Using-tools-like-John-the-Ripper-for-password-cracking

AIM:

To crack the password of a ZIP file using John the Ripper on Kali Linux by extracting the hash value

DESIGN STEPS:

Step 1:

Install John the Ripper using the command:

Step 2:

Prepare the password hash file (e.g., using unshadow for Linux password and shadow files).

Step 3:

Use John the Ripper to crack the hashes:

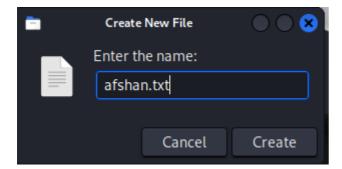
PROGRAM:

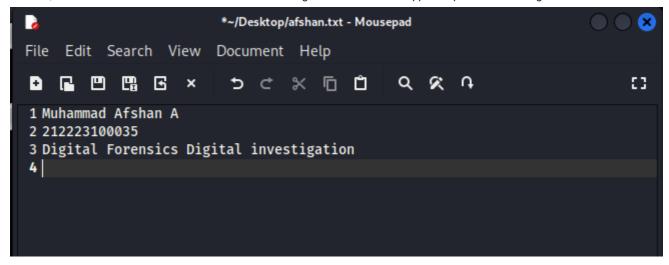
Password Cracking with John the Ripper

OUTPUT:

Create an txt file

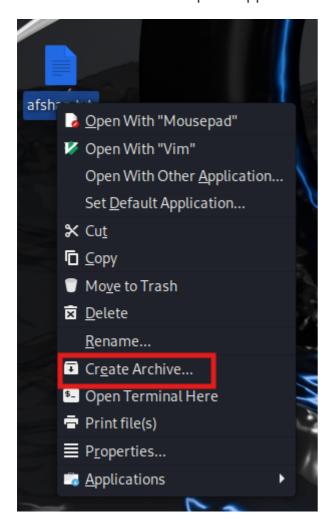
- Right-click on the Desktop and choose Create Document → Empty Document.
- · Name the file: anyname.txt

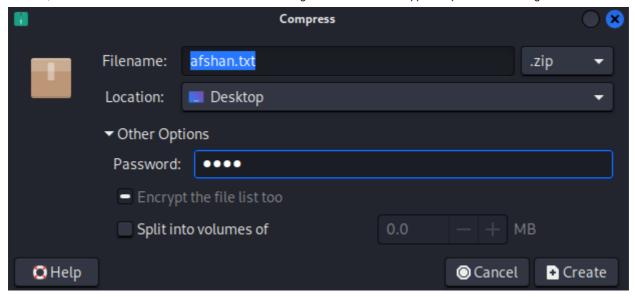




Create a Password-Protected ZIP File

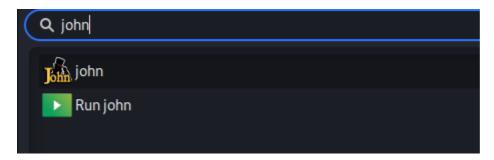
- Right-click on name.txt → Create Archive → Select .zip format.
- Click Other Options, set a password (e.g., 1234), then click Create.
- A file named name.txt.zip will appear.

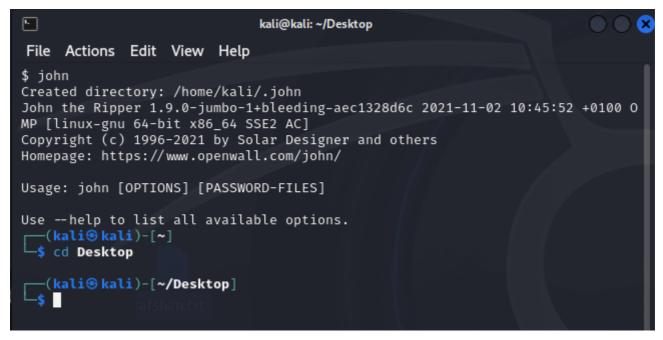




Open John-The-Ripper Tool

- Click on the Kali menu or press the Super (Windows) key.
- Search for "john" and click it this opens the terminal with John the Ripper installed.





Generate Hash Using zip2john

• Run: "Is" command to confirm whether zip file is present

and type the following command below

```
zip2john afshan.txt.zip > hash.txt

(kali@ kali)-[~/Desktop]
$ zip2john afshan.txt.zip > hash.txt

(kali@ kali)-[~/Desktop]
```

Type the command cat hash.txt or Open the file hash.txt

```
cat hash.txt

(kali@kali)-[~/Desktop]

$ cat hash.txt

afshan.txt.zip/afshan.txt:$zip2$*0*1*0*0ecfba23f24de5b7*a3e5*43*f5c5a51c5cf42
e62078e926e7ffecf2cf3d2701b3f5fbe782d501a8973d13583df262b6e7f64d51fdf56ea611e
099e57420bfa0efa5c47098003e97360594e956b777a*4cfaea695e6c5ca41d8e*$/zip2$:afs
han.txt:afshan.txt.zip:afshan.txt.zip
```

or

Open hash.txt file

Start Cracking the Password

• Type the following command to crack the password:

```
john --format=zip --mask=?d?d?d hash.txt
```



View the Cracked Password

• After cracking is complete, reveal the password using:

```
john --show hash.txt
```

```
(kali@ kali)-[~/Desktop]
$ john --show hash.txt
afshan.txt.zip/afshan.txt:0374:afshan.txt:afshan.txt.zip:afshan.txt.zip

1 password hash cracked, 0 left
```

RESULT:

The password hashes were successfully cracked using John the Ripper.