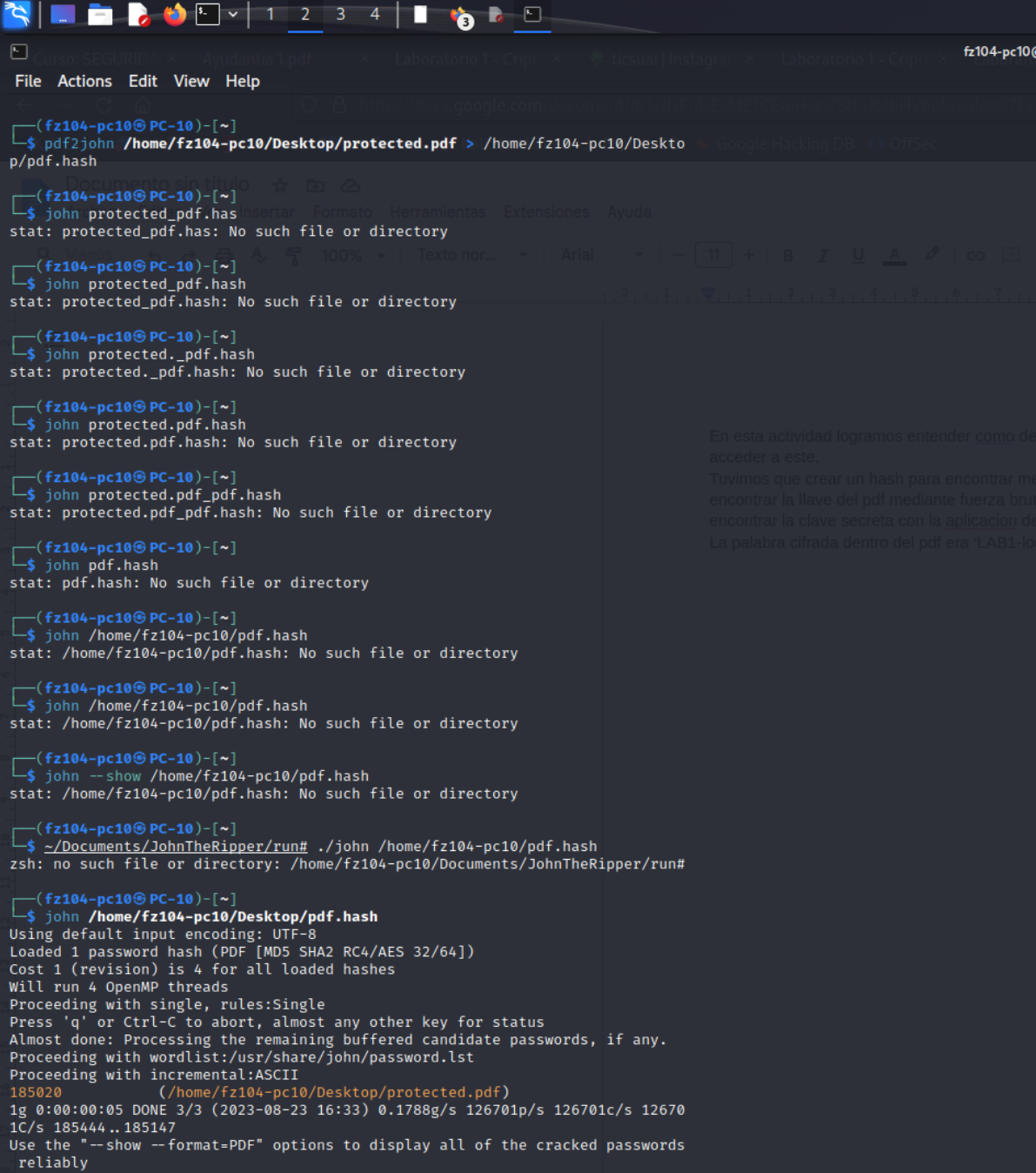


José Hevia Felipe Olivares Grupo 2

En esta actividad logramos entender como descifrar una clave escondida de un pdf para acceder a este.

