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QUESTION 1

Which of the following describes the difference between a DNS server and a DHCP server?

- A. DNS is used for address translation, while DHCP is used for IP address assignment.
- B. DNS is used for routing, while DHCP is used for name resolution.
- C. DNS only assigns private IP addresses, while DHCP only assigns public IP addresses.
- D. DNS is used to route traffic between networks, while DHCP is used to allocate subnets.

Correct Answer: A

Explanation: DNS stands for Domain Name System, and it is a network service that translates human-readable names (such as www.google.com) into numerical IP addresses (such as 172.217.14.206) that identify the location of the web servers on the internet. DNS also allows reverse lookup, which means finding the domain name associated with a given IP address. DNS servers are responsible for maintaining a database of domain names and their corresponding IP addresses, and responding to queries from clients who want to resolve a name to an address or vice versa¹². DHCP stands for Dynamic Host Configuration Protocol, and it is a network service that automatically assigns IP addresses and other network configuration parameters (such as subnet mask, default gateway, DNS server, etc.) to devices that join a network. DHCP servers are responsible for managing a pool of IP addresses and leasing them to clients for a specified duration. DHCP servers also renew or release the IP addresses when the lease expires or the client disconnects from the network³⁴. The difference between DNS and DHCP is that DNS is used for address translation, which means converting domain names to IP addresses and vice versa, while DHCP is used for IP address assignment, which means providing IP addresses and other network settings to devices that need to communicate on a network. References: DNS Configuration - CompTIA A+ 220-1101 ?2.6 DHCP Configuration - CompTIA A+ 220-1101 - 2.6 - Professor Messer IT Certification Training Courses CompTIA A+ 220-1101 ?2.6 - Professor Messer IT Certification ... Courses for CompTIA A+: 220-1101: CompTIA A+ (Core 1) - Skillsoft

QUESTION 2

Which of the following devices can be used to connect multiple devices within broadcasting to every network port?

- A. Unmanaged switch
- B. Hub
- C. Firewall
- D. Cable modem

Correct Answer: A

QUESTION 3

Which of the following is an unsecure remote access protocol?

- A. SSH
- B. HTTPS



C. SFTP

D. Telnet

Correct Answer: D

Telnet is an unsecure remote access protocol that allows a user to connect to a remote device and execute commands on it¹². Telnet does not encrypt the data that is transmitted between the user and the device, which means that anyone who intercepts the network traffic can read the information, including usernames and passwords¹². Telnet also does not authenticate the user or the device, which means that anyone can impersonate either party and gain unauthorized access¹.

QUESTION 4

An online retailer is working to support increased sales and boost server capacity by installing additional servers. Which of the following should be used to ensure each new server will be properly utilized?

A. Virtualization

B. DNS

C. Clustering

D. Load balancer

Correct Answer: D

QUESTION 5

Some users are unable to access the Internet from their workstations. A technician runs the ipconfig command on one of the workstations and sees the following:

```
IPv4 address 192.168.1.27
Subnet mask 255.255.255.0
Default gateway 192.168.1.1
```

The technician pings 8.8.8.8 and gets no response. Next, the technician pings 192.168.1.1 and gets no response. The technician is able to successfully ping an adjacent workstation but cannot ping the print server on the floor below. Which of the following is the MOST likely cause of the Internet connectivity issue in the office?

A. There is a problem with a router in the office

B. There is a problem with a DNS server in the office

C. The users are not getting correct IP addresses from the DHCP server

D. The wireless access point in the area is down

Correct Answer: A



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