Day 8 of Learning Cyber Security Platform: Kali Linux

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Topic: John the Ripper



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John the Ripper: Password Auditing & Cracking

Create & Edit a file

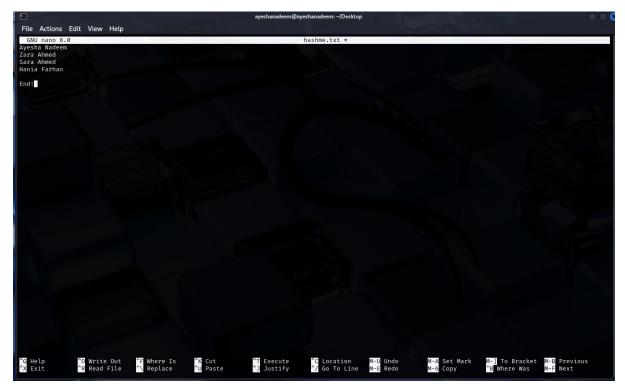
```
File Actions Edit View Help

(ayeshanadeem® ayeshanadeem)-[~]

$ cd Desktop

(ayeshanadeem® ayeshanadeem)-[~/Desktop]

$ nano hashme.txt
```



- Press Ctrl + O, then Enter
- Press Ctrl + X, to save changes

```
(ayeshanadeem® ayeshanadeem)-[~/Desktop]
$ cat hashme.txt

Ayesha Nadeem

Zara Ahmed

Sara Ahmed

Hania Farhan

End!
```

Generate a Hash of hashme.txt file MD5

```
ayeshanadeem⊕ ayeshanadeem)-[~/Desktop]
$ md5sum hashme.txt
437f9ac0dd8dd958eace2302793851a2 hashme.txt
```

SHA 256

```
(ayeshanadeem® ayeshanadeem)-[~/Desktop]
$ sha256sum hashme.txt
46bd2068e546995cf5d2b6d1d630363fcc7261dba7396cc4c46d9a5de8a22baf hashme.txt
```

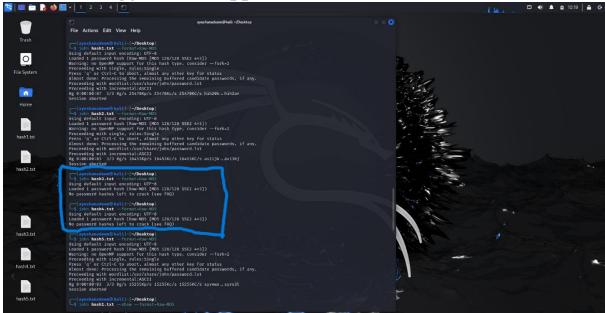
I had created the hash of some names using md5 and sha256 hashing algorithm. The **more secure** algorithm is sha256 because the hash generated by sha256 is more **lengthy and tricky to break**. The hash length of sha256 is **256 bits**, means less hash collisions while md5 hash length is 128 bits, means more hash collisions

Password Hashes Crack

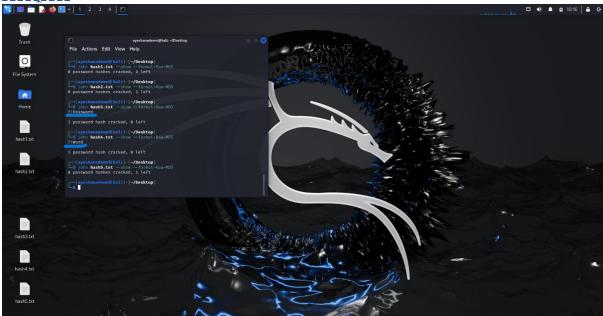
Edit these hash one by one in nano editor then, apply john the ripper tool to crack these hashes.

No	Hash of Password generated in MD5	Password
1	50c60ac437e4d4ef19c77bdca5bbcf3b	University
2	b9698b8546220246fe600a949db326bf	Pakistan
3	dc647eb65e6711e155375218212b3964	Password
4	07a094a210794e74a0e5e1a1457a92ee	Word
5	88756ab57e0945c6455553c4c4cc622e	Islamabad

Cracked using John the Ripper



Output:



Only hash 3 and 4 is successfully decrypted by John the Ripper.

Reference:

<u>Decrypt MD5, SHA1, MySQL, NTLM, SHA256, MD5 Email, SHA256 Email, SHA512, Wordpress, Bcrypt hashes for free online</u>