Tuvimos que crear un hash para encontrar mediante la aplicacion john the ripper para encontrar la llave del pdf mediante fuerza bruta, la clave encontrada se ve en naranja en la imagen y es 185020. Luego decodificamos lo que el pdf contenía para encontrar la clave secreta con la aplicacion de internet CyberChef.

La palabra cifrada dentro del pdf era 'LAB1-logrado'



```
(fz104-pc10@PC-10)-[~]
$ pdf2john /home/fz104-pc10/Desktop/protected.pdf > /home/fz104-pc10/Desktop/pdf.hash

(fz104-pc10@PC-10)-[~]
$ john protected_pdf.hash
stat: protected_pdf.hash: No such file or directory

(fz104-pc10@PC-10)-[~]
$ john protected_pdf.hash
stat: protected_pdf.hash: No such file or directory

(fz104-pc10@PC-10)-[~]
$ john protected._pdf.hash
stat: protected._pdf.hash: No such file or directory

(fz104-pc10@PC-10)-[~]
$ john protected.pdf.hash
stat: protected.pdf.hash: No such file or directory

(fz104-pc10@PC-10)-[~]
$ john protected.pdf_pdf.hash
stat: protected.pdf_pdf.hash: No such file or directory

(fz104-pc10@PC-10)-[~]
$ john pdf.hash
stat: pdf.hash: No such file or directory

(fz104-pc10@PC-10)-[~]
$ john /home/fz104-pc10/pdf.hash
stat: /home/fz104-pc10/pdf.hash: No such file or directory

(fz104-pc10@PC-10)-[~]
$ john /home/fz104-pc10/pdf.hash
stat: /home/fz104-pc10/pdf.hash: No such file or directory

(fz104-pc10@PC-10)-[~]
$ john --show /home/fz104-pc10/pdf.hash
stat: /home/fz104-pc10/pdf.hash: No such file or directory

(fz104-pc10@PC-10)-[~]
$ ~/Documents/JohnTheRipper/run# ./john /home/fz104-pc10/pdf.hash
zsh: no such file or directory: /home/fz104-pc10/Documents/JohnTheRipper/run#

(fz104-pc10@PC-10)-[~]
$ john /home/fz104-pc10/Desktop/pdf.hash
Using default input encoding: UTF-8
Loaded 1 password hash (PDF [MD5 SHA2 RC4/AES 32/64])
Cost 1 (revision) is 4 for all loaded hashes
Will run 4 OpenMP threads
Proceeding with single, rules:Single
Press 'q' or Ctrl-C to abort, almost any other key for status
Almost done: Processing the remaining buffered candidate passwords, if any.
Proceeding with wordlist:/usr/share/john/password.lst
Proceeding with incremental:ASCII
185020 (/home/fz104-pc10/Desktop/protected.pdf)
1g 0:00:00:05 DONE 3/3 (2023-08-23 16:33) 0.1788g/s 126701p/s 126701c/s 12670
1C/s 185444..185147
Use the "--show --format=PDF" options to display all of the cracked passwords
reliably
```

AES Decrypt - CyberChef

https://gchq.github.io/CyberChef/#recipe=AES_Decrypt([{"option":"Hex","string":"FFFFFFFFFFFFFFFFFFFFFFFFFFFFFFFF"}],{"option":"Hex","string":"AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA"}],CBC

Kali LinuxKali ToolsKali DocsKali ForumsKali NetHunterExploit-DBGoogle Hacking DBOffSec

Download CyberChef

Last build: A month ago - Version 10 is here! Read about the new features here

OptionsAbout / Support

Operations

128

AES Decrypt

AES Encrypt

CMAC

ChaCha

GOST Decrypt

GOST Encrypt

MD4

Rabbit

SM4 Decrypt

SM4 Encrypt

Snefru

Standard Deviation

Favourites

Data format

Encryption / Encoding

Public Key

Arithmetic / Logic

Networking

Language

Utils

Recipe

AES Decrypt

Key

FFFFFFFFFFFFFFFF

HEX

IV

AAAAAAAAAAAAAAAA

HEX

Mode

CBC

Input

Hex

Output

Raw

STEP

BAKE!

Auto Bake

Input

87652b6fc8d718f54cc82637453cab2f

Output

LAB1-lograds