It is generally good practice to force the user to utilize a strong password. Research what is meant by a “strong” password. Explain what makes a password strong.

Hello Class,

A strong password is one that is difficult for others to guess or crack. It's a critical component in securing personal and organizational data.

A strong password can be characterized by

Length:

The longer a password, the better. A minimum of 8 characters is often recommended, but 12 to 16 characters or more is preferable.

Complexity:

Mix of Characters: A strong password includes a mix of uppercase and lowercase letters, numbers, and special characters (like @, #, $, %).

No Predictable Sequences: Avoid sequences or repeated characters (e.g., 12345, aaa, qwerty).

Unpredictability:

It should not include easily guessable information like your name, birthdate, or common words.

Avoid dictionary words and common phrases since they can be easily cracked by dictionary attacks.

Uniqueness:

Each account should have a unique password to prevent a breach on one account from affecting others.

A strong password is important for:

Protection Against Brute-Force Attacks: Strong passwords take significantly longer to crack through brute-force methods, where an attacker tries every possible combination.

Defense Against Dictionary Attacks: By avoiding common words and phrases, the password becomes resistant to dictionary attacks.

Securing Personal and Sensitive Information: A strong password helps protect your personal data, as well as sensitive organizational data.

A strong password is a crucial line of defense in cybersecurity. It should be long, complex, unpredictable, and unique. This is complemented by best practices like using 2FA and password managers. By ensuring strong passwords, users significantly reduce their vulnerability to a variety of cyber attacks.

References:

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