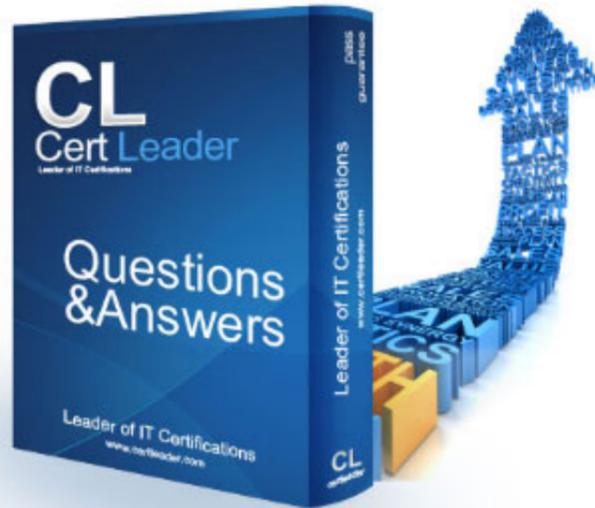


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NEW QUESTION 1

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 2

- (Exam Topic 1)

Which of the following DNS record types is an alias?

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

Answer: A

NEW QUESTION 3

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 4

- (Exam Topic 1)

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

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

Answer: D

NEW QUESTION 5

- (Exam Topic 1)

A 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 6

- (Exam Topic 1)

A user checks an IP address using an external website. The address is different than the one the user sees when opening a command prompt and typing in ipconfig/all. The user does not understand why the two tools show different IP addresses. This is BEST explained by the interworking of:

- A. network devices
- B. packet flow
- C. public/private networks
- D. traffic-routing protocols

Answer: C

NEW QUESTION 7

- (Exam Topic 1)

A technician is troubleshooting a point-to-point fiber-optic connection. The technician is at a remote site and has no connectivity to the main site. The technician confirms the switch and the send-and-receive light levels are within acceptable range. Both fiber SFPs are confirmed as working. Which of the following should the technician use to reveal the location of the fault?

- A. OTDR
- B. Light meter
- C. Tone generator
- D. CSU/DSU

Answer: A

NEW QUESTION 8

- (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 9

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 10

- (Exam Topic 1)

A network administrator wishes to ensure there are no unnecessary open communication paths into a server. Using a port scanner, the administrator finds that ports are reported as closed. Which of the following BEST explains this response?

- A. The ports belong to an active system and are denying requests
- B. The ports are associated with deprecated services
- C. The ports do not belong to a live system
- D. The ports replied with a SYN/ACK response

Answer: B

NEW QUESTION 10

- (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 13

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 14

- (Exam Topic 1)

A network technician is configuring a firewall access list to secure incoming connections to an email server. The internal address of this email server is 192.168.1.143. The firewall should allow external email servers to send email to the email server. The email server also supports client access via a web browser. Only secure protocols should be used, and only the necessary ports should be open. Which of the following ACL rules should be configured in the firewall's WAN port? (Choose two.)

- A. Permit 192.168.1.143.25
- B. Permit 192.168.1.143.80

- C. Permit 192.168.1.143.110
- D. Permit 192.168.1.143.143
- E. Permit 192.168.1.143.443
- F. Permit 192.168.1.143.587

Answer: EF

NEW QUESTION 16

- (Exam Topic 1)

A disgruntled employee decides to leak critical information about a company's new product. The employee places keyloggers on the department's computers, allowing the information to be sent out to the Internet. Which of the following attacks is occurring?

- A. Man-in-the-middle
- B. Logic bomb
- C. Insider threat
- D. Social engineering

Answer: C

NEW QUESTION 18

- (Exam Topic 1)

A network technician is connecting two switches together. Which of the following protocols should the technician use to increase speed and fault tolerance?

- A. SIP
- B. BGP
- C. LACP
- D. LLDP

Answer: C

NEW QUESTION 19

- (Exam Topic 1)

At which of the following OSI model layers would a router operate?

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

Answer: B

NEW QUESTION 22

- (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 27

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 32

- (Exam Topic 1)

A technician set up a new SOHO network recently. The installed router has four Ethernet ports; however the customer has seven devices that wired connections. Which of the following should the technician do to BEST meet the customer's requirements?

- A. Install a six-port switch
- B. Configure port forwarding on the router
- C. Install WAPs near the devices.
- D. Configure the switchports as EtherChannel ports.

