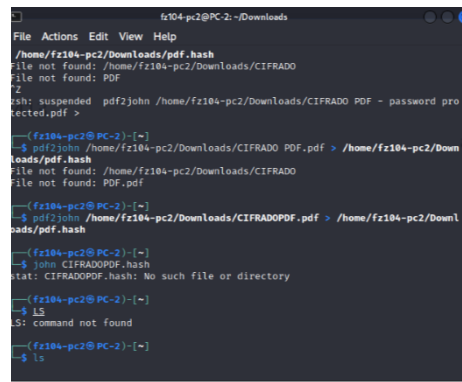


## Laboratorio 1: grupo 3

Agustin Soto

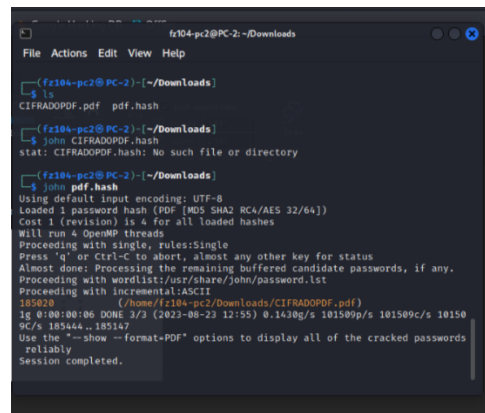
Erick bey

### 1) Abrir John y crear el hash para el pdf con clave



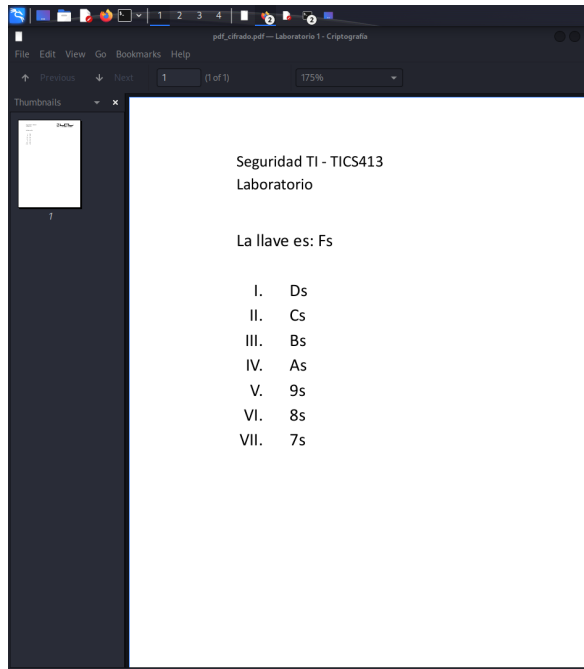
```
fz104-pc2@PC-2: ~/Downloads
File Actions Edit View Help
/home/fz104-pc2/Downloads/pdf.hash
File not found: /home/fz104-pc2/Downloads/CIFRADO
File not found: PDF
File not found: PDF
$ pdf2john /home/fz104-pc2/Downloads/CIFRADO PDF - password protected.pdf >
--(fz104-pc2@PC-2)-[~]
--$ pdf2john /home/fz104-pc2/Downloads/CIFRADO PDF.pdf > /home/fz104-pc2/Downloads/pdf.hash
File not found: /home/fz104-pc2/Downloads/CIFRADO
File not found: PDF.pdf
--(fz104-pc2@PC-2)-[~]
--$ pdf2john /home/fz104-pc2/Downloads/CIFRADO PDF.pdf > /home/fz104-pc2/Downloads/pdf.hash
--(fz104-pc2@PC-2)-[~]
--$ john CIFRADO PDF.hash
stat: CIFRADO PDF.hash: No such file or directory
--(fz104-pc2@PC-2)-[~]
--$ ls
ls: command not found
--(fz104-pc2@PC-2)-[~]
--$ ls
```

