

Password Security Analysis Report

OS: Kali Linux

Tools Used: John the Ripper, Hashcat

Wordlist: rockyou.txt

Aim

To understand password security and crack weak password hashes using John the Ripper and Hashcat.

Procedure & Result

Using John the Ripper

Command used:

```
$ john --format=Raw-SHA1 --wordlist=/usr/share/wordlists/rockyou.txt hash2.txt
```

Result:

The password was successfully cracked.

Cracked password: password

(Screenshot attached)

Using Hashcat

Command used:

```
hashcat -m 100 -a 0 hash2.txt /usr/share/wordlists/rockyou.txt
```

Result:

The same password was cracked using Hashcat.

Cracked password: password

(Screenshot attached)

Observation

Weak passwords are present in common wordlists. SHA-1 hash is fast and insecure. Both tools cracked the password instantly.

Conclusion

This experiment shows that weak passwords can be easily cracked using John the Ripper and Hashcat. Strong passwords and multi-factor authentication are required for better security.

Result

Password successfully cracked using both John the Ripper and Hashcat.

