

CompTIA

Exam Questions N10-007

CompTIA Network+ N10-007



NEW QUESTION 1

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 2

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 3

- (Exam Topic 1)

Which of the following DNS record types is an alias?

- A. CNAME
- B. PTR
- C. NS
- D. SRV

Answer: A

NEW QUESTION 4

- (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 5

- (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 6

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 7

- (Exam Topic 1)

ACHief 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 8

- (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 9

- (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 10

- (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 14

- (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. tracer
- C. arp
- D. ipconfig
- E. route

Answer: A

NEW QUESTION 19

- (Exam Topic 1)

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

- A. TFTP
- B. FTP
- C. HTTP

- D. SNMP
- E. SSH
- F. IMAP

Answer: AD

Explanation:

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

NEW QUESTION 23

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 24

- (Exam Topic 1)

Which of the following communication media can carry many voice, data, and video channels simultaneously over multiple frequencies?

- A. Broadband
- B. Baseband
- C. Analog modem
- D. CSMA

Answer: A

NEW QUESTION 28

- (Exam Topic 1)

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

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

Answer: AB

NEW QUESTION 30

- (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 35

- (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 39

- (Exam Topic 1)

A technician is investigating the cause of a network outage. Which of the following documents should be checked to rule out configuration issues?

- A. Change management records
- B. Inventory management
- C. Network log files

D. Logical diagrams

Answer: A

NEW QUESTION 41

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 42

- (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 43

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 48

- (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 52

- (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 57

- (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 61

- (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 65

- (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 70

- (Exam Topic 1)

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

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

Answer: CD

NEW QUESTION 72

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 75

- (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 76

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 80

- (Exam Topic 1)

A network technician is installing a new network switch and is looking for an appropriate fiber optic patch cable. The fiber optic patch panel uses a twist-style connector.

The switch uses a SFP module. Which of the following connector types should the fiber patch cable have?

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

Answer: B

NEW QUESTION 81

- (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 84

- (Exam Topic 1)

A network technician is working on a new switch implementation to expand the network. Which of the following is the BEST option to ensure the implementation goes according to business requirements?

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

Answer: C

NEW QUESTION 89

- (Exam Topic 1)

An ISP technician gets a call from a business that just changed equipment but can no longer connect to the Internet. The technician checks the ARP table on the ISP switch, and there is no corresponding MAC address present. Instead, the entry is "Incomplete". Which of the following could cause this condition?

- A. VLAN mismatch
- B. Duplex/Speed mismatch
- C. Duplicate IP address
- D. TX/RX reverse

Answer: B

NEW QUESTION 93

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 95

- (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 100

- (Exam Topic 1)

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

- A. Commonly used on SAN
- B. MTU size greater than 1500
- C. MTU size greater than 10000

- D. Commonly used on IaaS
- E. MTU size greater than 12000

Answer: BD

NEW QUESTION 103

- (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 104

- (Exam Topic 1)

When enabling jumbo frames on a network device, which of the following parameters is being adjusted?

- A. Speed
- B. Duplex
- C. MTU
- D. TTL

Answer: C

NEW QUESTION 107

- (Exam Topic 1)

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

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

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

Answer: C

Explanation:

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

NEW QUESTION 112

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 114

- (Exam Topic 1)

A technician is setting up a wireless access point in a coffee shop. The shop is not concerned with security but only wants to allow customers to have access.

Which of the following configurations should the technician deploy?

- A. Use a pre-shared key.
- B. Set up EAP.
- C. Configure RADIUS.
- D. Configure MAC filtering.

Answer: A

NEW QUESTION 119

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 122

- (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 123

- (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 128

- (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 130

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 133

- (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 138

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 139

- (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 144

- (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 149

- (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 154

- (Exam Topic 1)

A technician is configuring a printer for a client. The technician connects the printer to the network, but is unsure how to determine its switchport. Which of the following should the technician do FIRST to locate the switchport?