Answer: A

NEW QUESTION 33

- (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 36

- (Exam Topic 1)

A network technician wants to remotely and securely access the desktop of a Linux workstation. The desktop is running remote control software without encryption. Which of the following should the technician use to secure the connection?

- A. SSH in tunnel mode
- B. RDP set to console connection
- C. EAP-PEAP
- D. SFTP

Answer: A

NEW QUESTION 40

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 41

- (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 42

- (Exam Topic 1)

A network technician is attempting to troubleshoot a connectivity issue. The issue is only reported during the evening hours, and only a single workstation loses connectivity. Which of the following is the MOST likely cause of the issue?

- A. The router has time-based ACL applied for the network segment.
- B. A light source is creating EMI interface, affecting the UTP.
- C. Nightly backups are consuming excessive bandwidth.
- D. The user has violated the AUP, and Internet access has been restricted

Answer: D

NEW QUESTION 45

- (Exam Topic 1)

Which of the following can be done to implement network device hardening (Select TWO).

- A. Implement spanning tree
- B. Perform VLAN hopping
- C. Patch and update
- D. Perform backups
- E. Enable port mirroring
- F. Change default admin password

Answer: CF

Explanation:

Network devices come with default credentials, the username and password that enables you to log into the device for configuration. Changing default credentials should be the first step in hardening a new device. As with any other system, avoiding common passwords adds security.

Keep network devices up to date. That means upgrading firmware, patching and updating as necessary to close any security gaps exposed over time.

Services on network devices like routers include common things, like Telnet and HTTP access; and also things you don't normally see, like TCP and UDP small services, debugging and testing tools that primarily use ports 20 and lower. If enabled, these services can be used to launch DoS and other attacks. All modern Cisco devices have these disabled; Cisco's hardening rules insist on disabling unnecessary services.

Using secure protocols hardens network devices. Don't use Telnet to access a managed switch or router, for example, but use SSH so that the communication is encrypted.

Disabling unused ports on network devices enhances port security for access control. This includes standard IP ports and device ports, both physical and virtual for the latter.

NEW QUESTION 46

- (Exam Topic 1)

A network administrator wants to ensure sensitive data is not exfiltrated from the system electronically. Which of the following should be implemented?

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

Answer: A

NEW QUESTION 49

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 51

- (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 55

- (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 56

- (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 57

- (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 58

- (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 63

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 65

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 69

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 73

- (Exam Topic 1)

Ann, a network technician, has just installed a fiber switch in a datacenter. To run the fiber cabling, Ann plans the cable route over the top of the rack using the cable trays, down to the switch, coiling up any excess cable. As Ann configures the switch, she notices several messages in the logging buffer stating the receive signal of the SFP is too weak. Which of the following is MOST likely the cause of the errors in the logging buffer?

- A. Bend radius exceeded
- B. Fiber cable mismatch
- C. Fiber type mismatch
- D. Bad fiber switch

Answer: A

NEW QUESTION 74

- (Exam Topic 1)

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

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

Answer: B

NEW QUESTION 75

- (Exam Topic 1)

