

CompTIA

Exam Questions N10-007

CompTIA Network+ N10-007



NEW QUESTION 1

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 2

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 3

- (Exam Topic 1)

A technician needs to set up a workstation with a private static address. Which of the following IP address would meet this requirement? (Select TWO).

- A. 65.78.90.102
- B. 127.0.0.1
- C. 169.254.90.19
- D. 172.16..1.103
- E. 172.33.47.100
- F. 192.168.1.55

Answer: DE

NEW QUESTION 4

- (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 5

- (Exam Topic 1)

A new building needs to be joined to an existing network, but management has decided that running fiber is too expensive. Since the buildings are bout 1000ft (305m) apart, the IT department has been asked to propose alternatives. Which of the following is the BEST device to add to each building to facilitate the extension of the network while meeting budgetary demands?

- A. Switch
- B. Router
- C. Media converter
- D. PTP wireless

Answer: D

NEW QUESTION 6

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 7

- (Exam Topic 1)

A technician is sent to a remote office to set up a device to connect to the internet. The company Standard document requires stateful inspection.

Which of the following should the technician install?

- A. ROUTER
- B. Multilayer switch
- C. Firewall
- D. Bridge

Answer: C

NEW QUESTION 8

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 9

- (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 10

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 10

- (Exam Topic 1)

A technician is assigned to secure a basic wireless network. Which of the following authentication protocol should the technician use to performed this task (select TWO).

- A. RDP
- B. SNMP
- C. WPA2
- D. EAP SSL

Answer: CD

NEW QUESTION 12

- (Exam Topic 1)

A technician is troubleshooting network connectivity issue with a remote host. Which of the following tools would BEST between the client and the remote host?

- A. tracer
- B. ping
- C. tcpdump
- D. pathping
- E. netstate
- F. nslookup
- G. route

Answer: EF

NEW QUESTION 13

- (Exam Topic 1)

A technician is troubleshooting network connectivity issues with a remote host. Which of the following tools would BEST inform the technician of nodes between the client and the remote host? (Choose two.)

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

Answer: AD

NEW QUESTION 15

- (Exam Topic 1)

Which of the following are characteristics of jumbo frames? (Choose two.)

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

Answer: AB

NEW QUESTION 19

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 24

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 26

- (Exam Topic 1)

A disgruntled employee executes a man-in-the-middle attack on the company network. Layer 2 traffic destined for the gateway is redirected to the employee's computer. This type of attack is an example of:

- A. ARP cache poisoning
- B. IP spoofing
- C. amplified DNS attack
- D. evil twin

Answer: A

NEW QUESTION 31

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 35

- (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 38

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 39

- (Exam Topic 1)

A forensic first responder arrives at the scene where an employee is suspected to have committed a computer-based crime. Which of the following should the first responder do FIRST?

- A. Document the scene
- B. Take pictures upon arrival
- C. Secure the area
- D. Implement chain of custody

Answer: C

NEW QUESTION 43

- (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 44

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 47

- (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 52

- (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. Honeypot

Answer: A

NEW QUESTION 57

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 58

- (Exam Topic 1)

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

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

Answer: BE

NEW QUESTION 61

- (Exam Topic 1)

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

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

Answer: E

NEW QUESTION 64

- (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 68

- (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 72

- (Exam Topic 1)

A system administrator receives report from users of odd behavior in regard to recently installed server. While reviewing the server network configuration, the systems administrator does both a forward and a reverse DNS lookup on the host, along with the network adapter configuration.


```
$ host server.company.com
server.company.com has address 129.168.0.100
server.company.com is handled by 100 mail.company.com
$ host 192.168.0.100
100.0.168.192.in-addr.arpa domain name pointer web.company.com
$ host web.company.com
server.company.com has address 129.168.0.50
server.company.com is handled by 100 mail.company.com
$ ifconfig -a
eth0Link encap:Ethernet HWaddr 00:30:48:9D:06:73
Inet addr:192.168.0.100 Bcast:192.168.0.255 Mask:255.255.255.0
UP BROADCAST RUNNING MULTICAST MTU:1500 Metric:1
lo0Link encap:Local Loopback
inet addr:127.0.0.1 Mask:255.0.0.0
UP LOOPBACK RUNNING MTU:16436 Metric:1
```

Which of the following is the problem identified in the output above?

