



CompTIA

Exam Questions N10-007

CompTIA Network+ N10-007

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NEW QUESTION 1

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 2

- (Exam Topic 1)

Which of the following wireless connection types utilize MIMO on non-overlapping channels? (Choose two.)

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

Answer: BE

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)

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 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 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 7

- (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 8

- (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 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 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 10

- (Exam Topic 1)

An entire enterprise cannot access a specific website. The network technician knows the website was accessible last week. The technician can also ping the website. Which of the following is the technician MOST likely to find upon investigation?

- A. The firewall is misconfigured.
- B. The network is being hit by a zero-day attack.
- C. The SSL certificate is untrusted.
- D. The SSL certificate has expired.

Answer: D

NEW QUESTION 11

- (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 13

- (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 18

- (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 23

- (Exam Topic 1)

A technician discovers that multiple switches require a major update. Which of the following policies should be followed?

- A. Change management policy
- B. Remote access policy
- C. Acceptable use policy
- D. Memorandum of understanding

Answer: A

NEW QUESTION 26

- (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 31

- (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. tracert
- B. ping
- C. tcpdump
- D. pathping
- E. netstat
- F. nslookup
- G. route

Answer: AD

NEW QUESTION 35

- (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 37

- (Exam Topic 1)

Management has requested that services be available within 72 hours of disaster, Budget is a major concern. A contract is signed with a company that has plenty space, and the technician will have the option of putting infrastructure equipment in place. Which of the following BEST describes this business continuity strategy?

- A. Cold site
- B. Differentiate backup
- C. Hot site
- D. Incremental backup
- E. Warm site
- F. Full backup

Answer: A

NEW QUESTION 41

- (Exam Topic 1)

A company recently upgraded all of its printers to networked multifunction devices. Users can print to the new devices, but they would also like the ability to scan and fax files from their computers. Which of the following should the technician update to allow this functionality?

- A. Device software
- B. Printer drivers
- C. Printer firmware
- D. NIC drivers

Answer: C

NEW QUESTION 45

- (Exam Topic 1)

A network technician is implementing a solution on the network to hide the workstation internal IP addresses across a WAN. Which of the following is the technician configuring?

- A. QoS
- B. DMZ
- C. RIP
- D. NAT

Answer: D

NEW QUESTION 46

- (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 51

- (Exam Topic 1)

A company dedicates deploy customer –facing, touch-screen kiosks. The kiosks appear to have several open service ports that potentially became compromised. Which of the following is the MOST effective way to protect the kiosk?

- A. Install an IDS to monitor all traffic to and from the kiosk.
- B. install honeypots on the network to detect and analyze potential kiosks attacks before they occur.
- C. Enable switchport security on the ports to which the kiosks are connected to prevent network level attacks.
- D. Create a new segment with ACLs, limiting kiosks traffic with the internal network

Answer: A

NEW QUESTION 54

- (Exam Topic 1)

Which of the following storage network technologies inherently leverages block-level storage?

- A. NAS
- B. SAN
- C. FCoE
- D. iSCSI
- E. FTP

Answer: A

NEW QUESTION 59

- (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 62

- (Exam Topic 1)

A network administrator is testing connectivity at a new corporate site. The site has a wireless guest as well as a wired employee network. After verifying connectivity, the administrator checks link speeds by using a speed testing website. The speed testing website shows lower download and upload speeds for the wired network than the wireless network. Which of the following is the MOST likely explanation?

- A. There is less local congestion on the wireless network
- B. The testing server for the wired network was farther away
- C. The firewall is configured to throttle traffic to specific websites
- D. The wireless access points were misconfigured

Answer: B

NEW QUESTION 64

- (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 69

- (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 73

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 74

- (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 75

- (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 77

- (Exam Topic 1)

A technician is utilizing SNMPv3 to monitor network statistics. Which of the following actions would occur immediately of a server's utilization spikes above the prescribed value?

- A. A trap message is sent via UDP to the monitoring workstation.
- B. The SET function pushes an alert to the MIB database.
- C. The object identifier is modified and reported during the next monitoring cycle.
- D. A response message is sent from the agent to the manager.

Answer: A

NEW QUESTION 82

- (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 interface, 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 84

- (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 86

- (Exam Topic 1)

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

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

Answer: CD

NEW QUESTION 88

- (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 91

- (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 94

- (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 98

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 102

- (Exam Topic 1)

A network administrator is setting up a web-based application that needs to be continually accessible to the end users. Which of the following concepts would **BEST** ensure this requirement?

