CompTIA

Exam Questions N10-008

CompTIA Network+Exam

NEW QUESTION 1
- (Exam Topic 1)
Which of the following DNS records works as an alias to another record?

A. AAAA
B. CNAME
C. MX
D. SOA

Answer: B

NEW QUESTION 2
- (Exam Topic 1)
Which of the following is the LARGEST MTU for a standard Ethernet frame?

A. 1452
B. 1492
C. 1500
D. 2304

Answer: C

NEW QUESTION 3
- (Exam Topic 1)
A network administrator is installing a wireless network at a client's office. Which of the following IEEE 802.11 standards would be BEST to use for multiple simultaneous client access?

A. CDMA
B. CSMA/CD
C. CSMA/CA
D. GSM

Answer: A

NEW QUESTION 4
- (Exam Topic 1)
The following configuration is applied to a DHCP server connected to a VPN concentrator:

```
IP address:          10.0.0.1
Subnet mask:         255.255.255.0
Gateway:             10.0.0.254
```

There are 300 non-concurrent sales representatives who log in for one hour a day to upload reports, and 252 of these representatives are able to connect to the VPN without any Issues. The remaining sales representatives cannot connect to the VPN over the course of the day. Which of the following can be done to resolve the issue without utilizing additional resources?

A. Decrease the lease duration
B. Reboot the DHCP server
C. Install a new VPN concentrator
D. Configure a new router

Answer: A

NEW QUESTION 5
- (Exam Topic 1)
Which of the following is the physical topology for an Ethernet LAN?

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

Answer: D

NEW QUESTION 6
- (Exam Topic 1)
A fiber link connecting two campus networks is broken. Which of the following tools should an engineer use to detect the exact break point of the fiber link?

A. OTDR
B. Tone generator
C. Fusion splicer
D. Cable tester
E. PoE injector

Answer: A

NEW QUESTION 7
- (Exam Topic 1)
Which of the following can be used to centrally manage credentials for various types of administrative privileges on configured network devices?

A. SSO
B. TACACS+
C. Zero Trust
D. Separation of duties
E. Multifactor authentication

Answer: B

NEW QUESTION 8
- (Exam Topic 1)
A technician is troubleshooting a wireless connectivity issue in a small office located in a high-rise building. Several APs are mounted in this office. The users report that the network connections frequently disconnect and reconnect throughout the day. Which of the following is the MOST likely cause of this issue?

A. The AP association time is set too low
B. EIRP needs to be boosted
C. Channel overlap is occurring
D. The RSSI is misreported

Answer: B

NEW QUESTION 9
- (Exam Topic 1)
A user reports being unable to access network resources after making some changes in the office. Which of the following should a network technician do FIRST?

A. Check the system's IP address
B. Do a ping test against the servers
C. Reseat the cables into the back of the PC
D. Ask what changes were made

Answer: D

NEW QUESTION 10
- (Exam Topic 1)
An administrator is writing a script to periodically log the IPv6 and MAC addresses of all the devices on a network segment. Which of the following switch features will MOST likely be used to assist with this task?

A. Spanning Tree Protocol
B. Neighbor Discovery Protocol
C. Link Aggregation Control Protocol
D. Address Resolution Protocol

Answer: B

NEW QUESTION 10
- (Exam Topic 1)
A company built a new building at its headquarters location. The new building is connected to the company's LAN via fiber-optic cable. Multiple users in the new building are unable to access the company's intranet site via their web browser, but they are able to access internet sites. Which of the following describes how the network administrator can resolve this issue?

A. Correct the DNS server entries in the DHCP scope
B. Correct the external firewall gateway address
C. Correct the NTP server settings on the clients
D. Correct a TFTP Issue on the company's server

Answer: A

NEW QUESTION 11
- (Exam Topic 1)
A network is experiencing a number of CRC errors during normal network communication. At which of the following layers of the OSI model will the administrator MOST likely start to troubleshoot?

A. Layer 1
B. Layer 2
C. Layer 3
D. Layer 4
E. Layer 5
F. Layer 6
G. Layer 7

Answer: B

NEW QUESTION 14
- (Exam Topic 1)

A technician is connecting multiple switches to create a large network for a new office. The switches are unmanaged Layer 2 switches with multiple connections between each pair. The network is experiencing an extreme amount of latency. Which of the following is MOST likely occurring?

A. Ethernet collisions
B. A DDoS attack
C. A broadcast storm
D. Routing loops

Answer: C

NEW QUESTION 18
- (Exam Topic 1)
A company hired a technician to find all the devices connected within a network. Which of the following software tools would BEST assist the technician in completing this task?

A. IP scanner
B. Terminal emulator
C. NetFlow analyzer
D. Port scanner

Answer: A

NEW QUESTION 19
- (Exam Topic 1)
An engineer notices some late collisions on a half-duplex link. The engineer verifies that the devices on both ends of the connection are configured for half duplex. Which of the following is the MOST likely cause of this issue?

A. The link is improperly terminated
B. One of the devices is misconfigured
C. The cable length is excessive
D. One of the devices has a hardware issue

Answer: D

NEW QUESTION 22
- (Exam Topic 1)
Which of the following provides redundancy on a file server to ensure the server is still connected to a LAN even in the event of a port failure on a switch?

A. NIC teaming
B. Load balancer
C. RAID array
D. PDUs

Answer: A

NEW QUESTION 24
- (Exam Topic 1)
Which of the following service models would MOST likely be used to replace on-premises servers with a cloud solution?

A. PaaS
B. IaaS
C. SaaS
D. Disaster recovery as a Service (DRaaS)

Answer: B

NEW QUESTION 26
- (Exam Topic 1)
A network technician is manually configuring the network settings for a new device and is told the network block is 192.168.0.0/20. Which of the following subnets should the technician use?

A. 255.255.128.0
B. 255.255.192.0
C. 255.255.240.0
D. 255.255.248.0

Answer: C

NEW QUESTION 30
- (Exam Topic 1)
A technician wants to deploy a new wireless network that comprises 30 WAPs installed throughout a three-story office building. All the APs will broadcast the same SSID for client access. Which of the following BEST describes this deployment?

A. Extended service set
B. Basic service set
C. Unified service set
D. Independent basic service set

Answer: B

NEW QUESTION 31
- (Exam Topic 1)
A technician is writing documentation regarding a company's server farm. The technician needs to confirm the server name for all Linux servers. Which of the following commands should the technician run?

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

Answer: B

NEW QUESTION 35
- (Exam Topic 1)
Which of the following is used to prioritize Internet usage per application and per user on the network?

A. Bandwidth management
B. Load balance routing
C. Border Gateway Protocol
D. Administrative distance

Answer: A

NEW QUESTION 37
- (Exam Topic 1)
Wireless users are reporting intermittent internet connectivity. Connectivity is restored when the users disconnect and reconnect, utilizing the web authentication process each time. The network administrator can see the devices connected to the APs at all times. Which of the following steps will MOST likely determine the cause of the issue?

A. Verify the session time-out configuration on the captive portal settings
B. Check for encryption protocol mismatch on the client's wireless settings
C. Confirm that a valid passphrase is being used during the web authentication
D. Investigate for a client's disassociation caused by an evil twin AP

Answer: A

NEW QUESTION 40
- (Exam Topic 1)
Given the following information:

Protocol	Local address	Foreign address	State
TCP	127.0.0.1:57779	Desktop-Open:57780	Established
TCP	127.0.0.1:57780	Desktop-Open:57779	Established

Which of the following command-line tools would generate this output?

A. netstat
B. arp
C. dig
D. tracert

Answer: A

NEW QUESTION 44
- (Exam Topic 1)
A technician receives feedback that some users are experiencing high amounts of jitter while using the wireless network. While troubleshooting the network, the technician uses the ping command with the IP address of the default gateway and verifies large variations in latency. The technician thinks the issue may be interference from other networks and non-802.11 devices. Which of the following tools should the technician use to troubleshoot the issue?

A. NetFlow analyzer
B. Bandwidth analyzer
C. Protocol analyzer
D. Spectrum analyzer

Answer: D

NEW QUESTION 45
- (Exam Topic 1)
Which of the following transceiver types can support up to 40Gbps?

A. SFP+
B. QSFP+
C. QSFP
D. SFP

Answer: B

NEW QUESTION 50
- (Exam Topic 1)
After the A record of a public website was updated, some visitors were unable to access the website. Which of the following should be adjusted to address the issue?

A. TTL
B. MX
C. TXT
D. SOA

Answer: A

NEW QUESTION 52
- (Exam Topic 1)
A network technician is reviewing the interface counters on a router interface. The technician is attempting to confirm a cable issue. Given the following information:

Metric	Value
Last cleared	7 minutes, 34 seconds
# of packets output	6915
# of packets input	270
CRCs	183
Giants	0
Runts	0
Multicasts	14

Which of the following metrics confirms there is a cabling issue?

A. Last cleared
B. Number of packets output
C. CRCs
D. Giants
E. Multicasts

Answer: C

NEW QUESTION 55
- (Exam Topic 1)
Access to a datacenter should be individually recorded by a card reader even when multiple employees enter the facility at the same time. Which of the following allows the enforcement of this policy?

A. Motion detection
B. Access control vestibules
C. Smart lockers
D. Cameras

Answer: B

Explanation:
The most effective security mechanism against physical intrusions due to stolen credentials would likely be a combination of several of these options. However, of the options provided, the most effective security mechanism would probably be an access control vestibule. An access control vestibule is a secure area that is located between the outer perimeter of a facility and the inner secure area. It is designed to provide an additional layer of security by requiring that individuals pass through a series of security checks before being allowed access to the secure area. This could include biometric authentication, access card readers, and motion detection cameras.

NEW QUESTION 59
- (Exam Topic 1)
A network administrator is configuring a load balancer for two systems. Which of the following must the administrator configure to ensure connectivity during a failover?

A. VIP
B. NAT
C. APIPA
D. IPv6 tunneling
E. Broadcast IP

Answer: A

NEW QUESTION 61
- (Exam Topic 1)
A store owner would like to have secure wireless access available for both business equipment and patron use. Which of the following features should be configured to allow different wireless access through the same equipment?

A. MIMO
B. TKIP
C. LTE
D. SSID

Answer: D

NEW QUESTION 62
- (Exam Topic 1)
A network engineer performs the following tasks to increase server bandwidth:
Connects two network cables from the server to a switch stack
Configure LACP on the switchports
Verifies the correct configurations on the switch interfaces
Which of the following needs to be configured on the server?

A. Load balancing
B. Multipathing
C. NIC teaming
D. Clustering

Answer: C

NEW QUESTION 63
- (Exam Topic 1)
A network technician needs to ensure outside users are unable to telnet into any of the servers at the datacenter. Which of the following ports should be blocked when checking firewall configuration?

A. 22
B. 23
C. 80
D. 3389
E. 8080

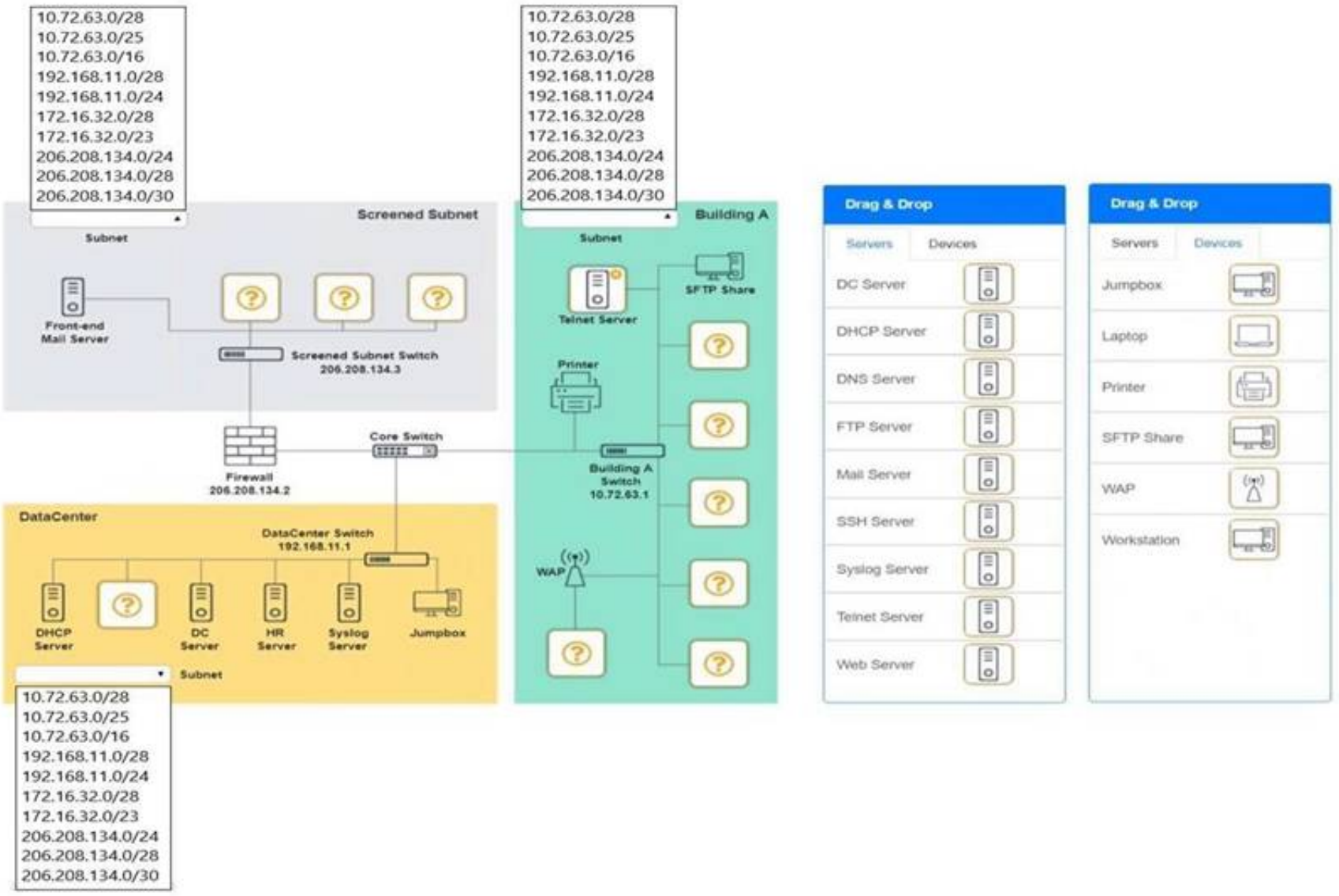
Answer: B

NEW QUESTION 64
- (Exam Topic 1)
At which of the following OSI model layers would a technician find an IP header?