- A. There is no reverse DNS entry for this host.
- B. The server IP address is incorrectly configured.
- C. The DNS lookup entry is incorrectly configured.
- D. The reverse DNS entry is pointing to a different host.

Answer: C

NEW QUESTION 76

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 77

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 79

- (Exam Topic 1)

A technician is setting up a direct connection between two older PCs so they can communicate but not be on the corporate network. The technician does not have access to a spare switch but does have spare Cat 6 cables, RJ-45 plugs, and a crimping tool. The technician cuts off one end of the cable. Which of the following should the technician do to make a crossover cable before crimping the new plug?

- A. Reverse the wires leading to pins 1 and 2
- B. Reverse the wires leading to pins 1 and 3
- C. Reverse the wires leading to pins 2 and 3
- D. Reverse the wires leading to pins 2 and 4

Answer: D

NEW QUESTION 80

- (Exam Topic 1)

The server team has just installed an application across three different servers. They are asking that all requests to the application are spread evenly across the three servers. Which of the following should the network team implement to fulfil the request?

- A. Proxy server
- B. UTM appliance
- C. Content filter
- D. Load balancer

Answer: D

NEW QUESTION 85

- (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 89

- (Exam Topic 1)

A network technician notices the site-to-site VPN and Internet connection have not come back up at a branch office after a recent power outage. Which of the following is an out-of-band method the technician would MOST likely utilize to check the branch office's router status?

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

Answer: A

NEW QUESTION 92

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 95

- (Exam Topic 1)

Which of the following is the number of broadcast domain that are created when using an unmanaged 12-port switch?

- A. 1
- B. 2
- C. 6
- D. 12

Answer: B

NEW QUESTION 96

- (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 101

- (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 105

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 110

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 113

- (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 116

- (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 120

- (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 122

- (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 126

- (Exam Topic 1)

A contractor is setting up and configuring conference rooms for a convention. The contractor sets up each room in the conference center to allow wired Internet access going to individual tables. The contractor measured the distance between the hotel's patch panel to the jack, and the distance is within Cat 5e specifications. The contractor is concerned that the room will be out of specification if cables are run in each room from the wall jacks. Which of the following actions should the contractor take to ensure the cable runs meet specifications and the network functions properly?

- A. Place a switch at the hotel's patch panel for connecting each room's cables
- B. Place a switch on each table to ensure strong connectivity

- C. Place repeaters between the patch panel and the rooms
- D. place a switch at the wall jack and run the cables in the room from there

Answer: A

NEW QUESTION 127

- (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 128

- (Exam Topic 1)

Ann, a new employees within a department, cannot print to any of the printers in the department or access any of the resources that other can. However, she can access the internet. The network engineer has confirmed that Ann's has been set up same as the others. There are no access lists restricting Ann's access.

Which of the following cloud be the issue for this lack of access?

- A. Duplex/speed mismatch
- B. VLAN mismatch
- C. DNS server issue
- D. DHCP server issue
- E. Spanning tree blocked ports

Answer: B

NEW QUESTION 132

- (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 135

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 140

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 144

- (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 149

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 153

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 154

- (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 159

- (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 164

- (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 167

- (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 172

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 175

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 176

- (Exam Topic 1)

A customer is reporting difficulty connecting some devices after replacing a wireless router with a new wireless 802.11ac router. The SSID, encryption and password are the same as the previous router. A technician goes on-site and notices the devices that are no longer connecting appear to be several years ago. Which of the following is MOST likely the problem?

