

CompTIA.VCEup.N10-008.June-30-2022.158q

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Exam Code: N10-008
Exam Name: CompTIA Network+
Certification Provider: CompTIA
Corresponding Certification: CompTIA Network+



Exam A**QUESTION 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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 2

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 3

A newly installed VoIP phone is not getting the DHCP IP address it needs to connect to the phone system. Which of the following tasks need to be completed to allow the phone to operate correctly?

- A. Assign the phone's switchport to the correct VLAN
- B. Statistically assign the phone's gateway address
- C. Configure a route on the VoIP network router
- D. Implement a VoIP gateway

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 4

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 5

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 6

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 7

A user is having difficulty with video conferencing and is looking for assistance. Which of the following would BEST improve performance?

- A. Packet shaping
- B. Quality of service
- C. Port mirroring
- D. Load balancing

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

A network administrator discovers that users in an adjacent building are connecting to the company's guest wireless network to download inappropriate material. Which of the following can the administrator do to MOST easily mitigate this

issue?

- A. Reduce the wireless power levels
- B. Adjust the wireless channels
- C. Enable wireless client isolation
- D. Enable wireless port security

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 9

Which of the following is the LARGEST MTU for a standard Ethernet frame?

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 10

Which of the following protocols will a security appliance that is correlating network events from multiple devices MOST likely rely on to receive event messages?

- A. Syslog
- B. Session Initiation Protocol
- C. Secure File Transfer Protocol
- D. Server Message Block

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 11

SIMULATION

You are tasked with verifying the following requirements are met in order to ensure network security.

Requirements:

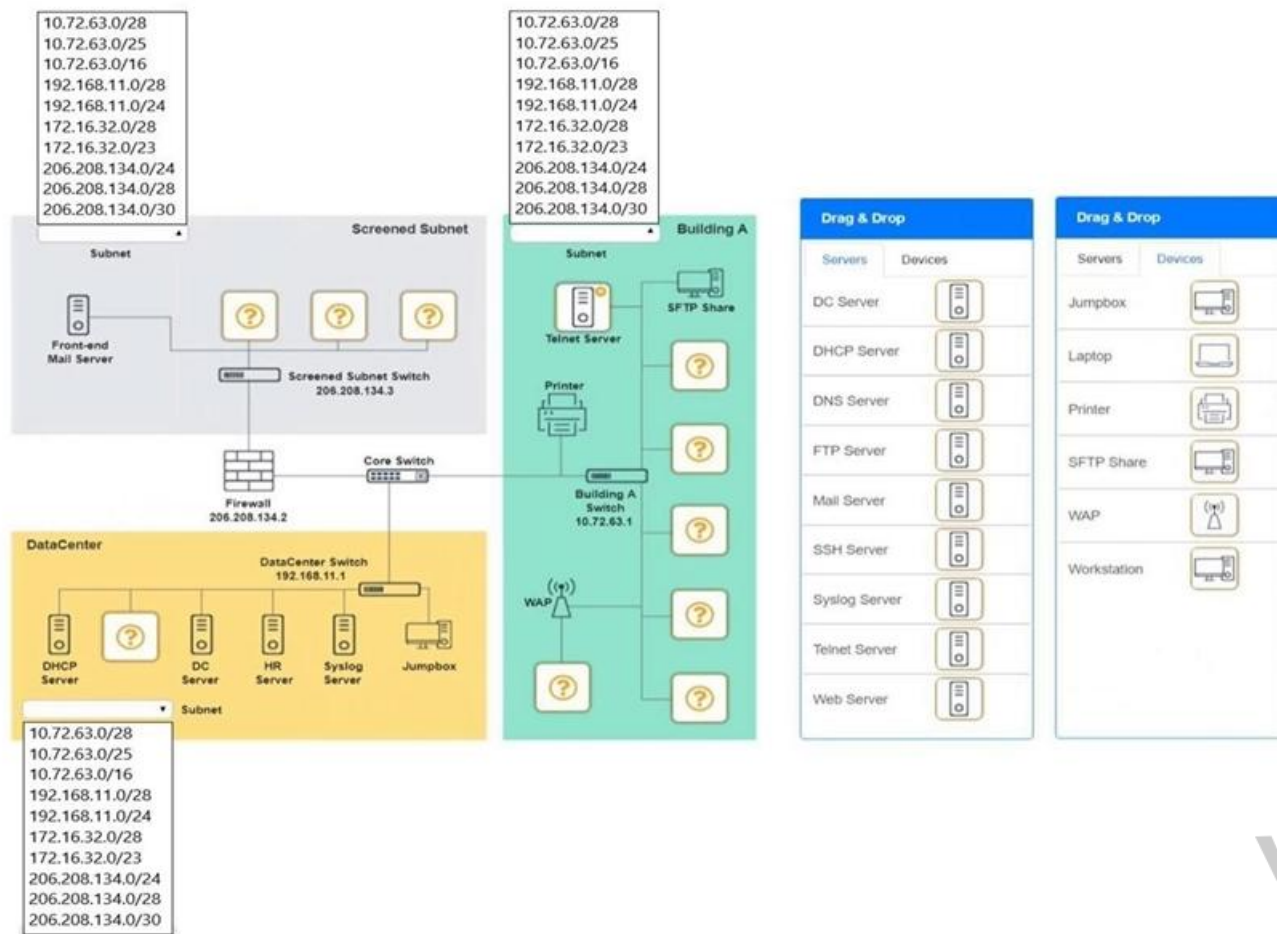
Datacenter

- 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.