A. Layer 1
B. Layer 2
C. Layer 3
D. Layer 4

Answer: C

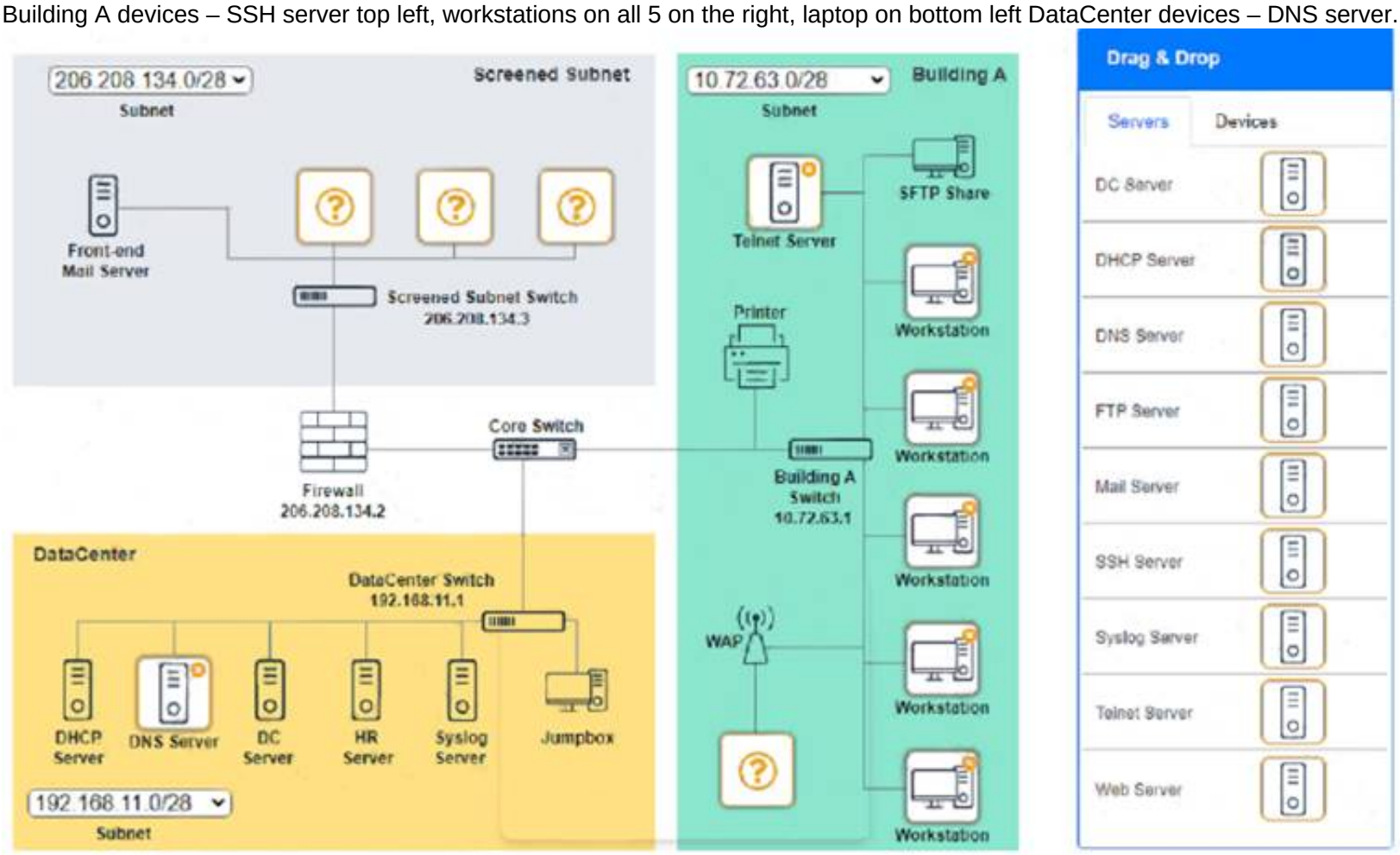
NEW QUESTION 68
- (Exam Topic 1)
You are tasked with verifying the following requirements are met in order to ensure network security. Requirements:
Datacenter
Ensure network is subnetted to allow all devices to communicate properly while minimizing address space usage
Provide a dedicated server to resolve IP addresses and hostnames correctly and handle port 53 traffic
Building A
Ensure network is subnetted to allow all devices to communicate properly while minimizing address space usage
Provide devices to support 5 additional different office users Add an additional mobile user
Replace the Telnet server with a more secure solution Screened subnet
Ensure network is subnetted to allow all devices to communicate properly while minimizing address space usage
Provide a server to handle external 80/443 traffic Provide a server to handle port 20/21 traffic INSTRUCTIONS
Drag and drop objects onto the appropriate locations. Objects can be used multiple times and not all placeholders need to be filled.
Available objects are located in both the Servers and Devices tabs of the Drag & Drop menu.
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Screened Subnet devices – Web server, FTP server
Building A devices – SSH server top left, workstations on all 5 on the right, laptop on bottom left DataCenter devices – DNS server.



NEW QUESTION 71
- (Exam Topic 1)
Which of the following would be BEST to use to detect a MAC spoofing attack?

A. Internet Control Message Protocol
B. Reverse Address Resolution Protocol
C. Dynamic Host Configuration Protocol
D. Internet Message Access Protocol

Answer: B

NEW QUESTION 72
- (Exam Topic 1)
Client devices cannot enter a network, and the network administrator determines the DHCP scope is exhausted. The administrator wants to avoid creating a new DHCP pool. Which of the following can the administrator perform to resolve the issue?

A. Install load balancers
B. Install more switches
C. Decrease the number of VLANs
D. Reduce the lease time

Answer: D

NEW QUESTION 76
- (Exam Topic 2)
A network administrator wants to improve the security of the management console on the company's switches and ensure configuration changes made can be correlated to the administrator who conformed them Which of the following should the network administrator implement?

A. Port security
B. Local authentication
C. TACACS+
D. Access control list

Answer: C

NEW QUESTION 80
- (Exam Topic 2)
Which of the following is a system that is installed directly on a server's hardware and abstracts the hardware from any guest machines?

A. Storage array
B. Type 1 hypervisor
C. Virtual machine
D. Guest QS

Answer: A

NEW QUESTION 82
- (Exam Topic 2)
There are two managed legacy switches running that cannot be replaced or upgraded. These switches do not support cryptographic functions, but they are password protected. Which of the following should a network administrator configure to BEST prevent unauthorized access?

A. Enable a management access list
B. Disable access to unnecessary services.
C. Configure a stronger password for access
D. Disable access to remote management
E. Use an out-of-band access method.

Answer: A

NEW QUESTION 85
- (Exam Topic 2)
A small, family-run business uses a single SOHO router to provide Internet and WiFi to its employees At the start of a new week, employees come in and find their usual WiFi network is no longer available, and there is a new wireless network to which they cannot connect. Given that information, which of the following should have been done to avoid this situation'

A. The device firmware should have been kept current.
B. Unsecure protocols should have been disabled.
C. Parental controls should have been enabled
D. The default credentials should have been changed

Answer: A

NEW QUESTION 88
- (Exam Topic 2)
A network administrator is reviewing interface errors on a switch. Which of the following indicates that a switchport is receiving packets in excess of the configured MTU?

A. CRC errors
B. Giants
C. Runts
D. Flooding

Answer: B

NEW QUESTION 90

- (Exam Topic 2)
The following instructions were published about the proper network configuration for a videoconferencing device:
"Configure a valid static RFC1918 address for your network. Check the option to use a connection over NAT." Which of the following is a valid IP address configuration for the device?

A. FE80::1
B. 100.64.0.1
C. 169.254.1.2
D. 172.19.0.2
E. 224.0.0.12

Answer: D

NEW QUESTION 94
- (Exam Topic 2)
An ARP request is broadcasted and sends the following request. "Who is 192.168.1.200? Tell 192.168.1.55"
At which of the following layers of the OSI model does this request operate?

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

Answer: B

NEW QUESTION 97
- (Exam Topic 2)
A network administrator wants to reduce overhead and increase efficiency on a SAN. Which of the following can be configured to achieve these goals?

A. Port aggregation
B. Traffic shaping
C. Jumbo frames
D. Flow control

Answer: C

NEW QUESTION 98
- (Exam Topic 2)
A network technician is observing the behavior of an unmanaged switch when a new device is added to the network and transmits data. Which of the following BEST describes how the switch processes this information?

A. The data is flooded out of every por
B. including the one on which it came in.
C. The data is flooded out of every port but only in the VLAN where it is located.
D. The data is flooded out of every port, except the one on which it came in
E. The data is flooded out of every port, excluding the VLAN where it is located

Answer: C

NEW QUESTION 103
- (Exam Topic 2)
A systems administrator is configuring a firewall using NAT with PAT. Which of the following would be BEST suited for the LAN interface?

A. 172.15.0.0/18
B. 172.18.0.0/10
C. 172.23.0.0/16
D. 172.28.0.0/8
E. 172.32.0.0/14

Answer: C

NEW QUESTION 108
- (Exam Topic 2)
Two remote offices need to be connected securely over an untrustworthy MAN. Each office needs to access network shares at the other site. Which of the following will BEST provide this functionality?

A. Client-to-site VPN
B. Third-party VPN service
C. Site-to-site VPN
D. Split-tunnel VPN

Answer: C

NEW QUESTION 110
- (Exam Topic 2)
A rogue AP was found plugged in and providing Internet access to employees in the break room. Which of the following would be BEST to use to stop this from

happening without physically removing the WAP?

A. Password complexity
B. Port security
C. Wireless client isolation
D. Secure SNMP

Answer: B

NEW QUESTION 111
- (Exam Topic 2)
A company wants to implement a large number of WAPs throughout its building and allow users to be able to move around the building without dropping their connections Which of the following pieces of equipment would be able to handle this requirement?

A. A VPN concentrator
B. A load balancer
C. A wireless controller
D. A RADIUS server

Answer: A

NEW QUESTION 116
- (Exam Topic 2)
Which of the following OSI model layers is where conversations between applications are established, coordinated, and terminated?

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

Answer: A

Explanation:
Reference: https://www.techtarget.com/searchnetworking/definition/OSI#:~:text=The%20session%20layer,and%20termina

NEW QUESTION 119
- (Exam Topic 2)
A wireless network was installed in a warehouse for employees to scan crates with a wireless handheld scanner. The wireless network was placed in the corner of the building near the ceiling for maximum coverage However users in the offices adjacent lo the warehouse have noticed a large amount of signal overlap from the new network Additionally warehouse employees report difficulty connecting to the wireless network from the other side of the building; however they have no issues when Ihey are near the antenna Which of the following is MOST likely the cause?

A. The wireless signal is being refracted by the warehouse's windows
B. The antenna's power level was set too high and is overlapping
C. An omnidirectional antenna was used instead of a unidirectional antenna
D. The wireless access points are using channels from the 5GHz spectrum

Answer: A

NEW QUESTION 123
- (Exam Topic 2)
Which of the following security devices would be BEST to use to provide mechanical access control to the MDF/IDF?

A. A smart card
B. A key fob
C. An employee badge
D. A door lock

Answer: B

NEW QUESTION 127
- (Exam Topic 2)
Which of the following is required when connecting an endpoint device with an RJ45 port to a network device with an ST port?

A. A media converter
B. A bridge
C. An MDIX
D. A load balancer

Answer: A

NEW QUESTION 132
- (Exam Topic 2)
Which of the following technologies allows traffic to be sent through two different ISPs to increase performance?

A. Fault tolerance

B. Quality of service
C. Load balancing
D. Port aggregation

Answer: A

NEW QUESTION 137
- (Exam Topic 2)
At the destination host, which of the following OSI model layers will discard a segment with a bad checksum in the UDP header?

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

Answer: C

NEW QUESTION 138
- (Exam Topic 2)
A network technician has multimode fiber optic cable available in an existing IDF. Which of the following Ethernet standards should the technician use to connect the network switch to the existing fiber?

A. 10GBaseT
B. 1000BaseT
C. 1000BaseSX
D. 1000BaseLX

Answer: A

NEW QUESTION 139
- (Exam Topic 2)
A technician wants to install a WAP in the center of a room that provides service in a radius surrounding a radio. Which of the following antenna types should the AP utilize?

A. Omni
B. Directional
C. Yagi
D. Parabolic

Answer: A

NEW QUESTION 144
- (Exam Topic 2)
A company requires a disaster recovery site to have equipment ready to go in the event of a disaster at its main datacenter. The company does not have the budget to mirror all the live data to the disaster recovery site. Which of the following concepts should the company select?

A. Cold site
B. Hot site
C. Warm site
D. Cloud site

Answer: C

NEW QUESTION 146
- (Exam Topic 2)
A city has hired a new employee who needs to be able to work when traveling at home and at the municipal sourcing of a neighboring city that snares services. The employee is issued a laptop, and a technician needs to train the employee on the appropriate solutions for secure access to the network from all the possible locations On which of the following solutions would the technician MOST likely train the employee?

A. Site-to-site VPNs between the two city locations and client-to-site software on the employee's laptop tor all other remote access
B. Client-to-site VPNs between the travel locations and site-to-site software on the employee's laptop for all other remote access
C. Client-to-site VPNs between the two city locations and site-to-site software on the employee's laptop for all other remote access
D. Site-to-site VPNs between the home and city locations and site-to-site software on the employee's laptop for all other remote access

Answer: A

NEW QUESTION 149
- (Exam Topic 2)
A network technician was troubleshooting an issue for a user who was being directed to cloned websites that were stealing credentials. The URLs were correct for the websites but an incorrect IP address was revealed when the technician used ping on the user's PC After checking the is setting, the technician found the DNS server address was incorrect Which of the following describes the issue?

A. Rogue DHCP server
B. Misconfigured HSRP
C. DNS poisoning
D. Exhausted IP scope

Answer: D

NEW QUESTION 151
- (Exam Topic 2)
A network administrator needs to implement an HDMI over IP solution. Which of the following will the network administrator MOST likely use to ensure smooth video delivery?

A. Link aggregation control
B. Port tagging
C. Jumbo frames
D. Media access control

Answer: C

NEW QUESTION 153
- (Exam Topic 2)
A network administrator wants to analyze attacks directed toward the company's network. Which of the following must the network administrator implement to assist in this goal?

A. A honeypot
B. Network segmentation
C. Antivirus
D. A screened subnet

Answer: A

NEW QUESTION 158
- (Exam Topic 2)
A company that uses VoIP telephones is experiencing intermittent issues with one-way audio and dropped conversations The manufacturer says the system will work if ping times are less than 50ms. The company has recorded the following ping times:

10ms	10ms	10ms	100ms	70ms	5ms	5ms	80ms	100ms	5ms	5ms

Which of the following is MOST likely causing the issue?

A. Attenuation
B. Latency
C. VLAN mismatch
D. Jitter

Answer: A

NEW QUESTION 161
- (Exam Topic 2)
Which of the following policies is MOST commonly used for guest captive portals?

A. AUP
B. DLP
C. BYOD
D. NDA

Answer: A

NEW QUESTION 166
- (Exam Topic 2)
A corporation has a critical system that would cause unrecoverable damage to the brand if it was taken offline. Which of the following disaster recovery solutions should the corporation implement?

A. Full backups
B. Load balancing
C. Hot site
D. Snapshots

Answer: C

NEW QUESTION 171
- (Exam Topic 2)
Which of the following cable types would MOST likely be used to provide high-speed network connectivity between nearby buildings?

A. UTP
B. Coaxial
C. Fiber
D. Cat 5
E. Twinaxial

Answer: C

NEW QUESTION 176
- (Exam Topic 2)
A SaaS provider has decided to leave an unpatched VM available via a public DMZ port. With which of the following concepts is this technique MOST closely associated?

A. Insider threat
B. War driving
C. Evil twin
D. Honeypot

Answer: D

NEW QUESTION 180
- (Exam Topic 2)
A Chief Information Officer (CIO) wants to improve the availability of a company's SQL database Which of the following technologies should be utilized to achieve maximum availability?

A. Clustering
B. Port aggregation
C. NIC teaming
D. Snapshots

Answer: C

NEW QUESTION 185
- (Exam Topic 2)
Which of the following is the physical security mechanism that would MOST likely be used to enter a secure site?

A. A landing page
B. An access control vestibule
C. A smart locker
D. A firewall

Answer: B

Explanation:
Reference: https://en.wikipedia.org/wiki/Mantrap_(access_control)

NEW QUESTION 190
- (Exam Topic 2)
A network technician is investigating an IP phone that does not register in the VoIP system Although it received an IP address, it did not receive the necessary DHCP options The information that is needed for the registration is distributes by the OHCP scope All other IP phones are working properly. Which of the following does the technician need to verify?

A. VLAN mismatch
B. Transceiver mismatch
C. Latency
D. DHCP exhaustion

Answer: A

NEW QUESTION 193
- (Exam Topic 2)
A voice engineer is troubleshooting a phone issue. When a call is placed, the caller hears echoes of the receiver's voice. Which of the following are the causes of this issue? (Choose two.)

A. Jitter
B. Speed mismatch
C. QoS misconfiguration
D. Protocol mismatch
E. CRC errors
F. Encapsulation errors

Answer: AC

NEW QUESTION 194
- (Exam Topic 2)
A technician is implementing a new wireless network to serve guests at a local office. The network needs to provide Internet access but disallow associated stations from communicating with each other. Which of the following would BEST accomplish this requirement?

A. Wireless client isolation
B. Port security
C. Device geofencing
D. DHCP snooping

Answer: A

NEW QUESTION 197
- (Exam Topic 2)
Which of the following would be used to expedite MX record updates to authoritative NSs?

A. UDP forwarding
B. DNS caching
C. Recursive lookup
D. Time to live

Answer: D

NEW QUESTION 198
- (Exam Topic 2)
A network field technician is installing and configuring a secure wireless network. The technician performs a site survey. Which of the following documents would MOST likely be created as a result of the site survey?

A. Physical diagram
B. Heat map
C. Asset list
D. Device map

Answer: B

NEW QUESTION 200
- (Exam Topic 2)
A packet is assigned a value to ensure it does not traverse a network indefinitely. Which of the following BEST represents this value?

A. Zero Trust
B. Planned obsolescence
C. Time to live
D. Caching

Answer: C

NEW QUESTION 202
- (Exam Topic 2)
Which of the following VPN configurations should be used to separate Internet and corporate traffic?

A. Split-tunnel
B. Remote desktop gateway
C. Site-to-site
D. Out-of-band management

Answer: A

NEW QUESTION 203
- (Exam Topic 2)
An organization wants to implement a method of centrally managing logins to network services. Which of the following protocols should the organization use to allow for authentication, authorization and auditing?

A. MS-CHAP
B. RADIUS
C. LDAPS
D. RSTP

Answer: A

NEW QUESTION 205
- (Exam Topic 2)
A business is using the local cable company to provide Internet access. Which of the following types of cabling will the cable company MOST likely use from the demarcation point back to the central office?

A. Multimode
B. Cat 5e
C. RG-6
D. Cat 6
E. 100BASE-T

Answer: C

NEW QUESTION 208
- (Exam Topic 2)
Which of the following attacks encrypts user data and requires a proper backup implementation to recover?

A. DDoS
B. Phishing
C. Ransomware

D. MAC spoofing

Answer: C

NEW QUESTION 209
- (Exam Topic 2)
Which of the following is used to provide networking capability for VMs at Layer 2 of the OSI model?