- A. the password needs to be re-entered.
- B. there is a security type mismatch.
- C. there is insufficient antenna power.
- D. there is a frequency mismatch.
- E. the channel has changed.

Answer: D

NEW QUESTION 177

- (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 179

- (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 182

- (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 183

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 188

- (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.

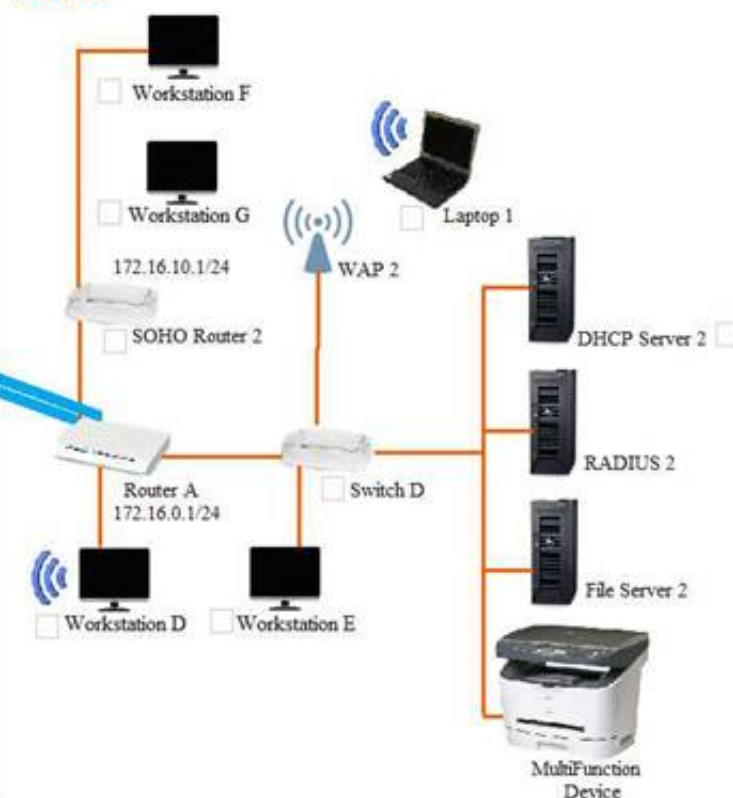
Site A and B Network Diagram

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

SITE A



SITE B



WORKSTATION A

IP Address	172.30.0.10
Netmask	255.255.255.0
Gateway	172.30.0.1

OK

WORKSTATION B

IP Address	172.30.0.14
Netmask	255.255.255.0
Gateway	172.30.0.1

OK

WORKSTATION C

IP Address	169.254.200.67
Netmask	255.255.255.0
Gateway	

OK

WORKSTATION D

IP Address	172.16.0.221
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

WORKSTATION E

IP Address	172.16.0.21
Netmask	255.255.255.0
Gateway	172.16.0.1

OK

WORKSTATION F

IP Address	172.16.10.43
Netmask	255.255.255.0
Gateway	172.16.10.1

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

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 193

- (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 198

- (Exam Topic 1)

Which of the following would be the MOST efficient subnet mask for a point-to-point link?

- A. /28
- B. /29
- C. /31
- D. /32

Answer: C

NEW QUESTION 201

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 205

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 209

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 213

- (Exam Topic 1)

Which of the following protocols can be both connection-oriented and connectionless?

- A. 20 FTP
- B. 53 DNS
- C. 67 DHCP
- D. 80 HTTP

Answer: B

NEW QUESTION 217

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 221

- (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 223

- (Exam Topic 1)

Which of the following is networking stand-alone hardware that will permit any WIFI-compliant to connect to a wired network?

- A. Wireless hub
- B. Wireless firewall
- C. Wireless access point
- D. Wireless bridge

Answer: C

NEW QUESTION 225

- (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 226

- (Exam Topic 1)

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

- A. Perform file hashing

- B. Generate new keys
- C. Update firmware
- D. Change default credentials

Answer: B

NEW QUESTION 231

- (Exam Topic 1)

Which of the following is the SHORTEST way to write 2001:0000:0d58:0000:0000:0095:7565:0001 in proper IPv6 shorthand?