VCEup

A. See explanation below.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Top left subnet – 206.208.134.0/28

Top right subnet – 10.72.63.0/28

Bottom subnet – 192.168.11.0/28

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.

QUESTION 12

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:**QUESTION 13**

Which of the following would be used to enforce and schedule critical updates with supervisory approval and include backup plans in case of failure?

- A. Business continuity plan
- B. Onboarding and offboarding policies
- C. Acceptable use policy
- D. System life cycle
- E. Change management

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:**QUESTION 14**

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 15**

An IT director is setting up new disaster and HA policies for a company. Limited downtime is critical to operations. To meet corporate requirements, the director set up two different datacenters across the country that will stay current on data and applications. In the event of an outage, the company can immediately switch from one datacenter to another. Which of the following does this BEST describe?

- A. A warm site
- B. Data mirroring
- C. Multipathing
- D. Load balancing
- E. A hot site

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:**QUESTION 16**

A network administrator decided to use SLAAC in an extensive IPv6 deployment to alleviate IP address management. The devices were properly connected into the LAN but autoconfiguration of the IP address did not occur as expected. Which of the following should the network administrator verify?

- A. The network gateway is configured to send router advertisements.
- B. A DHCP server is present on the same broadcast domain as the clients.

- C. The devices support dual stack on the network layer.
- D. The local gateway supports anycast routing.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 17

Which of the following TCP ports is used by the Windows OS for file sharing?

- A. 53
- B. 389
- C. 445
- D. 1433

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 18

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 19

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 20

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 21

A network engineer is investigating reports of poor network performance. Upon reviewing a device configuration, the engineer finds that duplex settings are mismatched on both ends. Which of the following would be the MOST likely result of this finding?

- A. Increased CRC errors
- B. Increased giants and runts
- C. Increased switching loops
- D. Increased device temperature

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 22

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 23

A network administrator would like to enable NetFlow on a Layer 3 switch but is concerned about how the feature may impact the switch. Which of the following metrics should the administrator graph using SNMP to BEST measure the feature's impact?

- A. CPU usage
- B. Temperature
- C. Electrical consumption
- D. Bandwidth usage

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <http://etutorials.org/Networking/network+management/Part+II+Implementations+on+the+Cisco+Devices/Chapter+7.+NetFlow/Deployment+Guidelines/>**QUESTION 24**

Which of the following systems would MOST likely be found in a screened subnet?

- A. RADIUS
- B. FTP
- C. SQL
- D. LDAP

Correct Answer: B**Section: (none)****Explanation****Explanation/Reference:****QUESTION 25**

A network technician reviews an entry on the syslog server and discovers the following message from a switch:

SPANNING-TREE Port 1/1 BLOCKED

Which of the following describes the issue?

- A. A loop was discovered, and the impact was mitigated.
- B. An incorrectly pinned cable was disconnected.
- C. The link-local address on the port is incorrect.
- D. The port was shut down, and it needs to be reactivated.

Correct Answer: A**Section: (none)****Explanation****Explanation/Reference:****QUESTION 26**

A branch of a company recently switched to a new ISP. The network engineer was given a new IP range to assign. The ISP assigned 196.26.4.0/26, and the branch gateway router now has the following configurations on the interface that peers to the ISP:

```
IP address:      196.26.4.30
Subnet mask:     255.255.255.224
Gateway:        196.24.4.1
```

The network engineer observes that all users have lost Internet connectivity. Which of the following describes the issue?

- A. The incorrect subnet mask was configured
- B. The incorrect gateway was configured
- C. The incorrect IP address was configured
- D. The incorrect interface was configured

Correct Answer: A**Section: (none)****Explanation****Explanation/Reference:**

QUESTION 27

An engineer is configuring redundant network links between switches. Which of the following should the engineer enable to prevent network stability issues?

- A. 802.1Q
- B. STP
- C. Flow control
- D. CSMA/CD

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 28

A systems administrator needs to improve WiFi performance in a densely populated office tower and use the latest standard.

There is a mix of devices that use 2.4 GHz and 5 GHz. Which of the following should the systems administrator select to meet this requirement?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

VCEUp

QUESTION 29

Which of the following is MOST likely to generate significant East-West traffic in a datacenter?