A. VPN
B. VRRP
C. vSwitch
D. VIP

Answer: C

NEW QUESTION 212
- (Exam Topic 2)
A network administrator is talking to different vendors about acquiring technology to support a new project for a large company. Which of the following documents will MOST likely need to be signed before information about the project is shared?

A. BYOD policy
B. NDA
C. SLA
D. MOU

Answer: C

NEW QUESTION 213
- (Exam Topic 2)
An IT technician suspects a break in one of the uplinks that provides connectivity to the core switch. Which of the following command-line tools should the technician use to determine where the incident is occurring?

A. nslookup
B. show config
C. netstat
D. show interface
E. show counters

Answer: D

NEW QUESTION 214
- (Exam Topic 2)
A network requirement calls for segmenting departments into different networks. The campus network is set up with users of each department in multiple buildings. Which of the following should be configured to keep the design simple and efficient?

A. MDIX
B. Jumbo frames
C. Port tagging
D. Flow control

Answer: C

NEW QUESTION 217
- (Exam Topic 2)
A company is being acquired by a large corporation. As part of the acquisition process, the company's address should now redirect clients to the corporate organization page. Which of the following DNS records needs to be created?

A. SOA
B. NS
C. CNAME
D. TXT

Answer: C

Explanation:
Reference:
https://www.namecheap.com/support/knowledgebase/article.aspx/9604/2237/types-of-domain-redirects-301-302

NEW QUESTION 222
- (Exam Topic 2)
During the security audit of a financial firm the Chief Executive Officer (CEO) questions why there are three employees who perform very distinct functions on the server. There is an administrator for creating users another for assigning the users lo groups and a third who is the only administrator to perform file rights assignment Which of the following mitigation techniques is being applied'

A. Privileged user accounts
B. Role separation
C. Container administration

D. Job rotation

Answer: B

NEW QUESTION 225
- (Exam Topic 3)
During the troubleshooting of an E1 line, the point-to-point link on the core router was accidentally unplugged and left unconnected for several hours. However, the network management team was not notified. Which of the following could have been configured to allow early detection and possible resolution of the issue?

A. Traps
B. MIB
C. OID
D. Baselines

Answer: A

NEW QUESTION 229
- (Exam Topic 3)
A network technician is hired to review all the devices within a network and make recommendations to improve network efficiency. Which of the following should the technician do FIRST before reviewing and making any recommendations?

A. Capture a network baseline
B. Perform an environmental review.
C. Read the network logs
D. Run a bandwidth test

Answer: A

Explanation:
Before making any recommendations, a network technician should first capture a network baseline, which is a snapshot of the current performance of the network. This will give the technician a baseline to compare against after any changes are made. According to the CompTIA Network+ Study Manual, the technician should "capture the state of the network before making any changes and then compare the performance after the changes have been made. This will provide an accurate baseline to compare the performance of the network before and after the changes have been made."

NEW QUESTION 234
- (Exam Topic 3)
A company is utilizing multifactor authentication for data center access. Which of the following is the MOST effective security mechanism against physical intrusions due to stolen credentials?

A. Biometrics security hardware
B. Access card readers
C. Access control vestibule
D. Motion detection cameras

Answer: C

NEW QUESTION 236
- (Exam Topic 3)
Which of the Mowing architectures reduces network latency by enforcing a limit on the number of switching devices on the frame's path between any internal hosts?

A. Spine and leaf
B. Software-defined network
C. Three-tiered
D. Collapsed core

Answer: A

Explanation:
It does this by using a two-level hierarchy of switches, where the spine switches connect to the leaf switches, which in turn connect to the end hosts. This reduces the number of hops a packet must take from one host to another, thus reducing latency. According to the CompTIA Network+ N10-008 Exam Guide, the Spine and Leaf topology is a modern architecture that is used to reduce latency in large networks.

NEW QUESTION 240
- (Exam Topic 3)
Which of the following BEST describes a North-South traffic flow?

A. A public Internet user accessing a published web server
B. A database server communicating with another clustered database server
C. A Layer 3 switch advertising routes to a router
D. A management application connecting to managed devices

Answer: D

NEW QUESTION 241
- (Exam Topic 3)

An organization set up its offices so that a desktop is connected to the network through a VoIP phone. The VoIP vendor requested that voice traffic be segmented separately from non-voice traffic. Which of the following would allow the organization to configure multiple devices with network isolation on a single switch port?

A. Subinterfaces
B. Link aggregation
C. Load balancing
D. Tunneling

Answer: A

NEW QUESTION 242
- (Exam Topic 3)
A network technician recently installed 35 additional workstations. After installation, some users are unable to access network resources. Many of the original workstations that are experiencing the network access issue were offline when the new workstations were turned on. Which of the following is the MOST likely cause of this issue?

A. Incorrect VLAN setting
B. Insufficient DHCP scope
C. Improper NIC setting
D. Duplicate IP address

Answer: B

NEW QUESTION 245
- (Exam Topic 3)
Which of the following is a valid and cost-effective solution to connect a fiber cable into a network switch without available SFP ports?

A. Use a media converter and a UTP cable
B. Install an additional transceiver module and use GBICs
C. Change the type of connector from SC to F-type
D. Use a loopback adapter to make the connection

Answer: A

NEW QUESTION 247
- (Exam Topic 3)
Which of the following connector types would be used to connect to the demarcation point and provide network access to a cable modem?

A. F-type
B. RJ45
C. LC
D. RJ11

Answer: A

Explanation:
An F-type connector is a type of coaxial connector that is commonly used to connect a cable modem to the demarcation point, which is the point at which the cable provider's network ends and the customer's network begins. The F-type connector is a threaded connector that is typically used for television, cable modem, and satellite antenna connections.

NEW QUESTION 252
- (Exam Topic 3)
A network technician is troubleshooting a new web server connectivity issue. The network technician discovers the following on the support ticket
• The server's IP address can be pinged from the client PCs,
• Access to the web resource works correctly when on the server's console.
• No clients can access the servers data via URL.
• The server does not have a firewall configured
• No ACLs are preventing connectivity from the client's network.
• All services on the server are operating normally, which was confirmed by the server team. Which of the following actions will resolve the issue?

A. Reset port security on the switchport connecting the server.
B. Adjust the web server's NTP settings to match the client settings.
C. Configure A records for the web server.
D. Install the correct MIB on the web server

Answer: C

Explanation:
The problem is likely related to DNS resolution, as the clients are able to ping the server's IP address but not access the web resource via URL. The other answers do not address this issue. Configuring A records for the web server will ensure that clients are able to access the web resource via its domain name.

NEW QUESTION 253
- (Exam Topic 3)
An administrator would like to allow Windows clients from outside me office to access workstations without using third-party software. Which or the following access methods would meet this requirement?

A. Remote desktop gateway
B. Spit tunnel

C. Site-to-site VPN
D. VNC

Answer: A

Explanation:
To allow Windows clients from outside the office to access workstations without using third-party software, the administrator can use the Remote Desktop Protocol (RDP). RDP is a built-in feature of the Windows operating system that allows users to remotely connect to and control other Windows computers over a network connection.
To use RDP, the administrator will need to enable the Remote Desktop feature on the workstations that need to be accessed, and ensure that the appropriate firewall rules are in place to allow RDP traffic to pass through. The administrator will also need to provide the remote users with the necessary credentials to access the workstations.
Once RDP is set up and configured, the remote users can use the Remote Desktop client on their own computers to connect to the workstations and access them as if they were physically present in the office. This allows the administrator to provide remote access to the workstations without the need for any additional software or third-party tools.

NEW QUESTION 256
- (Exam Topic 3)
After rebooting an AP a user is no longer able to conned to me enterprise LAN A technician plugs a laptop In to the same network jack and receives the IP 169.254 0 200. Which of the following is MOST likely causing the issue?

A. DHCP scope exhaustion
B. Signal attenuation
C. Channel overlap
D. Improper DNS configuration

Answer: A

Explanation:
DHCP scope exhaustion occurs when the number of available IP addresses to be leased from a DHCP server have been used up. This could be caused by a large number of clients on the network, or a misconfigured
DHCP scope. When this happens, clients will be assigned an IP address from the APIPA range (169.254.0.0 to 169.254.255.255). To resolve this issue, the DHCP scope needs to be expanded or adjusted to accommodate the number of clients on the network.

NEW QUESTION 260
- (Exam Topic 3)
The power company notifies a network administrator that it will be turning off the power to the building over the weekend. Which of the following is the BEST solution to prevent the servers from going down?

A. Redundant power supplies
B. Uninterruptible power supply
C. Generator
D. Power distribution unit

Answer: A

NEW QUESTION 261
- (Exam Topic 3)
An international company is transferring its IT assets including a number of WAPs from the United States to an office in Europe for deployment. Which of the following considerations should the company research before Implementing the wireless hardware?

A. WPA2 cipher
B. Regulatory Impacts
C. CDMA configuration
D. 802.11 standards

Answer: B

Explanation:
When transferring IT assets, including wireless access points (WAPs), from one country to another, it's important to research the regulatory impacts of the move. Different countries have different regulations and compliance requirements for wireless devices, such as frequency bands, power levels, and encryption standards. Failing to comply with these regulations can result in fines or other penalties.

NEW QUESTION 262
- (Exam Topic 3)
A network administrator is given the network 80.87.78.0/26 for specific device assignments. Which of the following describes this network?

A. 80.87.78 0 - 80.87.78.14
B. 80.87.78 0 - 80.87.78.110
C. 80.87.78 1 - 80.87.78.62
D. 80.87.78.1 - 80.87.78.158

Answer: C

Explanation:
The network 80.87.78.0/26 is a Class A network with a subnet mask of /26, which means that it contains 26 bits of network information and 6 bits of host information. The range of valid host addresses for this network is 80.87.78.1 to 80.87.78.62. Any addresses outside of this range are reserved for special purposes or are not used.

NEW QUESTION 264
- (Exam Topic 3)
After a critical power issue, the network team was not receiving UPS status notifications. The network team would like to be alerted on these status changes. Which of the following would be BEST to use tor these notifications?

A. Traps
B. MB
C. NetFlow
D. Syslog

Answer: A

NEW QUESTION 268
- (Exam Topic 3)
A company streams video to multiple devices across a campus. When this happens, several users report a degradation of network performance. Which of the following would MOST likely address this issue?

A. Enable IGMP snooping on the switches.
B. Implement another DHCP server.
C. Reconfigure port tagging for the video traffic.
D. Change the SSID of the APs

Answer: A

NEW QUESTION 270
- (Exam Topic 3)
Which of the following needs to be tested to achieve a Cat 6a certification for a company's data cawing?

A. RJ11
B. LC ports
C. Patch panel
D. F-type connector

Answer: D

NEW QUESTION 272
- (Exam Topic 3)
Which of the following would be BEST suited for a long cable run with a 40Gbps bandwidth?

A. Cat 5e
B. Cat 6a
C. Cat 7
D. Cat 8

Answer: D

Explanation:
Reference: https://scoop.co.za/blog/choosing-the-right-cable-for-your-network

NEW QUESTION 276
- (Exam Topic 3)
A network engineer needs to reduce the overhead of file transfers. Which of the following configuration changes would accomplish that goal?

A. Link aggregation
B. Jumbo frames
C. Port security
D. Flow control
E. Lower FTP port

Answer: A

NEW QUESTION 280
- (Exam Topic 3)
A systems administrator wants to use the least amount of equipment to segment two departments that nave cables terminating in the same room. Which of the following would allow this to occur?

A. A load balancer
B. A proxy server
C. A Layer 3 switch
D. A hub
E. A Layer 7 firewall
F. The RSSI was not strong enough on the link

Answer: C

NEW QUESTION 283

- (Exam Topic 3)
An administrator needs to connect two laptops directly to each other using 802.11ac but does not have an AP available. Which of the following describes this configuration?

A. Basic service set
B. Extended service set
C. Independent basic service set
D. MU-MIMO

Answer: C

NEW QUESTION 288
- (Exam Topic 3)
A company wants to add a local redundant data center to its network in case of failure at its primary location. Which of the following would give the LEAST amount of redundancy for the company's network?

A. Cold site
B. Hot site
C. Cloud site
D. Warm site

Answer: A

NEW QUESTION 293
- (Exam Topic 3)
A technician is troubleshooting a client's report about poor wireless performance. Using a client monitor, the technician notes the following information:
Which of the following is MOST likely the cause of the issue?

A. Channel overlap
B. Poor signal
C. Incorrect power settings
D. Wrong antenna type

Answer: A

NEW QUESTION 296
- (Exam Topic 3)
A network administrator is getting reports of some internal users who cannot connect to network resources. The users slate they were able to connect last week, but not today. No changes have been configured on the network devices or server during the last few weeks. Which of the following is the MOST likely cause of the issue?

A. The client DHCP scope is fully utilized
B. The wired network is experiencing electrical interference
C. The captive portal is down and needs to be restarted
D. SNMP traps are being received
E. The packet counter on the router interface is high.

Answer: A

NEW QUESTION 299
- (Exam Topic 3)
An administrator would like to have two servers at different geographical locations provide fault tolerance and high performance while appearing as one URL to users. Which of the following should the administrator implement?

A. Load balancing
B. Multipathing
C. NIC teaming
D. Warm site

Answer: A

Explanation:
Load balancing is a technique that can be used to provide fault tolerance and high performance while appearing as one URL to users. It is achieved by distributing the workload across multiple servers, which are usually located in different geographical locations. This allows for high performance and fault tolerance, as if one server fails, the other will take its place. Additionally, the multiple servers appear as one URL to the users, eliminating the need for the users to switch between servers.

NEW QUESTION 300
- (Exam Topic 3)
Network users reported that a recent firmware upgrade to a firewall did not resolve the issue that prompted the upgrade. Which of the following should be performed NEXT?

A. Reopen the service ticket, request a new maintenance window, and roll back to the anterior firmware version.
B. Gather additional information to ensure users' concerns are not been caused by a different issue with similar symptoms.
C. Employ a divide-and-conquer troubleshooting methodology by engaging the firewall vendor's support.
D. Escalate the issue to the IT management team in order to negotiate a new SLA with the user's manager.

Answer: A

NEW QUESTION 303
- (Exam Topic 3)
A network administrator needs to configure a server to use the most accurate NTP reference available. Which of the following NTP devices should the administrator select?

A. Stratum 1
B. Stratum 2
C. Stratum 3
D. Stratum 4

Answer: A

Explanation:
Stratum 1 devices are the most accurate ntp time sources accessible via a network connection. A Stratum 1 device would normally be synchronised via a Stratum 0 reference clock.
Reference: https://endruntechnologies.com/products/ntp-time-servers/stratum1

NEW QUESTION 307
- (Exam Topic 3)
A network technician is responding to an issue with a local company. To which of 0>e following documents should the network technician refer to determine the scope of the issue

A. MTTR
B. MOU
C. NDA
D. SLA

Answer: B

NEW QUESTION 309
- (Exam Topic 3)
Which of the following ports should be used to securely receive mail that is synchronized across multiple devices?

A. 25
B. 110
C. 443
D. 993

Answer: D

NEW QUESTION 312
- (Exam Topic 3)
Which of the following allows for an devices within a network to share a highly reliable time source?

A. NTP
B. SNMP
C. SIP
D. DNS

Answer: A

Explanation:
Network Time Protocol (NTP) is a protocol used to maintain a highly accurate and reliable clock time on all devices within a network. NTP works by synchronizing the time of all the devices within a network to a single, highly accurate time source. This allows for the time of all the devices to be kept in sync with each other, ensuring a consistent and reliable time source for all devices within the network.

NEW QUESTION 316
- (Exam Topic 3)
A company wants to invest in new hardware for the core network infrastructure. The management team requires that the infrastructure be capable of being repaired in less than 60 minutes if any major part fails. Which of the following metrics is MOST likely associated with this requirement?