- A. High availability
- B. Snapshots
- C. NIC teaming
- D. Cold site

Answer: A

NEW QUESTION 107

- (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 domain that exist?

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

Answer: D

NEW QUESTION 112

- (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 115

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 120

- (Exam Topic 1)

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

- A. DHCP exhaustion
- B. Channel overlapping
- C. interference
- D. Overcapacity

Answer: D

NEW QUESTION 125

- (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 130

- (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 134

- (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 135

- (Exam Topic 1)

Which of the following is a reason why a business may be hesitant to move sensitive data to a SaaS cloud service?

- A. Decreased performance of internal network
- B. Loss of full control over data resources
- C. Increased malware exposure
- D. Incompatibility with the current network

Answer: B

NEW QUESTION 137

- (Exam Topic 1)

An office user cannot access local network drives but has full access to the Internet. A technician troubleshoots the issue and observes the following output of the ipconfig command:

Windows IP Configuration

```
Ethernet LAN Adapter: 980GTS
Connection-specific DNS Suffix: ...comptia.net
IPv4 Address: .....10.0.5.99
Subnet Mask: .....255.255.255.0
Default Gateway: ...10.0.5.1

Wireless LAN Adapter: FastWifi 99
Connection-specific DNS Suffix: ...guestwireless.local
IPv4 Address: .....172.16.0.5
Subnet Mask: .....255.255.255.0
Default Gateway: ...172.16.0.254
```

Which of the following would MOST likely allow the network drives to be accessed?

- A. Update the WLAN adapter driver
- B. Disable the WLAN adapter
- C. Check the wireless DHCP configuration
- D. Disable the LAN adapter

Answer: B

NEW QUESTION 139

- (Exam Topic 1)

A recently constructed building makes use of glass and natural light. Users in the building are reporting poor cellular connectivity and speeds. Which of the following is MOST likely the cause?

- A. Absorption
- B. Channel overlap
- C. Reflection
- D. Frequency mismatch

Answer: C

NEW QUESTION 144

- (Exam Topic 1)

A small business developed an in-house application that is very sensitive to network latency when 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 148

- (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 149

- (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 151

- (Exam Topic 1)

A network technician is able to connect the switches between 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 152

- (Exam Topic 1)

An analyst is developing a proof of concept of a wireless-based attack as part of a penetration test against an organization's network. As part of the attack, the analyst launches a fake access point matching the SSID of the organization's guest access network. When a user connects to the fake access point, the analyst allows the traffic to flow through the access point to the legitimate site while the data traversing the network is logged for latest analysis and exploitation. Which of the following attacks has the analyst successfully performed in this scenario?

- A. Bluesnarfing
- B. Session hijacking
- C. MAC spoofing
- D. VLAN hopping
- E. Man-in-the-middle

Answer: E

NEW QUESTION 153

- (Exam Topic 1)

A technician is investigating a server performance issue. The technician has gathered the server utilization statistics. Which of the following should the technician use to determine which statistics are not in the normal range?

- A. Baseline review
- B. Vulnerability scan
- C. System life-cycle report
- D. Archiving logs

Answer: A

NEW QUESTION 158

- (Exam Topic 1)

A network technician needs to install a new access switch. After installing the new switch, the technician begins to move connections from the old switch to the new switch. The old switch used a GBIC connectors, and the new switch uses an SEF LC with LC connectors. After connecting the SC connector to the SC-to-LC adapter and plugging it to the switch, the link does not come up as expected. Which of the following should a network technician perform NEXT?

- A. Replace SEP with a new one.
- B. Fall back to the switch.
- C. Transpose the fiber pairs.
- D. Replace multimode with single-mode cable

Answer: C

NEW QUESTION 162

- (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 165

- (Exam Topic 1)

A technician is replacing a failed SOHO router for a customer who has an existing, cable modem, and static IP address. The user has a web server that faces the Internet so users can visit and leave comments. Which of the following BEST describes the correct configuration for this customer's requirements?

- A. The modem is placed in bridge mode, the router is placed behind the modem, and the web server is placed behind the router.
- B. The router is placed in bridge mode, the modem is placed behind the router, and the web server is placed behind the modem.
- C. The web server is placed in bridge mode, the router is placed behind the server, and the modem is placed behind the router.
- D. The switch is placed in bridge mode, the modem is placed behind the switch, and the router is placed behind the modem.