- A. A backup of a large video presentation to cloud storage for archival purposes
- B. A duplication of a hosted virtual server to another physical server for redundancy
- C. A download of navigation data to a portable device for offline access
- D. A query from an IoT device to a cloud-hosted server for a firmware update

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 30

A technician is troubleshooting a network switch that seems to stop responding to requests intermittently whenever the logging level is set for debugging. Which of the following metrics should the technician check to begin troubleshooting the issue?

- A. Audit logs
- B. CPU utilization
- C. CRC errors
- D. Jitter

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:**QUESTION 31**

Users attending security training at work are advised not to use single words as passwords for corporate applications. Which of the following does this BEST protect against?

- A. An on-path attack
- B. A brute-force attack
- C. A dictionary attack
- D. MAC spoofing
- E. Denial of service

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 32****SIMULATION**

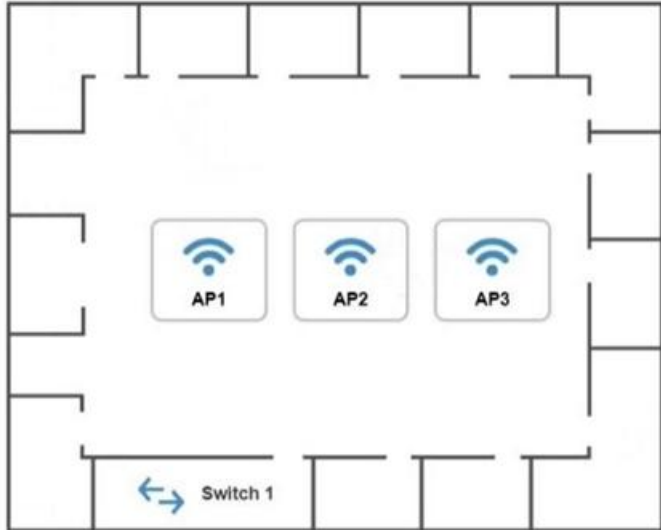
You have been tasked with setting up a wireless network in an office. The network will consist of 3 Access Points and a single switch. The network must meet the following parameters:

The SSIDs need to be configured as CorpNet with a key of S3cr3t!

The wireless signals should not interfere with each other

The subnet the Access Points and switch are on should only support 30 devices maximum The Access Points should be configured to only support TKIP clients at a maximum speed INSTRUCTIONS Click on the wireless devices and review their information and adjust the settings of the access points to meet the given requirements.

If at any time you would like to bring back the initial state of the simulation, please click the Reset All button.



192.168.1.2
Speed: Auto
Duplex: Auto

AP1 Configuration

https://ap1.setup.do

Basic Configuration

Access Point Name: AP1

IP Address: /

Gateway: 192.168.1.1

SSID:

SSID Broadcast: ☒ Yes ☐ No

Wireless

Mode:

Channel:

Wired

Speed: ☐ Auto ☒ 100 ☐ 1000

Duplex: ☐ Auto ☐ Half ☒ Full

Security Configuration

Security Settings: ☒ None ☐ WEP ☐ WPA ☐ WPA2 ☐ WPA2 - Enterprise

Key or Passphrase:

Reset to Default Save Close

AP2 Configuration

https://ap2.setup.do

Basic Configuration

Access Point Name

AP2

IP Address

/

Gateway

192.168.1.1

SSID

SSID Broadcast

☒ Yes
 ☐ No

Wireless

Mode

B

G

Channel

1

2

3

4

5

6

7

8

9

10

11

Wired

Speed

☐ Auto
 ☒ 100
 ☐ 1000

Duplex

☐ Auto
 ☐ Half
 ☒ Full

Security Configuration

Security Settings

☒ None
 ☐ WEP
 ☐ WPA
 ☐ WPA2
 ☐ WPA2 - Enterprise

Key or Passphrase

Reset to Default

Save

Close

AP3 Configuration

https://ap3.setup.do

Basic Configuration

Access Point Name

AP3

IP Address

/

Gateway

192.168.1.1

SSID

SSID Broadcast

☒ Yes
 ☐ No

Wireless

Mode

B

G

Channel

1

2

3

4

5

6

7

8

9

10

11

Wired

Speed

☐ Auto
 ☒ 100
 ☐ 1000

Duplex

☐ Auto
 ☐ Half
 ☒ Full

Security Configuration

Security Settings

☒ None
 ☐ WEP
 ☐ WPA
 ☐ WPA2
 ☐ WPA2 - Enterprise

Key or Passphrase

Reset to Default

Save

Close

A. See explanation below.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

On the first exhibit, the layout should be as follows

Access Point Name AP1

IP Address 192.168.1.3

Gateway 192.168.1.2

SSID corpnet

SSID Broadcast yes

Mode G

Channel 1

Speed Auto

Duplex Auto

WPA Passphrase S3cr3t!

Exhibit 2 as follows

Access Point Name AP2

IP Address 192.168.1.4

Gateway 192.168.1.2

SSID corpnet

SSID Broadcast yes

Mode G

Channel 6

Speed Auto

Duplex Auto

WPA Passphrase S3cr3t!

