

N10-009^{Q&As}

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QUESTION 1

Which of the following routing protocols uses an autonomous system number?

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

Correct Answer: D

An autonomous system (AS) is a collection of IP networks and routers under the control of a single entity that presents a common routing policy to the internet. BGP (Border Gateway Protocol) is the routing protocol commonly used to exchange routing and reachability information between autonomous systems on the internet. BGP uses an autonomous system number (ASN) to uniquely identify each autonomous system.

QUESTION 2

A company receives a cease-and-desist order from its ISP regarding prohibited torrent activity. Which of the following should be implemented to comply with the cease-and-desist order?

- A. MAC security
- B. Content filtering
- C. Screened subnet
- D. Perimeter network

Correct Answer: B

Content filtering can be used to block or restrict access to websites and services that facilitate torrenting and other prohibited activities. By implementing content filtering, the company can comply with the ISP's cease-and-desist order and prevent users from accessing torrent sites and engaging in prohibited activities. References: CompTIA Network+ study materials.

QUESTION 3

A network technician is troubleshooting a web application's poor performance. The office has two internet links that share the traffic load.

Which of the following tools should the technician use to determine which link is being used for the web application?

- A. netstat
- B. nslookup
- C. ping

D. tracert

Correct Answer: D

Understanding Tracert:

uk.co.certification.simulator.questionpool.PList@2595382a Determining Traffic Path:

Comparison with Other Tools:

Implementation:

References:

CompTIA Network+ study materials on network troubleshooting and diagnostic tools.

QUESTION 4

A virtual machine has the following configuration:

Pv4 address: 169.254.10.10

ubnet mask: 255.255.0.0

The virtual machine can reach colocated systems but cannot reach external addresses on the Internet. Which of the following is most likely the root cause?

- A. The subnet mask is incorrect.
- B. The DHCP server is offline.
- C. The IP address is an RFC1918 private address.
- D. The DNS server is unreachable.

Correct Answer: B

Understanding the 169.254.x.x Address:

uk.co.certification.simulator.questionpool.PList@132568f3 DHCP Server Offline:

Comparison with Other Options:

Troubleshooting Steps:

References:

CompTIA Network+ study materials on IP addressing and DHCP troubleshooting.

QUESTION 5

Which of the following network devices converts wireless signals to electronic signals?

- A. Router
- B. Firewall
- C. Access point
- D. Load balancer

Correct Answer: C

Role of an Access Point (AP):

[uk.co.certification.simulator.questionpool.PList@7be106c3](#) Functionality:

Comparison with Other Devices:

Deployment:

References:

CompTIA Network+ study materials on wireless networking and access points.

QUESTION 6

Which of the following is the most cost-effective way for a network administrator to establish a persistent, secure connection between two facilities?

- A. Site-to-site VPN
- B. SSH tunnel
- C. API gateway
- D. Dedicated line

Correct Answer: A

A site-to-site VPN (Virtual Private Network) is the most cost-effective way for a network administrator to establish a persistent, secure connection between two facilities. It allows secure communication over the internet by encrypting the data transmitted between the two locations. Site-to-site VPNs are a practical and economical solution for connecting geographically dispersed sites over the public internet while maintaining a high level of security.

