

Password security is a critical part of cyber security. This task focuses on understanding how passwords are stored using hashing, how weak passwords are attacked, and how strong authentication mechanisms like MFA protect systems. Robust password security constitutes a foundational element of effective cybersecurity. This task is designed to elucidate the mechanisms by which passwords are secured via hashing, the vulnerabilities exploited by attackers utilizing weak passwords, and the enhanced system protection afforded by robust authentication methodologies, such as Multi-Factor Authentication (MFA).

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- Used to store passwords
- Cannot be reversed

Encryption

- Two-way process
- Data can be decrypted
- Used for secure communication

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