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Types of Authentication: Password Authentication



1

Password Authentication uses a **combination** of username and password to authenticate network users

2

The password is checked against a **database** and allows access, if it matches

3

Password authentication can be vulnerable to **password cracking attacks** such as brute force or dictionary attacks

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Types of Authentication: Two-factor Authentication



1

Two-factor authentication involves using two different authentication factors out of a possible three (a knowledge factor, a possession factor, and an inherence factor) to verify the **identity of an individual** in order to enhance **security in authentication systems**

2

Combinations of two-factor authentication: password and smartcard or token, password and biometrics, password and OTP, smartcard or token and biometrics, or other combinations.

3

Inherence factor (biometric authentication) is the best companion of two-factor authentication as it is considered to be the **hardest to forge or spoof**

4

The **most widely used physical or behavioral characteristics to establish or verify an identity** include fingerprints, palm pattern, voice or face pattern, iris features, keyboard dynamics, and signature dynamics, among others

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