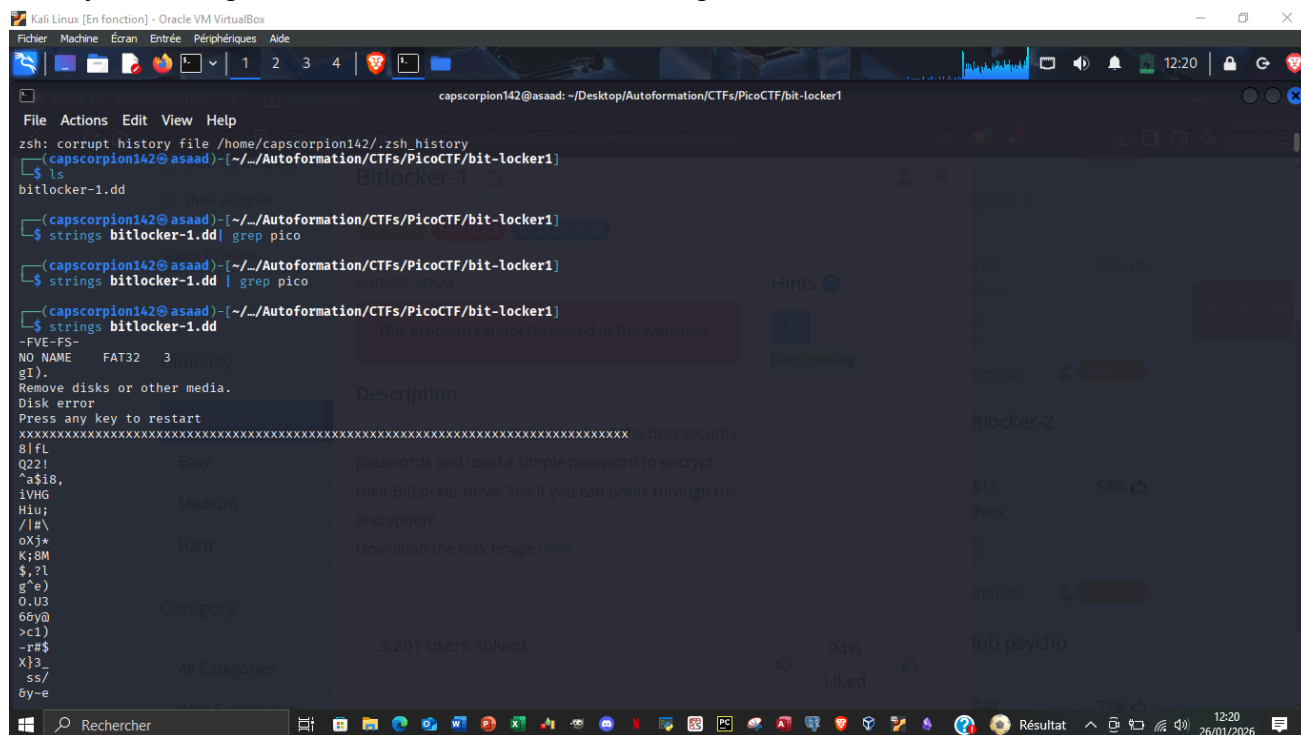
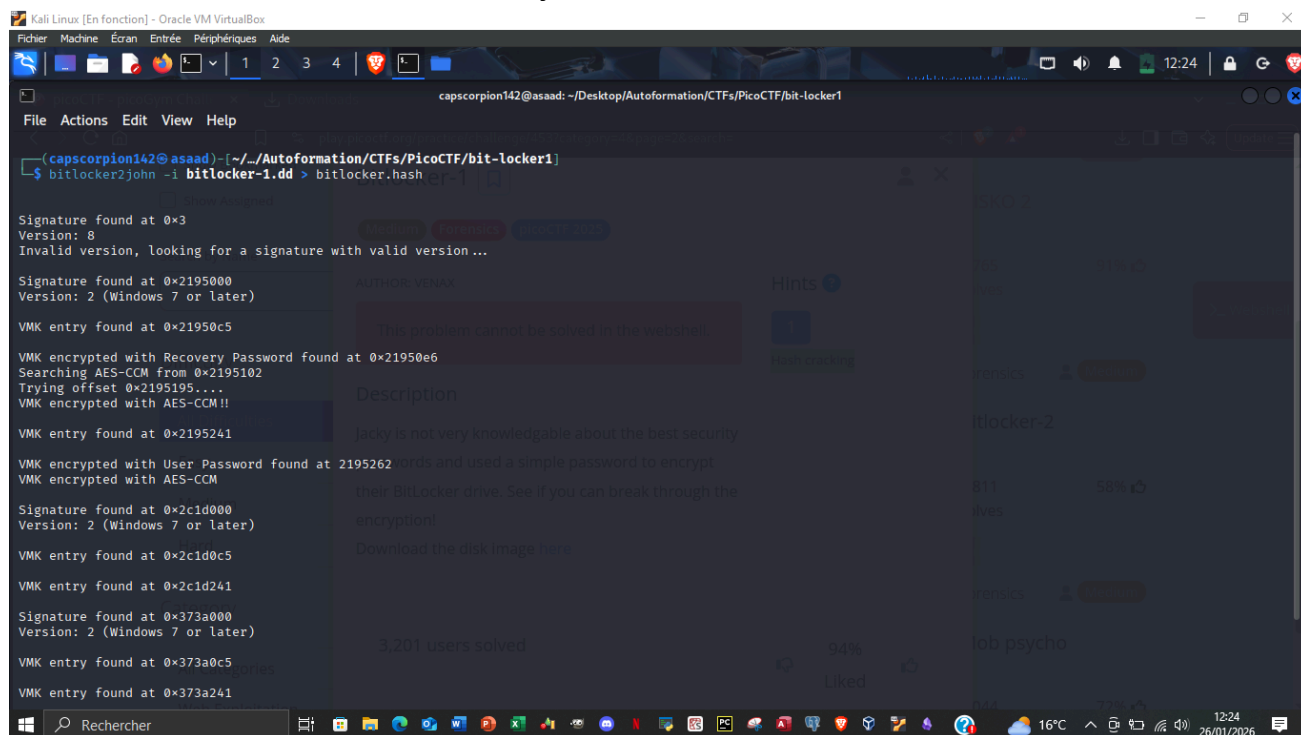