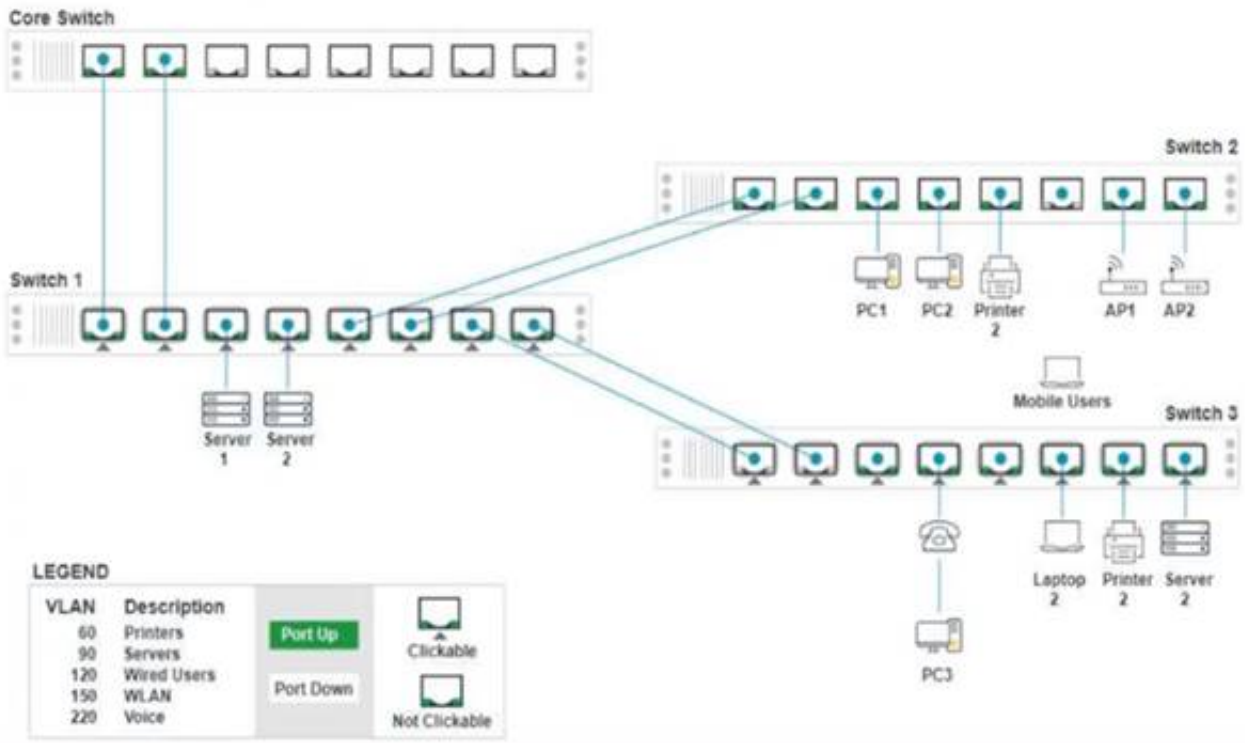
A. RPO
B. MTTR
C. FHRP
D. MTBF

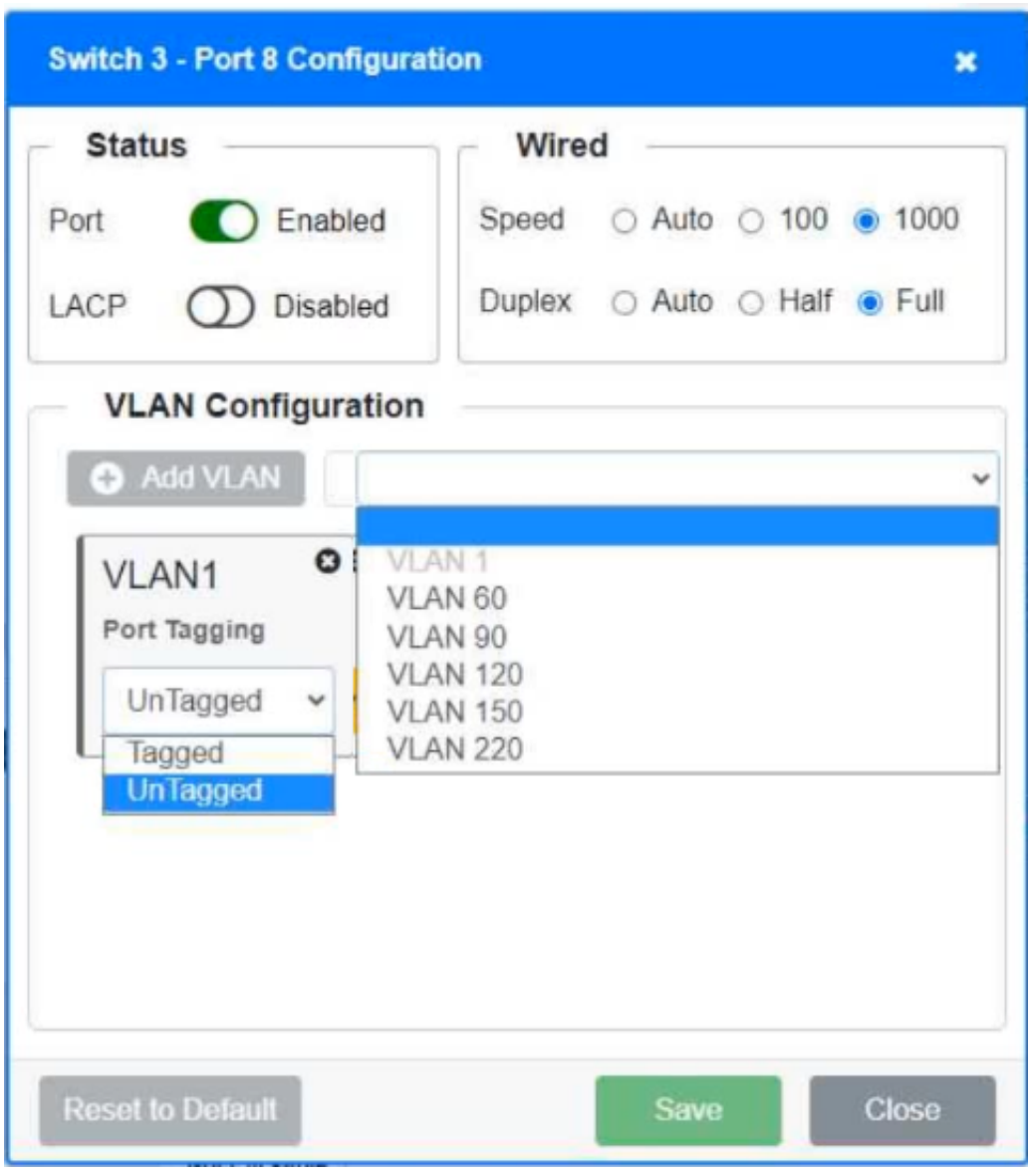
Answer: B

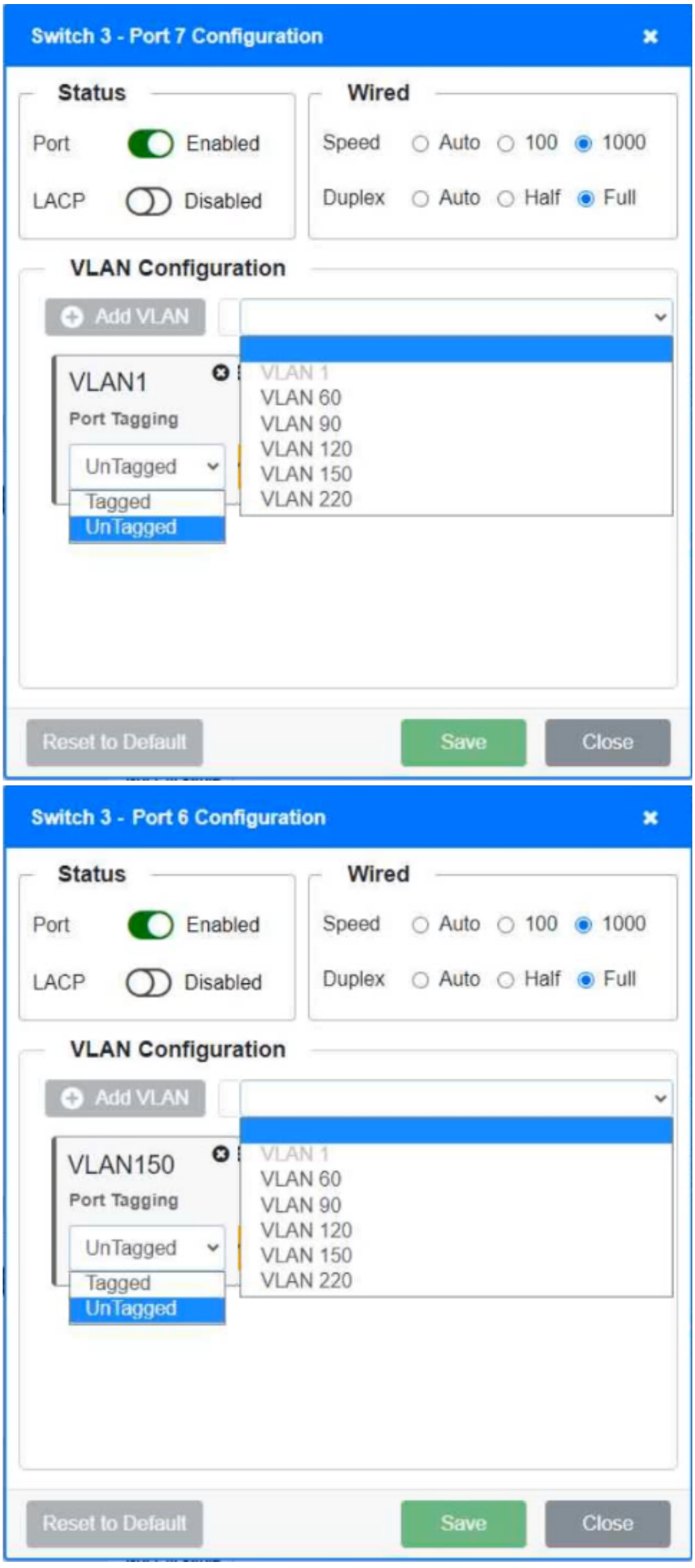
Explanation:
MTTR is directly related to how quickly a system can be repaired if any major part fails3. The management
team requires that the infrastructure be capable of being repaired in less than 60 minutes, which means they have a low MTTR requirement.
MTTR stands for Mean Time To Repair and is a metric used to measure the average amount of time it takes to repair a failed component or system. In this case, the requirement is for the infrastructure to be capable of being repaired in less than 60 minutes if any major part fails, which means the MTTR should be less than 60 minutes.

NEW QUESTION 320

- (Exam Topic 3)
SIMULATION
A network technician replaced a switch and needs to reconfigure it to allow the connected devices to connect to the correct networks.
INSTRUCTIONS
Click on the appropriate port(s) on Switch 1 and Switch 3 to verify or reconfigure the correct settings:
• Ensure each device accesses only its correctly associated network
• Disable all unused switch ports
• Require fault-tolerant connections between the switches
• Only make necessary changes to complete the above requirements
If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