- A. Perform a DNS lookup on the server.
- B. Set up an SSH session to the desktop.
- C. Reference the ARP table in the router.
- D. Configure port security on the switch.

Answer: C

NEW QUESTION 156

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 157

- (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 160

- (Exam Topic 1)

The process of attempting to exploit a weakness in a network after being given permission by the company is known as:

- A. penetration testing
- B. vulnerability scanning
- C. reconnaissance
- D. social engineering

Answer: A

NEW QUESTION 161

- (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 163

- (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 164

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 168

- (Exam Topic 1)

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

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

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

Answer: C

NEW QUESTION 170

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 172

- (Exam Topic 1)

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

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

Answer: E

NEW QUESTION 176

- (Exam Topic 1)

Which of the following provides two factor authentication?

- A. Username+ password
- B. Smartcard +PIN
- C. Fingerprint +retina scan
- D. Key fob +ID card

Answer: B

NEW QUESTION 179

- (Exam Topic 1)

Based on networks 10.8.16.0/22 and 10.8.31.0/21, which of the following is the BEST summarized CIDR notation?

- A. 10.8.0.0/16
- B. 10.8.0.0/19
- C. 10.8.0.0/20
- D. 10.0.0.0/24

Answer: A

NEW QUESTION 180

- (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 181

- (Exam Topic 1)

Which of the following protocols do MOST MITM attacks utilize?

- A. ARP
- B. SIP
- C. FTP
- D. SCP

Answer: A

NEW QUESTION 183

- (Exam Topic 1)

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

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

Answer: C

Explanation:

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

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

NEW QUESTION 187

- (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 192

- (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 193

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 197

- (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 202

- (Exam Topic 1)

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

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

Answer: ACG

NEW QUESTION 204

- (Exam Topic 1)

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

- A. STP
- B. VLANs
- C. SIP
- D. DSCP

Answer: D

NEW QUESTION 207

- (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 209

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 212

- (Exam Topic 1)

A network technician performs a wireless site survey at a company building and identifies that the cafeteria is not covered by a wireless signal. The cafeteria is located in a medium-size, square-shaped room. Which of the following types of WAP antenna should the technician install in the center of the cafeteria to provide the BEST coverage?

- A. Unidirectional
- B. Parabolic
- C. Omnidirectional
- D. Yagi

Answer: C

NEW QUESTION 213

- (Exam Topic 1)

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

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

Answer: AB

NEW QUESTION 215

- (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 217

- (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 220

- (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 225

- (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 228

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 232

- (Exam Topic 1)

