

Dear Sir/Ma'am

After trying to crack all the leaked hashes, I found several vulnerabilities in your password policy and this email concludes all the findings and suggestions to improve your password policy.

Secure Hash Algorithm (SHA) and Message Digest (MD5) are the standard cryptographic hash functions to provide data security for authentication. All the passwords which are compromised were using MD5 which is a weaker hash algorithm and is prone to collisions.

It was very easy to crack with <https://crackstation.net/>
I would suggest that you use a very strong password encryption mechanism to create hashes for the password based SHA.

After cracking the passwords, we find the following things about organization's password policy:

- Minimum length for password is set to 6.
- There is no specific requirement set for the password creation.

You can include several new things in your password creation. My recommendations are:

- Avoid common words and character combinations in your password.
- Longer passwords are better, 8 characters is a starting point.
- Don't reuse your passwords.
- Include special characters, Capital and Small letters, and numbers in your password.
- Don't let users include their username, actual name, date of birth and other personal information while creating a password.
- Train your users to follow these policies to keep their passwords safe.

Thanking you,

Khushi

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Observations :

Security Algorithms used:

experthead:e10adc3949ba59abbe56e057f20f883e – MD5
interestec:25f9e794323b453885f5181f1b624d0b – MD5
ortspoon:d8578edf8458ce06fbc5bb76a58c5ca4 –MD5
reallychel:5f4dcc3b5aa765d61d8327deb882cf99 –MD5
simmson56:96e79218965eb72c92a549dd5a330112 – MD5
bookma:25d55ad283aa400af464c76d713c07ad – MD5
popularkiya7:e99a18c428cb38d5f260853678922e03 – MD5
eatingcake1994:fcea920f7412b5da7be0cf42b8c93759 – MD5
heroanhart:7c6a180b36896a0a8c02787eeafb0e4c – MD5
edi_tesla89:6c569aabbf7775ef8fc570e228c16b98 – MD5
liveltekah:3f230640b78d7e71ac5514e57935eb69 – MD5
blikimore:917eb5e9d6d6bca820922a0c6f7cc28b – MD5
johnwick007:f6a0cb102c62879d397b12b62c092c06 – MD5
flamesbria2001:9b3b269ad0a208090309f091b3aba9db – MD5
oranolio:16ced47d3fc931483e24933665cded6d - MD5
spuffyffet:1f5c5683982d7c3814d4d9e6d749b21e - MD5
moodie:8d763385e0476ae208f21bc63956f748 - MD5
nabox:defebde7b6ab6f24d5824682a16c3ae4 - MD5
bandalls:bdda5f03128bcbdfa78d8934529048cf - MD5

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