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VLAN 90
VLAN 120
VLAN 150
VLAN 220
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Reset to Default
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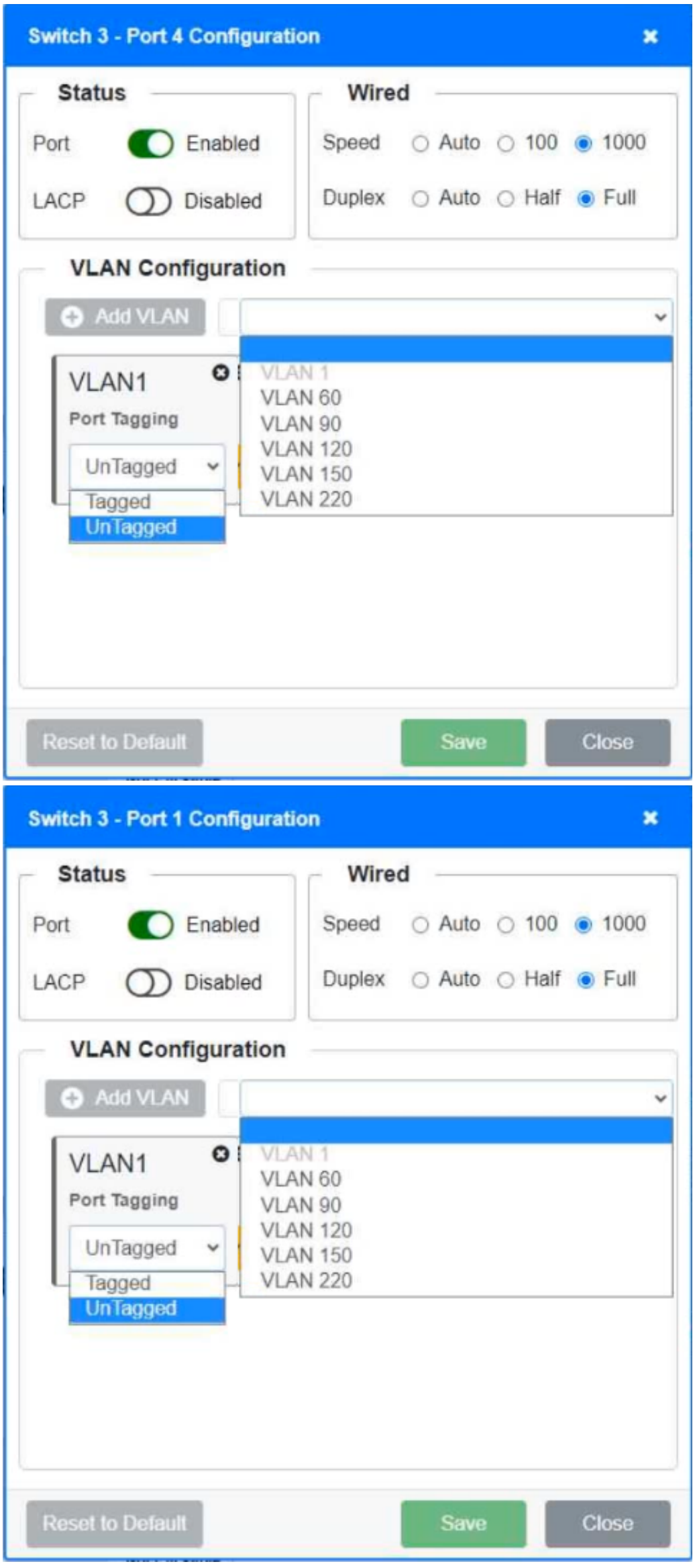
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VLAN 220
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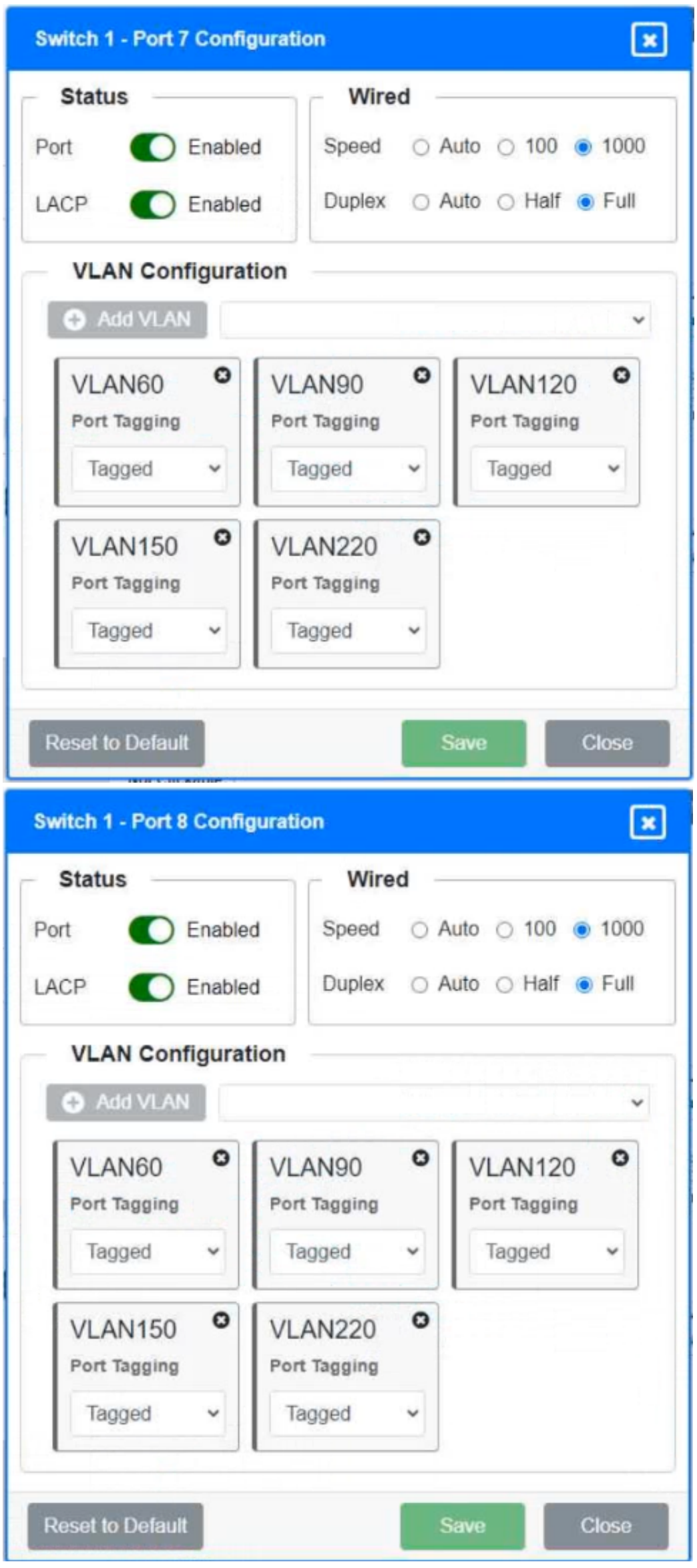
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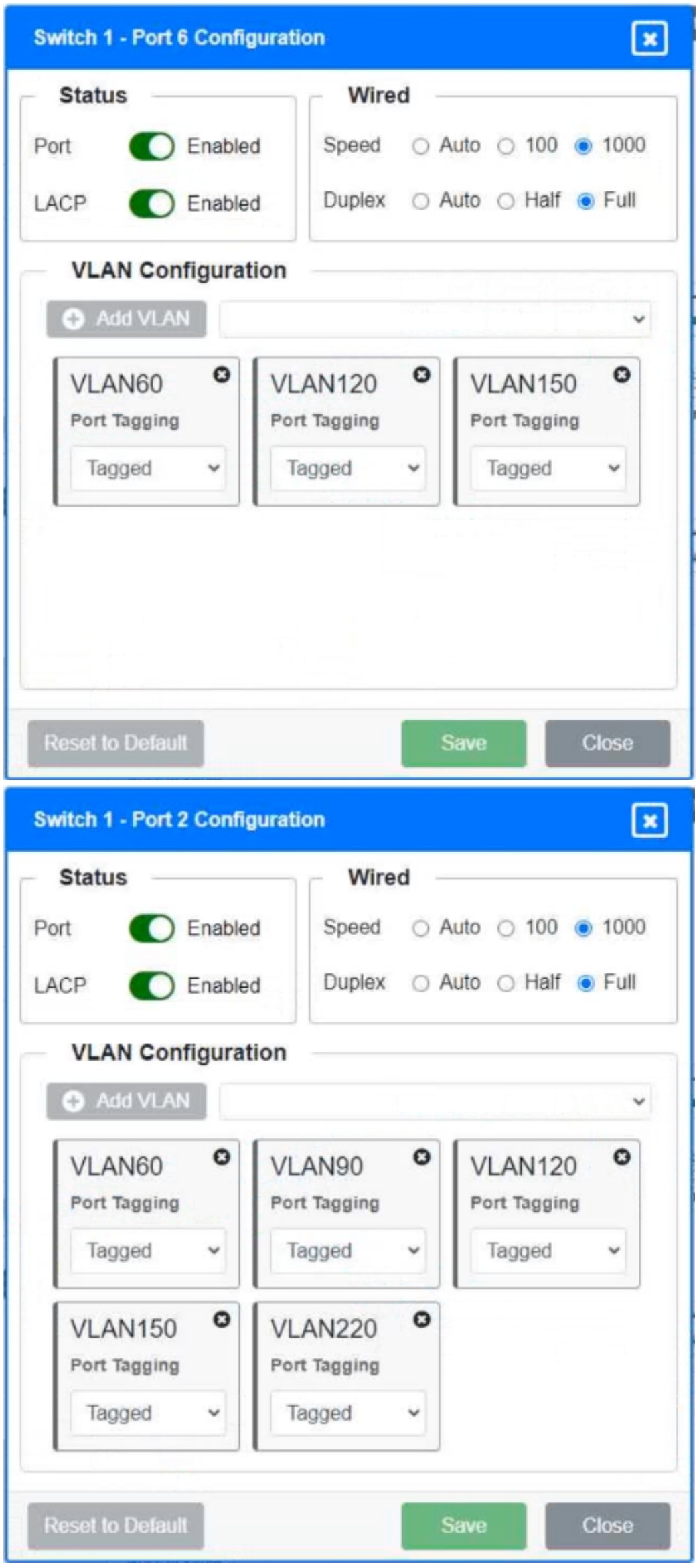
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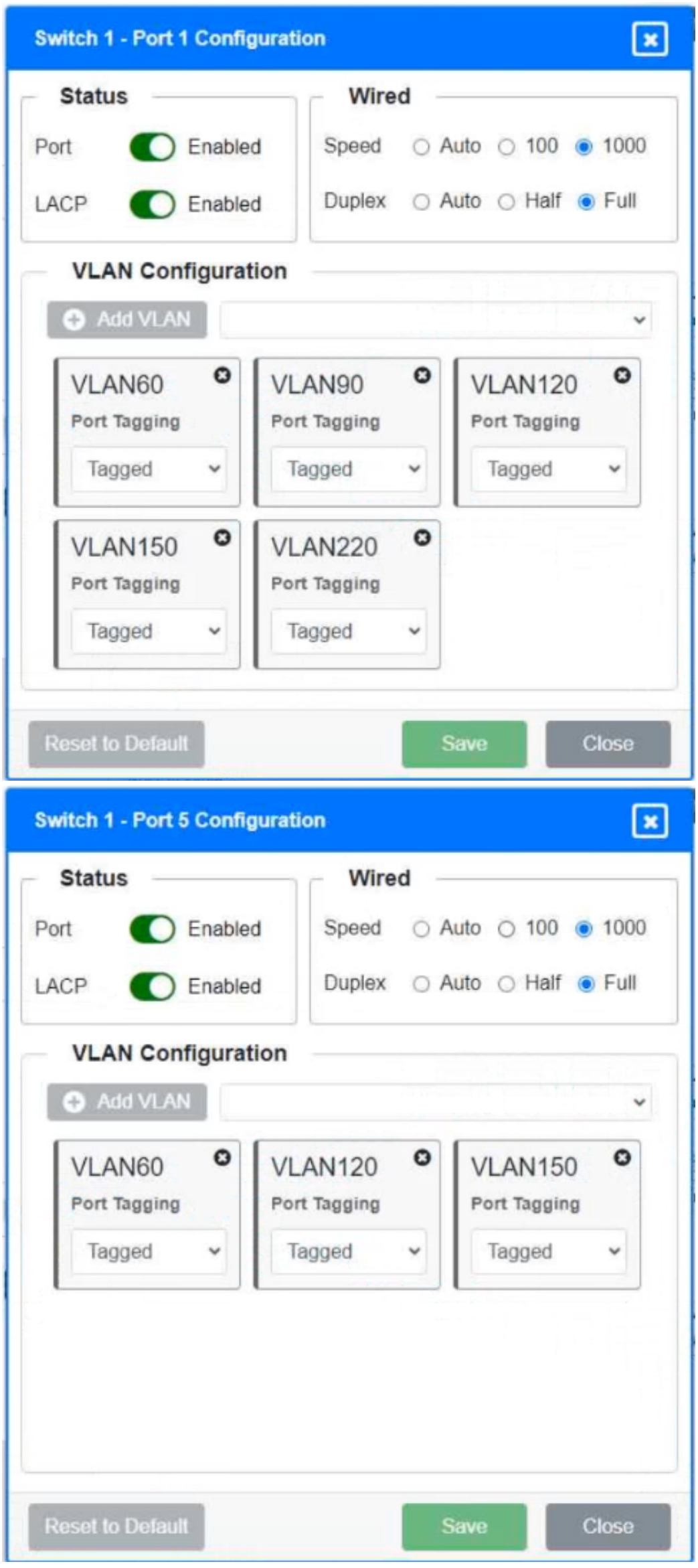
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VLAN90
Port Tagging
Tagged
VLAN120
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Tagged
VLAN150
Port Tagging
Tagged
VLAN220
Port Tagging
Tagged
Reset to Default
Save
Close
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LACP
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Wired
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Duplex
Auto
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Full
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Reset to Default
Save
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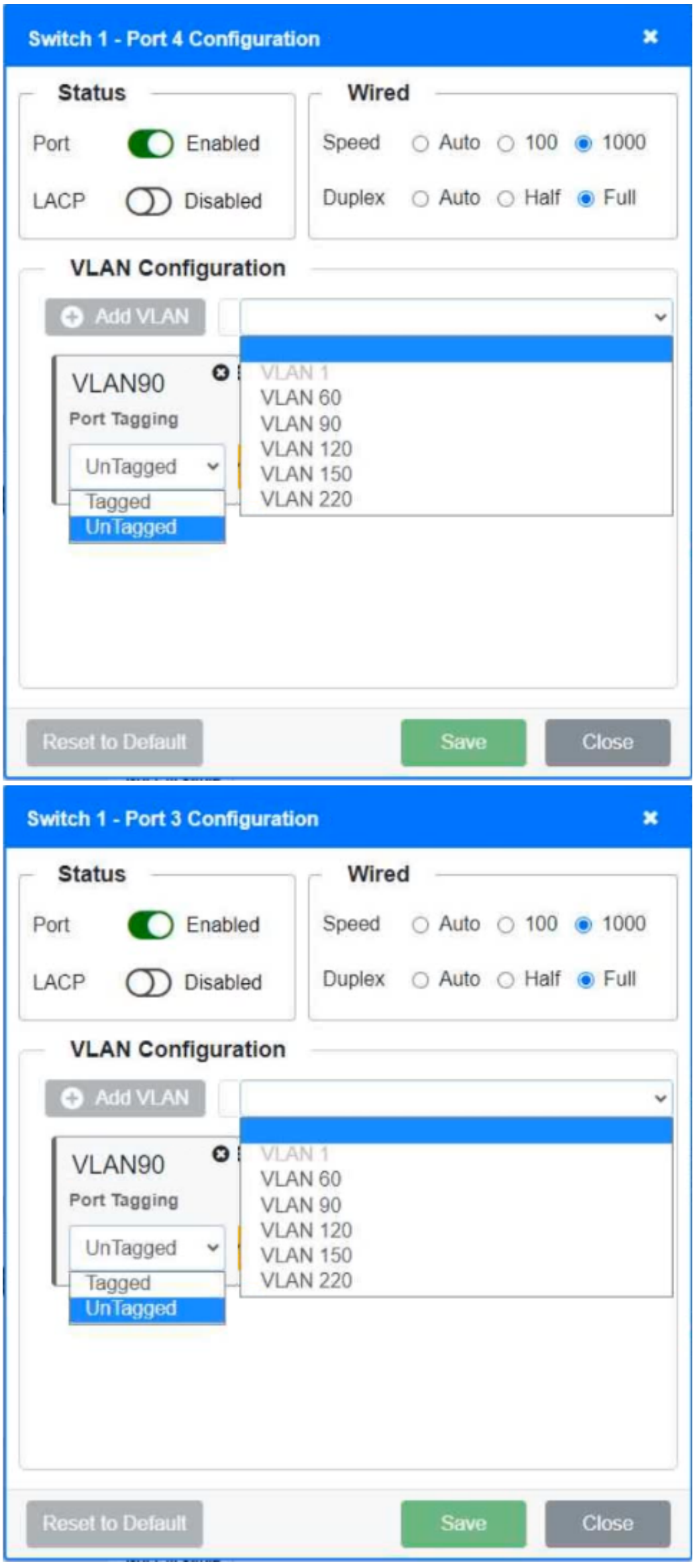
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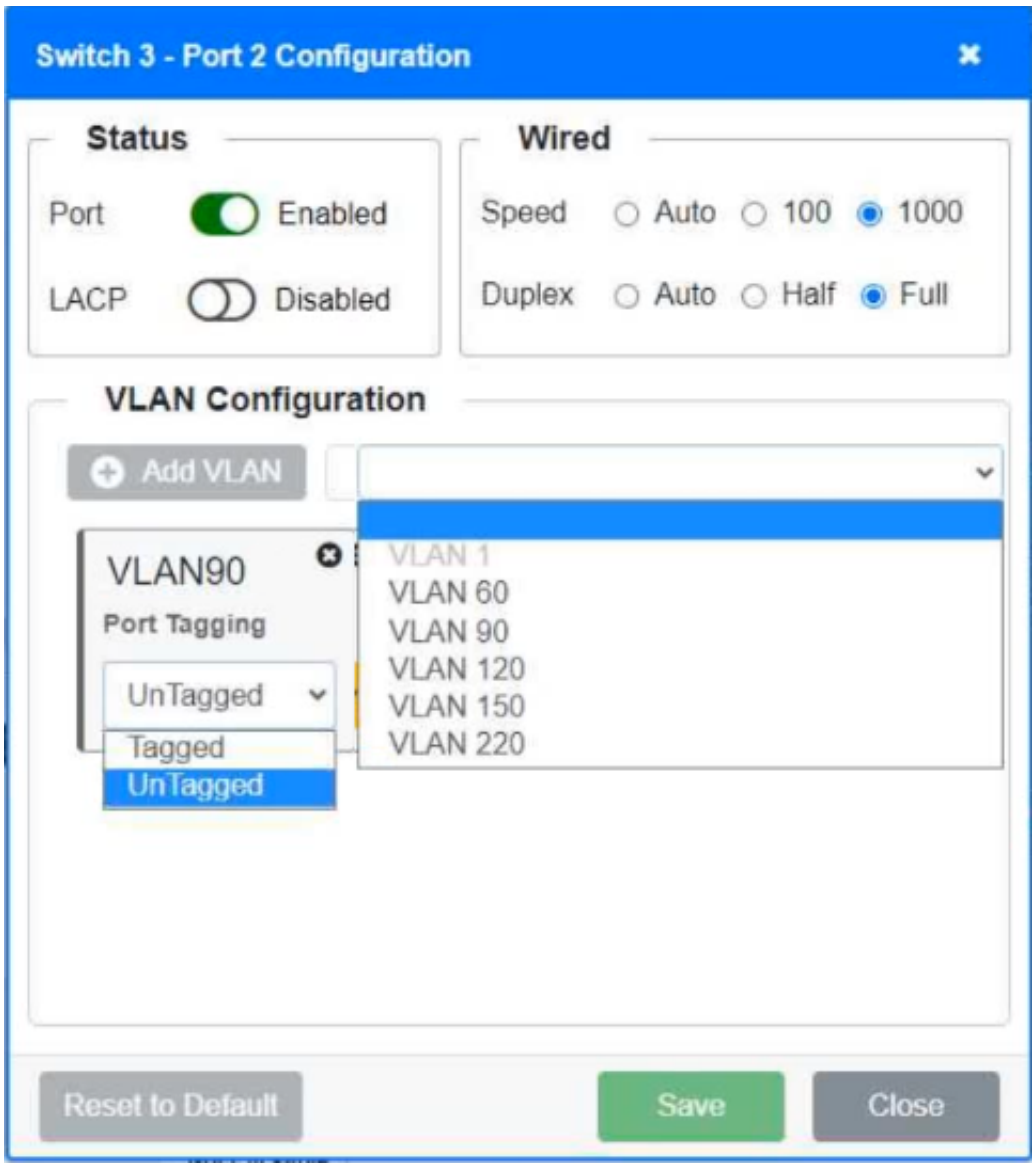
Tagged
UnTagged
VLAN 1
VLAN 60
VLAN 90
VLAN 120
VLAN 150
VLAN 220
Reset to Default
Save
Close
Switch 1 - Port 3 Configuration
Status
Port
Enabled
LACP
Disabled
Wired
Speed
Auto
100
1000
Duplex
Auto
Half
Full
VLAN Configuration
Add VLAN
VLAN90
Port Tagging
UnTagged
Tagged
UnTagged
VLAN 1
VLAN 60
VLAN 90
VLAN 120
VLAN 150
VLAN 220
Reset to Default
Save
Close



A. Mastered
B. Not Mastered

Answer: A

Explanation:
Switch 1 and Switch 2 is the only two switches that can be configured. Only switches linked together with there switch ports needs to be "tagged" and "LACP" needs to be enabled. The other ports must be untagged with no LACP enabled. You only need to assign the correct vlan via each port. 'Speed and Duplex' needs to be Speed=1000 and Duplex=Full, with is by default.
https://resources.infosecinstitute.com/topic/what-are-tagged-and-untagged-ports/

NEW QUESTION 321
- (Exam Topic 3)
Which of the following options represents the participating computers in a network?

A. Nodes
B. CPUs
C. Servers
D. Clients

Answer: A

NEW QUESTION 324
- (Exam Topic 3)
A company needs a redundant link to provide a channel to the management network in an incident response scenario. Which of the following remote access methods provides the BEST solution?

A. Out-of-band access
B. Split-tunnel connections
C. Virtual network computing
D. Remote desktop gateways

Answer: A

Explanation:
Out-of-band access is a remote access method that provides a separate, independent channel for accessing network devices and systems. Out-of-band access uses a dedicated network connection or a separate communication channel, such as a dial-up or cellular connection, to provide access to network devices and systems. This allows an administrator to access the management network even if the primary network connection is unavailable or impaired. Out-of-band access is a good solution for providing a redundant link to the management network in an incident response scenario because it can be used to access the network even if the primary connection is unavailable or impaired.

NEW QUESTION 328
- (Exam Topic 3)
A network technician receives a report from the server team that a server's network connection is not working correctly. The server team confirms the server is operating correctly except for the network connection. The technician checks the switchport connected to the server and reviews the following data;

Metric	Value
Bytes input	441,164,698
Bytes output	2,625,115,257
Runts	0
CRCs	5,489
Collisions	1
MDIX	On
Speed	1,000
Duplex	Full

Which of the following should the network technician perform to correct the issue?

A. Replace the Cat 5 patch cable with a Cat 6 cable
B. Install a crossover cable between the server and the switch
C. Reset the switchport configuration.
D. Use NetFlow data from the switch to isolate the issue.
E. Disable MDIX on the switchport and reboot the server.