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

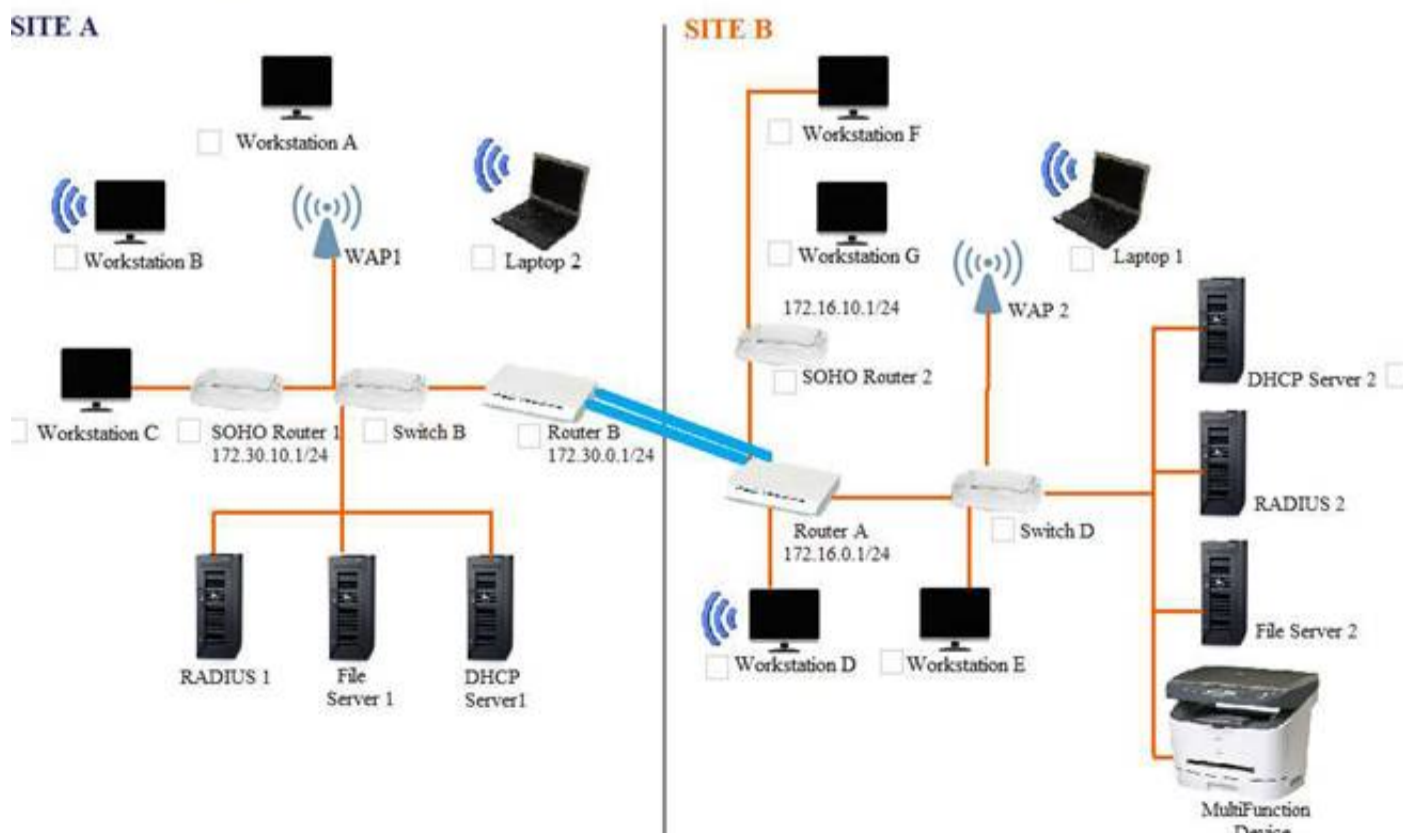
- WorkstationA
- WorkstationB
- WorkstationC
- WorkstationD
- WorkstationE
- WorkstationF
- WorkstationG
- Laptop1
- Laptop2
- DHCP server1
- DHCP server2

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

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

Site A and B Network Diagram

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



WORKSTATION A

| | |
|------------|---------------|
| IP Address | 172.30.0.10 |
| Netmask | 255.255.255.0 |
| Gateway | 172.30.0.1 |

OK

WORKSTATION B

| | |
|------------|---------------|
| IP Address | 172.30.0.14 |
| Netmask | 255.255.255.0 |
| Gateway | 172.30.0.1 |

OK

WORKSTATION C

| | |
|------------|----------------|
| IP Address | 169.254.200.67 |
| Netmask | 255.255.255.0 |
| Gateway | |

OK

WORKSTATION D

| | |
|------------|---------------|
| IP Address | 172.16.0.221 |
| Netmask | 255.255.255.0 |
| Gateway | 172.16.0.1 |

OK

WORKSTATION E

| | |
|------------|---------------|
| IP Address | 172.16.0.21 |
| Netmask | 255.255.255.0 |
| Gateway | 172.16.0.1 |

OK

WORKSTATION F

| | |
|------------|---------------|
| IP Address | 172.16.10.43 |
| Netmask | 255.255.255.0 |
| Gateway | 172.16.10.1 |

OK

WORKSTATION G

| | |
|------------|---------------|
| IP Address | 172.16.10.120 |
| Netmask | 255.255.255.0 |
| Gateway | 172.16.10.1 |

