

Passwords security policy

Through password policy passwords can be made secure, and accounts and sensitive information can be kept safe.

The most important factor regarding passwords is password length, meaning passwords should always be at least 12 characters long, but even longer the better. Long passwords decrease the risk of brute force attacks and provide the best protection against them. Brute force attacks are attacks that use trial and error in guessing the victim's password, meaning the attackers go through all the possible combinations in order to guess the right password.

alongside password length it is also extremely important to use complex passwords. requirements like uppercase and lowercase letters, numbers and different symbols combined together ensure a complex password and furthermore significantly decrease the chance of attacks like brute force and others. The authentication should be implement so that it requires a certain length password.

Reusing passwords, no matter how strong and complex should also be prohibited. Reusing passwords is still common and should be avoided because if one of the user's account gets hacked, then also the user's other accounts are compromised in the same way.

Most common passwords should not be allowed since they are usually not complex and long enough. Passwords like 123456, qwerty, 111111 etc. should not be allowed.

After a set number of login attempts, the user's account should be temporarily locked to prevent brute force attacks.

Using multifactor authentication should also be done if possible. Multifactor authentication means that the user has to provide two or more verification factors when logging in. Multifactor authentication protects user's accounts even if the attacker gains access to the user's password.

Password storages should also be used if they are confirmed to be secure. The best option for password storage is a password manager app. Password manager apps enable the users to access passwords anywhere and they are also more secure than browser password managers.

These steps should keep passwords and accounts safe.