CompTIA

Exam Questions JK0-019

CompTIA Network+ Certification Exam (JK0-019)

NEW QUESTION 1
Several users from the finance department report that they are able to access the Internet, but unable to connect to their financial applications. The network technician is unable to ping the finance server. The technician decides to check the switch and determines that Internet access is working. Which of the following is a possible cause of the access issues?

A. Faulty cable
B. Remote management disabled
C. Improper VLAN assignment
D. Mismatched duplex

Answer: C

Explanation:
Finance Server is placed in same VLAN which is assigned to finance users if they are able to access internet that's means connectivity to switch is good, so we have to check the VLAN assigned to users.

NEW QUESTION 2
Given a subnet mask of 255.255.255.0, how many usable IP addresses would be in that subnet?

A. 250
B. 254
C. 255
D. 256

Answer: B

Explanation:
The Subnet Mask however, determines the "class" of a Network. 255.255.255.0 is a "Class C" network.A class c network can host up to 254 pc's

NEW QUESTION 3
Which of the following is the common port used for IMAP?

A. 25
B. 53
C. 143
D. 443

Answer: C

Explanation:
The Internet Message Access Protocol (commonly known as IMAP) is an Application Layer Internet protocol that allows an e-mail client to access e-mail on a remote mail server. The current version, IMAP version 4 revision 1 (IMAP4rev1), is defined by RFC 3501. An IMAP server typically listens on well-known port 143

NEW QUESTION 4
Which of the following commands displays the routing table on a server or workstation?

A. nbtstat
B. route
C. traceroute
D. nmap

Answer: B

Explanation:
The route command allows you to make manual entries into the network routing tables. The route command distinguishes between routes to hosts ...

NEW QUESTION 5
Which of the following protocols is MOST commonly used for the transfer of router configuration files?

A. SSL
B. TFTP
C. DNS
D. IMAP

Answer: B

Explanation:
Trivial File Transfer Protocol (TFTP) is a file transfer protocol notable for its simplicity. It is generally used for automated transfer of configuration or boot files between machines in a local environment. Compared to FTP, TFTP is extremely limited, providing no authentication, and is rarely used interactively by a user.

NEW QUESTION 6
Which of the following protocols resolves IP addresses to MAC addresses?

A. DNS
B. ARP

C. RARP
D. NTP

Answer: B

Explanation:
ARP is used to convert an IP address to a physical address such as an Ethernet address. ARP has been implemented with many combinations of network and data link layer technologies, such as IPv4, Chaosnet, DECnet and Xerox PARC Universal Packet (PUP) using IEEE 802 standards, FDDI, X.25, Frame Relay and Asynchronous Transfer Mode (ATM). IPv4 over IEEE 802.3 and IEEE 802.11 is the most common case.

NEW QUESTION 7
Which of the following is the definition of a DNS server?

A. Hosts proprietary business applications
B. Translates FQDN's to IP addresses
C. Provides network IDS/IPS security
D. Assigns IP addresses to network devices

Answer: B

Explanation:
Domain Name System (DNS) is the name resolution protocol for TCP/IP networks, such as the Internet. Client computers query a DNS server to resolve memorable, alphanumeric DNS names to the IP addresses that computers use to communicate with each other.

NEW QUESTION 8
Which of the following features can BEST be used to facilitate authorized remote access to a network?

A. VPN concentrator
B. Proxy server
C. Content filter
D. Load balancer

Answer: A

Explanation:
The VPN Concentrator is used for Remote Access VPN's. In typical use, a Remote Access VPN allows users to use an encrypted tunnel to securely access a corporate or other network via the Internet.

NEW QUESTION 9
Enterprise IP routing policy is MOST clearly depicted in which of the following configuration management documents?

A. Logical network diagrams
B. Physical network diagrams
C. Wiring schematics
D. Group security role assignments

Answer: A

Explanation:
A logical network diagram illustrates the network architecture of a group of interconnected computers and other devices, such as printers, modems, switches, routers, and even mobile devices. These electronic components form the physical network that provides local area network (LAN) and wide area network (WAN) access to users. Once you know the layout and you have an idea about the packet flow then your job becomes easy and you can create an action plan to go for the implementation.

NEW QUESTION 10
If a NIC does not have a link light, there is a failure at which of the following OSI layers?

A. Physical
B. Session
C. Data link
D. Presentation

Answer: A

Explanation:
The NIC does not have light refers to a situation that there could be a fault in the LAN cable or the ports are down and all of these fall under the physical layer. To make it simple, it falls in physical layer because blinking lights refers to the physical connectivity.

NEW QUESTION 10
Which of the following can function in an unsecure mode?

A. SNMPv3
B. SSH
C. SSL
D. SCP

Answer: A

Explanation:
SNMPv3 makes no changes to the protocol aside from the addition of cryptographic security, it looks much different due to new textual conventions, concepts, and terminology.SNMPv3 primarily added security and remote configuration enhancements to SNMP

NEW QUESTION 15
Which of the following has the LEAST amount of collisions in a domain?

A. Bridge
B. Hub
C. Repeater
D. Switch

Answer: D

NEW QUESTION 17
A customer has requested that a new piece of network equipment be installed so that the customer can have multiple subnets for each department, but allow network traffic from each department to reach one another without the use of a router. Which of the following network devices would satisfy this customer's requirements?

A. Packet filter
B. Layer 3 switch
C. Stateful firewall
D. Wireless bridge

Answer: B

NEW QUESTION 21
A user arrives at a new house and the Internet provider states the connection will run through the cable. If the user wants to install multiple PCs, which of the following will the user need in order to establish a connection? (Select TWO).

A. VPN
B. Router
C. T1 card
D. WEP
E. Modem

Answer: BE

NEW QUESTION 22
Which of the following uses types and codes rather than ports?

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

Answer: B

NEW QUESTION 24
Which of the following protocols are used to provide accurate time to network devices?

A. SMTP
B. FTP
C. TLS
D. NTP

Answer: D

NEW QUESTION 25
Hubs are differentiated from switches in that between the two, only hubs have:

A. a single collision domain.
B. a single broadcast domain.
C. multiple collision domains.
D. multiple broadcast domains.

Answer: A

NEW QUESTION 27
At which layer of the OSI model do MAC addresses operate?

A. Data Link
B. Network
C. Application
D. Physical

Answer: A

NEW QUESTION 32
Which of the following is the minimum subnet mask to allow 172.16.1.5 and 172.16.4.3 to be on

A. /19
B. /21
C. /22
D. /24

Answer: B

NEW QUESTION 37
A MAC address is a part of which of the following OSI model layers?

A. Network
B. Data Link
C. Physical
D. Transport

Answer: B

NEW QUESTION 38
The address 6FFE:FFFF:0000:2F3B:04AC:00FF:FEBE:5C4A is an example of which of the following?

A. APIPA
B. MAC
C. IPv4
D. IPv6

Answer: D

NEW QUESTION 40
Layers 5, 6, and 7 from the OSI model correspond to which of the following layers of the TCP/IP model?

A. Transport
B. Application
C. Internet
D. Network Interface

Answer: B

NEW QUESTION 41
Which of the following ports is used by Telnet?

A. 21
B. 23
C. 80
D. 143

Answer: B

NEW QUESTION 43
Which of the following protocols is used by Windows to securely access a remote computer?

A. RAS
B. Telnet
C. PPP
D. RDP

Answer: D

NEW QUESTION 44
An IP address is encapsulated at which of the following layers of the OSI model?

A. Transport
B. Data link
C. Network
D. Application

Answer: C

NEW QUESTION 47
Which of the following is considered a routing metric?

A. Hop count
B. QoS
C. Subnet size
D. IP address

Answer: A

NEW QUESTION 50
At which layer of the TCP/IP model would cabling exist?

A. Network Interface
B. Internet
C. Application
D. Transport

Answer: A

NEW QUESTION 52
A small business owner is in the process of setting up a SOHO office. The office has only one connection to the Internet via a broadband cable connection. The office has four subnets that must be able to connect to the Internet. Which of the following devices would enable the owner to meet these requirements?

A. A firewall
B. A router
C. A hub
D. A Layer 2 switch

Answer: B

NEW QUESTION 55
Which of the following is described by the MAC address FF:FF:FF:FF:FF:FF?

A. Unicast MAC address.
B. Invalid MAC address.
C. Multicast MAC address.
D. Broadcast MAC address.

Answer: D

NEW QUESTION 56
Based on the packet capture below, which of the following services is the client requesting? 08:30:54.982378192.168.50.42.8329 > 192.168.50.20.53:
S 32859235:32859235(0) win 8096
08:30:55.001378192.168.50.20.53 > 192.168.50.42.8329:
S 31845637: 31845637(0) ack 32859236 win 8096
08:30:55.027578192.168.50.42.8329 > 192.168.50.51.53:
ack 1 win 8096

A. ARP
B. SMTP
C. DHCP
D. DNS

Answer: D

NEW QUESTION 58
Which of the following contains the SYN and ACK flags?

A. UDP header
B. IP header
C. TCP header
D. ICMP header

Answer: C

NEW QUESTION 60
Which of the following remote access protocols is commonly used for command line access to a device?

A. RAS
B. VPN
C. RDP
D. SSH

Answer: D

NEW QUESTION 64
Which of the following protocols is used to detect and eliminate switching loops within a network?

A. Spanning Tree Protocol
B. EIGRP
C. OSPF
D. Dynamic routing

Answer: A

NEW QUESTION 66
192.168.0.7/8 notation denotes which of the following IPv4 subnet masks?

A. 255.0.0.0
B. 255.255.0.0
C. 255.255.255.0
D. 255.255.255.255

Answer: A

NEW QUESTION 70
A SOHO client has tasked Joe, a technician, with setting up a basic SOHO network to support four laptops and one desktop PC. The client would also like to have a basic wireless network to use for internal devices only that is secure. Given the list of requirements, which of the following devices would Joe need to purchase for his client? (Select TWO).

A. IDS
B. Repeater
C. Switch
D. WAP
E. UTM device

Answer: CD

NEW QUESTION 71
The BEST way to determine the next hop of a packet is to check the:

A. link state.
B. routing table.
C. routing metrics.
D. convergence.

Answer: B

NEW QUESTION 74
Which of the following is the unit used to transfer information at Layer 2 of the OSI model?

A. Packet
B. Socket
C. Session
D. Frame

Answer: D

NEW QUESTION 75
Which of the following differentiates a layer 3 switch from a layer 2 switch?

A. Routing
B. Bridging
C. Switching
D. Repeating

Answer: A

NEW QUESTION 76
Dynamic DNS provides which of the following services?

A. Automatic registration of host records
B. Translates public host names to private host names
C. Provides round robin load balancing for web servers
D. Provides aliases for additional search suffixes

Answer: A

NEW QUESTION 77
Which of the following records allows for reverse DNS lookups?