OK

LAPTOP 1

| | |
|------------|---------------|
| IP Address | 172.16.0.220 |
| Netmask | 255.255.255.0 |
| Gateway | 172.16.0.1 |

OK

LAPTOP 2

| | |
|------------|---------------|
| IP Address | 172.30.0.12 |
| Netmask | 255.255.255.0 |
| Gateway | 172.30.0.1 |

OK

| DHCP SERVER 1 | |
|-----------------|--------------------------|
| IP Address | 172.30.0.5 |
| Netmask | 255.255.255.0 |
| Gateway | 172.30.0.1 |
| | |
| DHCP Scope | 172.30.0.10-250 |
| Gateway | 172.30.0.1 |
| DNS Servers | 10.200.2.20, 10.200.3.20 |
| DHCP Lease Time | 8 days |
| OK | |

| DHCP SERVER 2 | |
|-----------------|--------------------------|
| IP Address | 172.30.0.5 |
| Netmask | 255.255.255.0 |
| Gateway | 172.16.0.1 |
| | |
| DHCP Scope | 172.16.0.10-250 |
| Gateway | 172.16.0.1 |
| DNS Servers | 10.200.2.20, 10.200.3.20 |
| DHCP Lease Time | 8 days |
| OK | |

Part 2

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

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

Answer: G

NEW QUESTION 233

- (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 234

- (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 239

- (Exam Topic 1)

ACHief 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 244

- (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 245

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 249

- (Exam Topic 1)

An end-user device requires a specific IP address every time it connects to the corporate network; however, corporate policy does not allow the use of static IP addresses. Which of the following will allow the request to be fulfilled without breaking the corporate policy?

- A. DHCP relay
- B. DHCP exclusion
- C. DHCP option
- D. DHCP reservation

Answer: D

NEW QUESTION 253

- (Exam Topic 1)

A company has a web-based application that is used by many different departments. The company has experienced some overload of resources on the database server. The network administrator implements a network device in between the servers and the database. Which of the following BEST describes the purpose of this device?

- A. Content filtering and network analysis
- B. Load balancing and providing high availability
- C. Port sniffing and protocol analysis
- D. Clustering and NIC teaming

Answer: B

NEW QUESTION 256

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 259

- (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 263

- (Exam Topic 1)

A network technician is troubleshooting an end-user connectivity problem. The network technician goes to the appropriate IDF but is unable to identify the appropriate cable due to poor labeling. Which of the following should the network technician use to help identify the appropriate cable?

- A. Tone generator
- B. Multimeter
- C. OTDR
- D. Loopback adapter

Answer: A

NEW QUESTION 266

- (Exam Topic 1)

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

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

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

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

Answer: E

NEW QUESTION 268

- (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 272

- (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 274

- (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 275

- (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 276

- (Exam Topic 1)

A network technician needs to connect to a remote router to modify the configuration, Which of the following method should the technician use to connected to the device security? (Select TWO)

- A. Telnet
- B. VNC
- C. SSH
- D. RDP
- E. HTTPS
- F. TFTP

Answer: BC

NEW QUESTION 280

- (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 284

- (Exam Topic 1)

Users are reporting their network is extremely slow. The technician discovers pings to external host have excessive response times. However, internal pings to printers and other PCs have acceptable response times. Which of the following steps should the technician take NEXT?

- A. Determine if any network equipment was replaced recently
- B. Verify malware has not disabled the users' PC firewalls
- C. Replace users' network cables with known-good network cables
- D. Power cycle the web server

Answer: A

NEW QUESTION 286

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 291

- (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 296

- (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 300

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 301

- (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 305

- (Exam Topic 1)

A network administrator has had difficulty keeping track of IP address assignments on networking devices and clients recently. Which of the following is the BEST technology to aid in this scenario?

