Dear Sir/Ma'am

After trying to crack all the leaked hashes, I found several vulnerabilities in yourpassword 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 standardcryptographic hash functions to provide data security for authentication.

All the password which are compromised were using MD5 which is a weakerhash algorithm and is prone to collisions.

It was very easy to crack with Hashcat.com and rockyou.txt wordlist via terminaland web browsers. I would suggest that you use a very strong password encryption mechanism to create hashes for the password based on 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 for the password creation. Users can useany combination of word and letters to create a password.

You can include several new things in your password policy. Myrecommendations 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 character, Capital and Small letters, numbers in yourpassword.
- Don't let users include their username, actual name, date of birth andother personal information while creating a password.
- Train your users to follow these policies to keep their passwords safe.

Thanks, and regards, Chaitanya Sudhakar Shikhare MSc Data Analytics and Decision Science

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 - MD5bandalls: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