A. AAAA
B. A

C. PTR
D. CNAME

Answer: C

NEW QUESTION 81
The network technician has recently implemented VLANs on the company network. Ever since this implementation, sections within the company can no longer share information. While troubleshooting, the technician realizes they are unable to ping a device from another VLAN. Which of the following needs to be configured to fix this problem?

A. Clear the ARP table
B. Add host entries on the user's computer
C. Configure 802.1x trunks on the switches
D. Configure 802.1q trunks on the switches

Answer: D

NEW QUESTION 86
After the technician has established a theory of probable cause of a user reported problem, which of the following should the technician do NEXT in the troubleshooting process?

A. Implement the solution to the problem.
B. Establish a plan of action.
C. Identify the problem.
D. Implement preventative measures.

Answer: B

NEW QUESTION 87
A technician has been tasked to set-up a managed switch. Which of the following will the technician need to accomplish this task?

A. IP address
B. Switch serial number
C. VLAN tag
D. Loopback plug

Answer: A

NEW QUESTION 89
A technician has installed a group of layer 2 switches with multiple VLANs. The VLANs cannot talk to each other. Which of the following network devices could correct this problem? (Select TWO).

A. Hub
B. DNS server
C. DHCP server
D. Layer 3 switch
E. Router

Answer: DE

NEW QUESTION 94
Which of the following is the BEST network configuration to use if the technician wants to send all outgoing traffic to the external router?

A. ACLs
B. Static routing
C. Trunking
D. SNMP strings

Answer: B

NEW QUESTION 97
In order for switching loops to be automatically disabled, which of the following needs to be implemented?

A. Routing tables
B. Collision domains
C. Port mirroring
D. Spanning-tree protocol

Answer: D

NEW QUESTION 99
Which of the following standards can operate at either 20MHz or 40MHz channel spacing?

A. 802.11a
B. 802.11b

C. 802.11g
D. 802.11n

Answer: D

Explanation:
The 2.4 GHz ISM band is fairly congested. With 802.11n, there is the option to double the bandwidth per channel to 40 MHz which results in slightly more than double the data rate. However, when in 2.4 GHz, enabling this option takes up to 82%[10] of the unlicensed band, which in many areas may prove to be infeasible. The specification calls for requiring one primary 20 MHz channel as well as a secondary adjacent channel spaced ±20 MHz away. The primary channel is used for communications with clients incapable of 40 MHz mode. When in 40 MHz mode, the center frequency is actually the mean of the primary and secondary channels.

NEW QUESTION 102
A customer has requested a solution using multiple WAPs for wireless access. Which of the following should be different on each WAP to prevent wireless problems?

A. Firewalls
B. VLANs
C. Channels
D. Antenna types

Answer: C

Explanation:
Protocol requires 16.25 to 22 MHz of channel separation (as shown above), adjacent channels overlap and will interfere with each other.
Channels 1, 6, and 11 are the most common channels to choose, and most routers will use one of them as the default channel—but the general idea is to be as far away from everybody else as you can.

NEW QUESTION 107
A network administrator must ensure that both the server and the client are authenticated to the wireless system before access is granted. Which of the following should be implemented to meet this requirement?

A. EAP-PEAP
B. MAC ACL
C. EAP-TTLS
D. MS-CHAPv2

Answer: C

Explanation:
Extensible Authentication Protocol, or EAP, is an authentication framework frequently used in wireless networks and Point-to-Point connections. EAP is an authentication framework providing for the transport and usage of keying material and parameters generated by EAP methods.

NEW QUESTION 110
A network administrator suspects a broadcast storm is causing performance issues on the network. Which of the following would be used to verify this situation?

A. Environmental monitor
B. Multimeter
C. Toner probe
D. Protocol analyzer

Answer: D

Explanation:
A "Protocol analyzer" is a tool (hardware or software) used to capture and analyze signals and data traffic over a communication channel.

NEW QUESTION 112
After a new user moves furniture into a cubicle, the computer does not connect to the network any longer.
Which of the following would be the MOST likely reason? (Select TWO).

A. Bad Ethernet switch port
B. TX/RX reversed
C. Bad connectors
D. Bad patch cable
E. Mismatched MTU

Answer: CD

Explanation:
It could be problem with the bad connector because the user just moved furniture to the cubicle and it is quite possible that the movement of the furniture has created problem by disrupting the cabling and connections. These two are the important things which can be broken down whenever there is a physical movement.

NEW QUESTION 113
A company has recently allowed its employees to telecommute two days a week. The employees MUST have a minimum of 1Mbps non-shared connection to the Internet. Which of the following MUST the employees have at their home in order to connect to the Internet?

A. ISDN
B. Cable modem

C. DSL
D. Dial-up networking

Answer: C

Explanation:
Digital subscriber line (DSL, originally digital subscriber loop) is a family of technologies that provide Internet access by transmitting digital data over the wires of a local telephone network.

NEW QUESTION 114
Some employees are unable to maintain a wireless network connection. The network's wireless infrastructure is comprised of three different buildings with the configurations listed below. Wireless network in Building A and C is used exclusively for internal employees and Building B is used for visitors and requires no additional configuration on their devices. Which of the following settings would need to be modified to provide the BEST wireless experience for all employees as they move between buildings?
Building ABuilding BBuilding C Channel: 1Channel: 6Channel: 11
Encryption: WPA2Encryption: OpenEncryption: WPA2 SSID. CorpSSID. GuestSSID. Sales

A. Change Channel in Building B to 7
B. Change Encryption in Building B to match A and C
C. Change Channel in Building C to 1
D. Change SSID in Building C to match Building A

Answer: D

Explanation:
The configuration difference between users in building A and C is that they have same encryption however the SSID is different so the user has to manually authenticate and connect to the network whenever he will move between buildings. If the SSID's are same then he will not have to authenticate himself again and he will get automatic connectivity.

NEW QUESTION 117
A user cannot access the LAN after working successfully most of the day. Which of the following should the network administrator check FIRST?

A. VLAN settings
B. History logs
C. Patch cable
D. Port security

Answer: C

Explanation:
A patch cable or patch cord or patch lead is an electrical or optical cable used to connect ("patch- in") one electronic or optical device to another for signal routing.

NEW QUESTION 121
A small business owner is setting up a SOHO office. The business owner needs one device that will allow for Internet access, trunk VLANs, translate multiple private IP addresses into public IP addresses, and filter packets. Which of the following network devices will allow for all functions?

A. A VPN concentrator
B. A switch
C. A router
D. A firewall

Answer: C

Explanation:
A router is a device which is capable of performing entire task required by the business owner.

NEW QUESTION 125
Users have been stating that they need to logon to too many applications and web apps with different credentials that use different rule sets. Which of the following would BEST address these concerns?

A. Alter the domain account login policies to reflect the most common application rule sets.
B. Ensure that the user accounts are properly configured in domain services.
C. Implement a software solution that facilitates single sign-on authentication.
D. Increase the time between mandatory password changes by a factor of three.

Answer: C

Explanation:
A single signon permits a user to enter one name and password in order to access multiple applications

NEW QUESTION 126
Ann, a client, shares half of a rectangular floor plan with another company and wishes to set up a secure wireless network. The installed antenna limits the signal to her half of the floor. Through analysis, the frequency and channels of surrounding wireless networks have been determined and configuration changes made accordingly. Which of the following would be the NEXT step in setting up this secure wireless network?

A. Decrease signal strength on the antenna
B. Change the wireless channel on the WAP

C. Change the device placement to further obfuscate the signal
D. Set up encryption on the WAP and clients

Answer: D

Explanation:
The encryption will help the clients and server to uniquely identify themselves in an interfering environment.

NEW QUESTION 129
When a packet that is entering a switch port is encapsulated, which of the following is the switch performing?

A. 802.1q
B. Collision avoidance
C. Port mirroring
D. STP

Answer: A

Explanation:
Encapsulation is the term associated with 802.1q which is enabled by default on many devices.

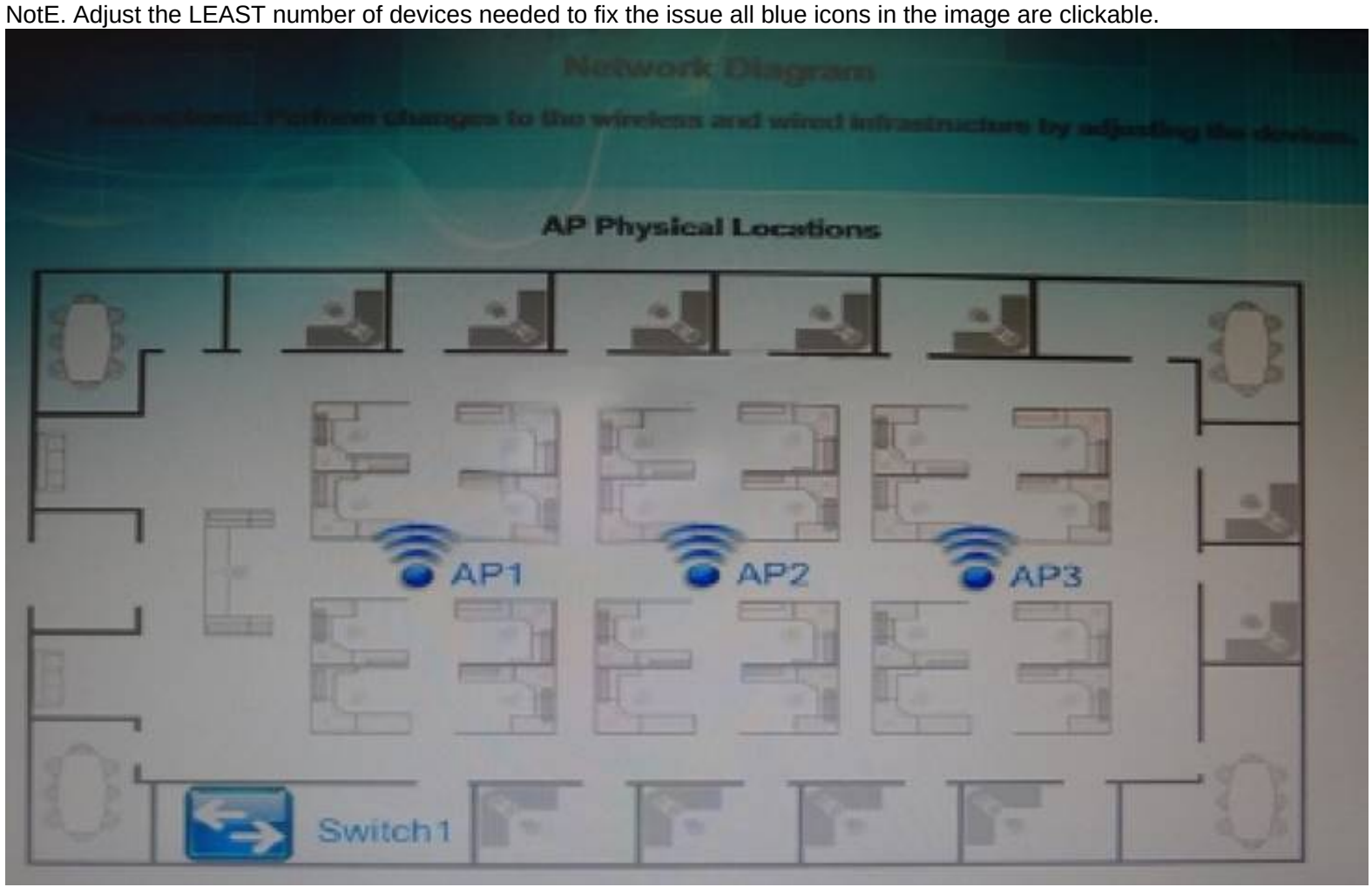
NEW QUESTION 131
Which of the following commands will provide an administrator with the number of hops a packet takes from host to host?

