Your grade: 90%

Your latest: **90%** • Your highest: **90%** • To pass you need at least 80%. We keep your highest score.

Next item

This quiz is designed to assess your existing understanding of the topic before delving into the course material. Do not worry if you find some questions challenging - that's the purpose! After completing the quiz, you'll be able to use the feedback to focus your learning efforts and make the most of the upcoming lessons.

Remember, this is a safe space to assess your current knowledge, so take your time and answer the questions to the best of your ability. You do not need to pass this quiz in order to continue the course. Once you have selected all of your answers, do not forget to click the submit button.

1. Which network protocol is used for remote login and command execution on network devices? 1 / 1 point

- ○ DHCP
- ○ DNS
- ○ FTP
- ◉ Telnet

Correct
Correct. Telnet is a protocol used for remote login and command execution on network devices.

2. Which network protocol is responsible for error reporting and diagnostics in IP networks? 1 / 1 point

- ○ ARP
- ○ DHCP
- ◉ ICMP
- ○ NAT

Correct
Correct. ICMP (Internet Control Message Protocol) is used for error reporting and diagnostics in IP networks.

3. Which network protocol is used for time synchronization in a network? 1 / 1 point

- ○ ARP
- ○ DHCP
- ◉ NTP
- ○ NAT

Correct
Correct. NTP (Network Time Protocol) is used for time synchronization in a network.

4. How many host addresses are available in a Class C network? 1 / 1 point

- ◉ 254
- ○ 512
- ○ 1022
- ○ 65534

Correct
Correct. A Class C network provides 254 usable host addresses (256 total minus 1 for the network address and 1 for the broadcast address).

5. What is the maximum number of IP addresses that can be assigned in a /26 subnet? 1 / 1 point

- ○ 30
- ◉ 62
- ○ 126
- ○ 254

Correct
Correct. A /26 subnet allows for 64 addresses in total, but only 62 are usable (excluding the network and broadcast addresses).

6. What is the purpose of the subnet mask in TCP/IP networking? 0 / 1 point

- ◉ To identify the network address
- ○ To identify the broadcast address
- ○ To determine the number of available hosts
- ○ To define the range of assignable IP addresses

Incorrect
Incorrect. The subnet mask does not identify the network address itself but helps to distinguish network and host portions of an IP address.

7. How many bits are used to represent an IPv6 address? 1 / 1 point

- ○ 32 bits
- ○ 64 bits
- ◉ 128 bits
- ○ 256 bits

Correct
Correct. IPv6 addresses are 128 bits long.

8. Which transport protocol is commonly used for web browsing, file transfer, and email communication? 1 / 1 point

- ◉ TCP
- ○ UDP

Correct
Correct. TCP (Transmission Control Protocol) is used for reliable, ordered, and error-checked delivery, making it suitable for web browsing, file transfer, and email.

9. Which transport protocol is commonly used for streaming media and real-time communication? 1 / 1 point

- ○ TCP
- ◉ UDP

Correct
Correct. UDP is used for streaming media and real-time communication because it offers faster transmission by foregoing.

10. Which transport protocol guarantees the order of packet delivery? 1 / 1 point

- ◉ TCP
- ○ UDP

Correct
Correct. TCP guarantees that packets are delivered in order and manages packet loss and errors.