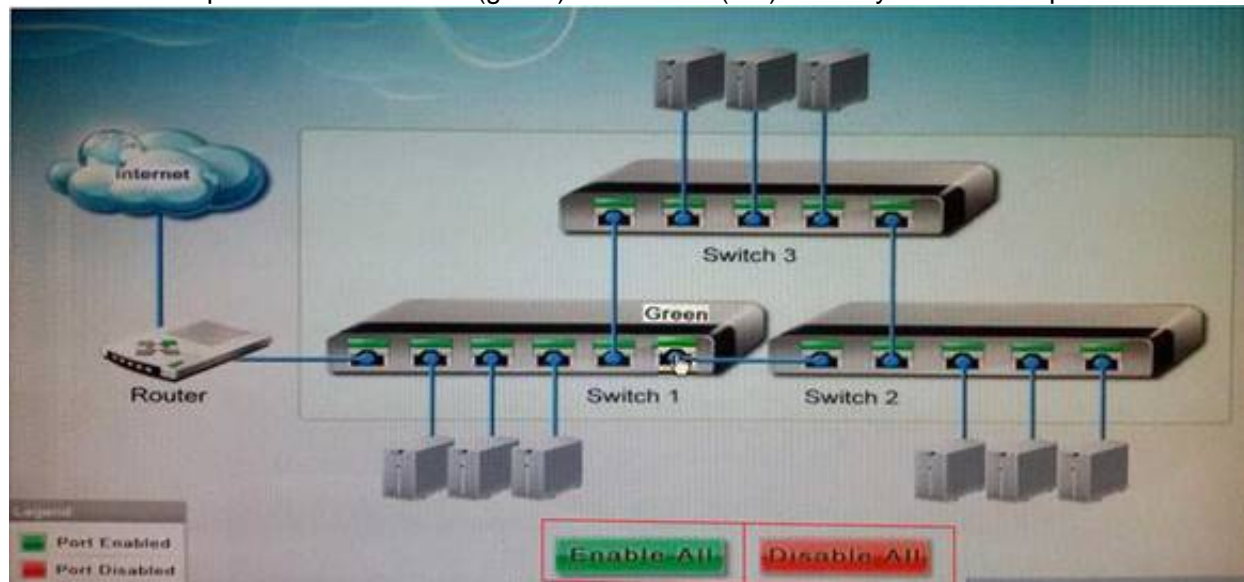
**Answer: B**

#### NEW QUESTION 289

- (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 292

- (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 297

- (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 299

- (Exam Topic 3)

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

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

**Answer:** B

#### NEW QUESTION 300

- (Exam Topic 3)

Which of the following is the correct representation of an IPv6 address?

- A. ::
- B. 0:0:0:0:0:0:0:1
- C. 1:2:3:4:AB:CD:EF
- D. 2001::4860:800f::

**Answer:** A

#### NEW QUESTION 302

- (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 303

- (Exam Topic 3)

Which of the following solutions will detect and disable a rogue access point?

- A. Port scan
- B. Packet sniffer
- C. IPS
- D. IDS

**Answer:** C

#### NEW QUESTION 308

- (Exam Topic 3)

Which of the following communication modes has the LOWEST overhead necessary to support streaming protocols such as RTP?

- A. Connectionless
- B. Stateful
- C. Full Duplex
- D. Quality of Service

**Answer:** A

#### NEW QUESTION 310

- (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 315

- (Exam Topic 3)

When using high bandwidth applications over multiple WAN connections, which of the following should be used?

- A. Static IP addressing
- B. Half-duplex
- C. PoE devices
- D. Load balancing

**Answer:** D

#### NEW QUESTION 318

- (Exam Topic 3)

A network technician wants to baseline traffic flows on a specific network. Which of the following will provide the GREATEST level of detail?