### 2) Generar una clave con John

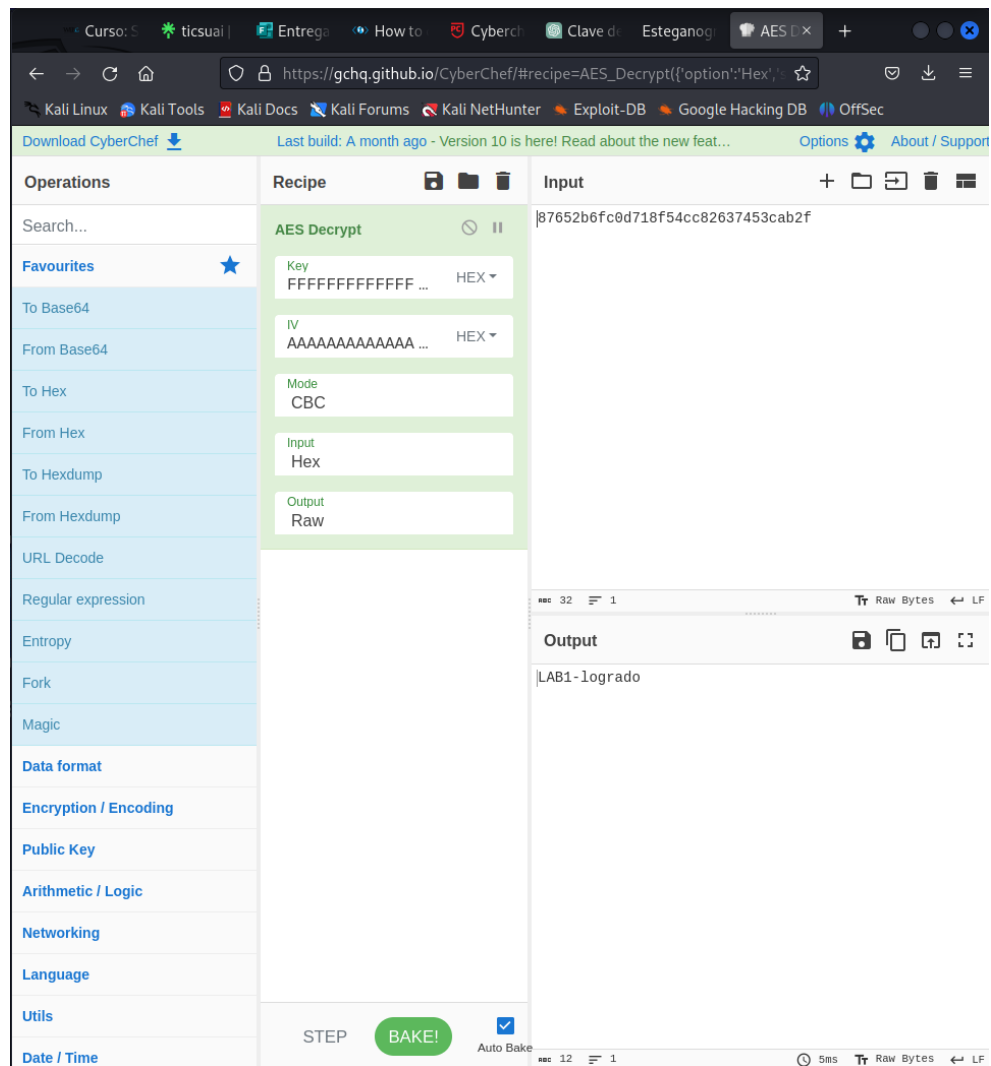


```
fz104-pc2@PC-2: ~/Downloads
File Actions Edit View Help
--(fz104-pc2@PC-2)-[~/Downloads]
--$ ls
CIFRADO PDF.pdf pdf.hash
--(fz104-pc2@PC-2)-[~/Downloads]
--$ john CIFRADO PDF.hash
stat: CIFRADO PDF.hash: No such file or directory
--(fz104-pc2@PC-2)-[~/Downloads]
--$ john pdf.hash
Using default input 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-pc2/Downloads/CIFRADO PDF.pdf )
ig 0:00:00:06 DONE 3/3 (2021-08-23 12:55) 0.1420g/s 101509p/s 101509c/s 10150
9C/s 185444..185147
Use the "--show --format=PDF" options to display all of the cracked passwords reliably
Session completed.
```

### 3) Abrir PDF



#### 4) Usar CyberChef para descifrar



Respuesta:

Servia para agregar seguridad a la encriptación, ya que solo, el receptor con la llave correcta descifre el mensaje en la imagen, permitiendo ocultar mensajes a plena vista en imágenes. En CyberChef permite ocultar información y extraerla