Dear Sir/Ma’am,

After my attempts on cracking the passwords using Hashcat, I have concluded the basic technicalities and suggestions to improve your policies considering passwords.

Cracked passwords were found to be using MD5 (Message-Digest algorithm 5) cryptographic hash algorithm which could be easily broken.

The passwords were very easy to crack with Hashcat as well as with other online websites like <https://crackstation.net/> . It is advised to use SHA algorithms instead of MD5 which are equally easy and more reliable to use.

* Organizations’ password policy needs advancement.
* Minimum characters for password creation are 6.
* Users are not guided towards a strong password since passwords like 111111, password were found.

For making sure the password is secure I would give following recommendations:

* Don’t use any personal information
* A combination of letters, words and symbols should be used.
* Least password length should be of 8.
* Don’t use same passwords for different websites.
* Avoid using real names since hackers use programs to process every word in dictionary to hack into your account.

Cracked Passwords:

experthead:e10adc3949ba59abbe56e057f20f883e - 123456 interestec:25f9e794323b453885f5181f1b624d0b - 123456789 ortspoon:d8578edf8458ce06fbc5bb76a58c5ca4 - qwerty reallychel:5f4dcc3b5aa765d61d8327deb882cf99 - password simmson56:96e79218965eb72c92a549dd5a330112 - 111111 bookma:25d55ad283aa400af464c76d713c07ad - 12345678 popularkiya7:e99a18c428cb38d5f260853678922e03 - abc123 eatingcake1994:fcea920f7412b5da7be0cf42b8c93759 - 1234567 heroanhart:7c6a180b36896a0a8c02787eeafb0e4c - password1 edi\_tesla89:6c569aabbf7775ef8fc570e228c16b98 - password! liveltekah:3f230640b78d7e71ac5514e57935eb69 - qazxsw blikimore:917eb5e9d6d6bca820922a0c6f7cc28b - Pa$$word1 johnwick007:f6a0cb102c62879d397b12b62c092c06 – bluered

Thanking you,

Abhyudai Sharma