Exhibit 3 as follows

Access Point Name AP3

IP Address 192.168.1.5

Gateway 192.168.1.2

SSID corpnet

SSID Broadcast yes

Mode G

Channel 11

Speed Auto

Duplex Auto

WPA Passphrase S3cr3t!

QUESTION 33

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 34

Which of the following transceiver types can support up to 40Gbps?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 35

A network technician was hired to harden the security of a network. The technician is required to enable encryption and create a password for AP security through the web browser. Which of the following would BEST support these requirements?

- A. ESP
- B. WPA2
- C. IPSec
- D. ACL

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 36

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 37

A technician is configuring a network switch to be used in a publicly accessible location. Which of the following should the technician configure on the switch to prevent unintended connections?

- A. DHCP snooping
- B. Geofencing
- C. Port security
- D. Secure SNMP

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 38

A workstation is configured with the following network details:

IP address	Subnet mask	Default gateway
10.1.2.23	10.1.2.0/27	10.1.2.1

Software on the workstation needs to send a query to the local subnet broadcast address. To which of the following addresses should the software be configured to send the query?

- A. 10.1.2.0
- B. 10.1.2.1
- C. 10.1.2.23
- D. 10.1.2.255
- E. 10.1.2.31

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 39

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 40

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 41

A technician is installing a new fiber connection to a network device in a datacenter. The connection from the device to the switch also traverses a patch panel connection. The chain of connections is in the following order:

Device
LC/LC patch cable
Patch panel
Cross-connect fiber cable
Patch panel

LC/LC patch cable
Switch

The connection is not working. The technician has changed both patch cables with known working patch cables. The device had been tested and was working properly before being installed. Which of the following is the MOST likely cause of the issue?

- A. TX/RX is reversed
- B. An incorrect cable was used
- C. The device failed during installation
- D. Attenuation is occurring

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 42

A technician is setting up a new router, configuring ports, and allowing access to the Internet. However, none of the users connected to this new router are able to connect to the Internet. Which of the following does the technician need to configure?

- A. Tunneling
- B. Multicast routing
- C. Network address translation
- D. Router advertisement

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 43

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.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 44

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

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:****QUESTION 45**

A network engineer is investigating reports of poor network performance. Upon reviewing a report, the engineer finds that jitter at the office is greater than 10ms on the only WAN connection available. Which of the following would be MOST affected by this statistic?

- A. A VoIP sales call with a customer
- B. An in-office video call with a coworker
- C. Routing table from the ISP
- D. Firewall CPU processing time

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:****QUESTION 46**

A network engineer configured new firewalls with the correct configuration to be deployed to each remote branch. Unneeded services were disabled, and all firewall rules were applied successfully. Which of the following should the network engineer perform NEXT to ensure all the firewalls are hardened successfully?

- A. Ensure an implicit permit rule is enabled
- B. Configure the log settings on the firewalls to the central syslog server
- C. Update the firewalls with current firmware and software
- D. Use the same complex passwords on all firewalls

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:****QUESTION 47**

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

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:****QUESTION 48**

Which of the following technologies provides a failover mechanism for the default gateway?

- A. FHRP
- B. LACP
- C. OSPF
- D. STP

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 49

A network technician is configuring a new firewall for a company with the necessary access requirements to be allowed through the firewall. Which of the following would normally be applied as the LAST rule in the firewall?

- A. Secure SNMP
- B. Port security
- C. Implicit deny
- D. DHCP snooping

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 50

Which of the following connector types would have the MOST flexibility?

- A. SFP
- B. BNC
- C. LC
- D. RJ45

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 51

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.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 52

A systems administrator is running a VoIP network and is experiencing jitter and high latency. Which of the following would BEST help the administrator determine the cause of these issues?

- A. Enabling RADIUS on the network
- B. Configuring SNMP traps on the network
- C. Implementing LDAP on the network
- D. Establishing NTP on the network

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 53

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 54

A network administrator is implementing OSPF on all of a company's network devices. Which of the following will MOST likely replace all the company's hubs?

- A. A Layer 3 switch
- B. A proxy server
- C. A NGFW
- D. A WLAN controller

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 55

A network administrator is configuring a database server and would like to ensure the database engine is listening on a certain port. Which of the following commands should the administrator use to accomplish this goal?

- A. nslookup
- B. netstat -a
- C. ipconfig /a
- D. arp -a

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 56

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 57

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 58

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 59

A technician needs to configure a Linux computer for network monitoring. The technician has the following information:
Linux computer details:

Interface	IP address	MAC address
eth0	10.1.2.24	A1:B2:C3:F4:E5:D6

Switch mirror port details:

Interface	IP address	MAC address
eth1	10.1.2.3	A1:B2:C3:D4:E5:F6

After connecting the Linux computer to the mirror port on the switch, which of the following commands should the technician run on the Linux computer?