- A. Network flow information
- B. SNMP traps
- C. Debug level syslog
- D. Protocol analyzer

**Answer:** D

#### NEW QUESTION 322

- (Exam Topic 3)

A network technician performs several switch commands to enable various advanced features on the switch in the accounting department. During the configuration changes, several users from this department report connectivity issues. Which of the following logs would the network technician need to analyze to troubleshoot the connectivity issues?

- A. Router logs
- B. History logs
- C. Startup/bootup config logs
- D. Event Viewer logs

**Answer:** B

#### NEW QUESTION 327

- (Exam Topic 3)

An 801.11g wireless access point was configured as follows:

- AP encryption forced to WPA2-AES mode only
- MAC address filtering enabled with the following MAC address in the allow list: 00-ab-29-da-c3-40 Which is true about the above configuration?

- A. Any 802.11b/g compatible client can connect to the wireless network if they support TKIP, the MAC address is 00-ab-29-da-c3-40, and the encryption key is known by the client.
- B. An 802.11a compatible client can connect to the wireless network only if its MAC address is 00- ab-29-da-c3-40 and the encryption key is known by the client.
- C. An 802.11n compatible client can connect to the wireless network only if its MAC address is 00- ab-29-da-c3-40 and the encryption key is known by the client.
- D. Any 802.11g compatible client can connect to the wireless network if the encryption key is known by the client.

**Answer:** C

#### NEW QUESTION 330

- (Exam Topic 3)

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

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

**Answer:** D

#### NEW QUESTION 332

- (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 334

- (Exam Topic 3)

Kim, a technician, is installing a switch that does not feature auto-negotiation. Which of the following characteristics would need to be manually configured? (Select TWO).

- A. MAC addressing
- B. IP addressing



- C. Port speed
- D. IPv6 addressing
- E. Duplex

**Answer:** CE

#### NEW QUESTION 336

- (Exam Topic 3)

Kim, a technician, is configuring an 802.11n access point. Other WAPs on the network use 802.11b. Which of the following will Kim have to setup to make sure these WAPs will be able to communicate?

- A. Enable mixed mode
- B. Disable SSID
- C. Disable encryption
- D. Enable 'n' only mode

**Answer:** A

#### NEW QUESTION 338

- (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 342

- (Exam Topic 3)

There is suspected virus activity on the network. Which of the following would Lisa, a technician, use to study network traffic?

- A. Protocol analyzer
- B. Cable tester
- C. Cable certifier
- D. Environmental monitor

**Answer:** A

#### NEW QUESTION 347

- (Exam Topic 3)

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

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

**Answer:** C

#### NEW QUESTION 350

- (Exam Topic 3)

Lisa, a technician, is tasked to monitor various analog POTS lines for voice activity. Which of the following hardware tools would be used?

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

**Answer:** A

#### NEW QUESTION 352

- (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 354

- (Exam Topic 3)

Keeping an authoritative and timely record of network devices and their settings is a key activity of which of the following?

- A. Project management
- B. Quality of service
- C. Configuration management
- D. Bandwidth shaping

**Answer:** C

#### NEW QUESTION 357

- (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 361

- (Exam Topic 3)

A network administrator suspects an employee of using the company's Internet connection to download illegal content. Which of the following can be used to inspect ongoing network traffic?

- A. Syslog server
- B. Toner probe
- C. OTDR
- D. Packet sniffer

**Answer:** D

#### NEW QUESTION 363

- (Exam Topic 3)

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

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

**Answer:** C

#### NEW QUESTION 365

- (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 370

- (Exam Topic 3)

A technician is surveying college's network equipment room and connectivity. Which of the following types of documentation does the technician need perform a detailed site survey? (Select THREE).

- A. IDF/MDF documentation
- B. Cable run label documentation
- C. network configuration documentation
- D. Performance baseline documentation
- E. Standard operating procedure documentation
- F. Change management documentation
- G. Rack diagram documentation

**Answer:** ACG

#### NEW QUESTION 374

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