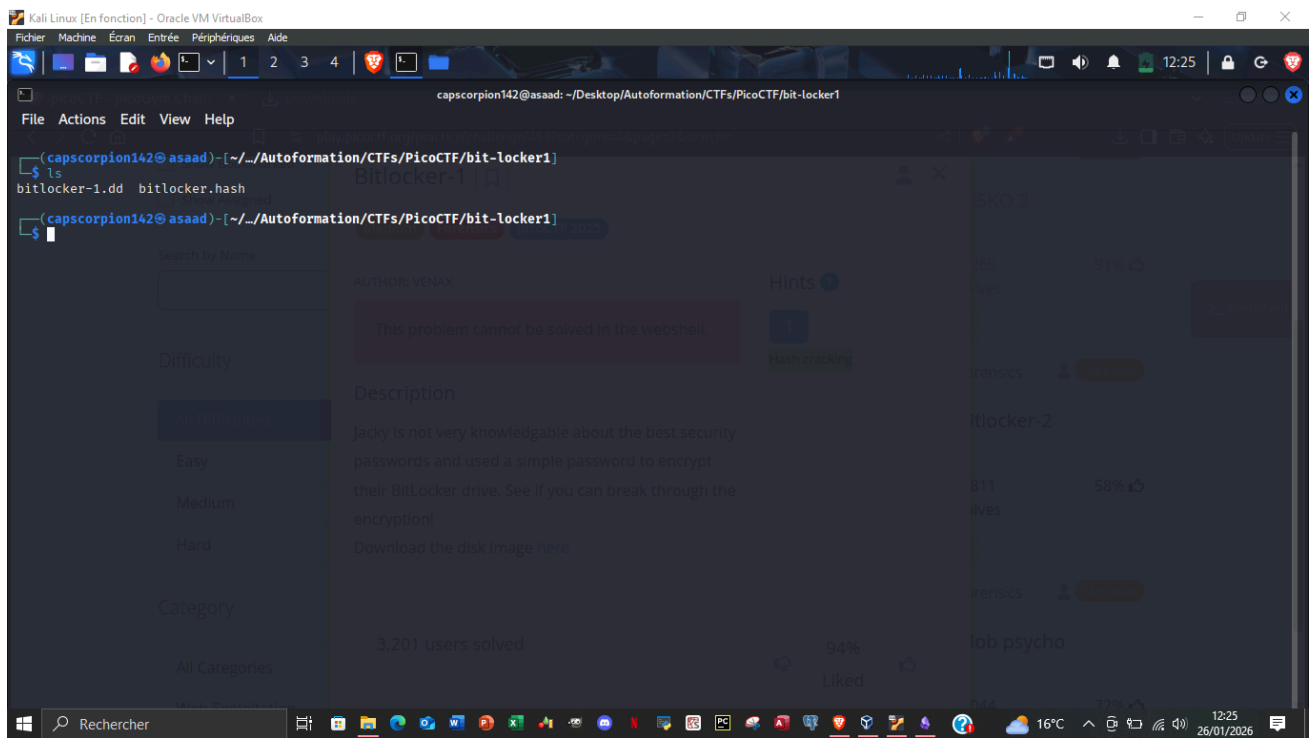
bit-locker1

- We download the disk image
- We try the strings command and this is what we get:

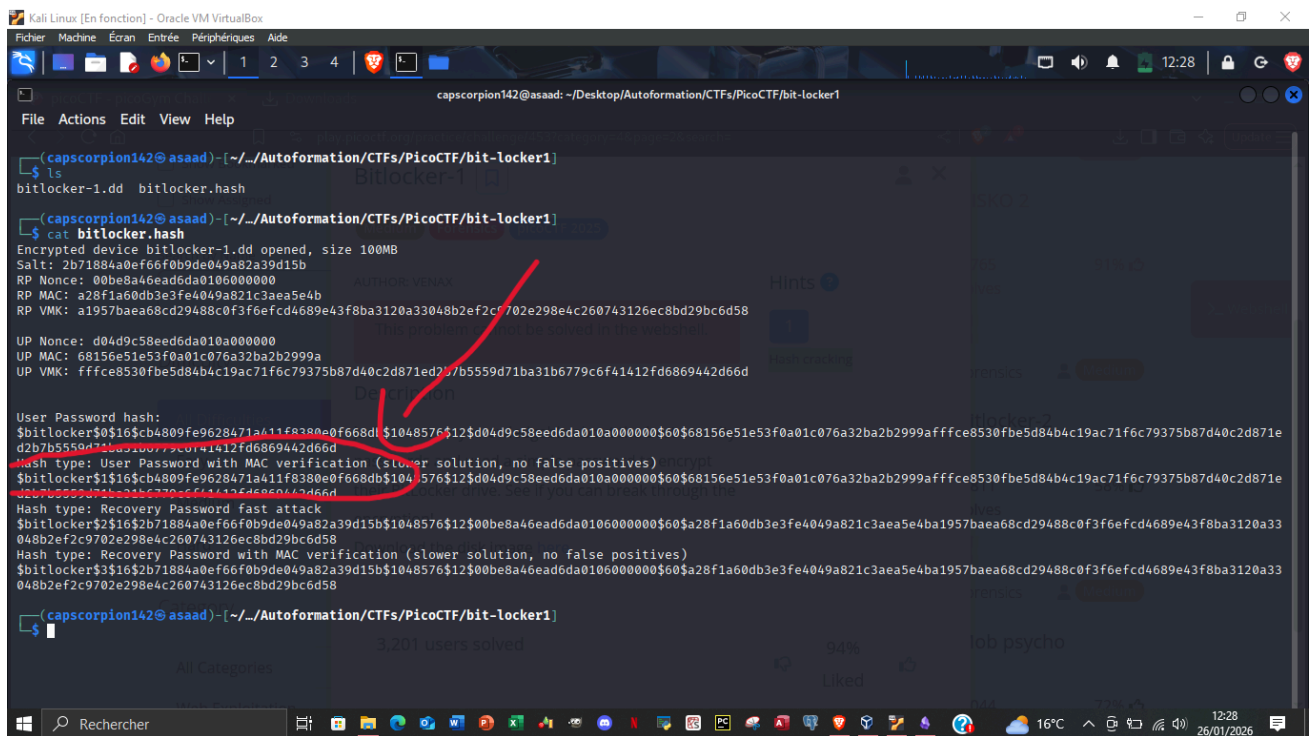


- A long file
- So we use a tool called john for bitlockers (we must hash it)
- And we do this command : "bitlocker2john -i bitlocker-1.dd > bitlocker.hash"