- A. ifconfig eth0 promisc
- B. ifconfig eth1 up
- C. ifconfig eth0 10.1.2.3
- D. ifconfig eth1 hw ether A1:B2:C3:D4:E5:F6

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 60

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 61

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 62

A network administrator is designing a new datacenter in a different region that will need to communicate to the old datacenter with a secure connection. Which of the following access methods would provide the BEST security for this new datacenter?

- A. Virtual network computing
- B. Secure Socket Shell
- C. In-band connection
- D. Site-to-site VPN

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 63

A technician is connecting DSL for a new customer. After installing and connecting the on-premises equipment, the technician verifies DSL synchronization. When connecting to a workstation, however, the link LEDs on the workstation and modem do not light up. Which of the following should the technician perform during troubleshooting?

- A. Identify the switching loops between the modem and the workstation.
- B. Check for asymmetrical routing on the modem.
- C. Look for a rogue DHCP server on the network.
- D. Replace the cable connecting the modem and the workstation.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 64

A network administrator is testing performance improvements by configuring channel bonding on an 802.11ac 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 EIRP power settings
- B. Switch to 802.11n, disable channel auto-selection, and enforce channel bonding on configuration
- C. Set up the AP to perform a dynamic selection of the frequency according to regulatory requirements
- D. Deactivate the band 5GHz to avoid interference with the government radio

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

VCEUp

QUESTION 65

A client recently added 100 users who are using VMs. All users have since reported slow or unresponsive desktops. Reports show minimal network congestion, zero packet loss, and acceptable packet delay. Which of the following metrics will MOST accurately show the underlying performance issues? (Choose two.)

- A. CPU usage
- B. Memory
- C. Temperature
- D. Bandwidth
- E. Latency
- F. Jitter

Correct Answer: AB

Section: (none)

Explanation

Explanation/Reference:

QUESTION 66

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

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:****QUESTION 67**

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

Correct Answer: D

Section: (none)

Explanation**Explanation/Reference:****QUESTION 68**

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.

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:****QUESTION 69**

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

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:****QUESTION 70**

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

Correct Answer: CD

Section: (none)

Explanation

Explanation/Reference:

QUESTION 71

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: [https://en.wikipedia.org/wiki/Mantrap_\(access_control\)](https://en.wikipedia.org/wiki/Mantrap_(access_control))

QUESTION 72

Which of the following policies should be referenced when a user wants to access work email on a personal cell phone?

- A. Offboarding policy
- B. Acceptable use policy
- C. BYOD policy
- D. Remote access policy

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 73

The network administrator is informed that a user's email password is frequently hacked by brute-force programs. Which of the following policies should the network administrator implements to BEST mitigate this issue? (Choose two.)

- A. Captive portal
- B. Two-factor authentication
- C. Complex passwords
- D. Geofencing
- E. Role-based access
- F. Explicit deny

Correct Answer: BC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 74

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 75

Which of the following would MOST likely be used to review previous upgrades to a system?

- A. Business continuity plan
- B. Change management
- C. System life cycle
- D. Standard operating procedures

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 76

The management team needs to ensure unnecessary modifications to the corporate network are not permitted and version control is maintained. Which of the following documents would BEST support this?

- A. An incident response plan
- B. A business continuity plan
- C. A change management policy
- D. An acceptable use policy

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 77

A technician is deploying a new switch model and would like to add it to the existing network monitoring software. The technician wants to know what metrics can be gathered from a given switch. Which of the following should the technician utilize for the switch?

- A. MIB
- B. Trap
- C. Syslog
- D. Audit log

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 78

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 79

A network administrator is required to ensure that auditors have read-only access to the system logs, while systems administrators have read and write access to the system logs, and operators have no access to the system logs. The network administrator has configured security groups for each of these functional categories. Which of the following security capabilities will allow the network administrator to maintain these permissions with the LEAST administrative effort?

- A. Mandatory access control
- B. User-based permissions
- C. Role-based access
- D. Least privilege

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 80

Which of the following BEST describes a network appliance that warns of unapproved devices that are accessing the network?

- A. Firewall
- B. AP
- C. Proxy server
- D. IDS

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 81

A network switch was installed to provide connectivity to cameras monitoring wildlife in a remote location. The organization is concerned that intruders could potentially leverage unattended equipment in the remote location to connect rogue devices and gain access to the organization's resources. Which of the following techniques would BEST address the concern?

- A. Configure port security using MAC filtering.
- B. Manually register the cameras on the switch address table.
- C. Activate PoE+ on the active switchports.
- D. Disable Neighbor Discovery Protocol on the switch.

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 82

Which of the following is MOST commonly used to address CVEs on network equipment and/or operating systems?

- A. Vulnerability assessment
- B. Factory reset
- C. Firmware update
- D. Screened subnet

Correct Answer: C
Section: (none)
Explanation

Explanation/Reference:

QUESTION 83

A network administrator is trying to identify a device that is having issues connecting to a switchport. Which of the following would BEST help identify the issue?

