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 password which are compromised were using MD5 which is a weaker hash algorithm

and is prone to collisions.

It was very easy to crack with hashcat.com, crackstation.com and rockyou.txt wordlist via terminal and two 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 organisation's password policy:

Minimum length for password is set to 6.

There is no specific requirement for the password creation. Users can use any combination of word and letters to create

a password.

You can include several new things in your password policy. 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 character, Capital and Small letters, 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,

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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

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

moodie:8d763385e0476ae208f21bc63956f748 - MD5
nabox:defebde7b6ab6f24d5824682a16c3ae4 - MD5
bandalls:bdda5f03128bcbdfa78d8934529048cf - MD5