Dear Sir/Ma'am

After cracking 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 (MDS) are the standard cryptographic hash functions to provide data security for authentication

All the password which are compromised were using MDS which is weaker and prone to collisions. It was very easy to crack with rockyou.txt, crackstation and dictionary wordlist. 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 following things about organization's password policy:

* Minimum length for password is set to 8
* 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 characters, Capital and Small letters, numbers in your password.
* Do not let users include their username, actual name, date of birth and other personal information while creating a password.
* Aware your users to follow all these policies.

Thank You Regards

Name: ANAND SINGH

The cracked passwords are: -

|  |  |  |
| --- | --- | --- |
| **MD5 Hash** | **Status** | **Result** |
| e10adc3949ba59abbe56e057f20f883e | **Cracked** | 123456 |
| 25f9e794323b453885f5181f1b624d0b | **Cracked** | 123456789 |
| d8578edf8458ce06fbc5bb76a58c5ca4 | **Cracked** | qwerty |
| 5f4dcc3b5aa765d61d8327deb882cf99 | **Cracked** | password |
| 96e79218965eb72c92a549dd5a330112 | **Cracked** | 111111 |
| 25d55ad283aa400af464c76d713c07ad | **Cracked** | 12345678 |
| e99a18c428cb38d5f260853678922e03 | **Cracked** | abc123 |
| fcea920f7412b5da7be0cf42b8c93759 | **Cracked** | 1234567 |
| 7c6a180b36896a0a8c02787eeafb0e4c | **Cracked** | password1 |
| 6c569aabbf7775ef8fc570e228c16b98 | **Cracked** | password! |
| 3f230640b78d7e71ac5514e57935eb69 | **Cracked** | qazxsw |
| 917eb5e9d6d6bca820922a0c6f7cc28b | **Cracked** | Pa$$word1 |
| f6a0cb102c62879d397b12b62c092c06 | **Cracked** | bluered |
| 9b3b269ad0a208090309f091b3aba9db | **Cracked** | Flamesbria2001 |
| 16ced47d3fc931483e24933665cded6d | **Cracked** | Oranolio1994 |
| 1f5c5683982d7c3814d4d9e6d749b21e | **Cracked** | Spuffyffet12 |
| 8d763385e0476ae208f21bc63956f748 | **Cracked** | moodie00 |
| defebde7b6ab6f24d5824682a16c3ae4 | **Cracked** | nAbox!1 |
| bdda5f03128bcbdfa78d8934529048cf | **Cracked** | Banda11s |