QUESTION 7

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

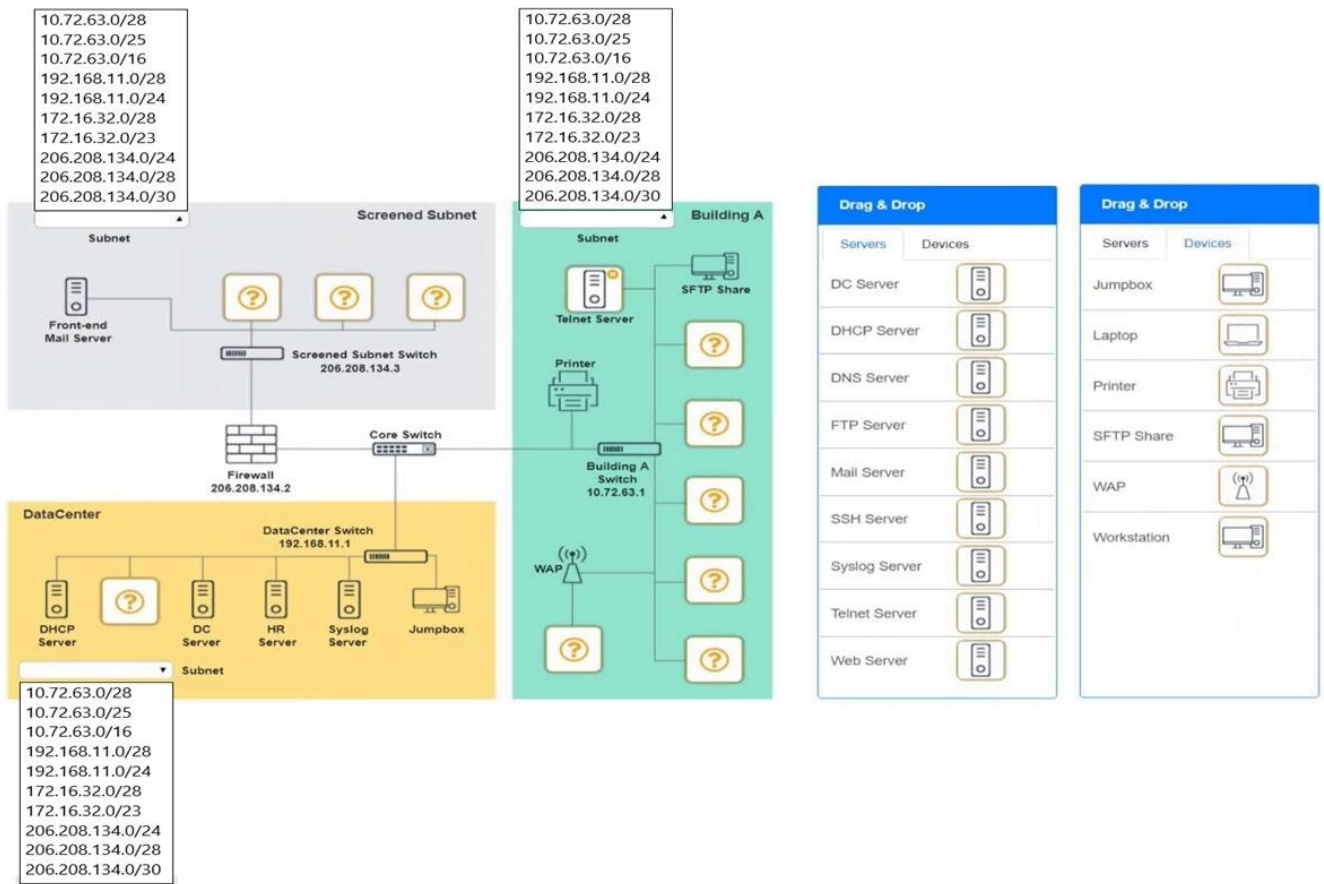
-
Provide a server to handle port 20/21 traffic

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 and Drop menu.

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



- A. See explanation below.
- B. Placeholder
- C. Placeholder
- D. Placeholder

Correct Answer: A

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 8

While troubleshooting connectivity issues, a junior network administrator is given explicit instructions to test the host's TCP/IP stack first.

Which of the following commands should the network administrator run?

- A. ping 127.0.0.1
- B. ping 169.254.1.1

C. ping 172.16.1.1

D. ping 192.168.1.1

Correct Answer: A

The loopback address 127.0.0.1 is used to test the TCP/IP stack of the local machine. Pinging this address confirms whether the local system's networking stack is functioning correctly.

QUESTION 9

A network administrator needs to set up a multicast network for audio and video broadcasting.

Which of the following networks would be the most appropriate for this application?

A. 172.16.0.0/24

B. 192.168.0.0/24

C. 224.0.0.0/24

D. 240.0.0.0/24

Correct Answer: C

Reference: CompTIA Network+ Certification Exam Objectives - IP Addressing section.

QUESTION 10

Which of the following is a characteristic of the application layer?

