

C172 Network and Security Foundations Version 1

Section: IT & Computer Studies • Total Questions: 10 • Format: Verified Q&A

1. Which layer of the OSI model includes IP addresses?

- (A) Application
 - (B) Network
 - (C) Session
 - (D) Transport
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2. A company is concerned about weak Wi-Fi security. Which method should the company use to increase Wi-Fi security?

- (A) Enable MAC address filtering
 - (B) Trust local hosts by default
 - (C) Add more access points
 - (D) Implement wired equivalent privacy (WEP)
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3. An enterprise security system continuously monitors user behavior and network activity, dynamically adjusting authentication requirements based on risk factors rather than assuming ongoing access. Which security principle is being applied?

- (A) Least privilege
 - (B) Separation of privilege
 - (C) Zero trust
 - (D) Psychological acceptability
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4. A company notices an unusual number of failed login attempts coming from a single IP address. The security team confirms that the attacker is using automated scripts to guess employee passwords. Which type of attack is being attempted?

- (A) Spoofing attack
 - (B) SQL injection attack
 - (C) Brute-force attack
 - (D) Phishing attack
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5. A company migrates to the cloud to lower IT costs, improve agility, and enhance remote collaboration. Which benefit of cloud computing does this scenario illustrate?

- (A) Community cloud
 - (B) Virtualization
 - (C) Operational efficiency
 - (D) Hybrid deployment
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6. A technician suspects a DNS resolution problem and wants to run a quick test using a simple query. Which command should they use?

- (A) arp
 - (B) tracer
 - (C) ping
 - (D) nslookup
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7. A company enforces role-based access control (RBAC) to ensure employees can only access information related to their job duties. Which AAA category does this apply to?

- (A) Authentication
 - (B) Accounting
 - (C) Auditing
 - (D) Authorization
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8. A company backs up customer data to an external cloud storage provider. Which security measure ensures the data remains confidential even if the provider is compromised?

- (A) Deploying a firewall
 - (B) Using a VPN connection
 - (C) Implementing a web filter
 - (D) Encrypting data before uploading
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9. An online retailer encrypts all payment information before transmitting it over the internet, preventing attackers from intercepting sensitive financial data. Which CIA principle is being upheld?

- (A) Redundancy
 - (B) Availability
 - (C) Confidentiality
 - (D) Integrity
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10. An organization's network has been the target of several cyberattacks. Which strategy should the organization use for Wi-Fi hardening?

- (A) Implement wired equivalent privacy (WEP)
- (B) Add more access points
- (C) Trust local hosts by default
- (D) Disable ESSID broadcasting