Answer: A

Explanation:
"Bad cables, incorrect pinouts, or bent pins: Faulty cables (with electrical characteristics preventing successful transmission) or faulty connectors (which do not properly make connections) can prevent successful data transmission at Layer 1. A bad cable could simply be an incorrect category of cable being used for a specific purpose. For example, using a Cat 5 cable (instead of a Cat 6 or higher cable) to connect two 1000BASE-TX devices would result in data corruption. Bent pins in a connector or incorrect pinouts could also cause data to become corrupted."

NEW QUESTION 329
- (Exam Topic 3)
Which of the following describes when an active exploit is used to gain access to a network?

A. Penetration testing
B. Vulnerability testing
C. Risk assessment
D. Posture assessment
E. Baseline testing

Answer: A

Explanation:
Penetration testing is a type of security testing that is used to assess the security of a system or network by actively exploiting known vulnerabilities. It is used to simulate an attack on the system and identify any weaknesses that may be exploited by malicious actors. As stated in the CompTIA Security+ Study Guide, "penetration testing is a type of security assessment that attempts to gain unauthorized access to networks and systems by exploiting security vulnerabilities."

NEW QUESTION 334
- (Exam Topic 3)
A user in a branch office reports that access to all files has been lost after receiving a new PC. All other users in the branch can access fileshares. The IT engineer who is troubleshooting this incident is able to ping the workstation from the branch router, but the machine cannot ping the router. Which of the following is MOST likely the cause of the incident?

A. Incorrect subnet mask
B. Incorrect DNS server
C. Incorrect IP class
D. Incorrect TCP port

Answer: A

NEW QUESTION 337
- (Exam Topic 3)
Which of the following layers of the OSI model has new protocols activated when a user moves from a wireless to a wired connection?

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

Answer: A

Explanation:
"The Data Link layer also determines how data is placed on the wire by using an access method. The wired access method, carrier-sense multiple access with collision detection (CSMA/CD), was once used by all wired Ethernet networks, but is automatically disabled on switched full-duplex links, which have been the norm for decades. Carrier-sense multiple access with collision avoidance (CSMA/CA) is used by wireless networks, in a similar fashion."

NEW QUESTION 339
- (Exam Topic 3)
A user calls the help desk to report being unable to reach a file server. The technician logs in to the user's computer and verifies that pings fall to respond back when trying to reach the file server. Which of the following would BEST help the technician verify whether the file server is reachable?

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

Answer: D

Explanation:
Traceroute is a network diagnostic tool that allows you to trace the path that network packets take from one device to another. By running traceroute to the file server, the technician can see the sequence of devices and networks that the packets pass through on their way to the file server. This can help the technician to determine if there is a problem with the network connection between the user's computer and the file server, or if the issue is with the file server itself.

NEW QUESTION 344
- (Exam Topic 3)
An IT technician successfully connects to the corporate wireless network at a hank. While performing some tests, the technician observes that the physical address of the DHCp server has changed even though the network connection has not been lost. Which of the following would BEST explain this change?

A. Server upgrade
B. Duplicate IP address
C. Scope exhaustion
D. Rogue server

Answer: D

Explanation:
A rogue server is a DHCP server on a network that is not under the administrative control of the network staff 1. It may provide incorrect IP addresses or other network configuration information to devices on the network, causing them to lose connectivity or be vulnerable to attacks2. The physical address of the DHCP server may change if a rogue server takes over the role of assigning IP addresses to devices on the network. This can be detected by monitoring DHCP traffic or using tools such as RogueChecker2.

NEW QUESTION 349
- (Exam Topic 3)
A network administrator is investigating a network event that is causing all communication to stop. The network administrator is unable to use SSH to connect to the switch but is able to gain access using the serial console port. While monitoring port statistics, the administrator sees the following:

Total Rx (bps)	23,041,464	Total Tx (bps)	621,032
Unicast Rx (Pkts/sec)	102,465	Unicast Tx (Pkts/sec)	66
B/Mcast Rx (Pkts/sec)	21,456.465	B/Mcast Tx (Pkts/sec)	7
Utilization Rx	2.3%	Utilization Tx	0.06%

Which of the following is MOST likely causing the network outage?

A. Duplicate IP address
B. High collisions
C. Asynchronous route
D. Switch loop

Answer: B

NEW QUESTION 352
- (Exam Topic 3)
Which of the following is used to elect an STP root?

A. A bridge ID
B. A bridge protocol data unit
C. Interface port priority
D. A switch's root port

Answer: B

Explanation:
"Using special STP frames known as bridge protocol data units (BPDUs), switches communicate with other switches to prevent loops from happening in the first place. Configuration BPDUs establish the topology, where one switch is elected root bridge and acts as the center of the STP universe. Each switch then uses the root bridge as a reference point to maintain a loop-free topology."

NEW QUESTION 357
- (Exam Topic 3)
A company joins a bank's financial network and establishes a connection to the clearinghouse servers in the range 192 168.124.0/27. An IT technician then realizes the range exists within the VM pool at the data center. Which of the following is the BEST way for the technician to connect to the bank's servers?

A. NAT

B. PAT
C. CIDR
D. SLAAC

Answer: A

NEW QUESTION 359
- (Exam Topic 3)
A company is considering shifting its business to the cloud. The management team is concerned at the availability of the third-party cloud service. Which of the following should the management team consult to determine the promised availability of the cloud provider?

A. Memorandum of understanding
B. Business continuity plan
C. Disaster recovery plan
D. Service-level agreement

Answer: D

Explanation:
A Service-level agreement (SLA) is a document that outlines the responsibilities of a cloud service provider and the customer. It typically includes the agreed-upon availability of the cloud service provider, the expected uptime for the service, and the cost of any downtime or other service interruptions. Consulting the SLA is the best way for the management team to determine the promised availability of the cloud provider. Reference: CompTIA Cloud+ Study Guide, 6th Edition, page 28.

NEW QUESTION 363
- (Exam Topic 3)
Which of the following connectors and terminations are required to make a Cat 6 cable that connects from a PC to a non-capable MDIX switch? (Select TWO).

A. T1A-568-A - TIA-568-B
B. TIA-568-B - TIA-568-B
C. RJ11
D. RJ45
E. F-type

Answer: AD

NEW QUESTION 365
- (Exam Topic 3)
Given the following Information:

Connection	Cable length	Cable type	Configuration
PC A to switch 1	394ft (120m)	Cat 5	Straight through
Switch 1 to switch 2	3.3ft (1m)	Cat 6	Crossover
Switch 2 to PC B	16ft (5m)	Cat 5	Straight through

Which of the following would cause performance degradation between PC A and PC B'?

A. Attenuation
B. Interference
C. Decibel loss
D. Incorrect pinout

Answer: D

NEW QUESTION 370
- (Exam Topic 3)
To access production applications and data, developers must first connect remotely to a different server From there, the developers are able to access production data Which of the following does this BEST represent?

A. A management plane
B. A proxy server
C. An out-of-band management device
D. A site-to-site VPN
E. A jump box

Answer: E

NEW QUESTION 372
- (Exam Topic 3)
A network administrator is reviewing the following metrics from a network management system regarding a switchport. The administrator suspects an issue because users are calling in regards to the switchport's performance:

Metric	Value
Uptime	201 days, 3 hours, 18 minutes
MDIX	On
CRCs	0
Giants	2508
Output queue maximum	40
Packets input	136208849
Packets output	64458087024

Based on the information in the chart above, which of the following fs the cause of these performance issues?

A. The connected device is exceeding the configured MTU.
B. The connected device is sending too many packets
C. The switchport has been up for too long
D. The connected device is receiving too many packets.
E. The switchport does not have enough CRCs

Answer: A

NEW QUESTION 376
- (Exam Topic 3)
A technician is connecting a Cat 6 Ethernet cable to a device mat only has LC poos. Which of the following win the technician MOST likely use to accomplish this task?

A. A bridge
B. A media converter
C. A repeater
D. A router

Answer: B

NEW QUESTION 378
- (Exam Topic 3)
A network technician is having issues connecting an loT sensor to the internet The WLAN settings were enabled via a custom command line, and a proper IP address assignment was received on the wireless interlace. However, when trying to connect to the internet, only HTTP redirections are being received when data Is requested. Which of the following will point to the root cause of the Issue?

A. Verifying if an encryption protocol mismatch exists.
B. Verifying If a captive portal is active for the WLAN.
C. Verifying the minimum RSSI for operation in the device's documentation
D. Verifying EIRP power settings on the access point.

Answer: C

Explanation:
A captive portal is a web page that is displayed to a user before they can access the internet or other network resources. This is often used in public or guest networks to present users with a login or terms and conditions page before they can access the internet. If a captive portal is active on the WLAN, it would explain why the IoT sensor is only receiving HTTP redirections when trying to connect to the internet.

NEW QUESTION 383
- (Exam Topic 3)
A network administrator needs to run a single command-line tool capable of displaying routing table and multicast memberships. Which of the following would BEST help the administrator achieve the requirements?

A. arp
B. show route
C. show config
D. netstate

Answer: A

NEW QUESTION 388
- (Exam Topic 3)
Which of the following architectures is used for FTP?

A. Client-server
B. Service-oriented
C. Connection-oriented
D. Data-centric

Answer: A

Explanation:
FTP (File Transfer Protocol) is a client-server based protocol, meaning that the two computers involved communicate with each other in a request-response pattern. The client sends a request to the server and the server responds with the requested data. This type of architecture is known as client-server, and it is used for many different types of applications, including FTP. Other architectures, such as service-oriented, connection-oriented, and data-centric, are not used for FTP.

NEW QUESTION 391
- (Exam Topic 3)
A user reports that a new VoIP phone works properly but the computer that is connected to the phone cannot access any network resources. Which of the following MOST Likely needs to be configured correctly to provide network connectivity to the computer?

A. Port duplex settings
B. Port aggregation
C. ARP settings
D. VLAN tags
E. MDIX settings

Answer: D

Explanation:
VLAN (virtual LAN) tags are used to identify packets as belonging to a particular VLAN. VLANs are used to segment a network into logical sub-networks, and each VLAN is assigned a unique VLAN tag. If the VLAN tag is not configured correctly, the computer may not be able to access network resources.

NEW QUESTION 393
- (Exam Topic 3)
Which of the following types of datacenter architectures will MOST likely be used in a large SDN and can be extended beyond the datacenter? (Choose two.)

A. iSCSI
B. FCoE
C. Three-tiered network
D. Spine and leaf
E. Top-of-rack switching

Answer: CD

NEW QUESTION 395
- (Exam Topic 3)
Which of the following describes the ability of a corporate IT department to expand its cloud-hosted VM environment with minimal effort?

A. Scalability
B. Load balancing
C. Multitenancy
D. Geo-redundancy

Answer: A

Explanation:
Scalability is the ability of a corporate IT department to expand its cloud-hosted virtual machine (VM) environment with minimal effort. This allows IT departments to quickly and easily scale up their cloud environment to meet increased demand. Scalability also allows for the efficient use of resources, as IT departments can quickly and easily scale up or down as needed.

NEW QUESTION 398
- (Exam Topic 3)
A network administrator is adding a new switch to the network. Which of the following network hardening techniques would be BEST to use once the switch is in production?

A. Disable unneeded ports
B. Disable SSH service
C. Disable MAC filtering
D. Disable port security

Answer: A

NEW QUESTION 400
- (Exam Topic 3)
A corporate client is experiencing global system outages. The IT team has identified multiple potential underlying causes throughout the enterprise Each team member has been assigned an area to trouble shoot. Which of the following approaches is being used?

A. Divide-and-conquer
B. Top-to-bottom
C. Bottom-to-top
D. Determine if anything changed

Answer: A

NEW QUESTION 402
- (Exam Topic 3)
A technician is configuring a static IP address on a new device in a newly created subnet. The work order specifies the following requirements:
• The IP address should use the highest address available in the subnet.
• The default gateway needs to be set to 172.28.85.94.
• The subnet mask needs to be 255.255.255.224.
Which of the following addresses should the engineer apply to the device?

A. 172.28.85.93
B. 172.28.85.95
C. 172.28.85.254
D. 172.28.85.255

Answer: A

Explanation:
https://www.tunnelsup.com/subnet-calculator/ IP Address: 172.28.85.95/27
Netmask: 255.255.255.224
Network Address: 172.28.85.64

Usable Host Range: 172.28.85.65 - 172.28.85.94
Broadcast Address: 172.28.85.95

NEW QUESTION 405
- (Exam Topic 3)
Two users on a LAN establish a video call. Which of the following OSI model layers ensures the initiation coordination, and termination of the call?

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

Answer: A

Explanation:
The OSI model layer that ensures the initiation, coordination, and termination of a video call is the session layer. The session layer is responsible for establishing, maintaining, and terminating communication sessions between two devices on a network.

NEW QUESTION 408
- (Exam Topic 3)
A company has multiple offices around the world. The computer rooms in some office locations are too warm Dedicated sensors are in each room, but the process of checking each sensor takes a long time. Which of the following options can the company put In place to automate temperature readings with internal resources?

A. Implement NetFlow.
B. Hire a programmer to write a script to perform the checks
C. Utilize ping to measure the response.
D. Use SNMP with an existing collector server

Answer: D

Explanation:
SNMP (Simple Network Management Protocol) is a protocol that allows network devices to communicate with a management server. By using SNMP, the company can set up an SNMP agent on each sensor, which will report its temperature readings to an existing collector server. This will enable the company to monitor the temperatures of all their sensors in real-time without the need for manual checks. Additionally, SNMP's scalability means that even if the company adds more rooms or sensors, the existing system can be easily expanded to accommodate them.

NEW QUESTION 409
- (Exam Topic 3)
A help desk technician is concerned that a client's network cable issues may be causing intermittent connectivity. Which of the following would help the technician determine if this is the issue?

A. Run the show interface command on the switch
B. Run the tracerouute command on the server
C. Run iperf on the technician's desktop
D. Ping the client's computer from the router
E. Run a port scanner on the client's IP address

Answer: A

Explanation:
To determine if a client's network cable issues may be causing intermittent connectivity, the help desk technician can run the show interface command on the switch. This command allows the technician to view the status and statistics of the various interfaces on the switch, including the physical link status and the number of transmitted and received packets. If the interface is experiencing a large number of errors or dropped packets, this could indicate a problem with the network cable or with the connection between the client's device and the switch.
"Cisco routers and switches have a show interfaces IOS command that provides interface statistics/status information, including link state (up/down), speed/duplex, send/receive traffic, cyclic redundancy checks (CRCs), and protocol packet and byte counts."

NEW QUESTION 413
- (Exam Topic 3)
A corporation is looking for a method to secure all traffic between a branch office and its data center in order to provide a zero-touch experience for all staff members who work there. Which of the following would BEST meet this requirement?

A. Site-to-site VPN
B. VNC
C. Remote desktop gateway
D. Virtual LANs

Answer: A

NEW QUESTION 417
- (Exam Topic 3)
A technician is troubleshooting reports that a networked printer is unavailable. The printer's IP address is configured with a DHCP reservation, but the address cannot be pinged from the print server in the same subnet. Which of the following is MOST likely the cause of me connectivity failure?

A. Incorrect VLAN
B. DNS failure
C. DHCP scope exhaustion
D. Incorrect gateway

Answer: D

NEW QUESTION 422
- (Exam Topic 3)
The following DHCP scope was configured for a new VLAN dedicated to a large deployment of 325 loT sensors:

```
DHCP networkI scope:      10.10.0.0/24
Exclusion range:          10.10.10.1-10.10.10.10
Gateway:                  10.10.0.1
DNS:                      10.10.0.2
DHCP option 66(TFTP):     10.10.10.4
DHCP option 4(NTP):       10.10.10.5
```

The first 244 loT sensors were able to connect to the TFTP server, download the configuration file, and register to an loT management system. The other sensors are being shown as offline. Which of the following should be performed to determine the MOST likely cause of the partial deployment of the sensors?

A. Check the gateway connectivity to the TFTP server.
B. Check the DHCP network scope.
C. Check whether the NTP server is online.
D. Check the loT devices for a hardware failure.

Answer: B

NEW QUESTION 423
- (Exam Topic 3)
An administrator notices that after contact with several switches in an MDF they failed due to electrostatic discharge. Which of the Mowing sensors should the administrator deploy to BEST monitor static electricity conditions in the MDF?

A. Temperature
B. Humidity
C. Smoke
D. Electrical

Answer: B

Explanation:
"Humidity control prevents the buildup of static electricity and reduces the chances of electronic components becoming vulnerable to damage from electrostatic shock; not only can very low humidity lead to increased static electricity, but it can also contribute to health problems, such as skin irritation."

NEW QUESTION 425
- (Exam Topic 3)
An ISP is unable to provide services to a user in a remote area through cable and DSL. Which of the following is the NEXT best solution to provide services without adding external infrastructure?