A. It relies upon other layers for packet delivery.

B. It checks independently for packet loss.

C. It encrypts data in transit.

D. It performs address translation.

Correct Answer: A

Introduction to OSI Model:

uk.co.certification.simulator.questionpool.PList@7980bce0 Application Layer:

Reliance on Other Layers:

of the Options:

Conclusion:

References:

CompTIA Network+ guide covering the OSI model and the specific roles and functions of each layer (see page Ref 10How to Use Cisco Packet Tracer).

QUESTION 11

While troubleshooting a VoIP handset connection, a technician's laptop is able to successfully connect to network resources using the same port. The technician needs to identify the port on the switch. Which of the following should the technician use to determine the switch and port?

- A. LLDP
- B. IKE
- C. VLAN
- D. netstat

Correct Answer: A

Link Layer Discovery Protocol (LLDP) is a network protocol used for discovering devices and their capabilities on a local area network, primarily at the data link layer (Layer 2). It helps in identifying the connected switch and the specific port to

which a device is connected. When troubleshooting a VoIP handset connection, the technician can use LLDP to determine the exact switch and port where the handset is connected. This protocol is widely used in network management to

facilitate the discovery of network topology and simplify troubleshooting.

Other options such as IKE (Internet Key Exchange), VLAN (Virtual LAN), and netstat (network statistics) are not suitable for identifying the switch and port information. IKE is used in setting up secure IPsec connections, VLAN is used for

segmenting networks, and netstat provides information about active connections and listening ports on a host but not for discovering switch port details.

Reference: CompTIA Network+ Certification Exam Objectives - Network Troubleshooting and Tools section.

QUESTION 12

Which of the following protocols has a default administrative distance value of 90?

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

Correct Answer: B

EIGRP (Enhanced Interior Gateway Routing Protocol) has a default administrative distance (AD) value of 90 for internal routes. The administrative distance is used to rate the trustworthiness of routing information received from different

routing protocols. EIGRP, developed by Cisco, has an AD of 90, which is lower than that of RIP (120) and OSPF (110), making it more preferred if multiple protocols provide a route to the same destination. References: CompTIA Network+ study materials.

QUESTION 13

A company is implementing a wireless solution in a high-density environment.

Which of the following 802.11 standards is used when a company is concerned about device saturation and coverage?

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

Correct Answer: B

802.11ax, also known as Wi-Fi 6, is designed for high-density environments and improves device saturation and coverage compared to previous standards. 802.11ac: While it offers high throughput, it is not optimized for high-density environments as effectively as 802.11ax.

802.11ax (Wi-Fi 6): Introduces features like OFDMA, MU-MIMO, and BSS Coloring, which enhance performance in crowded environments, reduce latency, and increase the number of devices that can be connected simultaneously. 802.11g

and 802.11n: Older standards that do not offer the same level of efficiency or support for high device density as 802.11ax.

Network References:

CompTIA Network+ N10-007 Official Certification Guide: Covers the 802.11 standards and their capabilities.

Cisco Networking Academy: Provides training on Wi-Fi technologies and best practices for high-density deployments.

Network+ Certification All-in-One guide: Discusses the various 802.11 standards and their applications in different environments.

QUESTION 14

Which of the following services provides the network information for the address when IPv6 is used for SLAAC addressing?

- A. EUI-64
- B. IPv6 unicast routing
- C. Router advertisement

D. DHCPv6

Correct Answer: C

Router advertisement is part of the Neighbor Discovery Protocol (NDP) in IPv6 and is used in Stateless Address Autoconfiguration (SLAAC) to provide network information to IPv6 hosts. Router advertisements inform hosts about the presence of routers, network prefixes for address configuration, and various other parameters necessary for the host to configure its IPv6 address and connect to the IPv6 network. This mechanism allows IPv6 devices to automatically configure themselves with an IPv6 address and other related network information without the need for a DHCPv6 server, although DHCPv6 can be used alongside SLAAC for additional configuration options like DNS server addresses.

QUESTION 15

A technician wants to assign addresses to PCs on a subnet that uses IPv4 and IPv6. The DHCP server only supports IPv4. Which of the following can the technician use to assign IPv6 addresses without DHCP?

- A. SLAAC
- B. APIPA
- C. MAC reservation
- D. IPv4 to IPv6 tunnel

Correct Answer: A

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