- A. 2001::d58::95:7565:1
- B. 2001:0:d58:0:0:95:7565:1
- C. 2001:0:d58::95:7565:1
- D. 2001:0:0d58::95:7565:1

Answer: C

NEW QUESTION 235

- (Exam Topic 1)

A network engineer is designing a new network for a remote site. The remote site consists of ten desktop computers, ten VoIP phones, and two network printers. In addition, two of the desktop computers at the remote site will be used by managers who should be on a separate network from the other eight computers. Which of the following represents the BEST configuration for the remote site?

- A. One router connected to one 24-port switch configured with three VLANs: one for the manager's computers and printer, one for the other computers and printer, and one for the VoIP phones
- B. Two routers with each router connected to a 12-port switch, with a firewall connected to the switch connected to the manager's desktop computers, VoIP phones, and printer
- C. One router connected to one 12-port switch configured for the manager's computers, phones, and printer, and one 12-port switch configured for the other computers, VoIP phones, and printer
- D. One router connected to one 24-port switch configured with two VLANs: one for the manager's computers, VoIP phones, and printer, and one for the other computers, VoIP phones, and printer

Answer: A

NEW QUESTION 236

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 240

- (Exam Topic 1)

A company is allowing its employees to use their personal computers, tables, and IoT devices while at work. However, there are rules and guidelines to which employees must adhere. Which of the following documents applies to these employees?

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

Answer: C

NEW QUESTION 243

- (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 247

- (Exam Topic 1)

A user reports that a laptop cannot connect to the Internet despite the fact the wireless Internet was functioning on it yesterday. The user did not modify the laptop

in any way, and the wireless Internet is functional on other users' laptops. Which of the following issues should be reviewed to help the user to connect to the wireless network?

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

Answer: A

NEW QUESTION 248

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 251

- (Exam Topic 1)