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

Answer: C

NEW QUESTION 309

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 314

- (Exam Topic 1)

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

- A. Identification card

- B. Biometric device
- C. Proximity reader
- D. Video camera

Answer: C

NEW QUESTION 316

- (Exam Topic 1)

A network technician has recently installed new VoiP phones at all employees' desks to support a new SIP cloud solution. However, the technician is unable to make a call from the device after testing. Which of the following should the technician verify?

- A. TCP 433 is allowed.
- B. UDP 1720 is allowed.
- C. UDP 50860 is allowed.
- D. UDP 5061 is allowed.
- E. TCP 8080 is allowed.
- F. TCP 8181 is allowed.

Answer: CD

NEW QUESTION 321

- (Exam Topic 1)

A second router was installed on a network to be used as a backup for the primary router that works as a gateway. The infrastructure team does not want to change the IP address of the gateway on the devices. Which of the following network components should be used in this scenario?

- A. Loopback IP
- B. Virtual IP
- C. Reserved IP
- D. Public

Answer: B

NEW QUESTION 323

- (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 324

- (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 329

- (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 334

- (Exam Topic 2)

attempting to access a popular website. Which of the following will MOST likely correct the error?

- A. HTTP uses UDP
- B. DNS port 23 needs to be allowed
- C. HTTP needs port 443 allowed
- D. UDP port 53 needs to be allowed

Answer: D

NEW QUESTION 338

- (Exam Topic 2)

A company has just installed wireless in their office. In one corner of the office building users are not able to establish a connection. Which of the following can be changed on the AP to help resolve this issue?

- A. SSID
- B. Channels
- C. Signal strength
- D. Encryption

Answer: C

NEW QUESTION 341

- (Exam Topic 2)

A workstation on the network is configured as follows. A user reports that they are unable to print to a device located on a different subnet. Which of the following is the MOST likely problem?

IP address: 172.16.204.12
Subnet Mask: 255.255.0.0
Default Gateway: 172.15.204.254
DNS address: 172.16.204.1
Broadcast address: 172.16.255.255

- A. DNS address
- B. Subnet mask
- C. Default gateway
- D. Broadcast address
- E. IP address

Answer: C

NEW QUESTION 342

- (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 343

- (Exam Topic 2)

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

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

Answer: A

NEW QUESTION 347

- (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 349

- (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 350

- (Exam Topic 2)

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

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

Answer: C

NEW QUESTION 353

- (Exam Topic 2)

Which of the following is a proprietary routing protocol?

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

Answer: B

NEW QUESTION 355

- (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 356

- (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 359

- (Exam Topic 2)

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

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

Answer: C

NEW QUESTION 364

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 367

- (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 369

- (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 373

- (Exam Topic 2)

Kim, a network technician, is installing an 802.11n network. Which of the following should Kim enable to ensure that the network only allows 802.11n clients?

- A. Name the SSID on the 802.11n network only
- B. Limit the DHCP address pool
- C. Disable 802.11b and 802.11g
- D. Only use WPA encryption

Answer: C

NEW QUESTION 375

- (Exam Topic 2)

A company has a large number of employees that need VPN access from home. Which of the following is the BEST solution for deploying and managing the remote access?

- A. Site-to-site VPN
- B. Network-based firewall
- C. SSL VPN
- D. Host-based firewall

Answer: C

NEW QUESTION 379

- (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 383

- (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 385

- (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 390

- (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 392

- (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 393

- (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 398

- (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 400

- (Exam Topic 2)

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

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

Answer: C

NEW QUESTION 405

- (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 408

- (Exam Topic 2)

Which of the following WAP security features offers the STRONGEST encryption?

- A. WPA
- B. WPA2
- C. WEP
- D. Hidden SSID

Answer: B

NEW QUESTION 410

- (Exam Topic 2)

Which of the following devices exist as either hardware or software to assist in routing traffic? (Select TWO).

- A. Cable modem
- B. Layer 2 switch
- C. Router
- D. NIDS
- E. Layer 3 switch

Answer: CE

NEW QUESTION 412

- (Exam Topic 2)

Which of the following specifications would Sara, an administrator, implement as a network access control?