- A. A syslog server
- B. Change management records
- C. A rack diagram
- D. The security log

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 84

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 85

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 86

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 87

A technician is assisting a user who cannot connect to a network resource. The technician first checks for a link light. According to troubleshooting methodology, this is an example of:

- A. using a bottom-to-top approach.
- B. establishing a plan of action.
- C. documenting a finding.
- D. questioning the obvious.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 88

A technician is documenting an application that is installed on a server and needs to verify all existing web and database connections to the server. Which of the following tools should the technician use to accomplish this task?

- A. tracert
- B. ipconfig
- C. netstat
- D. nslookup

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 89

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 90

Which of the following is used to track and document various types of known vulnerabilities?

- A. CVE
- B. Penetration testing
- C. Zero-day
- D. SIEM
- E. Least privilege

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 91

A technician is searching for a device that is connected to the network and has the device's physical network address. Which of the following should the technician review on the switch to locate the device's network port?

- A. IP route table
- B. VLAN tag
- C. MAC table
- D. QoS tag

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 92

Several WIFI users are reporting the inability to connect to the network. WLAN users on the guest network are able to access all network resources without any performance issues. The following table summarizes the findings after a site survey of the area in question:

Location	AP 1	AP 2	AP 3	AP 4
SSID	Corp1	Corp1	Corp1/Guest	Corp1/Guest
Channel	2	1	5	11
RSSI	-81dBm	-82dBm	-44dBm	-41dBm
Antenna type	Omni	Omni	Directional	Directional

Which of the following should a wireless technician do NEXT to troubleshoot this issue?

- A. Reconfigure the channels to reduce overlap
- B. Replace the omni antennas with directional antennas
- C. Update the SSIDs on all the APs

D. Decrease power in AP 3 and AP 4

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 93

To comply with industry requirements, a security assessment on the cloud server should identify which protocols and weaknesses are being exposed to attackers on the Internet. Which of the following tools is the MOST appropriate to complete the assessment?

- A. Use tcpdump and parse the output file in a protocol analyzer.
- B. Use an IP scanner and target the cloud WAN network addressing.
- C. Run netstat in each cloud server and retrieve the running processes.
- D. Use nmap and set the servers' public IPs as the targets.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 94

A client moving into a new office wants the IP network set up to accommodate 412 network-connected devices that are all on the same subnet. The subnet needs to be as small as possible. Which of the following subnet masks should be used to achieve the required result?

- A. 255.255.0.0
- B. 255.255.252.0
- C. 255.255.254.0
- D. 255.255.255.0

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 95

A technician is troubleshooting a client's report about poor wireless performance. Using a client monitor, the technician notes the following information:

SSID	Signal (RSSI)	Channel
Corporate	-50	9
Corporate	-69	10
Corporate	-67	11
Corporate	-63	6

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 96

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

QUESTION 97

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

Correct Answer: A
Section: (none)
Explanation

Explanation/Reference:

Explanation:

Reference:

<https://www.techtarget.com/searchnetworking/definition/OSI#:~:text=The%20session%20layer,and%20terminates%20conversations%20between%20applications.>

QUESTION 98

Which of the following services can provide data storage, hardware options, and scalability to a third-party company that cannot afford new devices?

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

Correct Answer: B
Section: (none)
Explanation

Explanation/Reference:

QUESTION 99

A technician is assisting a user who cannot access network resources when the workstation is connected to a VoIP phone.

The technician identifies the phone as faulty and replaces it. According to troubleshooting methodology, which of the following should the technician do NEXT?

- A. Implement the solution.
- B. Test the theory.
- C. Duplicate the issue.
- D. Document the findings.
- E. Verify functionality.

Correct Answer: E

Section: (none)

Explanation

Explanation/Reference:

QUESTION 100

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://www.namecheap.com/support/knowledgebase/article.aspx/9604/2237/types-of-domain-redirects-301-302-url-redirects-url-frame-and-cname/#:~:text=CNAME%20record%20is%20actually%20not,often%20mistakenly%20used%20as%20such.&text=In%20other%20words%2C%20CNAME%20record,address%20of%20the%20destination%20hostname>

QUESTION 101

A network administrator walks into a datacenter and notices an unknown person is following closely. The administrator stops and directs the person to the security desk. Which of the following attacks did the network administrator prevent?

- A. Evil twin
- B. Tailgating
- C. Piggybacking
- D. Shoulder surfing

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 102

An attacker is attempting to find the password to a network by inputting common words and phrases in plaintext to the password prompt. Which of the following attack types BEST describes this action?

- A. Pass-the-hash attack
- B. Rainbow table attack
- C. Brute-force attack
- D. Dictionary attack

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 103

A company built a new building at its headquarters location. The new building is connected to the company's LAN via fiberoptic 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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 104

Which of the following DNS records works as an alias to another record?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

VCEUp

QUESTION 105

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 106

Which of the following devices would be used to manage a corporate WLAN?