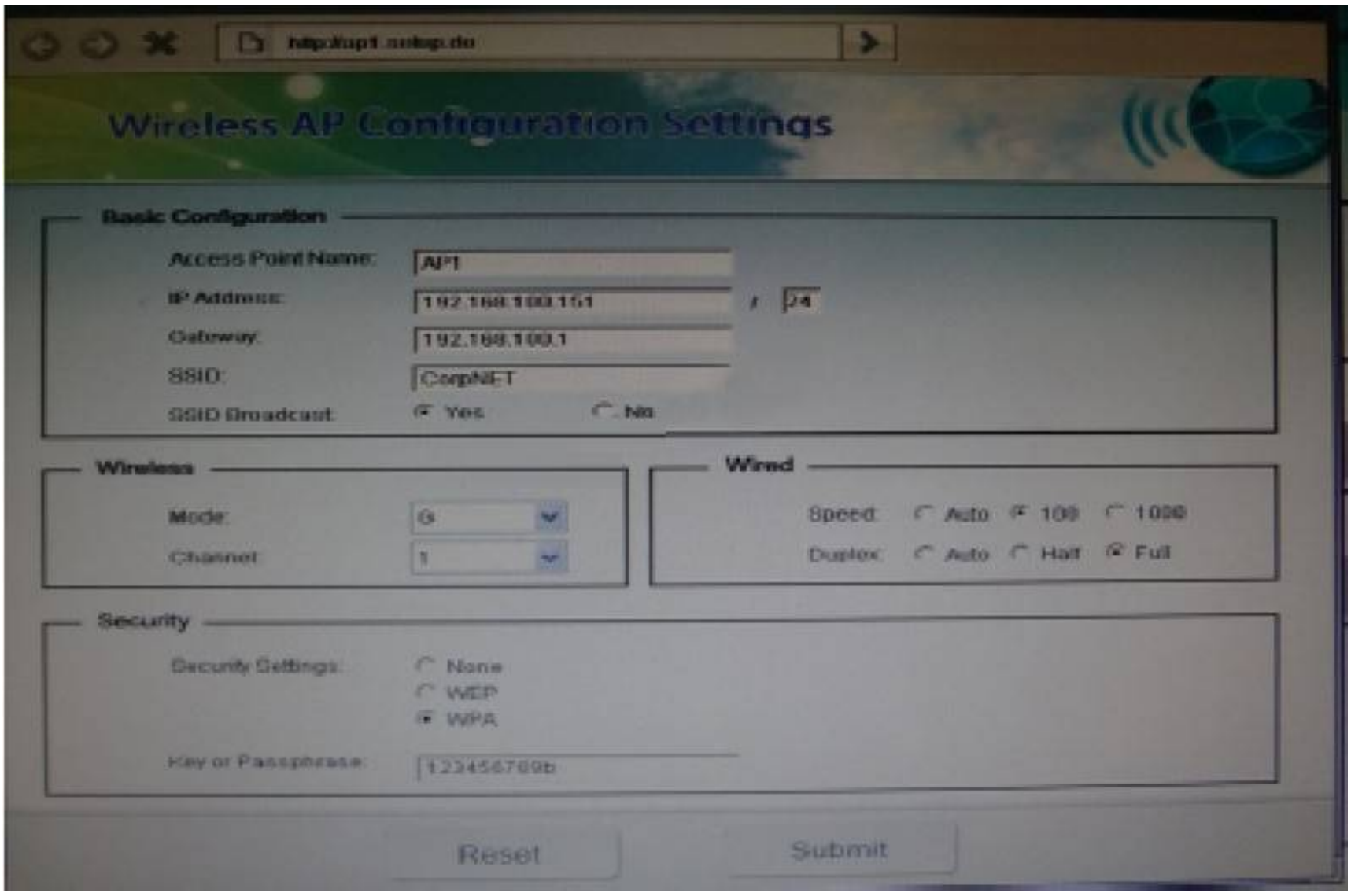
A. nslookup
B. ping
C. traceroute
D. route

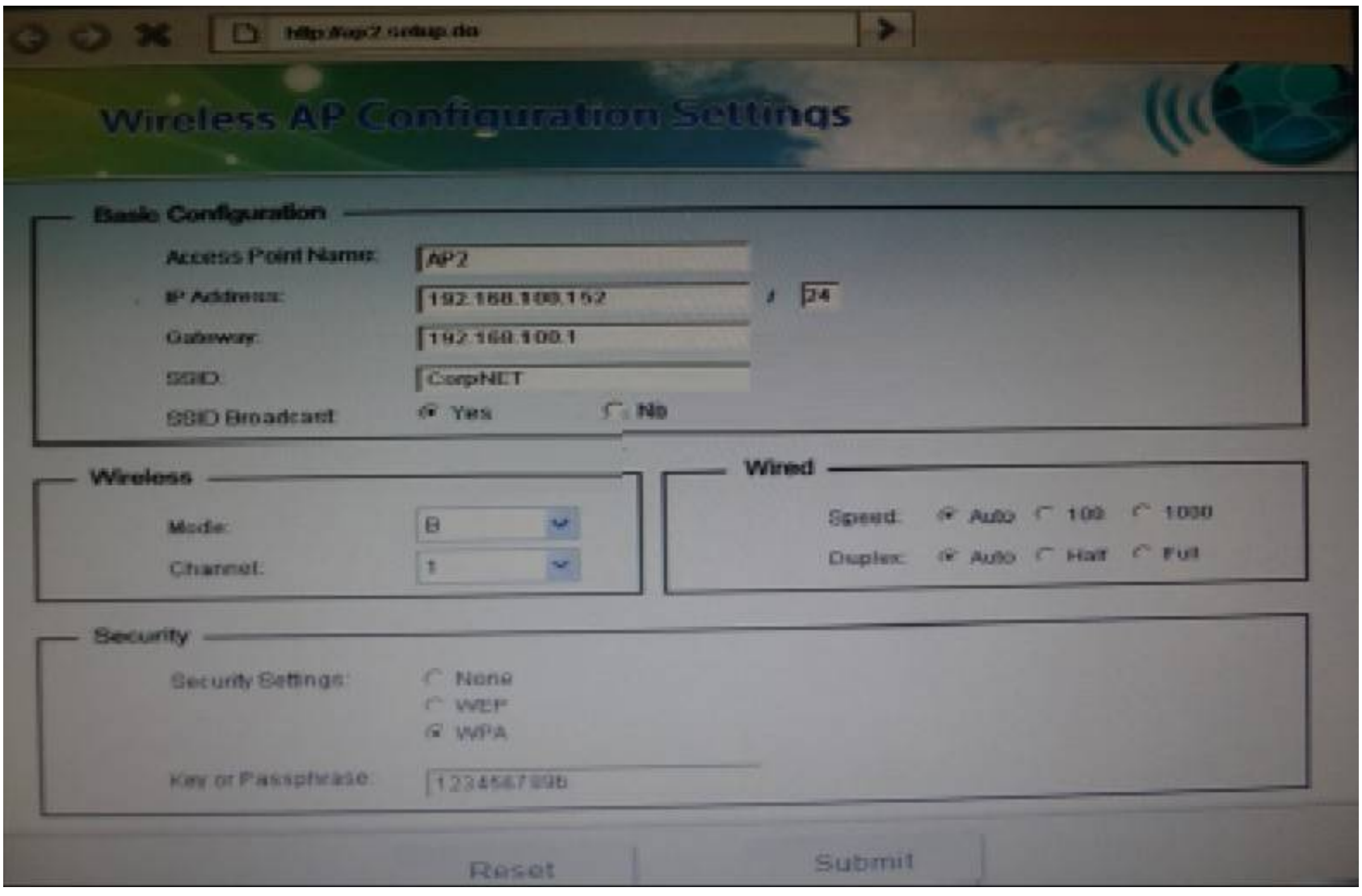
Answer: C

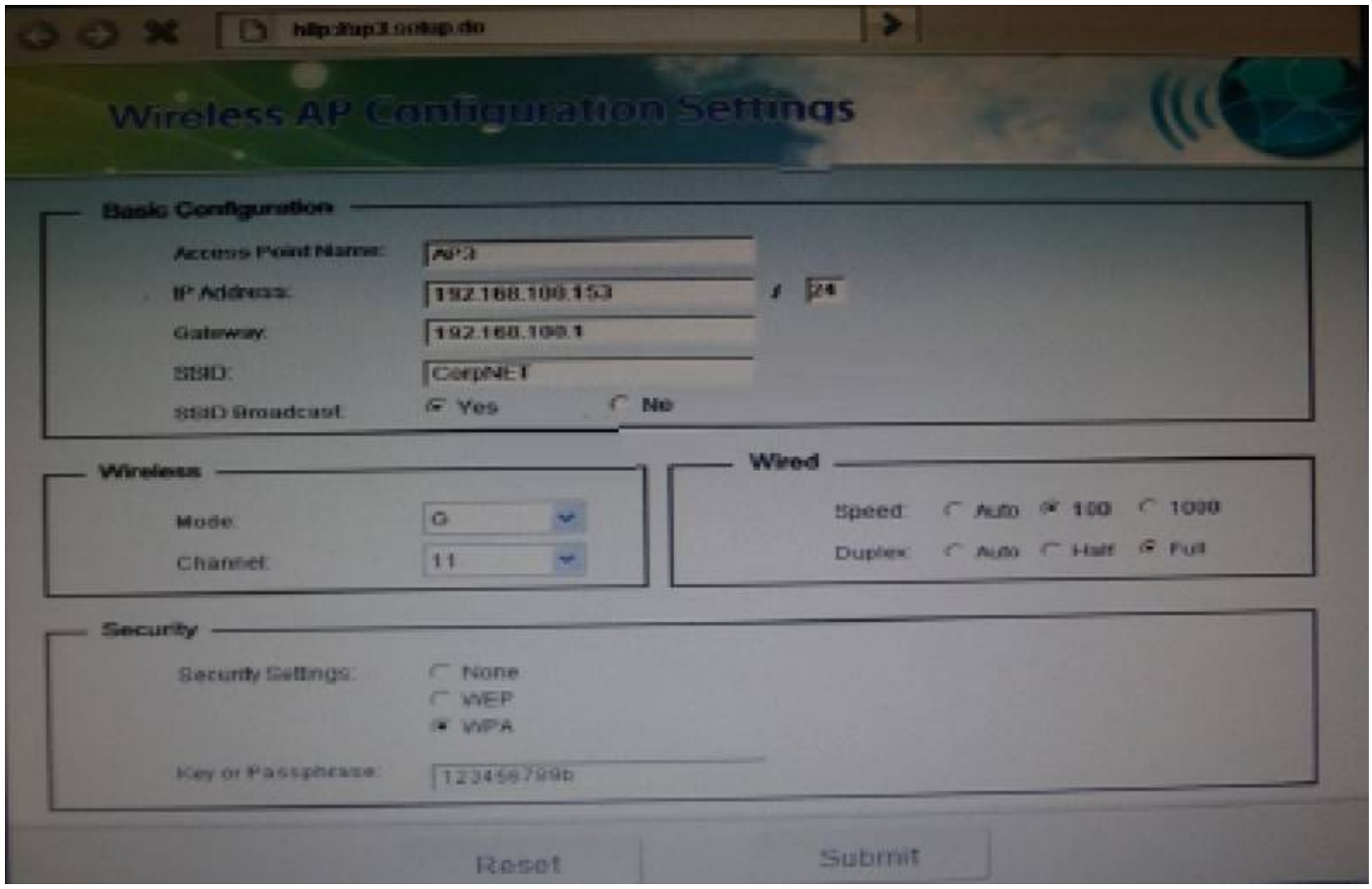
Explanation:
In computing, traceroute is a computer network diagnostic tool for displaying the route (path) and measuring transit delays of packets across an Internet Protocol (IP) network. The history of the route is recorded as the round-trip times of the packets received from each successive host (remote node) in the route (path); the sum of the mean times in each hop indicates the total time spent to establish the connection.