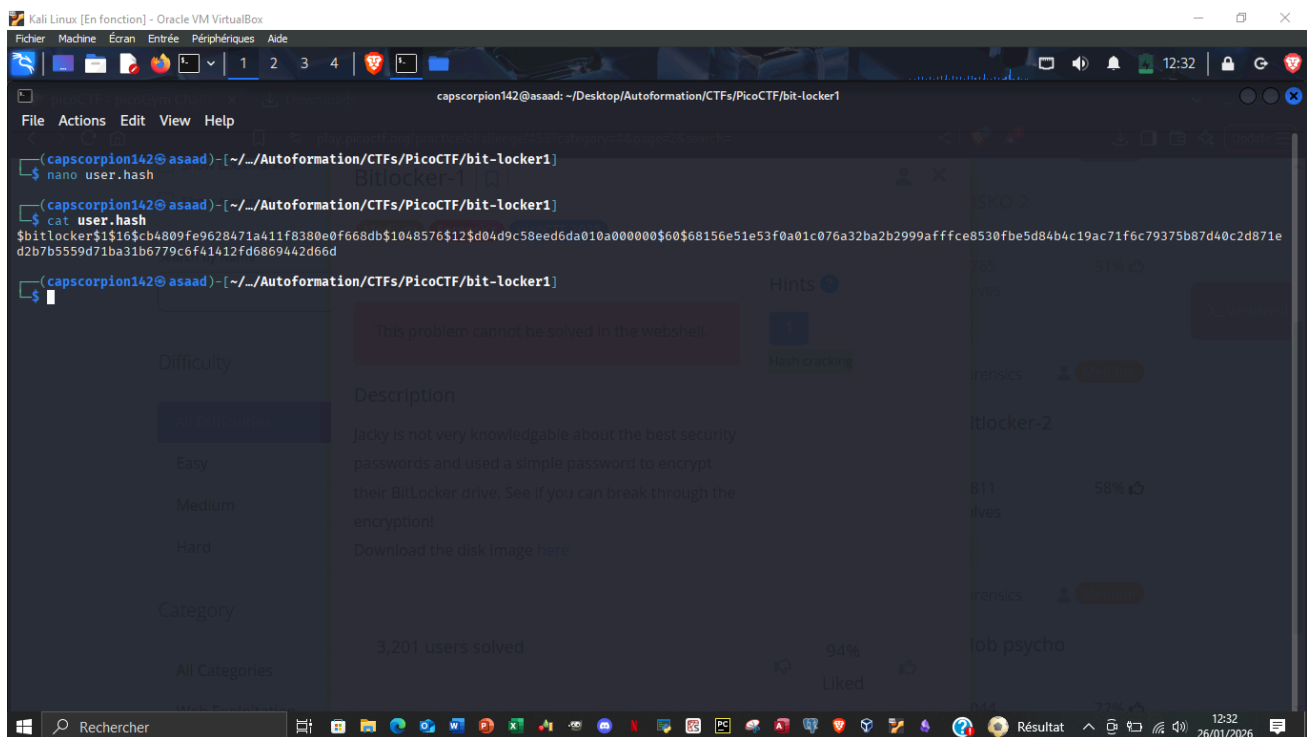
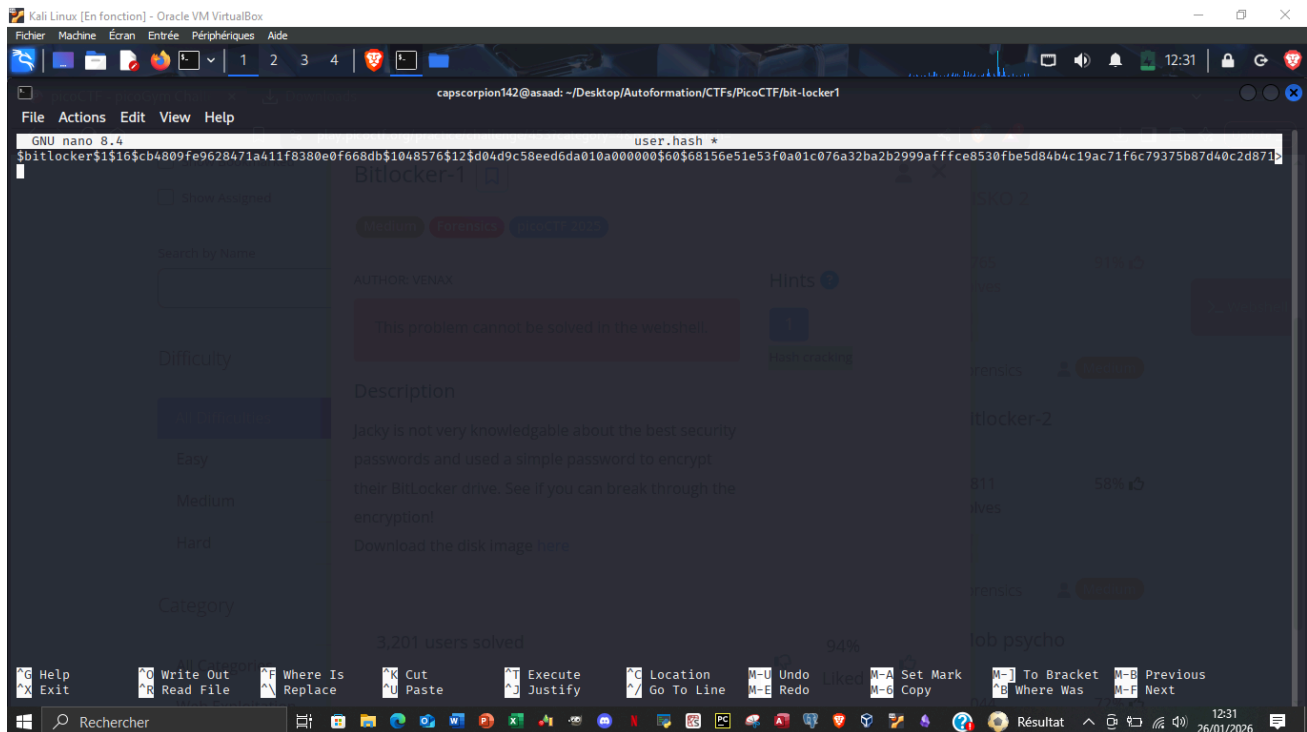




- We take this password with \$1:



- We put that only line in .hash file to use later:



- So now, we'll use our file user.hash with a wordlist with this command "hashcat -m 22100 user.hash /usr/share/wordlists/rockyou.txt --force"