- A. A wireless NAS
- B. A wireless bridge
- C. A wireless router
- D. A wireless controller

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:**QUESTION 107**

A technician is installing multiple UPS units in a major retail store. The technician is required to keep track of all changes to new and old equipment. Which of the following will allow the technician to record these changes?

- A. Asset tags
- B. A smart locker
- C. An access control vestibule
- D. A camera

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:**QUESTION 108**

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:**QUESTION 109**

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:**QUESTION 110**

Which of the following is the physical topology for an Ethernet LAN?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 111

Branch users are experiencing issues with videoconferencing. Which of the following will the company MOST likely configure to improve performance for these applications?

- A. Link Aggregation Control Protocol
- B. Dynamic routing
- C. Quality of service
- D. Network load balancer
- E. Static IP addresses

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 112

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 113

A network technician is investigating an issue with handheld devices in a warehouse. Devices have not been connecting to the nearest APs, but they have been connecting to an AP on the far side of the warehouse. Which of the following is the MOST likely cause of this issue?

- A. The nearest APs are configured for 802.11g.
- B. An incorrect channel assignment is on the nearest APs.
- C. The power level is too high for the AP on the far side.
- D. Interference exists around the AP on the far side.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 114

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 115

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 116

Which of the following types of devices can provide content filtering and threat protection, and manage multiple IPSec siteto- site connections?

- A. Layer 3 switch
- B. VPN headend
- C. Next-generation firewall
- D. Proxy server
- E. Intrusion prevention

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 117

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 118

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 119

A network technician is troubleshooting an application issue. The technician is able to recreate the issue in a virtual environment. According to the troubleshooting methodology, which of the following actions will the technician most likely perform NEXT?

- A. Gather information from the initial report.
- B. Escalate the issue to a supervisor.
- C. Implement a solution to resolve the issue.
- D. Establish a theory of probable cause.

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 120

Which of the following options represents the participating computers in a network?

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: [https://en.wikipedia.org/wiki/Node_\(networking\)](https://en.wikipedia.org/wiki/Node_(networking))

QUESTION 121

Within the realm of network security, Zero Trust:

- A. prevents attackers from moving laterally through a system.
- B. allows a server to communicate with outside networks without a firewall.
- C. block malicious software that is too new to be found in virus definitions.
- D. stops infected files from being downloaded via websites.

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 122

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 123

Which of the following would need to be configured to ensure a device with a specific MAC address is always assigned the same IP address from DHCP?

- A. Scope options
- B. Reservation
- C. Dynamic assignment
- D. Exclusion
- E. Static assignment

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

**QUESTION 124**

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 125

A company's network is set up so all Internet-bound traffic from all remote offices exits through a main datacenter. Which of the following network topologies would BEST describe this setup?

- A. Bus
- B. Spine-and-leaf
- C. Hub-and-spoke
- D. Mesh

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:****QUESTION 126**

The management team has instituted a 48-hour RTO as part of the disaster recovery plan. Which of the following procedures would meet the policy's requirements?

- A. Recover all systems to a loss of 48 hours of data.
- B. Limit network downtime to a maximum of 48 hours per year.
- C. Recover all systems within 48 hours.
- D. Require 48 hours of system backup maintenance.

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:**

Explanation:

Reference: <https://www.druva.com/blog/understanding-rpo-and-rto/>

QUESTION 127

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

Correct Answer: B

Section: (none)

Explanation**Explanation/Reference:****QUESTION 128**

An IT organization needs to optimize speeds for global content distribution and wants to reduce latency in high-density user locations. Which of the following technologies BEST meets the organization's requirements?

- A. Load balancing
- B. Geofencing
- C. Public cloud
- D. Content delivery network
- E. Infrastructure as a service

Correct Answer: D

Section: (none)

Explanation**Explanation/Reference:****QUESTION 129**

Which of the following factors should be considered when evaluating a firewall to protect a datacenter's east-west traffic?

- A. Replication traffic between an on-premises server and a remote backup facility
- B. Traffic between VMs running on different hosts
- C. Concurrent connections generated by Internet DDoS attacks

D. VPN traffic from remote offices to the datacenter's VMs

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 130

A network device is configured to send critical events to a syslog server; however, the following alerts are not being received:

Severity 5 LINK-UPDOWN: Interface 1/1, changed state to down

Severity 5 LINK-UPDOWN: Interface 1/3, changed state to down

Which of the following describes the reason why the events are not being received?

- A. The network device is not configured to log that level to the syslog server
- B. The network device was down and could not send the event
- C. The syslog server is not compatible with the network device
- D. The syslog server did not have the correct MIB loaded to receive the message

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 131

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 132

A technician is installing a cable modem in a SOHO. Which of the following cable types will the technician MOST likely use to connect a modem to the ISP?