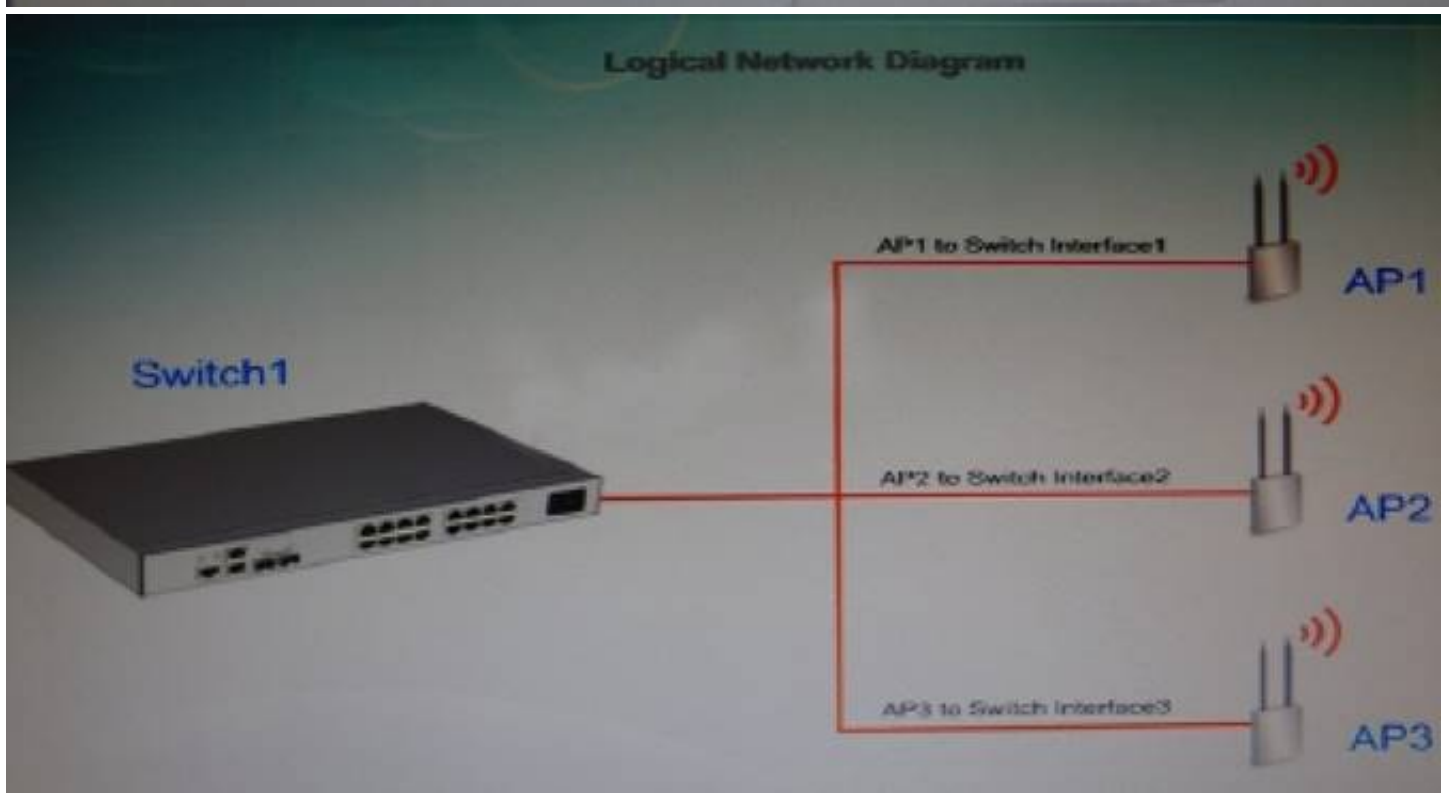
NEW QUESTION 136
CORRECT TEXT
Wireless network users recently began experiencing speed and performance issues after access point 2 (AP2) was replaced due to faulty hardware. The original network was installed according to a consultant's specifications and has always worked without a problem.
You a network technician, have been tasked with evaluating the situation and resolving the issues to improve both performance and connectivity. Refer to the following diagram and perform any Necessary changes to the wireless and wired infrastructure by adjusting devices.
NotE. Adjust the LEAST number of devices needed to fix the issue all blue icons in the image are clickable.




Wireless AP Configuration Settings
Basic Configuration
Access Point Name: AP1
IP Address: 192.168.100.151 / 24
Gateway: 192.168.100.1
SSID: CorpNET
SSID Broadcast: Yes No
Wireless
Mode: G
Channel: 1
Wired
Speed: Auto 100 1000
Duplex: Auto Half Full
Security
Security Settings: None WEP WPA
Key or Passphrase: 1234567890
Reset
Submit


Wireless AP Configuration Settings
Basic Configuration
Access Point Name: AP2
IP Address: 192.168.100.152 / 24
Gateway: 192.168.100.1
SSID: CorpNET
SSID Broadcast: Yes No
Wireless
Mode: B
Channel: 1
Wired
Speed: Auto 100 1000
Duplex: Auto Half Full
Security
Security Settings: None WEP WPA
Key or Passphrase: 1234567890
Reset
Submit





A. Mastered
B. Not Mastered

Answer: A

Explanation:
AP2 configuration is not correct. The wireless mode should be ‘G’ and channel should be ‘11’. For the wired interface, the speed should be set to 100 and duplex to ‘Full’. Click ‘Submit’.

NEW QUESTION 138
A user moves from one office to another. When the user logs onto their computer, it has local access to shared drives but no Internet access. A technician determines that the computer has an IP address in the wrong subnet. Which of the following is MOST likely the cause?

A. Incorrect VLAN
B. MTU mismatch
C. Hijacked HOSTS file
D. Missing routes

Answer: A

NEW QUESTION 143
Which of the following DHCP options is used to exclude IP addresses from being distributed to other computers?

A. Reservations
B. Suffixes

C. Leases
D. Gateways

Answer: A

NEW QUESTION 148
A new WAP is configured to only use 802.11g with SSID broadcasts enabled. The encryption is set to WPA and the key is given to the user. A user near the WAP is using a laptop equipped with a 5GHz wireless card and is not able to see the SSID. Which of the following is the problem?

A. Latency
B. Incorrect encryption type
C. EUI-64
D. Incompatible hardware

Answer: D

NEW QUESTION 152
Users have contacted the helpdesk stating that they have been having difficulties staying connected to the wireless network. They report that their laptops connect to one access point, drop the connection and then connect to a different access point in a never-ending cycle. Which of the following would BEST remediate this?

A. Reconfigure the access points from 802.11b to 802.11g.
B. Establish procedures which limit user connections during peak hours.
C. Configure the access points so that they all use different SSIDs.
D. Move one or more access points, minimizing signal overlap.

Answer: D

NEW QUESTION 154
A technician is setting up a wireless access point and wants to keep it as secure as possible. Which of the following settings should be configured for security purposes? (Select TWO).

A. Channel
B. Encryption
C. Diversity
D. SSID broadcast
E. Frequency

Answer: BD

NEW QUESTION 156
A network administrator is configuring PXE boot to reimage a computer lab. Which of the following must be configured on the existing DHCP server to specify the IP address of the imaging server from which the clients must boot?

A. Scope
B. Reservation
C. Option
D. Lease

Answer: C

NEW QUESTION 160
Which of the following antenna types has a flat circular radiation pattern?

A. Diversity
B. Yagi
C. Omni
D. Patch

Answer: C

NEW QUESTION 163
A new employee was given the following information to connect to the corporate wireless network for the first time:
SSID:CorporateWiFi Encryption:WPA2 Password:SuperSecret!
The user enters the correct SSID and notices that encryption type or password are not required when configuring the laptop in the office, and the laptop successfully connects to the Internet. When the user brings the laptop to the conference room, a pop-up asks for the CorporateWiFi password. Which of the following is the MOST likely cause of this behavior?

A. The laptop wireless network card is incompatible with the conference room WAP.
B. The office walls prevent the employee from making a full connection.
C. A rogue access point was installed by a company employee.
D. MAC filtering is only enabled in the conference room.

Answer: C

NEW QUESTION 168

A network administrator needs to configure a port on the switch that will enable all packets on a particular switch to be monitored. Which of the following would BEST complete this objective?

A. Traffic shaping
B. MAC filtering
C. Port mirroring
D. VLAN trunking

Answer: C

NEW QUESTION 172
Several users are reporting that they are unable to connect to the network. After further investigation, the network administrator notices that a newly configured Layer 2 device lost its configuration. Which of the following MOST likely caused the issue?

A. Wrong default gateway
B. Wrong DNS
C. Switching loop
D. Power failure

Answer: D

NEW QUESTION 177
A network administrator is planning to install wireless access points across the enterprise. Which of the following should be considered when installing at remote locations?