A. Fiber
B. Leased line
C. Satellite
D. Metro optical

Answer: C

Explanation:
If an ISP is unable to provide services to a user in a remote area through cable and DSL, the next best solution to provide services without adding external infrastructure would likely be satellite. Satellite is a wireless communication technology that uses a network of satellites orbiting the Earth to transmit and receive data. It is well-suited for providing connectivity to remote or rural areas where other types of infrastructure may not be available or may be cost-prohibitive to install.

NEW QUESTION 430
- (Exam Topic 3)
A network administrator wants to check all network connections and see the output in integer form. Which of the following commands should the administrator run on the command line?

A. netstat
B. netstat -a
C. netstat —e
D. netstat —n

Answer: A

NEW QUESTION 435
- (Exam Topic 3)
Which of the following is conducted frequently to maintain an updated list of a system's weaknesses?

A. Penetration test
B. Posture assessment
C. Risk assessment
D. Vulnerability scan

Answer: D

NEW QUESTION 436
- (Exam Topic 3)
An engineer needs to verity the external record tor SMTP traffic. The engineer logged in to the server and entered the nslookup command. Which of the following commands should the engineer send before entering the DNS name?

A. set type=A
B. is -d company-mail.com
C. set domain=company.mail.com
D. set querytype=Mx

Answer: D

NEW QUESTION 437
- (Exam Topic 3)
A technician discovered that some information on the local database server was changed during a tile transfer to a remote server. Which of the following should concern the technician the MOST?

A. Confidentiality
B. Integrity
C. DDoS
D. On-path attack

Answer: B

Explanation:
The technician should be most concerned about data integrity and security. If information on the local database server was changed during a file transfer to a remote server, it could indicate that unauthorized access or modifications were made to the data. It could also indicate a failure in the file transfer process, which could result in data loss or corruption. The technician should investigate the cause of the changes and take steps to prevent it from happening again in the future. Additionally, they should verify the integrity of the data and restore it from a backup if necessary to ensure that the correct and complete data is available. The technician should also take appropriate actions such as notifying the system administrator and management of the incident, and following the incident management process to minimize the damage caused by the incident.

NEW QUESTION 441
- (Exam Topic 3)
Which of me following security controls indicates unauthorized hardware modifications?

A. Biometric authentication
B. Media device sanitization
C. Change management policy
D. Tamper-evident seals

Answer: A

NEW QUESTION 444
- (Exam Topic 3)
Which of the following documents would be used to define uptime commitments from a provider, along with details on measurement and enforcement?

A. NDA
B. SLA
C. MOU
D. AUP

Answer: B

Explanation:
A service level agreement (SLA) is a document that is used to define uptime commitments from a provider, along with details on measurement and enforcement. An SLA is a contract between a service provider and a customer that outlines the level of service that the provider is committed to providing and the terms under which that service will be delivered.

NEW QUESTION 445
- (Exam Topic 3)
A Fortune 500 firm is deciding On the kind or data center equipment to install given its five-year budget Outlook. The Chief Information comparing equipment based on the life expectancy Of different models.
Which Of the following concepts BEST represents this metric?

A. MTBF
B. MTRR
C. RPO
D. RTO

Answer: A

NEW QUESTION 449
- (Exam Topic 3)

A network attack caused a network outage by wiping the configuration and logs of the border firewall. Which of the following sources, in an investigation to determine how the firewall was compromised, can provide the MOST detailed data?

A. Syslog server messages
B. MIB of the attacked firewall
C. Network baseline reports
D. NetFlow aggregate data

Answer: A

NEW QUESTION 453
- (Exam Topic 3)
A technician is consolidating a topology with multiple SSIDs into one unique SSID deployment. Which of the following features will be possible after this new configuration?

A. Seamless roaming
B. Basic service set
C. WPA
D. MU-MIMO

Answer: A

NEW QUESTION 458
- (Exam Topic 3)
A technician manages a DHCP scope but needs to allocate a portion of the scope's subnet for statically assigned devices. Which of the following DHCP concepts would be BEST to use to prevent IP address conflicts?

A. Dynamic assignment
B. Exclusion range
C. Address reservation
D. IP helper

Answer: B

Explanation:
To prevent IP address conflicts when allocating a portion of a DHCP scope's subnet for statically assigned devices, it is recommended to use the concept of DHCP exclusion ranges. DHCP exclusion ranges allow a DHCP administrator to specify a range of IP addresses within the scope that should not be assigned to DHCP clients. This can be useful in situations where some devices on the network need to be assigned static IP addresses, as it ensures that the statically assigned addresses do not overlap with addresses assigned by the DHCP server. To set up a DHCP exclusion range, the administrator needs to specify the start and end IP addresses of the range, as well as the subnet mask. The DHCP server will then exclude the specified range of addresses from its pool of available addresses, and will not assign them to DHCP clients. By using DHCP exclusion ranges, the technician can ensure that the statically assigned addresses do not conflict with addresses assigned by the DHCP server, and can prevent IP address conflicts on the network.
Anthony Sequeira
"Another frequent configuration you might make in a DHCP implementation is to configure an exclusion range. This is a portion of the address pool that you never want leased out to clients in the network. Perhaps you have numbered your servers 192.168.1.1–192.168.1.10. Because the servers are statically configured with these addresses, you exclude these addresses from the 192.168.1.0/24 pool of addresses."
Mike Meyers
"Exclusion ranges represent an IP address or range of IP addresses from the pool of addresses that are not to be given out by the DHCP server. Exclusions should be made for the static addresses manually configured on servers and router interfaces, so these IP addresses won't be offered to DHCP clients."

NEW QUESTION 460
- (Exam Topic 3)
A network administrator is setting up a new phone system and needs to define the location where VoIP phones can download configuration files. Which of the following DHCP services can be used to accomplish this task?

A. Scope options
B. Exclusion ranges
C. Lease time
D. Relay

Answer: A

Explanation:
To define the location where VoIP phones can download configuration files, the network administrator can use scope options within the Dynamic Host Configuration Protocol (DHCP) service. Scope options are a set of values that can be configured within a DHCP scope, which defines a range of IP addresses that can be leased to clients on a network. One of the scope options that can be configured is the option for the location of the configuration file server, which specifies the URL or IP address of the server where the configuration files can be downloaded.
https://pbxbook.com/voip/dhcpcfg.html

NEW QUESTION 465
- (Exam Topic 3)
A network administrator is installing a new server in the data center. The administrator is concerned the amount of traffic generated will exceed 1GB. and higher-throughput NiCs are not available for installation. Which of the following is the BEST solution for this issue?

A. Install an additional NIC and configure LACP.
B. Remove some of the applications from the server.
C. Configure the NIC to use fun duplex
D. Configure port mirroring to send traffic to another server.
E. Install a SSD to decrease data processing time.

Answer: A

NEW QUESTION 469
- (Exam Topic 3)
A company just migrated its email service to a cloud solution. After the migration, two-thirds of the internal users were able to connect to their mailboxes, but the connection fails for the other one-third of internal users. Users working externally are not reporting any issues. The network administrator identifies the following output collected from an internal host:
c:\user> nslookup newmail.company.com
Non-Authoritative answer:
Name: newmail.company.com
IPs: 3.219.13.186, 64.58.225.184, 184.168.131.243
Which of the following verification tasks should the network administrator perform NEXT?

A. Check the firewall ACL to verify all required IP addresses are included.
B. Verify the required router PAT rules are properly configured.
C. Confirm the internal DNS server is replying to requests for the cloud solution.
D. Validate the cloud console to determine whether there are unlicensed requests.

Answer: A

NEW QUESTION 473
- (Exam Topic 3)
An auditor assessing network best practices was able to connect a rogue switch into a network Jack and get network connectivity. Which of the following controls would BEST address this risk?

A. Activate port security on the switchports providing end user access.
B. Deactivate Spanning Tree Protocol on network interfaces that are facing public areas.
C. Disable Neighbor Resolution Protocol in the Layer 2 devices.
D. Ensure port tagging is in place for network interfaces in guest areas

Answer: A

NEW QUESTION 478
- (Exam Topic 3)
A small office has a wireless network with several access points that are used by mobile devices. Users occasionally report that the wireless connection drops or becomes very slow. Reports confirm that this only happens when the devices are connected to the office wireless network. Which of the following is MOST likely the cause?

A. The configuration of the encryption protocol
B. Interference from other devices
C. Insufficient bandwidth capacity
D. Duplicate SSIDs

Answer: B

NEW QUESTION 481
- (Exam Topic 3)
Which of the following OSI model layers contains IP headers?

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

Answer: D

NEW QUESTION 486
- (Exam Topic 3)
A technician is investigating an issue with connectivity at customer's location. The technician confirms that users can access resources locally but not over the internet The technician theorizes that the local router has failed and investigates further. The technician's testing results show that the route is functional: however, users still are unable to reach resources on the internal. Which of the following describes what the technician should do NEXT?

A. Document the lessons learned
B. Escalate the issue
C. identify the symptoms.
D. Question users for additional information

Answer: C

Explanation:
According to the CompTIA Network+ troubleshooting model123, this is the first step in troubleshooting a network problem. The technician should gather information about the current state of the network, such as error messages, device status, network topology, and user feedback. This can help narrow down the scope of the problem and eliminate possible causes.

NEW QUESTION 490
- (Exam Topic 3)

An engineer recently decided to upgrade the firmware on a router. During the upgrade, the help desk received calls about a network outage, and a critical ticket was opened. The network manager would like to create a policy to prevent this from happening in the future. Which of the following documents should the manager create?

A. Change management
B. incident response
C. Standard operating procedure
D. System life cycle

Answer: A

NEW QUESTION 492
- (Exam Topic 3)
A company's primary ISP is experiencing an outage. However, the network administrator notices traffic continuing to flow through a secondary connection to the same ISP. Which of the following BEST describes this configuration?

A. Diverse paths
B. Load balancing
C. Multipathing
D. Virtual Router Redundancy Protocol

Answer: A

NEW QUESTION 497
- (Exam Topic 3)
Which of the following can be used to centrally manage credentials for various types of administrative privileges on configured network devices?

A. SSO
B. TACACS+
C. Zero Trust
D. Separation of duties
E. Multifactor authentication

Answer: B

Explanation:
TACACS+ is used to authenticate users and authorize access to network resources. This protocol provides greater network security by encrypting the authentication credentials and reducing the risk of unauthorized access. According to the CompTIA Network+ Study Manual, “TACACS+ is an authentication protocol used to centralize authentication and authorization for network devices. It is a more secure alternative to Telnet for handling logins and for granting privileges to users.”

NEW QUESTION 500
- (Exam Topic 3)
Which of the following is a security flaw in an application or network?

A. A threat
B. A vulnerability
C. An exploit
D. A risk

Answer: B

Explanation:
A vulnerability is a security flaw in an application or network that can be exploited by an attacker, allowing them to gain access to sensitive data or take control of the system. Vulnerabilities can range from weak authentication methods to unpatched software, allowing attackers to gain access to the system or data they would not otherwise be able to access. Exploits are programs or techniques used to take advantage of vulnerabilities, while threats are potential dangers, and risks are the likelihood of a threat becoming a reality.

NEW QUESTION 503
- (Exam Topic 3)
Which of the following describes the BEST device to configure as a DHCP relay?

A. Bridge
B. Router
C. Layer 2 switch
D. Hub

Answer: B

Explanation:
Normally, routers do not forward broadcast traffic. This means that each broadcast domain must be served by its own DHCP server. On a large network with multiple subnets, this would mean provisioning and configuring many DHCP servers. To avoid this scenario, a DHCP relay agent can be configured to provide forwarding of DHCP traffic between subnets. Routers that can provide this type of forwarding are described as RFC 1542 compliant. The DHCP relay intercepts broadcast DHCP frames, applies a unicast address for the appropriate DHCP server, and forwards them over the interface for the subnet containing the server. The DHCP server can identify the original IP subnet from the packet and offer a lease from the appropriate scope. The DHCP relay also performs the reverse process of directing responses from the server to the appropriate client subnet.

NEW QUESTION 505

- (Exam Topic 3)
An IT officer is installing a new WAP. Which of the following must the officer change to conned users securely to the WAP?

A. AES encryption
B. Channel to the highest frequency within the band
C. TKIP encryption protocol
D. Dynamic selection of the frequency

Answer: A

NEW QUESTION 509
- (Exam Topic 3)
To comply with an industry regulation, all communication destined to a secure server should be logged and archived on a storage device. Which of the Mowing can be configured to fulfill this requirement?

A. QoS traffic classification
B. Port mirroring
C. Flow control
D. Link Aggregation Control Protocol

Answer: B

NEW QUESTION 510
- (Exam Topic 3)
A network administrator is decommissioning a server. Which of the following will the network administrator MOST likely consult?

A. Onboarding and off boarding policies
B. Business continuity plan
C. Password requirements
D. Change management documentation

Answer: D

NEW QUESTION 512
- (Exam Topic 3)
Which of the following protocols would enable a company to upgrade its internet connection by acquiring its own public IP prefixes and autonomous system number?

A. EIGRP
B. BGP
C. IPv6
D. MPLS

Answer: B

Explanation:
BGP is a routing protocol that is used to exchange routing information between different autonomous systems (ASes) on the internet. An autonomous system is a network or group of networks that is under the same administrative control and uses a common routing protocol. By acquiring its own public IP prefixes and autonomous system number, a company can use BGP to advertise these prefixes to other ASes and establish its own internet connection. This would enable the company to have more control over its internet connection and potentially improve its connectivity.EIGRP (Enhanced Interior Gateway Routing Protocol) is a routing protocol used within a single autonomous system, so it would not be used to establish a connection to the internet. IPv6 is a version of the Internet Protocol (IP) used to identify devices on a network. It is not a routing protocol and would not be used to establish an internet connection.MPLS (Multi-Protocol Label Switching) is a networking technology that is used to route packets between different networks. It is not a routing protocol and would not be used to establish an internet connection.

NEW QUESTION 515
- (Exam Topic 3)
A technician is trying to install a VoIP phone, but the phone is not turning on. The technician checks the cable gong from the phone to the switch, and the cable is good. Which of the following actions IS needed for this phone to work?

A. Add a POE injector
B. Enable MDIX.
C. Use a crossover cable.
D. Reconfigure the port.

Answer: A

NEW QUESTION 516
- (Exam Topic 3)
Which of the following is the IEEE link cost for a Fast Ethernet interface in STP calculations?

A. 2
B. 4
C. 19
D. 100

Answer: D

Explanation:
The IEEE standard for link cost for a Fast Ethernet interface is 100, and for a Gigabit Ethernet interface is 19. These values are based on the bandwidth of the interface, with lower values indicating a higher-bandwidth interface.

NEW QUESTION 517
- (Exam Topic 3)
A client utilizes mobile tablets to view high-resolution images and videos via Wi-Fi within a corporate office building. The previous administrator installed multiple high-density APs with Wi-Fi 5, providing maximum coverage, but the measured performance is still below expected levels. Which of the following would provide the BEST solution?

A. Channel bonding
B. EiRP power settings
C. Antenna polarization
D. A directional antenna

Answer: D

NEW QUESTION 521
- (Exam Topic 3)
Which of the following bandwidth management techniques uses buffers al the client side to prevent TCP retransmissions from occurring when the ISP starts to drop packets of specific types that exceed the agreed traffic rate?

A. Traffic shaping
B. Traffic policing
C. Traffic marking
D. Traffic prioritization

Answer: D

NEW QUESTION 526
- (Exam Topic 3)
Which of the following would be BEST to install to find and block any malicious users within a network?

A. IDS
B. IPS
C. SCADA
D. ICS

Answer: B

Explanation:
IPS takes action itself to block the attempted intrusion or otherwise remediate the incident. IDS is designed to only provide an alert about a potential incident, which enables a security operations center (SOC) analyst to investigate the event and determine whether it requires further action.

NEW QUESTION 529
- (Exam Topic 3)
A company with multiple routers would like to implement an HA network gateway with the least amount of downtime possible. This solution should not require changes on the gateway setting of the network clients. Which of the following should a technician configure?

A. Automate a continuous backup and restore process of the system's state of the active gateway.
B. Use a static assignment of the gateway IP address on the network clients.
C. Configure DHCP relay and allow clients to receive a new IP setting.
D. Configure a shared VIP and deploy VRRP on the routers.

Answer: D

Explanation:
The open standard protocol Virtual Router Redundancy Protocol (VRRP) is similar to HSRP, the differences mainly being in terminology and packet formats. In VRRP, the active router is known as the master, and all other routers in the group are known as backup routers. There is no specific standby router; instead, all backup routers monitor the status of the master, and in the event of a failure, a new master router is selected from the available backup routers based on priority

NEW QUESTION 532
- (Exam Topic 3)
A network administrator is testing performance improvements by configuring channel bonding on an 802.Hac AP. Although a site survey detected the majority of the 5GHz frequency spectrum was idle, being used only by the company's WLAN and a nearby government radio system, the AP is not allowing the administrator to manually configure a large portion of the 5GHz frequency range. Which of the following would be BEST to configure for the WLAN being tested?