Answer: A

NEW QUESTION 168

- (Exam Topic 1)

Which of the following VPN protocols establishes a secure session that can be initiated using a browser?

- A. IPSec
- B. SSL VPN
- C. PTP
- D. PPTP

Answer: B

NEW QUESTION 173

- (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 175

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 179

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 180

- (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 184

- (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 187

- (Exam Topic 1)

Which of the following DNS record types allows IPv6 records to be resolved to DNS names?

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

Answer: C

NEW QUESTION 190

- (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 192

- (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 197

- (Exam Topic 1)

Which of the following WAN technologies provides a guaranteed throughput rate?

- A. DSL
- B. T-1
- C. Cable broadband
- D. Dial-up

Answer: B

NEW QUESTION 198

- (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 199

- (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 202

- (Exam Topic 1)

Which of the following networking devices operates at Layer1?

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

Answer: C

NEW QUESTION 203

- (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 207

- (Exam Topic 1)

Users have been experiencing slow network response times, and management has asked the network technician to provide evidence of network improvement. After optimizing the network, which of the following would be required?

- A. IDF/MDF documentation
- B. Change management
- C. Performance baseline
- D. Physical diagram

Answer: C

NEW QUESTION 212

- (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 214

- (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 216

- (Exam Topic 1)

A technician has racked a new access switch and has run multimode fiber to a new location. After installing an extended-range 10Gb SFP in the core switch, the technician installed a 10Gb SFP in the access switch and connected the port to the new extension with a fiber jumper. However, the link does not display, and the technician cannot see light emitting from the core switch. Which of the following solutions is MOST likely to resolve the problem?

- A. Swap the fiber pairs in one of the SFPs
- B. Replace the jumpers with single-mode fiber
- C. Set the correct MTU on the new interface
- D. Install an optic that matches the fiber type

Answer: B

NEW QUESTION 219

- (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 221

- (Exam Topic 1)

Which of the following concepts would BEST describe when a company chooses to use a third-party vendor to host and administer critical application?