- A. Coaxial
- B. Single-mode fiber
- C. Cat 6e
- D. Multimode fiber

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 133

After a firewall replacement, some alarms and metrics related to network availability stopped updating on a monitoring system relying on SNMP. Which of the following should the network administrator do FIRST?

- A. Modify the device's MIB on the monitoring system.
- B. Configure syslog to send events to the monitoring system.
- C. Use port mirroring to redirect traffic to the monitoring system.
- D. Deploy SMB to transfer data to the monitoring system.

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 134

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)

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 135

Which of the following ports are associated with IMAP? (Choose two.)

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

Correct Answer: CE

Section: (none)

Explanation

Explanation/Reference:

Explanation:

Reference: <https://billing.precedence.com.au/billing/knowledgebase/70/Mail-Ports-for-POP3-IMAP-and-SMTP.html>

QUESTION 136

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

Correct Answer: C

Section: (none)

Explanation**Explanation/Reference:****QUESTION 137**

Which of the following ports is commonly used by VoIP phones?

- A. 20
- B. 143
- C. 445
- D. 5060

Correct Answer: D

Section: (none)

Explanation**Explanation/Reference:****QUESTION 138**

A network administrator is troubleshooting the communication between two Layer 2 switches that are reporting a very high runt count. After trying multiple ports on both switches, the issue persists. Which of the following should the network administrator perform to resolve the issue?

- A. Increase the MTU size on both switches.
- B. Recertify the cable between both switches.
- C. Perform a factory reset on both switches.
- D. Enable debug logging on both switches.

Correct Answer: A

Section: (none)

Explanation**Explanation/Reference:****QUESTION 139**

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

Correct Answer: D

Section: (none)

Explanation**Explanation/Reference:****QUESTION 140**

Which of the following routing protocols is used to exchange route information between public autonomous systems?

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 141

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 142

A technician is installing a high-density wireless network and wants to use an available frequency that supports the maximum number of channels to reduce interference. Which of the following standard 802.11 frequency ranges should the technician look for while reviewing WAP specifications?

- A. 2.4GHz
- B. 5GHz
- C. 6GHz
- D. 900MHz

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 143

A network administrator redesigned the positioning of the APs to create adjacent areas of wireless coverage. After project validation, some users still report poor connectivity when their devices maintain an association to a distanced AP. Which of the following should the network administrator check FIRST?

- A. Validate the roaming settings on the APs and WLAN clients
- B. Verify that the AP antenna type is correct for the new layout
- C. Check to see if MU-MIMO was properly activated on the APs
- D. Deactivate the 2.4GHz band on the APS

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 144

Which of the following uses the destination IP address to forward packets?

- A. A bridge

- B. A Layer 2 switch
- C. A router
- D. A repeater

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 145

A user tries to ping 192.168.1.100 from the command prompt on the 192.168.2.101 network but gets the following response: U.U.U.U. Which of the following needs to be configured for these networks to reach each other?

- A. Network address translation
- B. Default gateway
- C. Loopback
- D. Routing protocol

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 146

A new cabling certification is being requested every time a network technician rebuilds one end of a Cat 6 (vendor-certified) cable to create a crossover connection that is used to connect switches. Which of the following would address this issue by allowing the use of the original cable?

- A. CSMA/CD
- B. LACP
- C. PoE+
- D. MDIX

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 147

Which of the following protocols would allow a secure connection to a Linux-based system?

- A. SMB
- B. FTP
- C. RDP
- D. SSH

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 148

Which of the following OSI model layers contains IP headers?

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:

QUESTION 149

A network technician is installing new software on a Windows-based server in a different geographical location. Which of the following would be BEST for the technician to use to perform this task?

- A. RDP
- B. SSH
- C. FTP
- D. DNS

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

VCEUp

QUESTION 150

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

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 151

A network administrator needs to query the NSs for a remote application. Which of the following commands would BEST help the administrator accomplish this task?

- A. dig
- B. arp
- C. show interface
- D. hostname

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 152

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

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:

QUESTION 153

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

QUESTION 154

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

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:**QUESTION 155**

Users are reporting intermittent WiFi connectivity in a specific parts of a building. Which of the following should the network administrator check FIRST when troubleshooting this issue? (Choose two.)

- A. Site survey
- B. EIRP
- C. AP placement
- D. Captive portal
- E. SSID assignment
- F. AP association time

Correct Answer: AC

Section: (none)

Explanation

Explanation/Reference:**QUESTION 156**

According to troubleshooting methodology, which of the following should the technician do NEXT after determining the most likely probable cause of an issue?

- A. Establish a plan of action to resolve the issue and identify potential effects
- B. Verify full system functionality and, if applicable, implement preventive measures
- C. Implement the solution or escalate as necessary
- D. Test the theory to determine the cause

Correct Answer: D

Section: (none)

Explanation

Explanation/Reference:**QUESTION 157**

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:**QUESTION 158**

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

Correct Answer: C

Section: (none)

Explanation

Explanation/Reference:

VCEUp