

N10-008.Pre.88q - DEMO

Number: N10-008
Passing Score: 800
Time Limit: 120 min



N10-008

CompTIA Network+



Exam A**QUESTION 1**

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:

QUESTION 2 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 3

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 4

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 5 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 6

SIMULATION

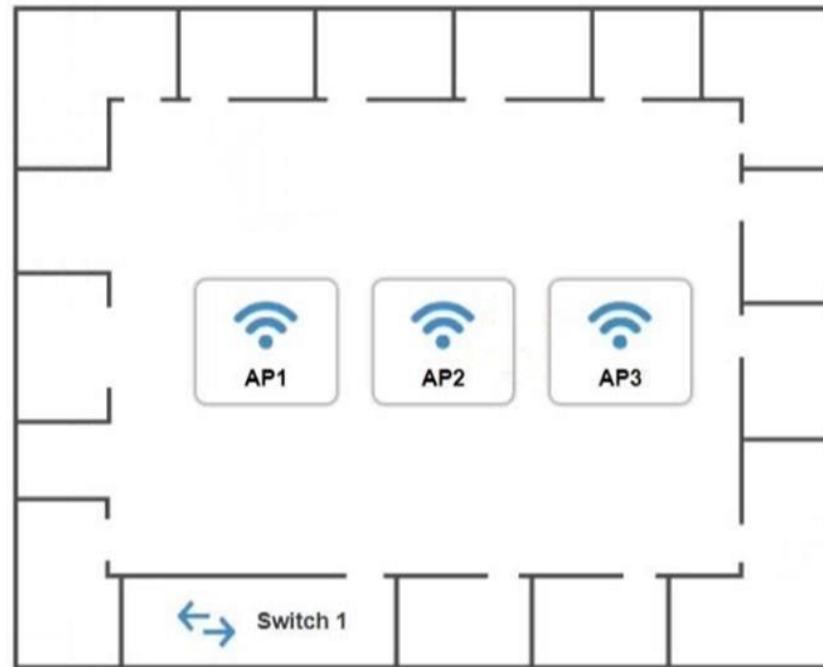
You have been tasked with setting up a wireless network in an office. The network will consist of 3 Access Points and a single switch. The network must meet the following parameters:

- 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

INSTRUCTONS

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

[←](#)
[→](#)
[↺](#)

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

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

Correct Answer: See explanation below.

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 7 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 6G.Layer 7

Correct Answer: B

Section: (none)

Explanation

Explanation/Reference:

QUESTION 8

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 9**

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 10 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 11 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:****QUESTION 12**

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

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 13 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 14 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 15 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 16 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 17

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 18

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 19 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 20

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 21 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 22 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 23 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 24 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 25

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 26 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 27

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 28

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 29 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 30

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 31

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 32 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 33

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 34 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 35 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 36

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 37

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 38 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: 0.0.0.0. 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 39

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
```

prepaw#13921

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 40 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 41 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 42 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 43

SIMULATION

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

Requirements:

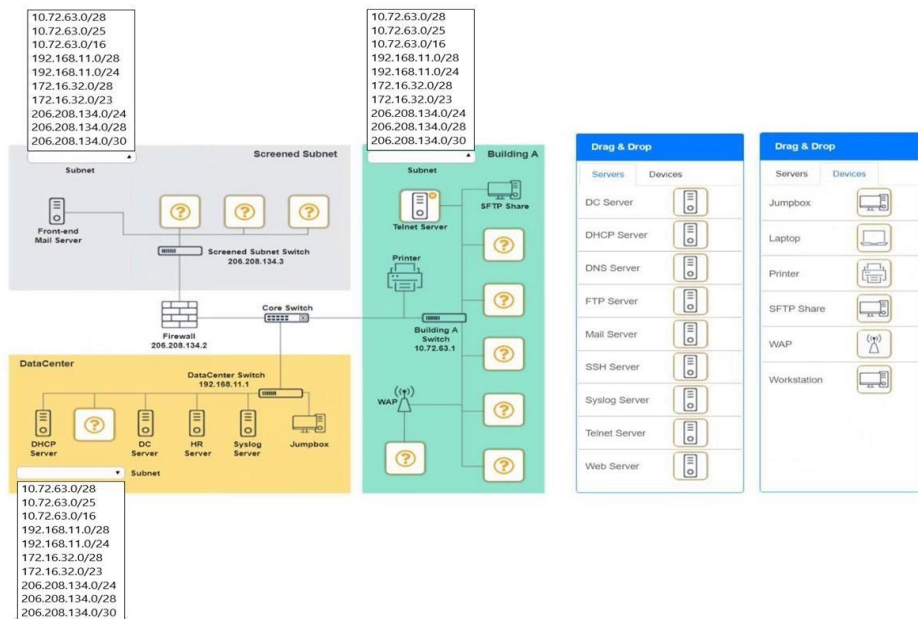
- Datacenter
 - Ensure network is subnetted to allow all devices to communicate properly while minimizing address space usage
 - Provide a dedicated server to resolve IP addresses and hostnames correctly and handle port 53 traffic▪ Building A
 - Ensure network is subnetted to allow all devices to communicate 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.



Correct Answer: See explanation below.

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 44 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 45 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. showinterface
- D. hostname

Correct Answer: A

Section: (none)

Explanation

Explanation/Reference:

QUESTION 46 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 47

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 48

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 49

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 50

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 51

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 52 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 53 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 54

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 55

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 56

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 57 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 58

Which of the following types of devices can provide content filtering and threat protection, and manage multiple IPSec site-to-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 59 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 60 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 61

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 62

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 63 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 64 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 65

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 66 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 67

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 68

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 69 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:

QUESTION 70

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 71

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 72 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 73 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 74

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 75 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 76 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 77

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 78 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 79 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 80

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 81 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 82 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 83

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 84 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 85

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 86 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 87 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 88

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: