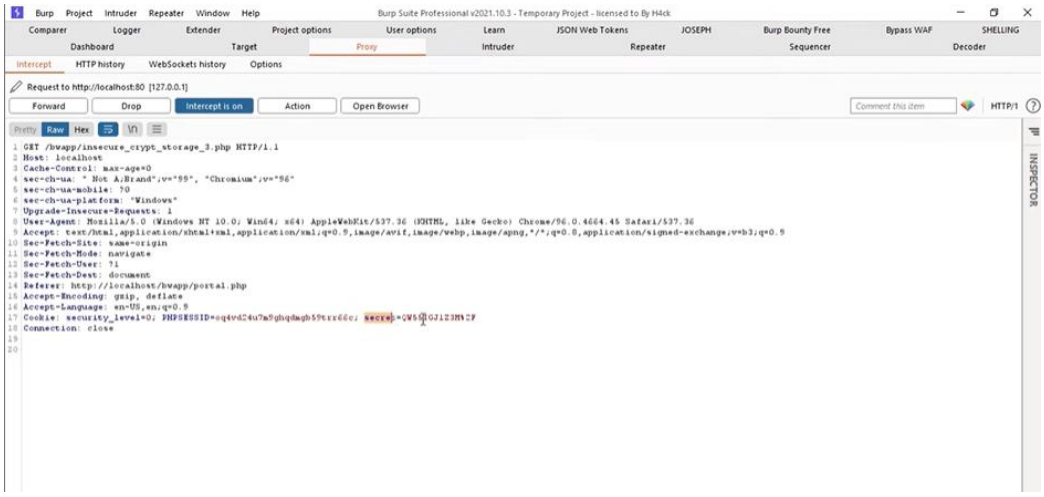
Sensitive Data Exposure

base64 encoding – POC

Step 1: Open BWAPP and select Base64 Encoding and click on hack

Security Level : Low

Step 2 : Capture the request in BurpSuite , here we've got a cookie-header and secret named parameter



The hint was to decrypt the parameter

Step 3: Then using decoder feature in burpsuite 'smartdecoder', identify the type of encoding in this case it's base 64

Step 4: After selecting Base 64 encoding , it will decode

Here after decoding the message was "Any bugs?"

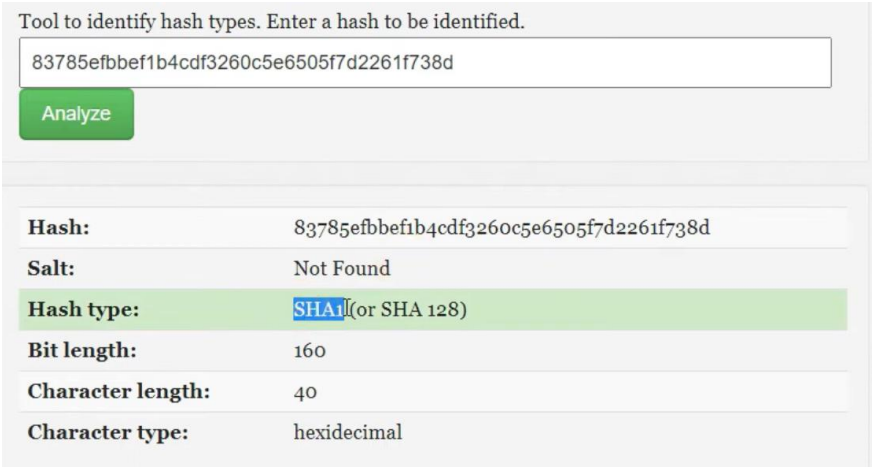
Here we exposed sensitive encrypted data by decoding it

Security Level: Medium/High

Step 1: After capturing requests in medium level, this time we got some bigger encoded value

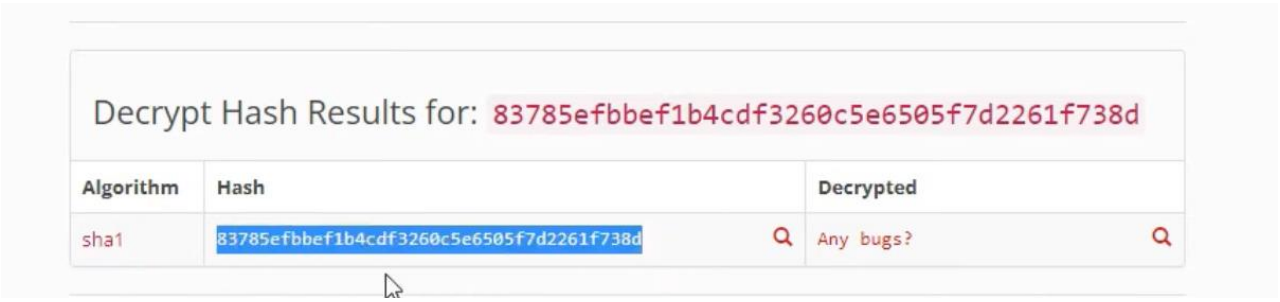
```
Sec-Fetch-Mode: navigate
Sec-Fetch-User: ?1
Sec-Fetch-Dest: document
Referer: http://localhost/bwapp/insecure_crypt_storage_3.php
Accept-Encoding: gzip, deflate
Accept-Language: en-US,en;q=0.9
Cookie: PHPSESSID=oq4vd24u7m9ghqdmgb59trr66c; security_level=1; secret=83785efbbef1b4cdf3260c5e6505f7d2261f738d
Connection: close
```

Step 2: Use Hash analyserf to find out the type of hash



In this case it is SHA1 with bit length – 160

Step 3: After finding out the type of hash just decrypt the hash



Here we successfully decrypted sensitive data