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EXPERIMENT 2

CRACK THE HASHES

AIM:

To install and crack the hashed passwords using John-the-Ripper tool in Kali Linux.

ALGORITHM:

1. Install John-the-Ripper on your system using `sudo apt install john`
2. Prepare the hash file `hashes.txt` that is to be cracked.
3. Run John-the-Ripper specifying the path to the `wordlist.txt` and `hashes.txt`
4. Monitor the cracking process using status option in another terminal

OUTPUT:

```
labex:project/ $ sudo apt install john
Reading package lists... Done
Building dependency tree... Done
Reading state information... Done
john is already the newest version (1.8.0-4ubuntu3).
The following packages were automatically installed and are no longer required:
  gir1.2-xfconf-0 gsfons gsfons-x11 libfile-readbackwards-perl libfltk-images1.3 libfltk1.3 libgdk
-pixbuf-xlib-2.0-0 libjpeg-turbo-progs xscreensaver-data
Use 'sudo apt autoremove' to remove them.
0 upgraded, 0 newly installed, 0 to remove and 346 not upgraded.
labex:project/ $ nano hash.txt
labex:project/ $ nano wordlist.txt
labex:project/ $ john --wordlist=wordlist.txt hash.txt

Loaded 2 password hashes with 2 different salts (md5crypt [MD5 32/64 X2])
Will run 2 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
0g 0:00:00:00 100% 0g/s 1000p/s 2000c/s 2000C/s password..secret123
Session completed
```

RESULT:

Thus, the hashes have been cracked using john the ripper.