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

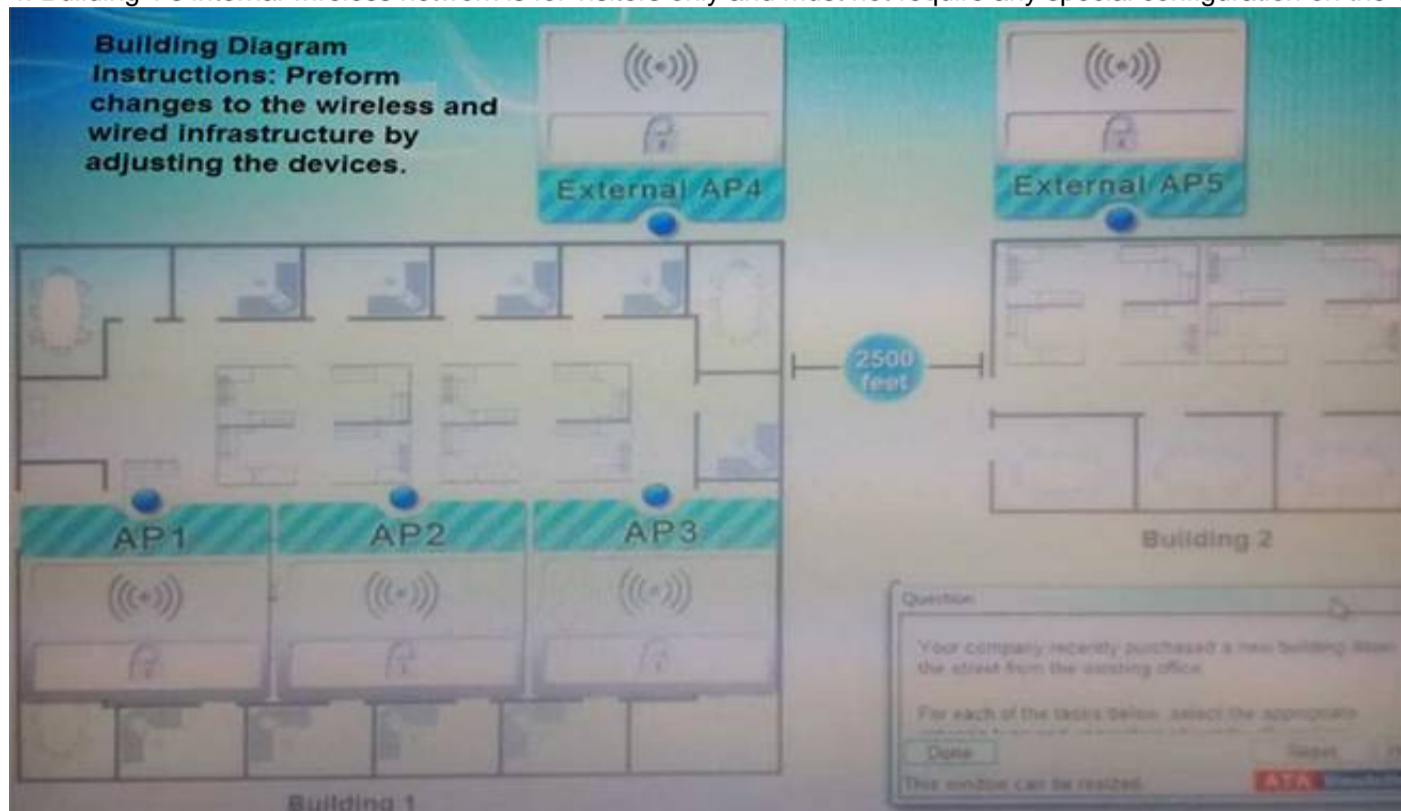
Answer: C

NEW QUESTION 226

- (Exam Topic 1)

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

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



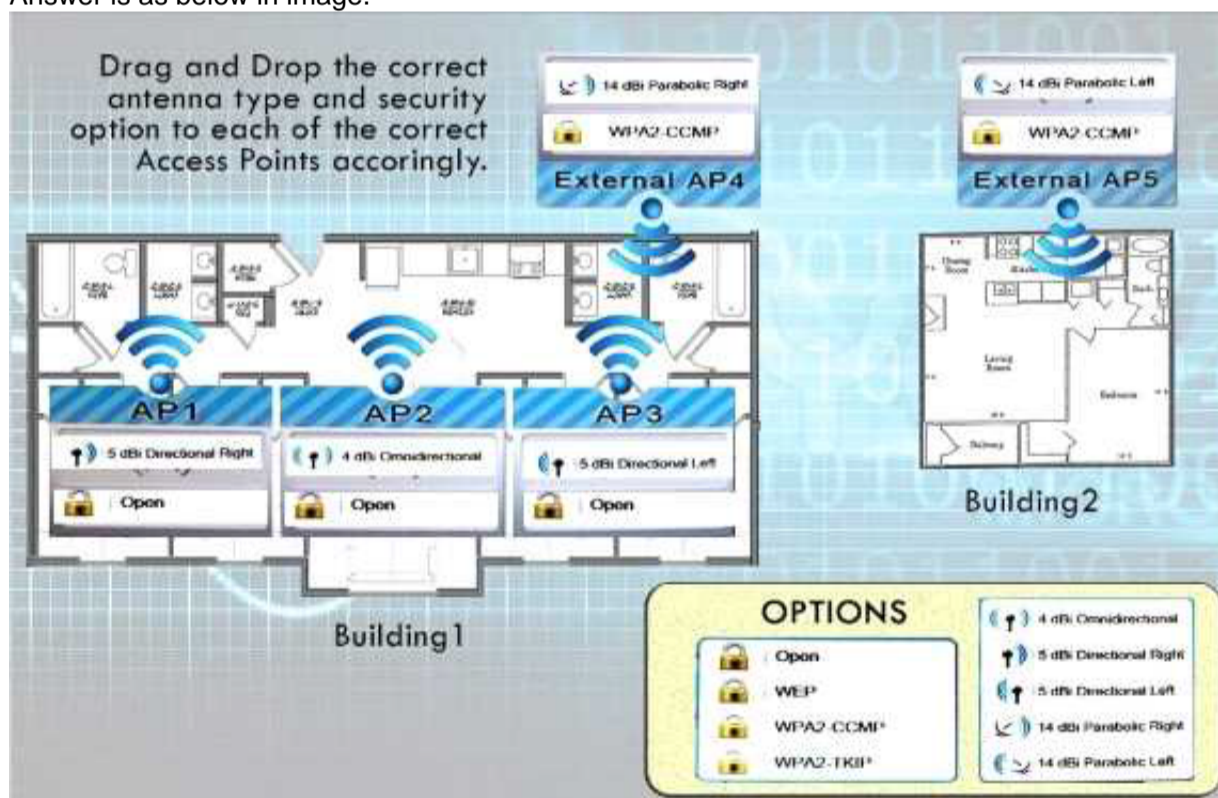
Instructions: When you have completed the simulation, select the Done button to submit.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer is as below in image.