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

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

Answer: EFG

NEW QUESTION 253

- (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 258

- (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

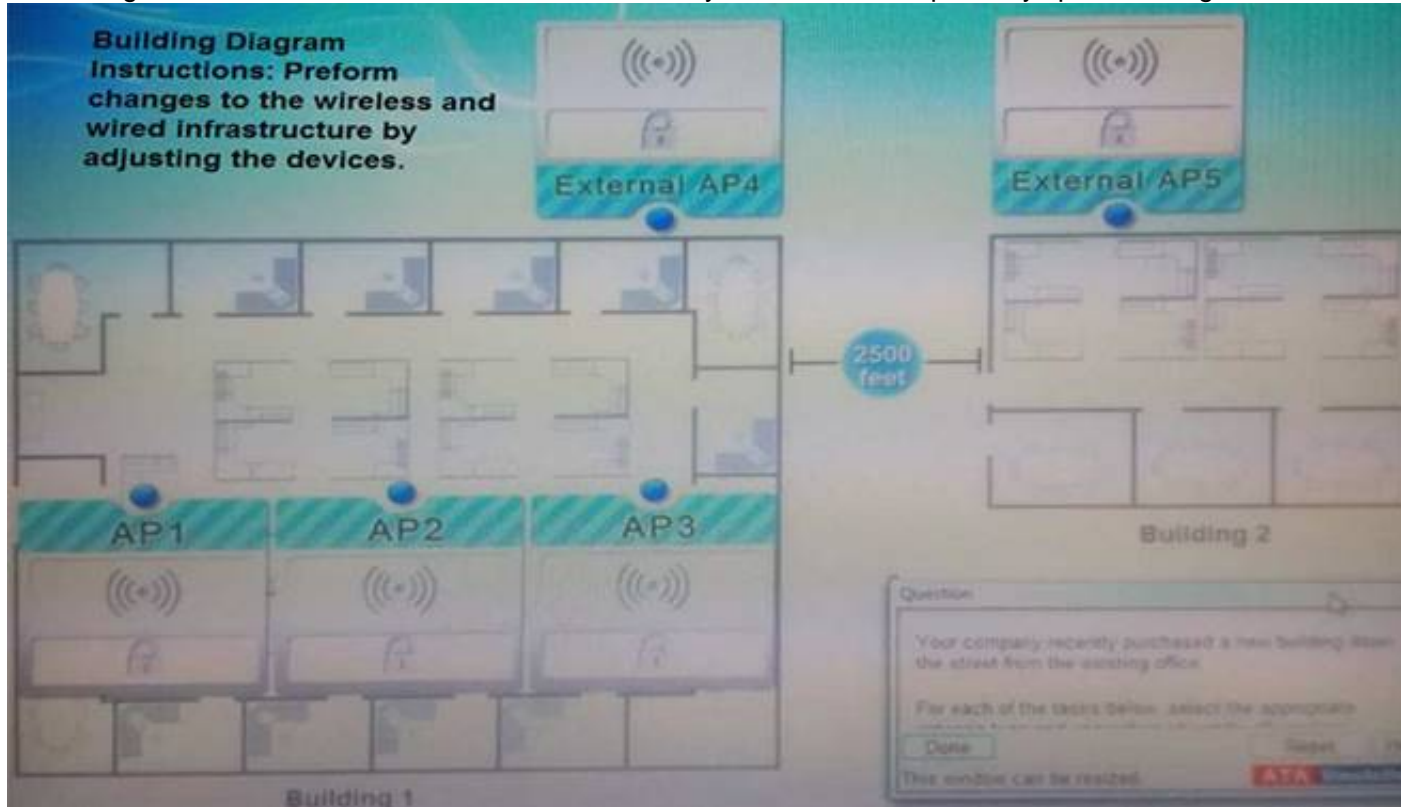
Answer: B

NEW QUESTION 260

- (Exam Topic 1)

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

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



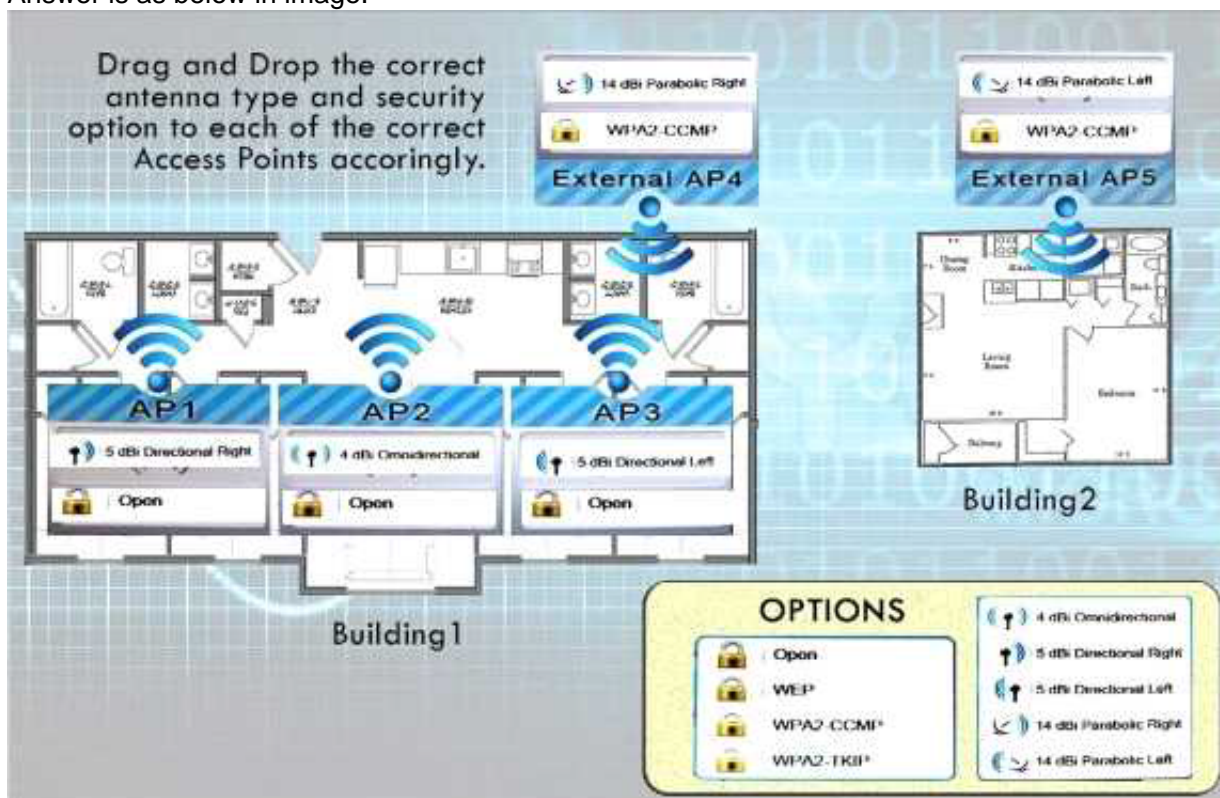
Instructions: When you have completed the simulation, select the Done button to submit.