- A. 802.1q
- B. 802.3
- C. 802.11n
- D. 802.1x

Answer: D

NEW QUESTION 414

- (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 417

- (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 420

- (Exam Topic 2)

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

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

Answer: C

NEW QUESTION 424

- (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 428

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 430

- (Exam Topic 2)

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

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

Answer: C

NEW QUESTION 432

- (Exam Topic 2)

Which of the following DNS records would allow for a website to have more than one FQDN?

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

Answer: D

NEW QUESTION 436

- (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 441

- (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 446

- (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 450

- (Exam Topic 3)

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

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

Answer: C

NEW QUESTION 453

- (Exam Topic 3)

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

- A. Network map
- B. Environmental monitor

- C. Placement map
- D. Syslog

Answer: D

NEW QUESTION 456

- (Exam Topic 3)

A network administrator is troubleshooting an intermittent network issue between devices that have a particularly long cable run. The issue was escalated to a network designer who alluded to potential attenuation issues. Which of the following BEST describes what the network designer was referring to?

- A. Bad connectors
- B. Cross-talk
- C. EMI / Interference
- D. dB loss

Answer: D

NEW QUESTION 461

- (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 465

- (Exam Topic 3)

A user has no network connectivity. Jeff, the network technician, is unable to locate the CAT5e cable from the user at the IDF. Which of the following tools would be used to assist Jeff in locating the CAT5e cable?

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

Answer: C

NEW QUESTION 468

- (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 471

- (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

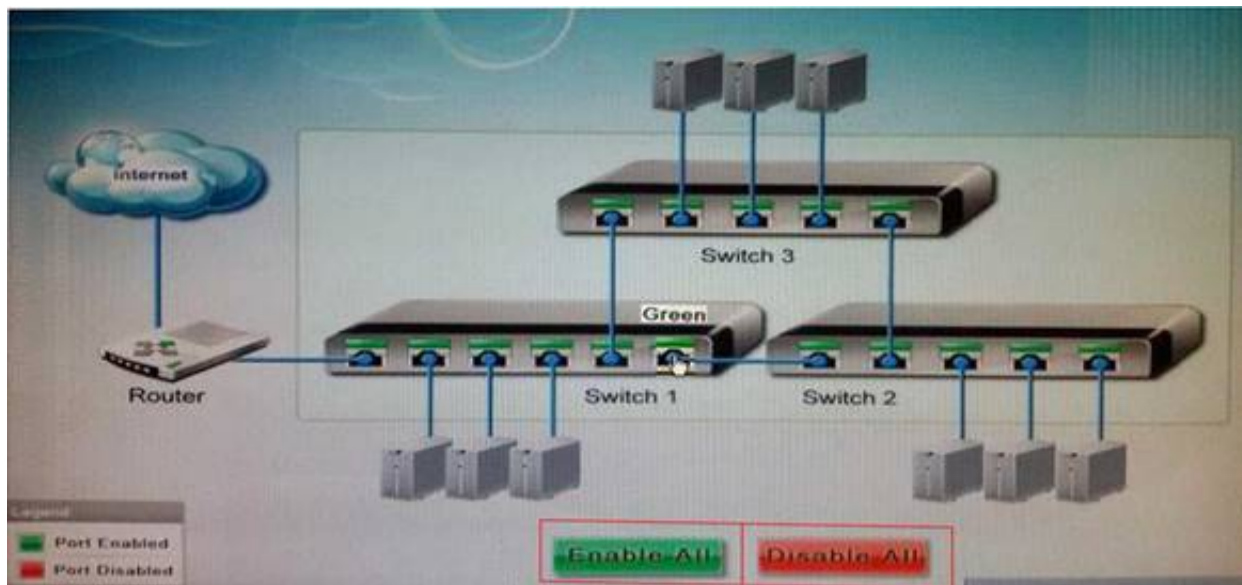
Answer: D

NEW QUESTION 473

- (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 475

- (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 480

- (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 482

- (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 485

- (Exam Topic 3)

Which of the following 802.11n features allows for the use of multiple simultaneous frequencies in order to increase usable bandwidth?