A. PoE
B. BSSID
C. MAC filtering
D. NAT

Answer: A

NEW QUESTION 179
An office has an 802.11a access point. A technician has been asked to identify devices that are compatible with this AP. Which of the following devices is MOST likely compatible?

A. An 802.1q SOHO router
B. An 802.11b tablet computer
C. An 802.11g laptop
D. An 802.11n smartphone

Answer: D

NEW QUESTION 184
An administrator notices that a computer on the network is unable to reach any of the servers by hostname. The computer has connectivity to the network and is able to ping all the devices by IP address. Which of the following can cause the error?

A. The workstation has a duplicate IP address.
B. The workstation has been assigned to the wrong VLAN.
C. The workstation has the wrong gateway configured.
D. The workstation has the wrong DNS configured.

Answer: D

NEW QUESTION 187
A company has installed a wireless network for visitors to use. They wish to give the visitors easy access to that network. Based on the configurations below, which of the following should the administrator change?
Access Point 1Access Point 2 802.11g802.11b
Encryption: WPA2Encryption: WEP Channel: 1Channel: 7
SSID. CompanyWiFiSSID. Visitor

A. Change the SSID on Access Point 2 to OPEN.
B. Disable SSID broadcasting on Access Point 1.
C. Change the encryption on Access Point 2 to WPA2.
D. Remove the WEP encryption from Access Point 2.

Answer: D

NEW QUESTION 188
A technician is attempting to set up a new laptop for a user. The user's old laptop connects to the corporate wireless network "CompanyWiFi" automatically. However, when the technician looks for the "CompanyWiFi" network on the new laptop, he does not find it in the list of available networks. Both laptops have 802.11g wireless network adapters and are sitting next to each other on the user's desk. Which of the following would MOST likely be the reason that the new laptop cannot see the "CompanyWiFi" network?

A. Loss of signal strength
B. Incorrect WEP key was input
C. RFID interference from other electronic devices

D. SSID broadcasting is disabled on the WAP

Answer: D

NEW QUESTION 191
A computer configured by DHCP has a listed DNS server and gateway. Which of the following allows these settings to be configured?

A. Reservations
B. Leases
C. Scopes
D. Options

Answer: D

NEW QUESTION 196
Joe, a vendor, walks into a customer's site with a laptop. While waiting for his contact to arrive, he wants to check his email. He discovers the SSID for the site's wireless network and receives a valid guest password from the receptionist. He is, however, unable to connect. Which of the following is MOST likely the problem?

A. The customer's wireless router uses WPA encryption.
B. The wireless router at the customer's site is configured with MAC filtering.
C. The customer's WAP uses WEP encryption.
D. The customer's IT department blocks all visitors from connecting to their network.

Answer: B

NEW QUESTION 200
A technician is troubleshooting a printing issue where some users in an office are unable to print. Which of the following should be the FIRST step in troubleshooting this issue?

A. Reboot each of the workstations
B. Ask users if anything changed in their environment recently
C. Advise users to move to a different office
D. Power cycle the printer

Answer: B

NEW QUESTION 201
Joe, a network technician, is asked to install a couple new WAP's inside a back warehouse that was added to a main warehouse facility that already has complete wireless coverage on both the 2.4GHz and 5GHz frequencies. Joe already has a complete wireless heat map of the main warehouse. Which of the following is the first step that Joe should do before choosing which WAP's to use?

A. Conduct a wireless survey of the back warehouse.
B. Ask the vendor that provided the WAP's for the main warehouse for recommendations.
C. Ask the systems administrator which WAP's are preferred.
D. Only order WAP's that support 5GHz channels.

Answer: A

NEW QUESTION 205
A technician is troubleshooting a network camera. The technician restarted the modem and now the camera is no longer available from a mobile device. Which of the following has MOST likely occurred?

A. The public IP address of the network has changed.
B. The camera has received a new firmware update.
C. The camera's secure shell has been disabled.
D. The router has changed the IP of the mobile device.

Answer: A

NEW QUESTION 209
A user informs the network administrator of increasingly common wireless connection problems. The administrator determines the user has recently received a new cordless phone. The phone is MOST likely causing which of the following conditions?

A. Signal strength latency
B. Bouncing signal
C. Interference
D. Crosstalk

Answer: C

NEW QUESTION 213
A user reports that they keep getting disconnected on the wireless network. After further investigation, the technician confirms that this occurs only in that user's office. Which of the following would MOST likely cause them to lose their connection?

A. Encryption type

B. Disabled wireless adapter
C. SSID mismatch
D. Interference

Answer: D

NEW QUESTION 215
An administrator would like to get more speed out of a wireless network. The administrator decides to configure the AP with a frequency width of 40MHz. Which of the following features is the administrator MOST likely using?

A. MIMO
B. AP isolation
C. Channel bonding
D. Burst mode

Answer: C

NEW QUESTION 216
A technician is installing a switch that will be used for VoIP and data traffic. The phones do not support the 802.3af standard. Which of the following should the technician configure on the switch?

A. VLAN
B. PoE
C. VTP
D. QoS

Answer: D

NEW QUESTION 221
A technician is installing a PoE switch for VoIP phones. Which of the following is the technician MOST likely going to configure on the switch?

A. NAT
B. QoS
C. PAT
D. DHCP

Answer: B

NEW QUESTION 222
Linking two or more switches together so that they can share VLAN information is known as which of the following?

A. Port replicating
B. Filtering
C. Trunking
D. Spoofing

Answer: C

NEW QUESTION 225
Which of the following copper cable types should be chosen to run gigabit speeds through a dropped ceiling that returns airflow?

A. Non-Plenum CAT5
B. Non-Plenum CAT5e
C. Plenum CAT5
D. Plenum CAT5e

Answer: D

Explanation:
Cat 5e is a twisted pair cable for carrying signals. This type of cable is used in structured cabling for computer networks such as Ethernet. The cable standard provides performance of up to 100 MHz and is suitable for 10BASE-T, 100BASE-TX (Fast Ethernet), and 1000BASE-T (Gigabit Ethernet).

NEW QUESTION 228
A technician tests a cable going to the patch panel and notices the following output from the cable tester:
1----------1
2----------2
3----------3
4----------4
5----------5
6----------6
7----------7
8----------8
On a T568A standard CAT5e cable, which of the following wire strands is the cause of this connectivity issue?

A. White Orange
B. Solid Brown
C. Solid Orange

D. White Green

Answer: D

Explanation:
T568A Wiring Pin
Pair Wire Color 1
3
1

white/green 2
3
2

green 3
2
1

white/orange 4
1
2

blue 5
1
1

white/blue 6
2
2

orange 7
4
1

white/brown 8
4
2

brown

NEW QUESTION 229
Users notice a problem with their network connectivity when additional lights are turned on. Which of the following would be the cause for this problem?

A. DDOS
B. Cross talk
C. Open short
D. EMI

Answer: D

Explanation:
External Machine Interface (EMI), an extension to Universal Computer Protocol (UCP), is a protocol primarily used to connect to short message service centres (SMSCs) for mobile telephones.

NEW QUESTION 233
A user does not have network connectivity. While testing the cable the technician receives the below reading on the cable tester:
1----------1
2----------2
3----------3
4----------4
5----------5
6----------6
7----------7
8----------8
Which of the following should the technician do NEXT?

A. Cable is a crossover, continue troubleshooting
B. Pin 3 is not used for data, continue troubleshooting
C. Pin 3 is not used for data, replace the NIC
D. Redo the cable's connectors

Answer: D

Explanation:
Incomplete/Incorrect Question.

NEW QUESTION 235
A CAT5e network cable run needs to be installed over fluorescent lighting arrays in an office building. Which of the following cable types would be BEST suited for such an installation?

A. UTP
B. Plenum
C. Coaxial
D. STP

Answer: D

Explanation:
Shielded twisted pair is a special kind of copper telephone wiring used in some business installations. An outer covering or shield is added to the ordinary twisted pair telephone wires; the shield functions as a ground.
Twisted pair is the ordinary copper wire that connects home and many business computers to the telephone company. To reduce crosstalk or electromagnetic induction between pairs of wires, two insulated copper wires are twisted around each other. Each signal on twisted pair requires both wires

NEW QUESTION 237
Which of the following defines a rack located in an office building between the main rack and other office equipment?

A. DSU
B. MDF
C. CSU
D. IDF

Answer: D

Explanation:
An intermediate distribution frame (IDF) is a distribution frame in a central office or
customer premises, which cross-connects the user cable media to individual user line circuits and may serve as a distribution point for multipair cables from the main distribution frame (MDF) or combined distribution frame (CDF) to individual cables connected to equipment in areas remote from these frames.
IDFs are used for telephone exchange central office, customer-premise equipment, wide area network (WAN), and local area network (LAN) environments, among others.

NEW QUESTION 240
Which of the following WAN technologies has the HIGHEST latency?

A. ADSL
B. LTE
C. Satellite
D. WiMAX

Answer: C

Explanation:
Satellite WAN latency is the delay caused by the physical distance a signal must travel from earth, to the satellite, and back to earth to complete a round-trip transmission. Because of the physics involved in the round-trip-time (RTT), end-to-end latency can take 600 milliseconds or more due to geosynchronous satellites orbiting miles above the earth.

NEW QUESTION 241
Which of the following technologies can cause interference for 802.11g?

A. RADAR
B. 802.11a
C. IrDA
D. Bluetooth

Answer: D

Explanation:
This wireless communication standard has a maximum transmission speed of 54 Mbits per second and a typical indoor range of 30 meters. It uses the 2.4 GHz band. This band may have to deal with interference from cordless telephones, Bluetooth devices, and various appliances.

NEW QUESTION 242
Which of the following wireless technologies only uses the 5GHz spectrum but reaches a theoretical throughput of only 54Mbps?

A. A
B. B
C. G
D. N

Answer: A

Explanation:

* 802.11a standard uses the same core protocol as the original standard, operates in 5 GHz band, and uses a 52-subcarrier orthogonal frequency-division multiplexing (OFDM) with a maximum raw data rate of 54 Mbit/s, which yields realistic net achievable throughput in the mid-20 Mbit/s. The data rate is reduced to 48, 36, 24, 18, 12, 9 then 6 Mbit/s if required.

NEW QUESTION 244
Multiple networked devices running on the same physical hardware that provide central access to applications and files, where each device runs as a piece of software are known as:

A. Virtual desktops.
B. Switches.
C. PBXs.
D. Virtual servers.

Answer: D

Explanation:
A Virtual server, usually a Web server, that shares computer resources with other virtual servers. In this context, the virtual part simply means that it is not a dedicated server -- that is, the entire computer is not dedicated to running the server software

NEW QUESTION 248
Which of the following wireless standards would BEST allow a company to utilize new and old devices on the 5GHz spectrum while allowing for the highest possible speeds?