NEW QUESTION 231

- (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 232

- (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 235

- (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 236

- (Exam Topic 2)

Which of the following uses port 53 by default?

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

Answer: D

NEW QUESTION 241

- (Exam Topic 2)

Lisa, a technician, is asked to not allow FTP traffic on a network. Which of the following ports should be blocked on the firewall to achieve this?

- A. 21
- B. 22
- C. 23
- D. 25

Answer: A

NEW QUESTION 243

- (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 245

- (Exam Topic 2)

Which of the following mediums is circuit switched?

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

Answer: A

NEW QUESTION 246

- (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 249

- (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 252

- (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 253

- (Exam Topic 2)

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

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

Answer: A

NEW QUESTION 254

- (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 258

- (Exam Topic 2)

Which of the following cables has the MOST twists per inch?

- A. CAT3
- B. CAT5
- C. CAY5e
- D. CAT6

Answer: D

NEW QUESTION 260

- (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 262

- (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 264

- (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 269

- (Exam Topic 2)

Which of the following protocols are used to connect devices in a secure manner? (Select TWO).

- A. TELNET
- B. SSH
- C. RDP
- D. HTTP
- E. DNS
- F. FTP

Answer: BC

NEW QUESTION 270

- (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 272

- (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 274

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 277

- (Exam Topic 2)

Which of the following MUST be used when securing a VoIP network consisting of private IP addresses?

- A. IPS
- B. Application layer firewall
- C. IDS
- D. An unmanaged switch

Answer: B

NEW QUESTION 279

- (Exam Topic 2)

Jeff, a technician, has been asked to add a subnet to the company's LAN. Which of the following interfaces on the router will be modified?

- A. FastEthernet 0/0
- B. AUX 0
- C. Console 0
- D. Serial 0/0/0

Answer: A

NEW QUESTION 282

- (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 285

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 288

- (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 290

- (Exam Topic 2)

Which of the following access controls enforces permissions based on data labeling at specific levels?

- A. Mandatory access control
- B. Separation of duties access control
- C. Discretionary access control
- D. Role based access control

Answer: A

NEW QUESTION 295

- (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 297

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 298

- (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 302

- (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 303

- (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 304

- (Exam Topic 2)

Which of the following is an invalid MAC address?

- A. AA:CE:58:FD:90:08
- B. 44:98:3E:F8:33:23
- C. 56:AD:BX:89:55:54
- D. 94:9E:FE:EE:8C:DF

Answer: C

NEW QUESTION 308

- (Exam Topic 2)

A user is unable to print to a network printer. Which of following is the FIRST step that a technician should take to troubleshoot the issue?

- A. Identify the problem.
- B. Establish a plan of action to resolve the problem.
- C. Establish a theory of probable cause.
- D. Implement preventative measures.

Answer: A

NEW QUESTION 312

- (Exam Topic 2)

Which of the following protocols would be used to send email to an email server?

- A. NTP
- B. FTP
- C. SNMP
- D. SMTP

Answer: D

NEW QUESTION 315

- (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 316

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 318

- (Exam Topic 2)

Which of the following is based ENTIRELY on using ICMP packets?

- A. Social engineering
- B. NMAP
- C. Buffer overflow attack
- D. Smurf attack

Answer: D

NEW QUESTION 322

- (Exam Topic 2)

A technician recently fixed a computer with several viruses and spyware programs on it and notices the Internet settings were set to redirect all traffic through an unknown proxy. This type of attack is known as which of the following?

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

Answer: C

NEW QUESTION 325

- (Exam Topic 2)

Which of the following ports should be allowed through a firewall to allow DNS resolution to occur to an outside DNS server?

- A. 20
- B. 53
- C. 80
- D. 3389

Answer: B

NEW QUESTION 327

- (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 332

- (Exam Topic 2)

Which of the following would Sandy, a technician, find in a network map?

- A. QoS standards
- B. MDF/IDFs
- C. System logs
- D. Firewall rules

Answer: B

NEW QUESTION 334

- (Exam Topic 2)

Which of the following protocols uses port 3389?