- A. Channel bonding
- B. MIMO
- C. Spatial reuse
- D. 20MHz channel spacing

Answer: A

NEW QUESTION 488

- (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 493

- (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 495

- (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 496

- (Exam Topic 3)

A technician notices that network access is becoming increasingly slow. All of the activity lights, on the only network layer 2 switch, are blinking at steadily increasing rates. Which of the following is the MOST likely cause of the increased traffic?

- A. STP blocking
- B. IP addresses
- C. MTU mismatch
- D. Switching loop

Answer: D

NEW QUESTION 497

- (Exam Topic 3)

Lisa, an administrator, has set up an 802.11n wireless network. Users with 802.11n laptops have reported that speeds are slow. After testing, Lisa determines that users max out at 802.11g speeds. Which of the following would MOST likely fix this issue?

- A. Enable wireless multimedia (WMM) for QoS
- B. Use the 40MHz channels in the 2.4GHz band
- C. Enable access point antenna isolation
- D. Limit the clients to 802.11g compatible laptops

Answer: A

NEW QUESTION 500

- (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 504

- (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 508

- (Exam Topic 3)

A SOHO with ten Wi-Fi equipped laptops needs a new network installed. Which of the following items would be used to setup the office using a new DSL line? (Select TWO).

- A. Router
- B. Wi-Fi Access point
- C. Cable modem
- D. Ten WiMAX adapters
- E. Ten CAT6 patch cables

Answer: AB

NEW QUESTION 512

- (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 514

- (Exam Topic 3)

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

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

Answer: A

NEW QUESTION 517

- (Exam Topic 3)

Kim, the client, has requested a cost-effective network solution to accommodate the ability to reconfigure the office space as needed. Which networking solution would provide the BEST solution?

- A. Private IP Addressing
- B. Wireless Access Points
- C. Wide Area Networking
- D. Virtual Local Area Networks

Answer: B

NEW QUESTION 521

- (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 523

- (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 524

- (Exam Topic 3)

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

- A. 1, 6, 11

- B. 2, 5, 10
- C. 3, 13, 23
- D. 4, 8, 16

Answer: A

NEW QUESTION 525

- (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 528

- (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 530

- (Exam Topic 3)

A supervisor requests that a technician downloads 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 532

- (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 537

- (Exam Topic 3)

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

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

Answer: C

NEW QUESTION 542

- (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 545

- (Exam Topic 3)

A company decides to deploy customer-facing, touch-scan kiosks. The kiosks appear to have several open service ports that could potentially become compromised. Which of the following is the MOST effective way to protect the kiosks?

- A. Install an IDS to monitor all traffic to and from the kiosks.
- B. Install honeypots on the network to detect and analyze potential kiosk 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 network segment with ACLs, limiting kiosks' traffic with the internal network.

Answer: D

NEW QUESTION 550

- (Exam Topic 3)

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

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

Answer: C

NEW QUESTION 555

- (Exam Topic 3)

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

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

Answer: B

NEW QUESTION 558

- (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 562

- (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 567

- (Exam Topic 3)

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

Which of the following is the MOST likely reason?

- A. Incorrectly configured ACL
- B. Implicit allow statement
- C. SMTP requests are being denied
- D. All protocols are being allowed in

Answer: A

NEW QUESTION 569

- (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 573

- (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 576

- (Exam Topic 3)

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

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

Answer: B

NEW QUESTION 579

- (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 584

- (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 587

- (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 591

- (Exam Topic 3)

A company is having a new T1 line installed. Which of the following will the connection MOST likely terminate to?

- A. Core switch
- B. MDF
- C. Ethernet router
- D. IDF

Answer: B

NEW QUESTION 596

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