

networking multiple choice questions with answers

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Networking Multiple Choice Questions with Answers 2: Boost Your Networking Knowledge

Are you ready to test your networking prowess? This isn't your average quiz; this is a deep dive into the world of computer networking, designed to challenge and enhance your understanding. Picking up where our last set of questions left off, this comprehensive guide provides a second batch of challenging networking multiple choice questions with answers. Whether you're a seasoned network administrator, a student prepping for an exam, or simply curious about how networks function, this post is for you. We'll cover a wide range of topics, from fundamental concepts like IP addressing and subnetting to more advanced subjects like routing protocols and network security. Get ready to put your knowledge to the test!

Section 1: IP Addressing and Subnetting – Networking Multiple Choice Questions with Answers 2

Let's start with the bedrock of networking: IP addressing. Understanding IP addresses and subnetting is crucial for any networking professional.

Question 1: Which of the following is a valid IPv4 address?

- a) 192.168.1.256
- b) 255.255.255.255
- c) 10.0.0.1
- d) 172.16.0.0/16

Answer: c) 10.0.0.1 (a) is invalid because the last octet exceeds 255. (b) is a broadcast address. (d) is a network address, not a host address.

Question 2: What is the purpose of a subnet mask?

- a) To identify the network address
- b) To identify the broadcast address
- c) To determine the network portion of an IP address
- d) All of the above

Answer: d) All of the above. The subnet mask is crucial for separating the network and host portions of an IP address.

Question 3: You have a network with the IP address 192.168.1.0/24. How many usable host addresses are available?

- a) 254
- b) 255
- c) 256
- d) 510

Answer: a) 254. A /24 subnet has 256 addresses (28), but two are reserved: the network address and the broadcast address.

Section 2: Routing Protocols – Networking Multiple Choice Questions with Answers 2

Routing protocols are the brains behind network connectivity, allowing data to traverse vast networks efficiently.

Question 4: Which routing protocol is a distance-vector protocol?

- a) OSPF
- b) BGP
- c) RIP
- d) EIGRP

Answer: c) RIP (Routing Information Protocol) is a classic distance-vector protocol. OSPF and EIGRP are link-state protocols, while BGP is a path-vector protocol.

Question 5: What is the primary function of the Border Gateway Protocol (BGP)?

- a) Routing within an Autonomous System (AS)
- b) Routing between Autonomous Systems (AS)
- c) Configuring network interfaces
- d) Managing network security

Answer: b) Routing between Autonomous Systems (AS). BGP is the routing protocol used on the internet to exchange routing information between different networks.

Question 6: What does OSPF stand for?

- a) Open Shortest Path First
- b) Optimized Shortest Path First
- c) Open Source Path Finding
- d) Optimized Static Path Finding

Answer: a) Open Shortest Path First. OSPF is a link-state routing protocol known for its efficiency and scalability.

Section 3: Network Security – Networking Multiple Choice Questions with Answers 2

Network security is paramount in today's interconnected world. These questions assess your understanding of basic security concepts.

Question 7: Which of the following is a common network security threat?

- a) Denial of Service (DoS) attack
- b) Malware
- c) Phishing
- d) All of the above

Answer: d) All of the above. DoS attacks, malware, and phishing are all significant network security threats.

Question 8: What does a firewall do?

- a) Prevents unauthorized access to a network
- b) Encrypts network traffic
- c) Detects malware
- d) Both a) and c)

Answer: a) Prevents unauthorized access to a network. While firewalls can contribute to malware detection, their primary function is controlling network access.

Question 9: What is the purpose of a VPN (Virtual Private Network)?

- a) To encrypt network traffic
- b) To create a secure connection over an untrusted network
- c) To mask your IP address
- d) All of the above

Answer: d) All of the above. VPNs offer multiple security and privacy benefits.

Section 4: Network Topologies and Devices – Networking Multiple Choice Questions with Answers 2

Understanding network topologies and the various devices that make up a network is essential.

Question 10: Which network topology is characterized by a central hub or switch?

- a) Mesh
- b) Star
- c) Bus
- d) Ring

Answer: b) Star. The star topology is widely used due to its simplicity and scalability.

Conclusion

This second installment of networking multiple choice questions with answers has provided a more in-depth exploration of key networking concepts. By working through these questions, you should have strengthened your understanding of IP addressing, routing protocols, network security, and network topologies. Remember, consistent learning and practice are vital for mastering networking. Keep exploring, keep questioning, and keep expanding your knowledge!

FAQs

1. Where can I find more networking practice questions? Many online resources offer practice questions and quizzes. Search for "networking practice exams" or "CCNA practice questions" for a good starting point.
1. Are these questions representative of real-world networking scenarios? While simplified for the quiz format, the concepts covered are directly applicable to real-world networking challenges.
1. What level of networking knowledge is assumed for these questions? A basic understanding of networking fundamentals is helpful, but the questions are designed to be accessible to those with varying levels of experience.

1. What is the best way to prepare for a networking certification exam? A combination of study materials, practice questions, and hands-on experience is ideal. Consider joining online communities and forums to interact with other learners.
1. Are there any recommended resources for learning more about networking? Many excellent online courses and books are available. Look for resources that cover specific areas of interest, such as routing, switching, or security.

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