A. A
B. B
C. G
D. N

Answer: D

Explanation:
* 802.11n is an amendment which improves upon the previous 802.11 standards by adding multiple-input multiple-output antennas (MIMO). 802.11n operates on both the 2.4 GHz and the lesser used 5 GHz bands

NEW QUESTION 253
An administrator needs to install a WAP in a location where there is no electrical wiring. Which of the following should the administrator use to complete a successful installation?

A. Coaxial
B. Wireless bridge
C. PoE
D. Multimode fiber

Answer: C

Explanation:
PoE provides both data and power connections in one cable, so equipment doesn't require a separate cable for each need.

NEW QUESTION 257
Which of the following standards can operate at 40MHz channel spacing?

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

Answer: D

NEW QUESTION 260
A consultant has been hired to wire a simple small office of ten computers to a layer 2 Ethernet 100BaseT switch. Which of the following cabling will be needed for the installation?

A. Multimode fiber
B. RG-59 coaxial
C. CAT6a
D. CAT3

Answer: C

NEW QUESTION 264
Which of the following is the radio frequency and data rate for 802.11g as specified by the IEEE standards?

A. 2.0 GHz at 33 Mbps
B. 2.4 GHz at 54 Mbps
C. 2.4 GHz at 128 Mbps
D. 5.0 GHz at 54 Mbps

Answer: B

NEW QUESTION 266
Which of the following 802.3 classifications has a MAXIMUM segment distance of 984 feet (300 meters)?

A. 1000Base
B. 100BaseFX
C. 1000BaseSX
D. 1000BaseT

Answer: C

NEW QUESTION 270
Which of the following is MOST likely used with RG-6 media?

A. MTRJ
B. RJ-11
C. RJ-45
D. F-connector

Answer: D

NEW QUESTION 271
Which of the following is a requirement for bridging with 802.11a?

A. WPA encryption
B. Governmental licenses
C. High gain yagi antennas
D. Clear line of sight

Answer: D

NEW QUESTION 276
The network technician needs to install fiber cabling to connect two buildings less than 984 feet (300 meters) apart. Which of the following fiber types should be installed?

A. Singlemode
B. Multimode
C. Crossover
D. F-Connector

Answer: B

NEW QUESTION 278
The phone company has provided a channelized T1 line. Which of the following should this line be connected to?

A. Switch
B. CSU/DSU
C. IDF
D. MDF

Answer: B

NEW QUESTION 279
Which of the following WAN technologies utilizes an optical SONET carrier and has a maximum bandwidth of 155.54Mbps?

A. DS3
B. E3
C. OC3
D. T3

Answer: C

NEW QUESTION 283
Which of the following cables supports 10Gbps throughput and 100 meters as the maximum distance?

A. T1 crossover
B. Singlemode fiber
C. CAT6a
D. Coaxial

Answer: C

NEW QUESTION 286

Which of the following characteristics allows an 802.11g WAP to have transfer speeds up to 108Mbps?

A. MIMO technology
B. Channel bonding
C. Encryption type
D. Frequency

Answer: B

NEW QUESTION 291
A company is connected to an ISP, but owns the premise router with an internal CSU/DSU. Which of the following is considered the demarc?

A. Premise router
B. ISP router
C. Smart jack
D. CSU/DSU

Answer: C

NEW QUESTION 292
A small office needs to connect one new system to their network in a distant office, but does not have the resources to install a new Ethernet wall jack, and does not want to use wireless. Which of the following is a simple, cost effective option for providing connectivity?

A. SONET
B. Multimode fiber
C. 802.11n
D. Broadband over Power Line

Answer: D

NEW QUESTION 293
Which of the following is used for SONET connections and requires a wavelength of 1310nm?

A. 10GBASECX4
B. 10GBASELX4
C. 10GBASELW
D. 10GBASESR

Answer: C

NEW QUESTION 295
The cost of installing fiber cable in a factory environment is too high. Which of the following cables should be used to minimize the effect of EMI?

A. CAT6
B. UTP
C. Coaxial
D. Crossover

Answer: C

NEW QUESTION 298
Which of the following wireless standards has a MAXIMUM speed of only 1Mbps?

A. IrDA
B. 802.11b
C. 802.11g

Answer: C

NEW QUESTION 299
Which of the following is used to allow multiple sources on a single optical cable?

A. HSPA+
B. MIMO
C. DWDM
D. SONET

Answer: C

NEW QUESTION 302
Which of the following 802.11 standards can operate at both 2.4Ghz and 5.0Ghz?

A. a
B. b
C. g

D. n

Answer: D

NEW QUESTION 304
Which of the following cable types use pins 1 and 2 to transmit and 3 and 6 to receive?

A. Coaxial
B. Crossover
C. Multimode fiber
D. Straight-though

Answer: D

NEW QUESTION 308
A technician is tasked with replacing some older RS-232 serial printers. Which of the following ports would the technician most likely find on these printers?

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

Answer: B

NEW QUESTION 309
An 802.11a wireless network is functioning at which of the following frequencies?

A. 1.0 GHz
B. 1.5 GHz
C. 2.4 GHz
D. 5.0 GHz

Answer: D

NEW QUESTION 314
CAT6 has how many twisted copper pairs?

A. 2
B. 4
C. 6
D. 8
E. 16

Answer: B

NEW QUESTION 316
Which of the following would be considered a Demarc extension?

A. A patch cable connecting a cable modem with a wireless router
B. Patch panel wiring
C. Punch down block wiring
D. Copper wire connecting the main PSTN point of entry to a wall data outlet

Answer: D

NEW QUESTION 320
A VoIP system running over a wireless network link is continually being reported as choppy. Which of the following is the cause of this issue?

A. Frequency
B. Latency
C. Interference
D. Encryption type

Answer: B

NEW QUESTION 321
A network administrator wants to balance the amount of data between two networking cards. Which of the following can be used for two or more networking cards?

A. NIC bonding
B. Proxy server
C. Firewall ACLs
D. VLANs

Answer: A

NEW QUESTION 325
Which of the following allows 802.11n higher transfer speeds than the previous wireless standards?

A. Dual frequency
B. Enhanced encryption
C. MIMO technology
D. Backwards compatibility

Answer: C

NEW QUESTION 327
In a SOHO environment, placing a VoIP unit on the outside edge of a LAN router enhances which of the following network optimization methods?

A. Load balancing
B. Quality of service
C. Fault tolerance
D. Traffic shaping

Answer: B

Explanation:
In unified communication video, voice, data have only one end gateway so to give priority to avoid delay in voice and video we use Qos.

NEW QUESTION 328
Which of the following will allow a technician to monitor all network traffic when connected to a mirror port?

A. VLAN tags
B. SNMP
C. Packet sniffer
D. Syslog

Answer: C

Explanation:
Mirror port just send the packet to the port which is selected to grab the packet of any destination port to capture that packets we need packet sniffer.

NEW QUESTION 333
An administrator is using a packet sniffer to try to determine what is causing the traffic on the network. The administrator sees a lot of packets on port 25. Which of the following traffic types is MOST likely using port 25?

A. SMTP
B. SSH
C. DNS
D. TELNET

Answer: A

Explanation:
Port no. 25 is assigned to smtp as documented by iana.

NEW QUESTION 337
A user has network connectivity per the link lights on the NIC, but cannot access any network resources or the Internet. Which of the following commands should the technician run FIRST?

A. arp
B. ipconfig
C. tracert
D. route

Answer: B

Explanation:
As from ipconfig command technician will come to know wheather he has assigned right ip address to NIC or not.

NEW QUESTION 341
In order to discover the currently unknown IP address of the next-hop router, a network administrator would begin by using which of the following tools?

A. NMAP
B. ping
C. nslookup
D. tracert

Answer: D

NEW QUESTION 342

A network administrator wants to see what ports are open on a server. Which of the following commands will show open ports?

A. netstat
B. tracert
C. nbtstat
D. nslookup

Answer: A

Explanation:
Netstat command displays various network related information such as network connections, routing tables, interface statistics, masquerade connections, multicast memberships etc.

NEW QUESTION 347
A customer with a SOHO requires fast, secure, cost-effective access to the Internet. Which of the following would be the MOST appropriate solution? (Select TWO).

A. OC3 line with built-in firewall
B. DS3 line with a separate firewall
C. Cable modem with a separate firewall
D. Dial-up modem with separate firewall
E. DSL router with firewall capabilities

Answer: CE

NEW QUESTION 348
Joe, a remote user, has called the helpdesk with an issue on his machine. The technician would like to remote into the machine for troubleshooting but does not know the IP address or host name. Which of the following commands can the technician ask Joe to execute to gain this information?

A. netstat
B. ipconfig
C. ping
D. traceroute

Answer: B

Explanation:
As ipconfig command will give the information which is assigned to nic for communication so that technician will contact joe with his ip.

NEW QUESTION 352
Which of the following allows an administrator to reference performance and configuration information if there is a problem on the network?

A. Wire schemes
B. Change management
C. Network diagrams
D. System baselines

Answer: D

Explanation:
System baseline is the record line or changes record that administrator keep to match the effect after new configuration with previous configuration.

NEW QUESTION 355
Which of the following devices can be utilized to monitor and block websites accessible by a company?

A. WINS server
B. DNS server
C. Content filter
D. Reverse proxy

Answer: C

Explanation:
On the Internet, content filtering (also known as information filtering) is the use of a program to screen and exclude from access or availability Web pages or e-mail that is deemed objectionable. Content filtering is used by corporations as part of Internet firewall computers and also by home computer owners, especially by parents to screen the content their children have access to from a computer.

NEW QUESTION 360
An organization finds that most of the outgoing traffic on the network is directed at several Internet sites viewed by multiple computers simultaneously. Which of the following performance optimization methods would BEST alleviate network traffic?

A. Load balancing internal web servers
B. Redundant network resources
C. Implement fault tolerance on the WAN
D. Implement caching engines

Answer: D

Explanation:
A cache server is a dedicated network server or service acting as a server that saves Web pages or other Internet content locally. By placing previously requested information in temporary storage, or cache, a cache server both speeds up access to data and reduces demand on an enterprise's bandwidth.

