

Information Security Fundamentals

Q: What does CIA Triad mean?

A: Confidentiality, Integrity, and Availability — the core principles of information security.

Q: What is Confidentiality?

A: Ensuring that sensitive information is accessible only to authorized individuals.

Q: What is Integrity?

A: Ensuring that data is accurate, complete, and not altered improperly.

Q: What is Availability?

A: Ensuring that systems and data are accessible when needed by authorized users.

Q: What is Authentication?

A: The process of verifying the identity of a user or system.

Q: What is Authorization?

A: The process of granting access rights and permissions after authentication.

Q: What is Encryption?

A: Converting data into a secure format so that only authorized parties can read it.

Q: What is Phishing?

A: A cyber attack where attackers trick users into revealing sensitive information via fake messages or websites.

Q: What does Vulnerability mean?

A: A weakness in a system that can be exploited by a threat.

Q: What is Risk in Information Security?

A: The potential for loss or damage when a threat exploits a vulnerability.