- A. Mastered
- B. Not Mastered

Answer: A

Explanation:

Answer is as below in image.



NEW QUESTION 262

- (Exam Topic 2)

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

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

Answer: C

NEW QUESTION 263

- (Exam Topic 2)

Which of the following ports is the default telnet port?

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

Answer: D

NEW QUESTION 264

- (Exam Topic 2)

Which of the following mediums is circuit switched?

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

Answer: A

NEW QUESTION 266

- (Exam Topic 2)

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

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

Answer: A

NEW QUESTION 269

- (Exam Topic 2)

Which of the following is a secure way to connect to a device?

- A. RSH
- B. TFTP
- C. SNMPv2
- D. SFTP

Answer: D

NEW QUESTION 274

- (Exam Topic 2)

Use of group accounts should be minimized to ensure which of the following?

- A. Password security
- B. Regular auditing
- C. Baseline management
- D. Individual accountability

Answer: D

NEW QUESTION 276

- (Exam Topic 2)

Which of the following provides the use of a secure tunnel for telecommuting without manually installing and configuring encryption software?

- A. RDP
- B. SSL VPN
- C. ISAKMP
- D. TLS 2.0

Answer: B

NEW QUESTION 281

- (Exam Topic 2)

Which of the following cables will MOST likely be used to connect to a satellite dish?

- A. RG-6
- B. CAT5e
- C. Fiber
- D. CAT6

Answer: A

NEW QUESTION 286

- (Exam Topic 2)

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

- A. Anti-spam
- B. Anti-virus
- C. Host-based firewalls

D. Patch management

Answer: A

NEW QUESTION 290

- (Exam Topic 2)

Which of the following protocols is used to transmit outgoing email?

- A. RDP
- B. NTP
- C. POP3
- D. SMTP

Answer: D

NEW QUESTION 295

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 297

- (Exam Topic 2)

Lisa, a network administrator, needs to allow all websites to be accessible by the sales team for business purposes. Which of the following ports need to be enabled on the firewall? (Select TWO).

- A. 23
- B. 25
- C. 53
- D. 80
- E. 443

Answer: DE

NEW QUESTION 300

- (Exam Topic 2)

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

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

Answer: C

NEW QUESTION 304

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 308

- (Exam Topic 2)

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

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

Answer: A

NEW QUESTION 312

- (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 314

- (Exam Topic 2)

Which of the following is a proprietary routing protocol?

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

Answer: B

NEW QUESTION 317

- (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 318

- (Exam Topic 2)

Privilege creep among long-term employees can be mitigated by which of the following procedures?

