

Dear Sir/Ma'am

After trying to crack all the leaked hashes, I found several holes in the 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 via terminal and 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:

1. There is no specific requirement for the password creation. Users can use any combination of word and letters to create a password.
2. Minimum length of password is set to 6.

You could implement new policies in your password policy, I would suggest:

1. Longer passwords are always better.
2. Not to reuse the passwords.
3. Inclusion of special characters.
4. Avoiding common words.
5. Not letting to use the username as password.

#### **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**

**Thanking You,**  
**Anirudha C A**  
**ECE**