

OFFSEC Hash Write-up: Clara

Sinopse

Quebrando hashs, criado pela OFFSEC para a SATECH/UFSC. Dentro deste CTF, o objetivo é identificar o tipo de hash e realizar a sua quebra com hashcat, obtendo, ao final, o link do próximo desafio;

1 Quebra das Hashes

1.1 Hash: 482c811da5d5b4bc6d497ffa98491e38

Utilizando a ferramenta hashid, descobrimos que a hash utilizou a criptografia MD5, dessa forma com o seguinte comando, achamos a resposta desejada.

```
> hashcat -a 0 -m 0 hash.txt /usr/share/wordlists/rockyou.txt
```

```
482c811da5d5b4bc6d497ffa98491e38:password123

Session: ......: hashcat
```

Figure 1: Resultado.

1.2 Hash: 861c4f67e887dec85292d36ab05cd7a1a7275228

Utilizando a ferramenta hashid, descobrimos que a hash utilizou a criptografia SHA-1, dessa forma com o seguinte comando, achamos a resposta desejada.

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

```
* Bytes....: 139921507

* Keyspace..: 14344385te also that for many algorithms, when the raw hashes that are or is the 'hex' (ASCII) form of the hash. The exception is when the se 861c4f67e887dec85292d36ab05cd7a1a7275228:elasy

Session.....: hash Cabome hash types require specific tools to extract the hashes Status.....: Chackeds.

Hash.Mode.....: 100 (SHA1)
```

Figure 2: Resultado.

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1.3 Hash: 4149c5cc4c378444d116d65ad5ba4099

Utilizando a ferramenta hashid, descobrimos que a hash utilizou a criptografia MD4, porém, diferente das hashes anteriores, temos que usar o modo de brute force para quebra-lá.

```
> hashcat -a 3 -m 900 -1 ?l?d?u hash.txt ?1?1?1?1?1
```

```
Session....: hashcat
Status.....: Cracked
Hash.Mode.....: 900 (MD4)
Hash.Target...: 4149c5cc4c378444d116d65ad5ba4099
Time.Started.5......: Wed Oct 1 21:46:11 2025 (4 mins, 20 secs)
Time.Estimated...: Pure Kernel (password length 0-256 bytes)
Guess.Mask....: ?1?1?1?1?1?1 [6]
Guess.Charset...: -1 ?1?d7u, -2 N/A, -3 N/A, -4 N/A, -5 N/A, -6 N/A, -7 N/A, -8 N/A
Guess.Queue...: 1/1 (100.00%)
Speed.#01.....: 41115.8 kH/s (17.65ms) @ Accel:379 Loops:1024 Thr:1 Vec:4
Recovered.py.101.....: 4115.8 kH/s (17.65ms) @ Accel:379 Loops:1024 Thr:1 Vec:4
Recovered.py.101.....: 0/11365185184/56800235584 (20.01%)
Rejected.......: 0/11365185184 (0.00%)
Restore.Point...... 2956200/14776336 (20.01%)
Restore.Sub.#01... Salt:0 Amplifier:1024-2048 Iteration:0-1024
Candidates.#01...: MZSH9c → m6P2hm
Hardware.Mon.#01.: Util: 77%
```

Figure 3: Resultado.

1.4 Hash: cdeb746ec095149627348b61d4140fc58b745875

Utilizando a ferramenta hashid, descobrimos que a hash utilizou a criptografia HMAC-SHA1, dessa forma com o seguinte comando, achamos a resposta desejada.

```
> hashcat -a 0 -m 150 hash.txt /usr/share/wordlists/rockyou.txt
```

```
* Device #01: cpu-penryn-11th Gen Intel(R) Core(TM) i5-113567 @ 2.48GHz, 2224/4448 MB (1024 MB allocatable), 2MCU

Minimum password length supported by kernel: 0

Maximum password length supported by kernel: 256

Minimum salt length supported by kernel: 256

Minimum astl length supported by kernel: 256

Minimum astl length supported by kernel: 256

INFO: All hashes found as potfile and/or empty entries! Use — show to display them.

For more information, see https://hashcat.net/faq/potfile

Started: Wed Oct 1 21:57:49 2025
Stopped: Wed Oct 1 21:57:49 2025

Objective: Recover the secret key.

(kali@kali)-[-/Downloads]

* Device #01: op proceed by kernel in the user's home

Girce(rv.)

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Maximum salt length supported by kernel: 256

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(kali@kali)-[-/Downloads]

* hashcat — show — in 150 hash.txt

deb7/46ce095149627348061d4140fc58b745875:satech:ovelha
```

Figure 4: Resultado.

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1.5 Hash: 362fda2183b7ac73400a83f6ab2c359451e48adf6c3d46a2963ee2abdf852912

Utilizando a ferramenta hashid, descobrimos que a hash utilizou a criptografia SHA2-256, porém, diferente das hashes anteriores, temos que usar o modo de brute force para quebra-lá.

```
> hashcat -a 3 -m 1400 -1 ?l?d?u hash.txt ?1?1?1?1?1
```

Figure 5: Resultado.

Dessa forma, achamos o link para o próximo ctf. E assim termina o OFFSEC Hash do CTF da satech 2025.

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