- A. User permission reviews
- B. Mandatory vacations
- C. Separation of duties
- D. Job function rotation

Answer: A

NEW QUESTION 321

- (Exam Topic 2)

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

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

Answer: B

NEW QUESTION 325

- (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 326

- (Exam Topic 2)

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

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

Answer: B

NEW QUESTION 331

- (Exam Topic 2)

Which of the following routing protocols relies on hop count as its ONLY metric?

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

Answer: D

NEW QUESTION 336

- (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 339

- (Exam Topic 2)

Which of the following is the MOST economical way for Sandy, a technician, to implement 10- Gigabit Ethernet at a datacenter?

- A. 10GBaseLR
- B. 10GBaseSR
- C. 10GBaseX
- D. 10GBaseT

Answer: D

NEW QUESTION 344

- (Exam Topic 2)

An organization has installed a new firewall. Users need to have access to remote websites and must be able to use SSH to retrieve files from remote locations.

Which of the following actions should be taken on the new firewall? (Select TWO).

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

Answer: EF

NEW QUESTION 349

- (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 353

- (Exam Topic 2)

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

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

Answer: A

NEW QUESTION 358

- (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 361

- (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 365

- (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 368

- (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 372

- (Exam Topic 2)

A new firewall was recently installed blocking SMTP traffic. As a result, no one has Internet access. Which of the following has MOST likely occurred?

- A. Port security is blocking all traffic.
- B. An IDS is blocking all traffic.
- C. Implicit deny is blocking all traffic.
- D. SMTP is blocking all traffic.

Answer: C

NEW QUESTION 375

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 380

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 381

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 382

- (Exam Topic 2)

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

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

Answer: B

NEW QUESTION 384

- (Exam Topic 2)

Which of the following is true about an IP address if the first bit is a one and the second bit is a zero?

- A. The address is a Class A address.
- B. The address is a Class B address.
- C. The address is a Class C address.
- D. The address is a Class D address.

Answer: B

NEW QUESTION 389

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 394

- (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 395

- (Exam Topic 2)

Which of the following technologies is required to allow all ports of a single private IP to be publically accessible via a single public IP?

- A. NAT
- B. RIP
- C. PAT
- D. ACL

Answer: C

NEW QUESTION 397

- (Exam Topic 2)

Which of the following describes a DNS server?

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

Answer: A

NEW QUESTION 398

- (Exam Topic 2)

Which of the following protocols uses port 3389?

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

Answer: D

NEW QUESTION 402

- (Exam Topic 3)

A new monitoring device is installed in the network that uses ping to determine whether critical network Internet routers are up. After three missing pings, the alarm reports the device is down. The device is now constantly reporting alarms, yet there are no reported Internet problems from users. Which of the following is the MOST likely cause?

- A. A missing route on the alarm device.
- B. Incorrect VLAN assignment on the router.
- C. A missing route on the network routers.
- D. Incorrect speed/duplex setting on the alarm device.

Answer: D

NEW QUESTION 407

- (Exam Topic 3)

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

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

Answer: B

NEW QUESTION 408

- (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 412

- (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 416

- (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 418

- (Exam Topic 3)

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

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

Answer: C

NEW QUESTION 419

- (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 421

- (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 424

- (Exam Topic 3)

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

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

Answer: D

NEW QUESTION 427

- (Exam Topic 3)

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

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

Answer: B

NEW QUESTION 429

- (Exam Topic 3)

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

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

Answer: C

NEW QUESTION 430

- (Exam Topic 3)

Which of the following methods limits access to a network based on characteristics of the network card?

- A. IP filtering
- B. MAC filtering
- C. Port filtering
- D. Encryption

Answer: B

NEW QUESTION 434

- (Exam Topic 3)

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

- A. Toner probe

- B. Punch down
- C. Wire tester
- D. Crimper

Answer: B

NEW QUESTION 435

- (Exam Topic 3)

A technician wants to connect a new wireless router to a main network switch. Which of the following cable types would MOST likely be used to establish this connection?

