

### Using ec2 instances as sneaker bid bots pt 3.

Date: 2023-11-28 By: csr13

For part three.

- How to be PCI compliant when storing credit card information on your premises.
- How to scrape nike products via react store 'storage'.

#### How to be PCI compliant for any app

Code to use when storing credit card information, or any other information, for example, in healtcare, patient confidential data, to be in compliance with HIPPA standards.

```
import json
from cryptography.fernet import Fernet
from aws.loader import AwsSecretLoader
class CreditCardMixin(object):
   @classmethod
   def encrypt_cc_data(cls, data):
       key = None
       key loader = None
           key loader = AwsSecretLoader()
           key = json.loads(key_loader.get_aws_secret("FERNET_KEY"))
           key = key["FERNET KEY"]
           key = os.getenv("FERNET KEY")[1:]
       key = key.encode()
        fernet = Fernet(key)
       cc expiry = f"{data['cc expiry'].month}/{data['cc expiry'].year}"
       data = dict(
           cc_name=fernet.encrypt(data["cc_name"].encode()),
           cc_number=fernet.encrypt(data["cc_number"].encode()),
           cc code=fernet.encrypt(data["cc code"].encode()),
           cc_expiry=fernet.encrypt(cc_expiry.encode()),
        return data
   @classmethod
   def decrypt(cls, value):
        key loader = AwsSecretLoader()
           key: str = key_loader.get_aws_secret("WRAPPER")
           key: dict = json.loads(key)
           key: str = key["FERNET_KEY"]
       key: bytes = key.encode()
        fernet = Fernet(key)
           value = fernet.decrypt(value).decode("utf-8")
        except Exception as error:
           Logger.exception(str(error))
        return value
```

Instead of writing a thousand line selenium (browser automation, guided by selecting elements, classes, id's, or xpaths) we only really need one regex. I converted this into a microservice that I can write a caller executed inside a cron job that fetches me new nike products, from the release soon page daily.

I am using sanic instead of Flask, I like sanic, the logo got me (a cheap drawing of Sonic, but it's very fast).

```
ison
import io
import random
import re
import requests
 rom sanic import Sanic
from sanic.response import json as json_response
app = Sanic( name
config = {"host": "127.0.0.1", "port": 8080, "debug": True}
ps_re = re.compile(r"window.__PRELOADED_STATE__\s=\s(\{.*?\});")
def _get_random_agent():
    with io.open("user-agents.txt") as ts:
         agents = [ .strip("/n") for in ts.readlines()]
         agent = random.choice(agents).strip("\n")
    return agent
@app.route("/random-agent", methods=("GET",))
def get random agent(request):
    with io.open("user-agents.txt") as ts:
    agents = [_.strip("/n") for _ in ts.readlines()]
    agent = random.choice(agents).strip("\n")
body = {"status": "success", "message": agent}
    return json response(body=body, status=200)
@app.route("/nike-products")
async def nike_releases(request):
    data = \{\}
    url = "https://www.nike.com/launch"
    try:
         headers = {"User-Agent": _get_random_agent()}
chunk = requests.get(url, headers)
         target = json.loads(ps_re.search(chunk.text).group(1))
    except Exception as error:
         data.update({"status": "error", "message": str(error)})
    return json_response(body=data, status=400)
data.update({"status": "success", "message": target})
    return json response(body=data, status=200)
     name == " main ":
    app.run(**config)
```

That's it, this is the end of the series, I won't write how to parse and traverse a store, that is the data analyst job, not mine. Needless to say, you do need to write a selenium/puppeter bot that makes the purchase, the checkout.service on the t2.micro/ec2 instance.

I personally found some github code, and hacked it to fit my purpose, since I had to do encrypt and decrypt credit card information (because it travels through the wire), and write custom endpoints that my main command and ontrol server could hit with the purchase information of user, because this app operates not in this fashion. It instead loads the info unencrypted, since it never leaves the codebase and I ended up adding 1000 + lines of node.js code.

Here is the base purchase component repository. https://github.com/samc621/SneakerBot, it works well, developer updates regularly, and has great documentation, the developers added many other stores other than nike.

# This post is part of a series, check out the other parts of this series of notes

Using ec2 instances as sneaker bid bots pt 2.

<u>Using ec2 instances as sneaker bid bots pt 1.</u>

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