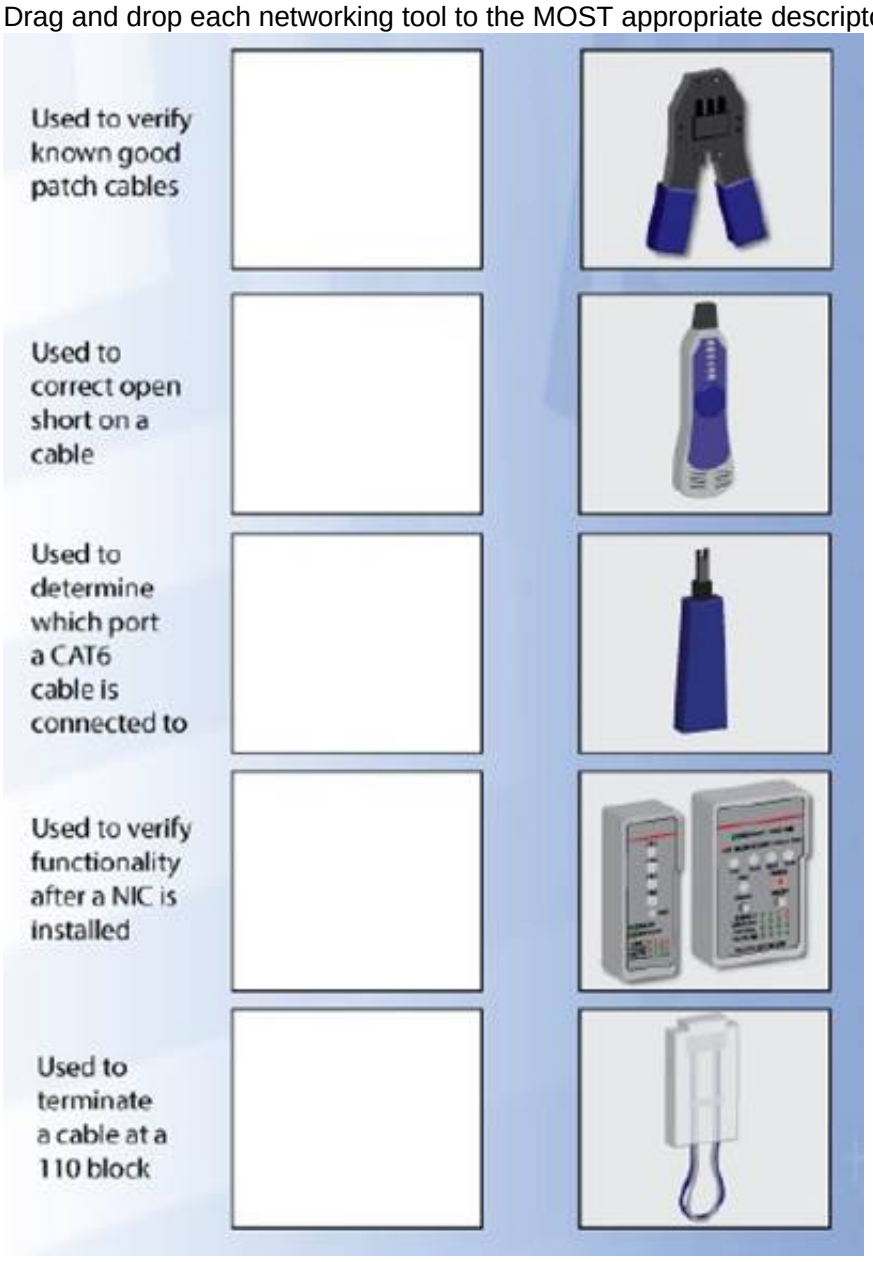
NEW QUESTION 365
Which of the following methods would be implemented to correct a network slowdown caused by excessive video streaming?

A. Traffic shaping
B. Proxy server
C. VPN concentrator
D. High availability

Answer: A

Explanation:
As traffic shaping will prioritize the video packets over another packets and then video packets will travel fast on bandwidth.

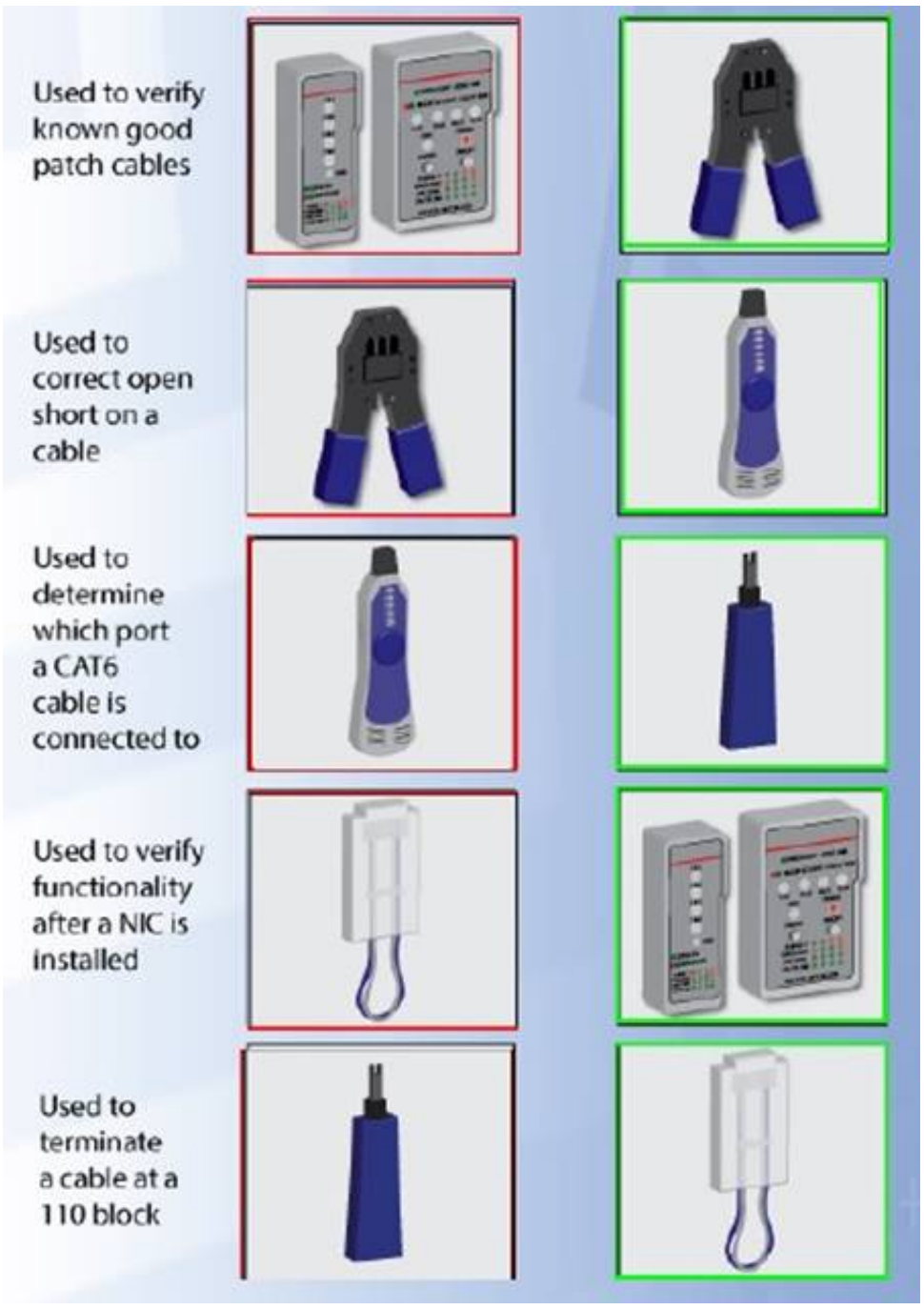
NEW QUESTION 369
DRAG DROP
Drag and drop each networking tool to the MOST appropriate descriptor. Each tool may only be used once.



A. Mastered
B. Not Mastered

Answer: A

Explanation:



NEW QUESTION 373
A company needs to find a way to best route latency-sensitive traffic appropriately on an already congested network. Which of the following would be BEST suited for this purpose?

A. QoS
B. PPPoE
C. RADIUS
D. VPN

Answer: A

NEW QUESTION 377
Which of the following BEST describes a load balancer?

A. A device that splits traffic between multiple nodes of a clustered service.
B. A device that allows multiple computers to access the internet through a single public IP address.
C. A device that filters internet content based on rules and ACLs.
D. A device that separates users onto separate WAPs for even distribution.

Answer: A

NEW QUESTION 382
A large company has experienced Internet slowdowns as users have increased their use of the Internet. Which of the following can the Network Administrator use to determine the amount of bandwidth used by type of application?

A. Network maps
B. Traffic analysis
C. Syslog
D. ICMP

Answer: B

NEW QUESTION 387
Which of the following can determine the last time an address lease was renewed on a network device?

A. System log
B. Packet sniffer
C. Time domain reflectometer

D. Stateful packet filter

Answer: A

NEW QUESTION 392
Which of the following requires congestion to occur before enabling traffic prioritization?

A. Quality of Service
B. IGMP snooping
C. Flow control
D. WAN optimization

Answer: A

NEW QUESTION 393
When dealing with high bandwidth applications such as VoIP and VTC, which of the following network performance optimization tools should be implemented to ensure BEST performance?

A. Fault tolerance
B. Load balancing
C. Caching engines
D. QoS

Answer: D

NEW QUESTION 394
A technician is upgrading the wiring in an older office building. The building currently contains some CAT3, CAT5, and CAT6 cables. The technician cannot visually distinguish between the cables because they are all the same color. Which of the following tools would help the technician determine which wires are the CAT3 and CAT5 cables needing to be replaced with CAT6 ones?

A. Cable certifier
B. Toner probe
C. Cable tester
D. Crimper

Answer: A

NEW QUESTION 396
A computer has lost network connectivity. The network technician determines the network cable and the cable drop are both good. Which of the following would the technician use to test the computer's NIC?

A. Cable certifier
B. Throughput tester
C. Loopback plug
D. Multimeter

Answer: C

NEW QUESTION 397
A technician has been tasked with planning and implementing a new wired-only network for a small office. A hardware list has been compiled, but the technician is unsure about the final necessary item. Which of the following will BEST complete the small wired network setup?
(1) 1000 foot CAT6 spool
(1) crimper
(1) 16 port gigabit switch
(20) RJ-45 connectors
(12) RJ-45 wall jacks
(1)

A. Compression tool
B. Punch down tool
C. Network map
D. Multimeter

Answer: B

NEW QUESTION 402
There has been an increase in Help Desk tickets related to web portal user accounts being locked out. Which of the following resources would be used to analyze the issue?

A. Router logs
B. Protocol analyzer
C. Firewall logs
D. Application logs

Answer: D

NEW QUESTION 407
A technician is having trouble identifying a computer on a network. The technician has the IP address of the computer, but needs to find the hostname of the computer. Which of the following commands should the technician use?

A. ipconfig /a
B. ping -t
C. ping -a

Answer: C

NEW QUESTION 410
A technician discovers that the throughput of sales traffic on the primary connection is constantly reaching maximum level, and the sales users are beginning to report slowness while accessing cloud based applications. The technician allows traffic to use the secondary connection so that traffic would share both connections. This is an example of which of the following?

A. QoS
B. Caching engines
C. Traffic shaping
D. Load balancing

Answer: D

NEW QUESTION 411
An administrator has been experiencing slower than normal performance on a server. The administrator suspects that a developer is currently uploading large files to it from an internal network PC. Which of the following will display established connections to the server on the FTP port?

A. ifconfig
B. nslookup
C. netstat
D. arp

Answer: C

NEW QUESTION 415
Which of the following can be used to prioritize network streams to optimize performance for certain traffic types?