- A. Telephone
- B. Parallel
- C. Serial
- D. CAT6

Answer: D

NEW QUESTION 440

- (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 444

- (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 446

- (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 450

- (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 451

- (Exam Topic 3)

Which of the following IP addresses would be classified as private?

- A. 10.100.200.0
- B. 169.253.10.20
- C. 172.168.5.0
- D. 200.100.25.0

Answer: A

NEW QUESTION 456

- (Exam Topic 3)

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

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

Answer: D

NEW QUESTION 461

- (Exam Topic 3)

A Windows server has a problem after booting up. Kim, a technician, should immediately check the:

- A. history logs.
- B. cron logs.
- C. application logs.
- D. system logs.

Answer: D

NEW QUESTION 465

- (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 467

- (Exam Topic 3)

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

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

Answer: AD

NEW QUESTION 468

- (Exam Topic 3)

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

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

Answer: A

NEW QUESTION 470

- (Exam Topic 3)

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

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

Answer: A

NEW QUESTION 473

- (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 476

- (Exam Topic 3)

Which of the following is networking stand-alone hardware that will permit any WiFi-compliant device to connect to a network?

- A. Wireless hub
- B. Wireless firewall
- C. Wireless access point
- D. Wireless bridge

Answer: C

NEW QUESTION 477

- (Exam Topic 3)

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

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

Answer: D

NEW QUESTION 482

- (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 485

- (Exam Topic 3)

A network administrator wants to monitor traffic by deploying MIBs. Which of the follow network monitoring resources would be used?

- A. SCTP
- B. Packet sniffer
- C. DCCP
- D. SNMP

Answer: D

NEW QUESTION 489

- (Exam Topic 3)

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

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

Answer: B

NEW QUESTION 492

- (Exam Topic 3)

An 801.11g wireless access point was configured as follows:

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

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

Answer: C

NEW QUESTION 496

- (Exam Topic 3)

The network optimization process used to allow reasonable use of data, voice, and video on the same network infrastructure is called:

- A. CARP
- B. QoS
- C. Traffic shaping.
- D. Fault tolerance.

Answer: B

NEW QUESTION 499

- (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 500

- (Exam Topic 3)

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

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

Answer: A

NEW QUESTION 502

- (Exam Topic 3)

Kim, a network administrator, should consult which documentation sources FIRST to determine the cause of recent network issues?

- A. Network map
- B. Cable management
- C. Change management
- D. Asset management

Answer: C

NEW QUESTION 505

- (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 506

- (Exam Topic 3)

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

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

Answer: D

NEW QUESTION 507

- (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 509

- (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 protocol 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 511

- (Exam Topic 3)

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

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

Answer: C

NEW QUESTION 516

- (Exam Topic 3)

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

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

Answer: A

NEW QUESTION 520

- (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 523

- (Exam Topic 3)

At which of the following layers of the OSI model do packets exist?

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

Answer: A

NEW QUESTION 524

- (Exam Topic 3)

Which of the following protocols is used to allow multiple hosts to share a common IP address?

- A. HTTPS
- B. ARP
- C. CARP
- D. NAT

Answer: D

NEW QUESTION 525

- (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 528

- (Exam Topic 3)

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

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

Answer: B

NEW QUESTION 531

- (Exam Topic 3)

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

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

Answer: B

NEW QUESTION 533

- (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 538

- (Exam Topic 3)

Which of the following separates broadcast domains?

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

Answer: B

NEW QUESTION 540

- (Exam Topic 3)

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

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

Answer: C

NEW QUESTION 543

- (Exam Topic 3)

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

- A. IDF/MDF documentation
- B. Cable run label documentation
- C. network configuration documentation
- D. Performance baseline documentation

- E. Standard operating procedure documentation
- F. Change management documentation
- G. Rack diagram documentation

Answer: ACG

NEW QUESTION 547

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