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

```
Windows IP Configuration

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

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

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

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

Answer: B

NEW QUESTION 79

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 81

- (Exam Topic 1)

A network administrator wants to employ a username and password authentication system for guest WiFi. Which of the following is the BEST option to provide this type of authentication?

- A. port security
- B. MAC filtering
- C. Network access control
- D. Captive portal

Answer: D

NEW QUESTION 83

- (Exam Topic 1)

Which of the following protocols do MOST MITM attacks utilize?

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

Answer: A

NEW QUESTION 84

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 85

- (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 88

- (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 90

- (Exam Topic 1)

A network administrator needs to transmit traffic to geographically diverse sites to improve performance. Which of the following devices would BEST direct traffic to the remote sites?

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

Answer: D

NEW QUESTION 91

- (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 93

- (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 98

- (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 99

- (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 103

- (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 108

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 110

- (Exam Topic 1)

A technician is diagnosing an issue with a new T1 connection. The router is configured, the cable is connected, but the T1 is down. To verify the configuration of the router, which of the following tools should the technician use?

- A. Loopback adapter
- B. Cable tester
- C. Tone generator
- D. Multimeter

Answer: A

NEW QUESTION 115

- (Exam Topic 1)

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

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

Answer: B

Explanation:

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

NEW QUESTION 118

- (Exam Topic 1)

Which of the following devices, if implemented, would result in decreased administration time of an 802.11 network running centralized authentication services? (Choose two.)

- A. VPN concentrator
- B. Proxy server

- C. Wireless controller
- D. RADIUS server
- E. Multilayer switch

Answer: CD

NEW QUESTION 123

- (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 127

- (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 129

- (Exam Topic 1)

Which of the following WAN technologies is MOST preferred when developing a VoIP system with 23 concurrent channels?

- A. DSL
- B. POTS
- C. T1
- D. DOCSIS

Answer: C

NEW QUESTION 133

- (Exam Topic 1)

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

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

Answer: C

NEW QUESTION 136

- (Exam Topic 1)

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

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

Answer: A

NEW QUESTION 137

- (Exam Topic 1)

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

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

D. Plenum-rated cabling

Answer: D

NEW QUESTION 141

- (Exam Topic 1)

A web application is unable to authenticate customers so they can access their bills. The server administrator has tested the LDAP query but is not receiving results. Which of the following is the NEXT step the server administrator should take to correct the problem?

- A. Check port 636 to see if it being blocked.
- B. Change service port 636 to port 389.
- C. Restart the web server.
- D. Verify the browser is using port 443.

Answer: A

NEW QUESTION 144

- (Exam Topic 2)

Which of the following default ports would need to be disabled to block TFTP traffic?

- A. 20
- B. 21
- C. 69
- D. 123

Answer: C

NEW QUESTION 148

- (Exam Topic 2)

Tenants access multiple wireless networks in a building. Users report intermittent connectivity. Which of the following is the MOST likely cause of the problem?

- A. The channels are overlapping with other wireless networks and should be changed.
- B. The SSIDs are incompatible and should be renamed.
- C. The users have incompatible wireless network cards and should upgrade.
- D. The default idle period for logoff is too short and should be changed to a longer limit.

Answer: A

NEW QUESTION 151

- (Exam Topic 2)

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

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

Answer: A

NEW QUESTION 152

- (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 157

- (Exam Topic 2)

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

interface VLAN 105

IP address 192.168.105.5 255.255.255.0

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

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

Answer: D

NEW QUESTION 160

- (Exam Topic 2)

Which of the following mediums is circuit switched?

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

Answer: A

NEW QUESTION 164

- (Exam Topic 2)

Which of the following has a maximum transfer rate of 54Mbps and operates at the 5GHz frequency?

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

Answer: A

NEW QUESTION 168

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 173

- (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 174

- (Exam Topic 2)

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

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

Answer: A

NEW QUESTION 175

- (Exam Topic 2)

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

- A. CAT3
- B. CAT5
- C. CAT5e
- D. CAT6

Answer: D

NEW QUESTION 176

- (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 178

- (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 179

- (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 180

- (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 183

- (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 187

- (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 191

- (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 192

- (Exam Topic 2)

Which of the following is characterized by an attacker attempting to map out an organization's staff hierarchy in order to send targeted emails?

- A. Whaling
- B. Impersonation

- C. Privilege escalation
- D. Spear phishing

Answer: A

NEW QUESTION 193

- (Exam Topic 2)

Which of the following wireless standards is capable of ONLY operating on 5.8GHz?

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

Answer: A

NEW QUESTION 194

- (Exam Topic 2)

After plugging a cable into a computer, a user reports there is no network access. Which of the following tools would the technician MOST likely check to verify that the cable was crimped correctly?

- A. Punch down tool
- B. Cable certifier