A. VLAN
B. VPN
C. QoS
D. PoE

Answer: C

NEW QUESTION 419
A technician needs to verify the time of a power outage. Which of the following may be used to determine this information?

A. Network baseline
B. Tracert
C. System logs
D. Protocol analyzer

Answer: C

NEW QUESTION 424
A server that filters traffic between a WAN and a LAN is which of the following?

A. Proxy server
B. RAS server
C. Default gateway
D. Email server

Answer: A

NEW QUESTION 428
A technician is troubleshooting a host name being directed to the wrong system. The ‘arp –a’ command line utility is used to identify and display which of the following?

A. All TCP/IP connections and listening ports
B. Internet-to-adapter translation tables
C. Information to help diagnose DNS issues
D. Active sockets and connections

Answer: B

NEW QUESTION 432

The company is setting up a new website that will be requiring a lot of interaction with external users. The website needs to be accessible both externally and internally but without allowing access to internal resources. Which of the following would MOST likely be configured on the firewall?

A. PAT-
B. DHCP--
C. DMZ--
D. NAT--

Answer: C

Explanation:
DMZ-is a physical or logical subnetwork that contains and exposes an
organization's external-facing services to a larger and untrusted network, usually the Internet. The
purpose of a DMZ is to add an additional layer of security to an organization's local area network (LAN); an external attacker only has access to equipment in the DMZ, rather than any other part of the network.

NEW QUESTION 437
Which of the following can a network technician change to help limit war driving?

A. Signal strength
B. SSID
C. Frequency
D. Channel

Answer: A

Explanation:
War driving is a term used to describe the process of a hacker who, armed with a laptop and a wireless adapter card and traveling via a car, bus, subway train, or other form of mechanized transport, goes around sniffing for WLANs. Over time, the hacker builds up a database comprising the network name, signal strength, location, and ip/namespace in use..

NEW QUESTION 441
A company wants to secure its WAPs from unauthorized access. Which of the following is the MOST secure wireless encryption method?

A. SSID disable
B. SNMPv3
C. WEP
D. WPA2

Answer: D

Explanation:
WPA2 improves security of Wi-Fi connections by not allowing use of an algorithm called TKIP (Temporal Key Integrity Protocol) that has known security holes (limitations) in the original WPA implementation.

NEW QUESTION 442
A customer wants to increase firewall security. Which of the following are common reasons for implementing port security on the firewall? (Select TWO).

A. Preventing dictionary attacks on user passwords
B. Reducing spam from outside email sources
C. Shielding servers from attacks on internal services
D. Blocking external probes for vulnerabilities
E. Directing DNS queries to the primary server

Answer: CD

Explanation:
Port security is required because if we keep the ports unsecure then hackers can do port scanning and can compromise the internal secured network so we will have to shield servers to avoid attacks from outside and we need to block incoming scanning request coming from outside.

NEW QUESTION 445
Which of the following appliances creates and manages a large number of secure remote-access sessions, and also provides a high availability solution?

A. Media converter
B. Proxy server
C. VPN concentrator
D. Load balancer

Answer: C

Explanation:
The VPN Concentrator is used for Remote Access VPN's that allows users to use an encrypted tunnel to securely access a corporate or other network via the Internet.

NEW QUESTION 449
A network administrator is performing a penetration test on the WPA2 wireless network. Which of the following can be used to find the key?

A. DoS
B. Buffer overflow
C. Dictionary file
D. SQL injection

Answer: C

Explanation:
A file used by the debugger. It contains information about a program's structure and contents. The
Compiler creates the dictionary file in the first phase of compilation, when checking the syntax. A dictionary file has the filename extension .idy, and is often referred to an .idy file.

NEW QUESTION 451
Which of the following can be used to compromise a WPA encrypted wireless network when the rainbow table does not contain the key?

A. Evil twin
B. War chalking
C. Buffer overflow
D. Virus

Answer: A

Explanation:
An evil twin is the wireless version of the phishing scam. An attacker fools wireless users into connecting a laptop or mobile phone to a tainted hotspot by posing as a legitimate provider.This type of evil twin attack may be used to steal the passwords of unsuspecting users by either snooping the communication link or by phishing, which involves setting up a fraudulent web site and luring people there.

NEW QUESTION 453
A system administrator is implementing an IDS on the database server to see who is trying to access the server. The administrator relies on the software provider for what to detect. Which of the following would MOST likely be installed?

A. Behavior based IDS
B. Network based IDS
C. Signature based IDS
D. Honeypot

Answer: C

Explanation:
Signature detection involves searching network traffic for a series of bytes or packet sequences known to be malicious. A key advantage of this detection method is that signatures are easy to develop and understand if you know what network behavior you're trying to identify.

NEW QUESTION 456
A vendor releases an emergency patch that fixes an exploit on their network devices. The network administrator needs to quickly identify the scope of the impact to the network. Which of the following should have been implemented?

A. Change management
B. Asset management
C. Network sniffer
D. System logs

Answer: B

Explanation:
Asset management is defined as the business practice of managing and optimizing the purchase, deployment, maintenance, utilization, and disposal of hardware and software applications within an organization.

NEW QUESTION 461
Which of the following allows a malicious attacker to view network traffic if the attacker is on the same network segment as Joe, an administrator?

A. DoS attack
B. Man-in-the-middle attack
C. Smurf attack
D. Xmas attack

Answer: B

Explanation:
An attack where a user gets between the sender and receiver of information and sniffs any information being sent. In some cases, users may be sending unencrypted data, which means the man-in-the-middle (MITM) can obtain any unencrypted information. In other cases, a user may be able to obtain information from the attack, but have to unencrypt the information before it can be read.

NEW QUESTION 463
Stateful packet inspection is a security technology used by which of the following devices?

A. Unmanaged switch
B. Hardware firewall

C. Bridge
D. IDS

Answer: B

Explanation:
With Stateful Packet Inspection (SPI), every time a packet is sent out of the computer, the firewall keeps track of it. When a packet comes back to the firewall, the firewall can tell whether or not the in-bound packet is a reply to the packet that was sent out.This way, the firewall can handle most network traffic safely without a complex configuration of firewall rules.

NEW QUESTION 467
Which of the following protocols is used to provide secure authentication and encryption over non- secure networks?

A. RADIUS
B. TLS
C. PPTP
D. HTTP

Answer: B

NEW QUESTION 472
Which of the following attack types is being used if the originating IP address has been spoofed?

A. Ping flood
B. Trojan
C. Smurf
D. Worm

Answer: C

NEW QUESTION 474
Which of the following provides RSA encryption at the session layer?

A. SSH
B. ISAKMP
C. SSL
D. TLS

Answer: C

NEW QUESTION 477
Which of the following provides the STRONGEST security for a tunneled connection over the Internet?

A. RDP
B. SMTP
C. RAS
D. IPSec

Answer: D

NEW QUESTION 481
Which of the following are authentication methods that can use AAA authentication? (Select TWO).

A. Kerberos
B. PKI
C. TKIP/AES
D. MS-CHAP
E. RADIUS
F. TACACS+

Answer: EF

NEW QUESTION 485
Which of the following protocols provides a secure connection between two networks?

A. L2TP
B. IPSec
C. PPP
D. PPTP

Answer: B

NEW QUESTION 486
A company wants to simplify network authentication for their users. Which of the following would be used to implement wireless security with single sign-on?

A. WPA2 enterprise
B. WEP
C. Stateful firewall
D. PAT

Answer: A

NEW QUESTION 490
Which of the following protocols can be implemented to provide encryption during transmission between email gateways?

A. TLS
B. PPTP
C. SSH
D. HTTPS

Answer: A

NEW QUESTION 493
A user wants to send information and ensure that it was not modified during transmission. Which of the following should be implemented?

A. MAC filtering
B. Digital signatures
C. MS-CHAP
D. CHAP

Answer: B

NEW QUESTION 494
A network administrator is tasked with blocking unwanted spam which is being relayed by an internal email server. Which of the following is the FIRST step in preventing spam that is originating from bots on the network?

A. Closing off port 25 on the firewall
B. Closing off port 53 on the firewall
C. Turning off the SMTP service on the email server
D. Turning off the IMAP service on the email server

Answer: A

NEW QUESTION 495
A network manager is interested in a device that watches for threats on a network but does not act on its own, and also does not put a strain on client systems. Which of the following would BEST meet these requirements?

A. HIDS
B. NIDS
C. NIPS
D. HIPS

Answer: B

NEW QUESTION 499
A technician notices that guests have plugged their laptops into a network wall jack located in the conference room. Which of the following could the technician implement in order to ensure that ONLY employees are able to access network resources?

A. Port mirroring
B. VTP configuration
C. MAC address filtering
D. Traffic filtering

Answer: C

NEW QUESTION 501
A server administrator, Ann, is deploying a server that she wants to mitigate intrusions from zero day exploits. Which of the following should be deployed?

A. Behavior based IPS
B. Signature based IDS
C. Antivirus software
D. Access Control Lists

Answer: A

NEW QUESTION 505
A user authenticated to more than one website using their same credentials is an example of:

A. Multifactor authentication
B. User access control

C. Two-factor authentication
D. Single sign-on

Answer: D

NEW QUESTION 510
Encryption provides which of the following to data being transferred across the network?

A. Confidentiality
B. Resistance to Jitter
C. High Availability
D. Data Integrity

Answer: A

NEW QUESTION 513
Malicious users have used multiple workstations to target a single server with the intent of preventing legitimate users from accessing the server. This server suffered which of the following types of attack?

A. DDoS
B. Trojan
C. Cross-site scripting
D. Man in the middle
E. Replay attack

Answer: A

NEW QUESTION 516
Which of the following should be mitigated by employing proper coding techniques when developing software?

A. Distributed denial of service attacks
B. Buffer overflows
C. War driving
D. Packet sniffing

Answer: B

NEW QUESTION 521
A company is experiencing a denial of service attack and wants to identify the source IP address of the attacker in real time. Which method is the BEST way to accomplish this?

A. Network sniffer
B. Syslog
C. SNMPv3
D. System logs

Answer: A

NEW QUESTION 524
A firewall that detects and prevents attacks from outside the network based on learned data patterns can BEST be described as which of the following?

A. Signature based IDS
B. Behavior based IPS
C. Host based IPS
D. Network based IDS

Answer: B

NEW QUESTION 527
A user reports sporadic network outages. The user tells the administrator it happens after approximately 20 minutes of work on an application. The administrator should begin troubleshooting by checking which of the following?

A. The IDS server logs
B. The DNS resolution time
C. The firewall’s blocked logs
D. The patch cable

Answer: D

NEW QUESTION 530
A company has a total of two public IP addresses and must allow 150 devices to connect to the Internet at the same time. Which of the following is the BEST option for connectivity?

A. VLSM
B. NAT

C. CIDR
D. PAT

Answer: D

NEW QUESTION 532
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