Respected Sir/Ma’am,

After trying to track all the leaked hashes, I found several vulnerabilities in your password policy and this e-mail concludes all the findings and suggestions to improve your password policy.

Secure hash algorithm SHA and Message Digest MD5 Plain are the standard cryptographic hash functions to provide data security for authentication.

All the passwords which were compromised were using MD5 which is weaker and prone to collisions. It was very easy to crack with her rockyou.txt or crack station word list. I would suggest that you use a very strong password encryption mechanism to create hashes for the password based on SHA.

After cracking the password we find the following things about organizations password policy:-

1. Minimum length for password is set to 6.
2. 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, which can be-

1. Avoid common words and character combinations in your password.
2. Longer passwords are better. 8 characters is a starting point.
3. Don’t reuse your passwords for multiple organizations.
4. Include special characters, capital and small letters, alphanumeric characters for your password.
5. Do not let users include their username, actual name, date of birth or any other personal information while creating a password.

Thanking you

Shatakshi Saxena

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