Hello Sir/Ma'am,

Date - 14/10/2022

After completing the assessment i have cracked passwords using Hashcat tool.I also learned lot of new things about cryptography.Here are some password of hashes.

e10adc3949ba59abbe56e057f20f883e : **123456**

25f9e794323b453885f5181f1b624d0b : **123456789**

d8578edf8458ce06fbc5bb76a58c5ca4 : **qwerty**

5f4dcc3b5aa765d61d8327deb882cf99 : **password**

e99a18c428cb38d5f260853678922e03 : **abc123**

fcea920f7412b5da7be0cf42b8c93759 : **1234567**

3f230640b78d7e71ac5514e57935eb69 : **qazxsw**

f6a0cb102c62879d397b12b62c092c06 : **bluered**

1.Hashing Algorithm used: MD5

2.Level of protection : MD5 is a weak and insecure algorithm and is prone to collisions.

3. Recommendations :

✧ Try using more secure algorithm like sha256.

✧ Always use salting technique.

4.Observation in password policy :

✧ Minimum password length is set to 6.

✧ No set rules to create password.

✧ Password can be guessed easily.

5.Changes :

✧ Increase the password length to minimum of 15.

✧ Provide tools to check their password strength while creating password.

✧ Password can't use 75% of characters from username.

Thankyou