- C. Loopback plug
- D. Toner probe

Answer: B

NEW QUESTION 196

- (Exam Topic 2)

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

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

Answer: C

NEW QUESTION 201

- (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 203

- (Exam Topic 2)

A pest control contractor attempts to gain access to the datacenter; however, the manager on duty notes that a pest control inspection was not on the schedule. Which of the following attacks is in progress?

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

Answer: B

NEW QUESTION 206

- (Exam Topic 2)

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

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

Answer: B

NEW QUESTION 207

- (Exam Topic 2)

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

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

Answer: A

NEW QUESTION 209

- (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 210

- (Exam Topic 2)

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

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

Answer: D

NEW QUESTION 215

- (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 217

- (Exam Topic 3)

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

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

Answer: D

NEW QUESTION 221

- (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 222

- (Exam Topic 3)

Which of the following problems is MOST likely to arise when configuring an IPv6 over IPv4 tunnel?

- A. Routing loop
- B. MTU black hole

- C. Framing errors
- D. SYN flood

Answer: B

NEW QUESTION 225

- (Exam Topic 3)

A company is experiencing accessibility issues reaching services on a cloud-based system. Which of the following monitoring tools should be used to locate possible outages?

- A. Network analyzer
- B. Packet analyzer
- C. Protocol analyzer
- D. Network sniffer

Answer: A

Explanation:

A network analyzer is a useful tool, helping you do things like track traffic and malicious usage on the network.

NEW QUESTION 226

- (Exam Topic 3)

When Jeff, a technician, is troubleshooting a problem, which of the following is the NEXT step after verifying full system functionality?

- A. Establish a plan of action to resolve the problem and identify potential effects.
- B. Implement the solution.
- C. Establish a theory of probable cause.
- D. Document findings, actions, and outcomes.

Answer: D

NEW QUESTION 228

- (Exam Topic 3)

Which of the following DNS records allows for reverse lookup of a domain?

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

Answer: A

NEW QUESTION 230

- (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 233

- (Exam Topic 3)

Which of the following layers of the OSI model is between the Data Link and Transport layers?

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

Answer: C

NEW QUESTION 235

- (Exam Topic 3)

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

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

Answer: A

NEW QUESTION 240

- (Exam Topic 3)

Lisa, a network technician, needs to introduce a few more cables to the existing patch panel. Which of the following tools would she use?

- A. OTDR
- B. Multimeter
- C. Punch down tool
- D. Temperature monitor

Answer: C

NEW QUESTION 241

- (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 245

- (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 250

- (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 253

- (Exam Topic 3)

Zach, a network technician, is unable to remotely manage or ping certain layer 2 switches. To manage those devices remotely, which of the following will MOST likely need to be configured?

- A. IP address on the native VLAN interface
- B. Port security
- C. Port forwarding
- D. IP address on the fiber interface

Answer: A

NEW QUESTION 258

- (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 261

- (Exam Topic 3)

A SOHO office recently installed a wireless network for employees to use during lunch breaks. As such, the access point was placed in the kitchen area by the microwave. Employees have been reporting intermittent connectivity when using the wireless network. Which of the following would BEST improve connectivity?

- A. Disable SSID broadcast
- B. Increase the signal strength
- C. Move the access point
- D. Change the broadcast channel

Answer: C

NEW QUESTION 262

- (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 265

- (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 269

- (Exam Topic 3)

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

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

Answer: C

NEW QUESTION 270

- (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 273

- (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 277

- (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 282

- (Exam Topic 3)

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

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

Answer: C

NEW QUESTION 284

- (Exam Topic 3)

Which of the following occurs when antenna gain is increased on an access point?

- A. Connection speeds decrease
- B. Throughput decreases
- C. Cell size increases
- D. Attenuation increases

Answer: C

NEW QUESTION 289

- (Exam Topic 3)

No link lights on a switch's SFP are functioning, so the network technician re-terminates the end. After testing the cable, the tester is showing a db loss of-9. Which of the following types of cable is MOST likely being tested?

- A. Fiber
- B. CAT3
- C. CAT5e
- D. CAT6a

Answer: A

NEW QUESTION 293

- (Exam Topic 3)

Which of the following technologies allows for redundant links within a Layer 2 segment?

- A. OSPF
- B. RIP
- C. Port Mirroring
- D. Spanning Tree

Answer: D

NEW QUESTION 294

- (Exam Topic 3)

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

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

Answer: C

NEW QUESTION 295

- (Exam Topic 3)

Several users from the same building are reporting connectivity issues. The SFP at that building's IDF switch is showing a link light, but there is no link light to the corresponding switch's SFP at the MDF. Which of the following is the MOST likely cause?

- A. A crossover cable is being used.
- B. DB loss is too high on all strands.
- C. Only TX or RX strand is working.
- D. TX and RX are reversed.

Answer: C

NEW QUESTION 296

- (Exam Topic 3)

Which of the following devices is used to distribute network traffic equally over multiple links?

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

Answer: C

NEW QUESTION 298

- (Exam Topic 3)

A technician needs to test the length of a newly installed cable run because it is believed that it exceeds the maximum specification length. Which of the following tools should be used?

- A. Cable certifier
- B. Toner probe
- C. Cable tester
- D. Protocol analyzer

Answer: A

NEW QUESTION 300

- (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 301

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