- It is processing:

```

Kali Linux [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide

capscorpion142@asaad: ~/Desktop/Autoformation/CTFs/PicoCTF/bit-locker1

File Actions Edit View Help

(capscorpion142@asaad)~[~/Desktop/Autoformation/CTFs/PicoCTF/bit-locker1]
$ hashcat -m 22100 user.hash /usr/share/wordlists/rockyou.txt --force

hashcat (v6.2.6) starting

You have enabled --force to bypass dangerous warnings and errors!
This can hide serious problems and should only be done when debugging.
Do not report hashcat issues encountered when using --force.

OpenCL API (OpenCL 3.0 PoCL 6.0+debian Linux, None+Asserts, RELOC, SPIR-V, LLVM 18.1.8, SLEEF, DISTRO, POCL_DEBUG) - Platform #1 [The pocl project]

* Device #1: cpu-penryn-11th Gen Intel(R) Core(TM) i3-1115G4 @ 3.00GHz, 1791/3646 MB (512 MB allocatable), 1MCU

Minimum password length supported by kernel: 4
Maximum password length supported by kernel: 256

Hashes: 1 digests; 1 unique digests, 1 unique salts
Bitmaps: 16 bits, 65536 entries, 0x0000ffff mask, 262144 bytes, 5/13 rotates
Rules: 1

Optimizers applied: Easy
* Single-Hash
* Single-Salt
* Slow-Hash-SIMD-Loop Medium

Watchdog: Temperature abort trigger set to 90°C
Initializing backend runtime for device #1. Please be patient ...
  
```

- We found the password:

```

Kali Linux [En fonction] - Oracle VM VirtualBox
Fichier Machine Écran Entrée Périphériques Aide

capscorpion142@asaad: ~/Desktop/Autoformation/CTFs/PicoCTF/bit-locker1

File Actions Edit View Help

Speed.#1.....: 4 H/s (6.29ms) @ Accel:8 Loops:4096 Thr:1 Vec:4
Recovered.....: 0/1 (0.00%) Digests (total), 0/1 (0.00%) Digests (new)
Progress.....: 1816/14344385 (0.01%)
Rejected.....: 0/1816 (0.00%)
Restore.Point...: 1816/14344385 (0.01%)
Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:1044480-1048576
Candidate.Engine.: Device Generator
Candidates.#1...: $HEX[7269636861726431] -> $HEX[696d65007265646e]
Hardware.Mon.#1...: Util:100%

$bitlocker$1$16$cb4809fe9628471a411f8380e0f668db$1048576$12$04d9c58eed6da010a000000$60$68156e51e53f0a01c076a32ba2b2999afffce8530f5e5d84b4c19ac71f6c79375b87d40c2d871e
d2b7b559d71ba31b6779c6f41412fd6869442d66d:jacqueline

Session.....: hashcat
Status.....: Cracked
Hash.Mode.....: 22100 (BitLocker)
Hash.Target.....: $bitlocker$1$16$cb4809fe9628471a411f8380e0f668db$10... 42d66d
Time.Started.....: Mon Jan 26 12:40:18 2026, (7 mins, 7 secs)
Time.Estimated...: Mon Jan 26 12:47:25 2026, (0 secs)
Kernel.Feature...: Pure Kernel
Guess.Base.....: File (/usr/share/wordlists/rockyou.txt)
Guess.Queue.....: 1/1 (100.00%)
Speed.#1.....: 4 H/s (6.09ms) @ Accel:8 Loops:4096 Thr:1 Vec:4
Recovered.....: 1/1 (100.00%) Digests (total), 1/1 (100.00%) Digests (new)
Progress.....: 1920/14344385 (0.01%)
Rejected.....: 0/1920 (0.00%)
Restore.Point...: 1912/14344385 (0.01%)
Restore.Sub.#1...: Salt:0 Amplifier:0-1 Iteration:1044480-1048576
Candidate.Engine.: Device Generator
Candidates.#1...: howard -> hercules
Hardware.Mon.#1...: Util: 0%

Started: Mon Jan 26 12:39:10 2026
Stopped: Mon Jan 26 12:47:28 2026

(capscorpion142@asaad)~[~/Desktop/Autoformation/CTFs/PicoCTF/bit-locker1]
$
  
```

```

sudo apt install dislocker
mkdir bitlocker decrypted
sudo dislocker -V bitlocker-1.dd -uPASSWORD_FOUND -- bitlocker
sudo mount -o loop bitlocker/dislocker-file decrypted
ls decrypted
  
```

- Use this command for the before last one : "sudo mount -o ro,loop bitlocker/dislocker-file decrypted"

