Data is the new currency

PCAP Challenge

NOTE: This write up is not very good, I will fix.

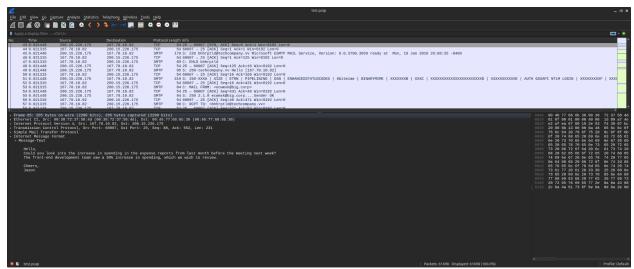
Challenge Description

Corrupt government officials are offering the voter information as a service for a profit. You have been tasked with uncovering this hidden service.

2 Flags:

- 1. What file is sent to the customer, who just purchased access to the voter information service? (Answer Format is the full path)
- 2. What is the occupation of Tatiana Castro?

Part 1:



```
The first purp of general policy Quelous Tripping Quelous
```

Part 2:



Extract bytes to get zip file.

Check IP of client fetching the zip file, 167.78.10.117

There are 2 services. Try the first. Decrypt with private key.

You get:

```
KEY: 3a5d6f0b799b745d064d311dbf9064f9
```

Try key on other service:

```
def decrypt(key, source, decode=True):
    if decode:
        source = base64.b64decode(source.encode("latin-1"))
    key = SHA256.new(key).digest()  # use SHA-256 over our key to get a
proper-sized AES key
    IV = source[:AES.block_size]  # extract the IV from the beginning
    decryptor = AES.new(key, AES.MODE_CBC, IV)
    data = decryptor.decrypt(source[AES.block_size:])  # decrypt
    padding = data[-1]  # pick the padding value from the end; Python 2.x:
ord(data[-1])
```

We get:

Name: Tatiana Castro Historical Voting Patterns: FP,FP,FP,FP,FP,FP,FP,FP,FP

Occupation: Nurse at Vega General Dependents: 0

Martial Status: Widowed Country of Origin: Guatemala

Age: 67 Income Bracket: T3

Education: College

FIN.