A. Upgrade the equipment to an AP that supports manual configuration of the ElRP power settings.
B. Switch to 802.11
C. disable channel auto-selection, and enforce channel bonding on the configuration.
D. Set up the AP to perform a dynamic selection of the frequency according to regulatory requirements.
E. Deactivate the band 5GHz to avoid Interference with the government radio

Answer: C

NEW QUESTION 535

- (Exam Topic 3)
A coffee shop owner hired a network consultant to provide recommendations for installing a new wireless network. The coffee shop customers expect high speeds even when the network is congested. Which of the following standards should the consultant recommend?

A. 802.11ac
B. 802.11ax
C. 802.11g
D. 802.11n

Answer: B

Explanation:
* 802.11 ax is the latest and most advanced wireless standard, providing higher speeds, lower latency, and more capacity than previous standards. It also supports OFDMA, which allows multiple devices to share a channel and reduce congestion. The other options are older standards that have lower bandwidth, range, and efficiency than 802.11ax. Therefore, 802.11ax is the best option for the coffee shop owner who wants to provide high speeds even when the network is congested.

NEW QUESTION 537
- (Exam Topic 3)
A network administrator installed an additional IDF during a building expansion project. Which of the following documents need to be updated to reflect the change? (Select TWO).

A. Data loss prevention policy
B. BYOD policy
C. Acceptable use policy
D. Non-disclosure agreement
E. Disaster recovery plan
F. Physical network diagram

Answer: BF

NEW QUESTION 542
- (Exam Topic 3)
Which of the following would be the MOST cost-effective recovery solution for a company's lower-priority applications?

A. Warm site
B. Cloud site
C. Hot site
D. Cold site

Answer: C

NEW QUESTION 545
- (Exam Topic 3)
A technician was cleaning a storage closet and found a box of transceivers labeled 8Gbps. Which of the following protocols uses those transceivers?

A. Coaxial over Ethernet
B. Internet Small Computer Systems Interface
C. Fibre Channel
D. Gigabit interface converter

Answer: C

Explanation:
The transceivers labeled 8Gbps are likely to be used with the Fibre Channel protocol. Fibre Channel is a high-speed networking technology that is primarily used to connect storage devices to servers in storage area networks (SANs). It is capable of transmitting data at speeds of up to 8 Gbps (gigabits per second), and uses specialized transceivers to transmit and receive data over fiber optic cables.
Coaxial over Ethernet (CoE) is a networking technology that uses coaxial cables to transmit data, and is not related to the transceivers in question. Internet Small Computer Systems Interface (iSCSI) is a protocol that allows devices to communicate over a network using the SCSI protocol, and does not typically use specialized transceivers. Gigabit interface converter (GBIC) is a type of transceiver used to transmit and receive data over fiber optic cables, but it is not capable of transmitting data at 8 Gbps.

NEW QUESTION 549
- (Exam Topic 3)
Which of the following can be used to store various types of devices and provide contactless delivery to users?

A. Asset tags
B. Biometrics
C. Access control vestibules
D. Smart lockers

Answer: C

NEW QUESTION 551
- (Exam Topic 3)
Which of the following BEST describes a spirt-tunnel client-to-server VPN connection?

A. The client sends an network traffic down the VPN tunnel
B. The client has two different IP addresses that can be connected to a remote site from two different ISPs to ensure availability

C. The client sends some network traffic down the VPN tunnel and other traffic to the local gateway.
D. The client connects to multiple remote sites at the same time

Answer: C

Explanation:
In a split-tunnel VPN, the client can access both the local network and the remote network simultaneously, with some network traffic sent through the VPN tunnel and other traffic sent to the local gateway. This approach allows for more efficient use of bandwidth and reduces the load on the VPN server. It also allows the client to continue accessing local resources while connected to the remote network.

NEW QUESTION 552
- (Exam Topic 3)
A client who shares office space and an IT closet with another company recently reported connectivity issues throughout the network. Multiple third-party vendors regularly perform on-site maintenance in the shared IT closet. Which of the following security techniques would BEST secure the physical networking equipment?

A. Disabling unneeded switchports
B. Implementing role-based access
C. Changing the default passwords
D. Configuring an access control list

Answer: A

NEW QUESTION 557
- (Exam Topic 3)
Which of the following can have multiple VLAN interfaces?

A. Hub
B. Layer 3 switch
C. Bridge
D. Load balancer

Answer: B

NEW QUESTION 559
- (Exam Topic 3)
A network is experiencing extreme latency when accessing a particular website. Which of the following commands will BEST help identify the issue?

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

Answer: C

NEW QUESTION 561
- (Exam Topic 3)
Which of the following protocols can be used to change device configurations via encrypted and authenticated sessions? (Select TWO).

A. SNMPv3
B. SSh
C. Telnet
D. IPSec
E. ESP
F. Syslog

Answer: BD

NEW QUESTION 566
- (Exam Topic 3)
A network administrator needs to provide evidence to confirm that recent network outages were caused by increased traffic generated by a recently released application. Which of the following actions will BEST support the administrator's response?

A. Generate a network baseline report for comparison.
B. Export the firewall traffic logs.
C. Collect the router's NetFlow data.
D. Plot interface statistics for dropped packets.

Answer: C

NEW QUESTION 569
- (Exam Topic 3)
Which of the following would be increased by adding encryption to data communication across the network?

A. Availability
B. Integrity
C. Accountability
D. Confidentiality

Answer: D

NEW QUESTION 572
- (Exam Topic 3)
A network security engineer locates an unapproved wireless bridge connected to the corporate LAN that is broadcasting a hidden SSID, providing unauthenticated access to internal resources. Which of the following types of attacks BEST describes this finding?

A. Rogue access point Most Voted
B. Evil twin
C. ARP spoofing
D. VLAN hopping

Answer: A

Explanation:
A rogue access point is an illegitimate access point plugged into a network to create a bypass from outside into the legitimate network. By contrast, an evil twin is a copy of a legitimate access point.

NEW QUESTION 573
- (Exam Topic 3)
A small office is running WiFi 4 APs, and neighboring offices do not want to increase the throughput to associated devices. Which of the following is the MOST cost-efficient way for the office to increase network performance?

A. Add another AP.
B. Disable the 2.4GHz radios.
C. Enable channel bonding.
D. Upgrade to WiFi 5.

Answer: C

Explanation:
Channel bonding is a practice commonly used in IEEE 802.11 implementations in which two adjacent channels within a given frequency band are combined to increase throughput between two or more wireless devices. Channel bonding is also known as Ethernet bonding, but it is used heavily in Wi-Fi implementations. It has become a very popular technique in the world of Wi-Fi because its increased throughput provides for more functionality within Wi-Fi deployments. Channel bonding is also known as NIC bonding. Source- https://www.techopedia.com/definition/2999/channel-bonding

NEW QUESTION 576
- (Exam Topic 3)
Which of the following can be used to validate domain ownership by verifying the presence of pre-agreed content contained in a DNS record?

A. SOA
B. SRV
C. AAA
D. TXT

Answer: D

Explanation:
"One final usage of the TXT resource record is how some cloud service providers, such as Azure, validate ownership of custom domains. You are provided with data to include in your TXT record, and once that is created, the domain is verified and able to be used. The thought is that if you control the DNS, then you own the domain name."

NEW QUESTION 578
- (Exam Topic 3)
While waking from the parking lot lo an access-controlled door an employee sees an authorized user open the door. Then the employee notices that another person catches the door before It closes and goes inside Which of the following attacks Is taking place?

A. Tailgating
B. Pipgybacking
C. Shoulder surfing
D. Phisning

Answer: A

Explanation:
The difference between piggybacking and tailgaiting is that with piggybacking, the person is willfully and intentionally letting you in. In this particular case, the person caught the door before it closed, so it is tailgating.

NEW QUESTION 582
- (Exam Topic 3)
Which of the following commands can be used to display the IP address, subnet address, gateway address, and DNS address on a Windows computer?

A. netstat -a
B. ifconfig
C. ip addr
D. ipconfig /all

Answer: D

Explanation:
The ipconfig command is a utility that allows you to view and modify the network configuration of a Windows computer. By running the command "ipconfig /all", you can view detailed information about the network configuration of your computer, including the IP address, subnet mask, default gateway, and DNS server addresses.
Option A (netstat -a) is a command that displays active network connections and their status, but it does not display IP address or other network configuration information. Option B (ifconfig) is a command used on Linux and Unix systems to view and modify network configuration, but it is not available on Windows. Option C (ip addr) is a command used on Linux and Unix systems to view and modify network configuration, but it is not available on Windows.

NEW QUESTION 585
- (Exam Topic 3)
Which of the following compromises internet-connected devices and makes them vulnerable to becoming part of a botnet? (Select TWO).

A. Deauthentication attack
B. Malware infection
C. IP spoofing
D. Firmware corruption
E. Use of default credentials
F. Dictionary attack

Answer: BE

NEW QUESTION 588
- (Exam Topic 3)
A network technician is attempting to increase throughput by configuring link port aggregation between a Gigabit Ethernet distribution switch and a Fast Ethernet access switch. Which of the following is the BEST choice concerning speed and duplex for all interfaces that are participating in the link aggregation?

A. Half duplex and 1GB speed
B. Full duplex and 1GB speed
C. Half duplex and 10OMB speed
D. Full duplex and 100MB speed

Answer: B

Explanation:
The best choice for configuring link port aggregation between a Gigabit Ethernet distribution switch and a Fast Ethernet access switch is to use full duplex and 1GB speed for all interfaces that are participating in the link aggregation. This will allow for maximum throughput, as the full duplex connection will enable simultaneous sending and receiving of data, and the 1GB speed will ensure that the data is transferred quickly.
According to the CompTIA Network+ Study Guide, “Full-duplex Ethernet allows the network adapter to transmit and receive data simultaneously, which can result in double the bandwidth of half-duplex Ethernet.” Additionally, the official text states, “Ethernet and Fast Ethernet use different speeds for data transmission, with Ethernet being 1,000 megabits (1 gigabit) per second and Fast Ethernet being 100 megabits per second.”

NEW QUESTION 590
- (Exam Topic 3)
A company ranis out a largo event space and includes wireless internet access for each tenant. Tenants reserve a two-hour window from the company each week, which includes a tenant-specific SSID However, all users share the company's network hardware.

Wireless encryption	WPA2
Captive portal	Disabled
AP isolation	Enabled
Subnet mask	255.255.255.0
DNS server	10.0.0.1
Default gateway	10.1.10.1
DHCP scope begin	10.1.10.10
DHCP scope end	10.1.10.150
DHCP lease time	24 hours

The network support team is receiving complaints from tenants that some users are unable to connect to the wireless network Upon investigation, the support teams discovers a pattern indicating that after a tenant with a particularly large attendance ends its sessions, tenants throughout the day are unable to connect.
The following settings are common lo all network configurations:
Which of the following actions would MOST likely reduce this Issue? (Select TWO).

A. Change to WPA encryption
B. Change the DNS server to 10.1.10.1.
C. Change the default gateway to 10.0.0.1.
D. Change the DHCP scope end to 10.1.10.250
E. Disable AP isolation
F. Change the subnet mask lo 255.255.255.192.
G. Reduce the DHCP lease time to four hours.

Answer: DG

NEW QUESTION 592
- (Exam Topic 3)
A security engineer is trying to determine whether an internal server was accessed by hosts on the internet. The internal server was shut down during the investigation Which of the following will the engineer review to determine whether the internal server had an unauthorized access attempt?

A. The server's syslog
B. The NetFlow statistics
C. The firewall logs
D. The audit logs on the core switch

Answer: A

NEW QUESTION 596
- (Exam Topic 3)
A device is connected to a managed Layer 3 network switch. The MAC address of the device is known, but the static IP address assigned to the device is not. Which of the following features of a Layer 3 network switch should be used to determine the IPv4 address of the device?

A. MAC table
B. Neighbor Discovery Protocol
C. ARP table
D. IPConfig
E. ACL table

Answer: C

Explanation:
The ARP table is a database that is used by a device to map MAC addresses to their corresponding IP addresses. When a device sends a packet to another device on the same network, it uses the MAC address of the destination device to deliver the packet. The ARP table allows the device to determine the IP address of the destination device based on its MAC address.

NEW QUESTION 599
- (Exam Topic 3)
A technician needs to configure a routing protocol for an internet-facing edge router. Which of the following routing protocols will the technician MOST likely use?

A. BGP
B. RIPv2
C. OSPF
D. EIGRP

Answer: A

NEW QUESTION 602
- (Exam Topic 3)
Which of the following network devices can perform routing between VLANs?

A. Layer 2 switch
B. Layer 3 switch
C. Load balancer
D. Bridge

Answer: B

Explanation:
https://www.practicalnetworking.net/stand-alone/routing-between-vlans/#:~:text=A%20router%20will%20perfo

NEW QUESTION 607
- (Exam Topic 3)
Which of the following devices have the capability to allow communication between two different subnetworks? (Select TWO).

A. IDS
B. Access point
C. Layer 2 switch
D. Layer 3 switch
E. Router
F. Media converter

Answer: DE

NEW QUESTION 609
- (Exam Topic 3)
During a client audit, a network analyst is tasked with recommending changes to upgrade the client network and readiness. Afield technician has submitted the following report:

Building B is connected to Building A via site-to-site directional antennas.
Thirty additional users have been added recently and are not shown on the network map.
The IT closet and storage room share a space that has poor ventilation.
Performance reports show optimal network performance but little on system health.

Based on this report, which of the following metrics or sensors would be the BEST recommendation to the client?

A. Electrical

B. Humidity
C. Flooding
D. Temperature

Answer: D

NEW QUESTION 610
- (Exam Topic 3)
Which of the following is a benefit of the spine-and-leaf network topology?

A. Increased network security
B. Stable network latency
C. Simplified network management
D. Eliminated need for inter-VLAN routing

Answer: A

NEW QUESTION 611
- (Exam Topic 3)
Which of the following devices Is used to configure and centrally manage access points Installed at different locations?

A. Wireless controller
B. Load balancer
C. Proxy server
D. VPN concentrator

Answer: A

Explanation:
Access points (APs) can be configured and centrally managed using a wireless LAN controller (WLC). A WLC is a device that connects to multiple APs and provides centralized management and control of those APs. The WLC can be used to configure settings such as wireless network parameters, security settings, and quality of service (QoS) policies. Additionally, the WLC can be used to monitor the status of connected APs, track client connections, and gather statistics on network usage. Some vendors such as Cisco, Aruba, Ruckus, etc. provide wireless LAN controllers as part of their wireless networking solutions.

NEW QUESTION 616
- (Exam Topic 3)
An administrator would like to create a fault-tolerant ring between three switches within a Layer 2 network. Which of the following Ethernet features should the administrator employ?

A. Spanning Tree Protocol
B. Open Shortest Path First
C. Port mirroring
D. An interior gateway protocol

Answer: A

Explanation:
Spanning Tree Protocol (STP) is a network protocol that ensures a loop-free topology in Ethernet networks by actively blocking certain links and enabling others. STP prevents loops by putting some of the links in a blocking state, effectively creating a loop-free topology. This ensures that there is only one active path between two devices, which helps prevent network loops and the associated problems (such as broadcast storms) that can result from them. STP is used to create a fault-tolerant ring between three switches within a Layer 2 network.

NEW QUESTION 617
- (Exam Topic 3)
Due to a surge in business, a company is onboarding an unusually high number of salespeople. The salespeople are assigned desktops that are wired to the network. The last few salespeople to be onboarded are able to access corporate materials on the network but not sales-specific resources. Which of the following is MOST likely the cause?

A. The switch was configured with port security.
B. Newly added machines are running into DHCP conflicts.
C. The IPS was not configured to recognize the new users.
D. Recently added users were assigned to the wrong VLAN

Answer: D

NEW QUESTION 620
- (Exam Topic 3)
Which of the following would be used when connecting devices that have different physical characteristics?

A. A proxy server
B. An industrial control system
C. A load balancer
D. A media converter

Answer: D

NEW QUESTION 624

- (Exam Topic 3)
A network manager is configuring switches in IDFs to ensure unauthorized client computers are not connecting to a secure wired network. Which of the following is the network manager MOST likely performing?

A. Disabling unneeded switchports
B. Changing the default VLAN
C. Configuring DHCP snooping
D. Writing ACLs to prevent access to the switch

Answer: C

NEW QUESTION 629
- (Exam Topic 3)
On a network with redundant switches, a network administrator replaced one of the switches but was unable to get a connection with another switch. Which of the following should the administrator chock after successfully testing the cable that was wired for TIA/EIA-568A on both ends?

A. If MDIX is enabled on the new switch
B. If PoE is enabled
C. If a plenum cable is being used
D. If STP is disabled on the switches

Answer: A

Explanation:
Auto-MDIX (or medium dependent interface crossover) is a feature that automatically detects the type of cable connection and configures the interface accordingly (i.e. straight-through or crossover). This ensures that the connection between the two switches is successful. This is referenced in the CompTIA Network+ Study Manual, page 519.

NEW QUESTION 632
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