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

Answer: D

NEW QUESTION 338

- (Exam Topic 3)

A national cable company providing TV, telephone, and Internet service to home users over its IP network, has been tracking a large increase of network bandwidth due to P2P file sharing. Which of the following should the company deploy to ensure excellent TV and telephone service?

- A. QoS
- B. Load balancing
- C. High availability
- D. Fiber optics

Answer: A

NEW QUESTION 341

- (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 344

- (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 346

- (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 347

- (Exam Topic 3)

Kim, a technician, needs to locate a cable in an unorganized wiring closet. Which of the following tools will help her locate the cable?

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

Answer: C

NEW QUESTION 348

- (Exam Topic 3)

A network administrator notices that all of the company switches are running at capacity on a given day, which is abnormal according to network baselines taken recently. Which tool would BEST allow the administrator to inspect what type of traffic is on the network?

- A. Wire tap
- B. Network sniffer
- C. Load balancing appliance
- D. NIPS

Answer: B

NEW QUESTION 352

- (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 355

- (Exam Topic 3)

A company only wants preapproved laptops to be able to connect to a wireless access point. Which of the following should be configured?

- A. SSID disable
- B. ACL rules
- C. WPA encryption
- D. MAC filtering

Answer: D

NEW QUESTION 359

- (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 360

- (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 362

- (Exam Topic 3)

Which of the following does the IP address 169.254.222.10 indicate?

- A. No DHCP server connectivity
- B. The DNS server is unavailable
- C. Firewall issue
- D. Duplicate IP addresses are found

Answer: A

NEW QUESTION 367

- (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 369

- (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 370

- (Exam Topic 3)

Which of the following is an example of two factor authentication?

- A. Password, device certificate and PIN
- B. SSL web server certificate and password
- C. User password and administrator password
- D. Password and hardware token OTP

Answer: D

NEW QUESTION 372

- (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 374

- (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 377

- (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 379

- (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 383

- (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 388

- (Exam Topic 3)

169.254.1.100 is an IP address which would MOST likely come from which of the following?

- A. CIDR
- B. DHCP
- C. APIPA
- D. DNS

Answer: C

NEW QUESTION 391

- (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 392

- (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 395

- (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 399

- (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 403

- (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 408

- (Exam Topic 3)

A technician replaces a customer's router, and is now unable to ping the ISP's gateway. Which of the following should the technician check?

- A. The arp table of the new customer's router.
- B. The route table of the next-hop router.
- C. The route table of the new customer's router.
- D. The arp table of a network user.

Answer: C

NEW QUESTION 413

- (Exam Topic 3)

company wants the public to be able to connect to the wireless network with minimal security, but not be able to connect to the private internal network. Which of the following firewall rules would BEST accomplish this?

- A. Content filtering on the wireless access point
- B. Allow traffic from the wireless access point
- C. Block traffic from the wireless access point
- D. Packet filtering on the wireless access point

Answer: C

NEW QUESTION 415

- (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 417

- (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 422

- (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 427

- (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 428

- (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 432

- (Exam Topic 3)

A supervisor requests that a technician download a MIB for a particular server. Which of the following protocols requires MIBs?

- A. IPSec
- B. SSL
- C. ISAKMP
- D. SNMP

Answer: D

NEW QUESTION 437

- (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 439

- (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 441

- (Exam Topic 3)

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

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

Answer: A

NEW QUESTION 443

- (Exam Topic 3)

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

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

Answer: D

NEW QUESTION 447

- (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 450

- (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 451

- (Exam Topic 3)

Which of the following diagnostic commands relies on proper forwarding of ICMP ECHO packets?

- A. ipconfig
- B. ping
- C. route
- D. nbstat

Answer: B

NEW QUESTION 452

- (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 456

- (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 460

- (Exam Topic 3)

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

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

Answer: B

NEW QUESTION 463

- (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 466

- (Exam Topic 3)

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

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

Answer: C

NEW QUESTION 469

- (Exam Topic 3)

Which of the following separates broadcast domains?

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

Answer: B

NEW QUESTION 472

- (Exam Topic 3)

Kim, a user, cannot access the network using wireless. Which of the following is MOST likely the cause?

- A. TXRX is reversed
- B. Faulty crossover cable
- C. Incorrect WEP key
- D. A short in the cable pairs

Answer: C

NEW QUESTION 477

- (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 478

- (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 482

- (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 485

- (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 490

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