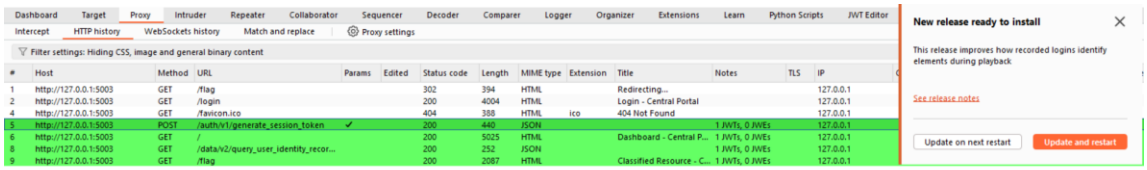
CCSP Writeup

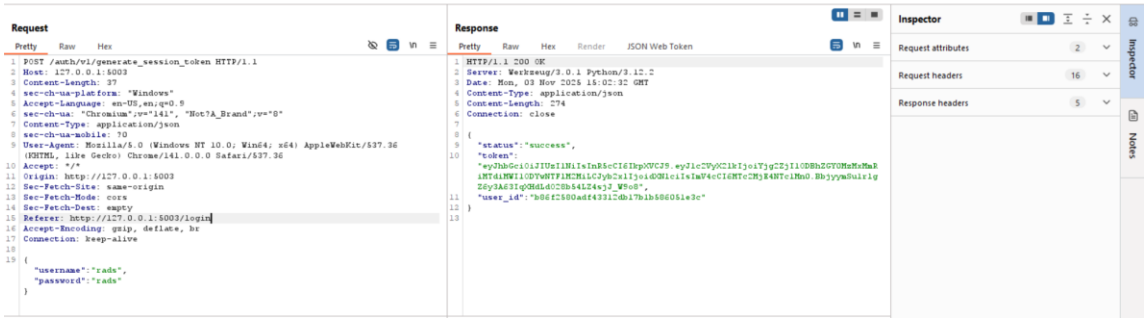
1. Register and Login as a Normal User

- Begin by **registering a new account** and logging into the web application.
- After login, you are presented with a dashboard and options to access *Classified/Admin Resources*.

2. Inspect API Requests & User Discovery

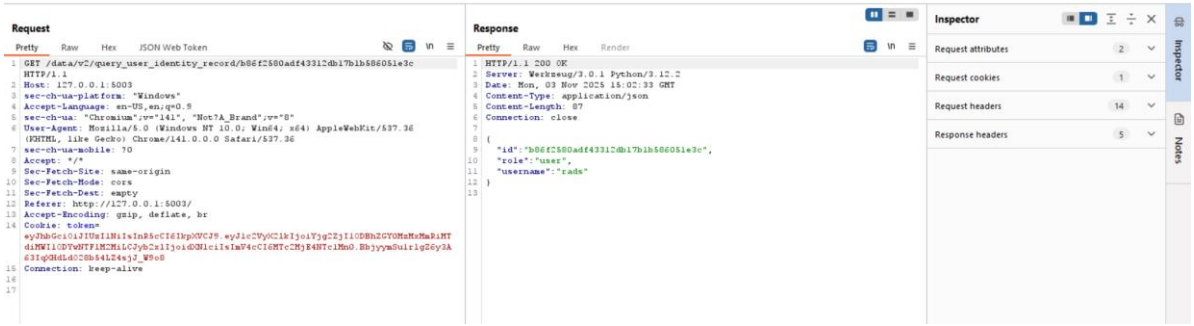
- Browse the dashboard and *intercept requests* using a proxy tool (e.g., Burp Suite).
- Visit your *profile or account info page* to see your user data, including an id, role, and username.
- Observe that user IDs appear to be **hashed (MD5 format)**.





3. Identify the Hash Mechanism

- By comparing the test data, recognize that the id field uses **MD5 hashes**.
- admin in MD5 is 21232f297a57a5a743894a0e4a801fc3.



4. Extract the Required Admin Details

- The details shown for admin might resemble:

{

"id": "21232f297a57a5a743894a0e4a801fc3",

"role": "captainoftheship",

"username": "admin"

}

5. Exploit: Register as Admin Using a Custom Request

- Use your proxy/interceptor to **modify the registration request**.
- In the POST request to the registration API (e.g., /register), add or override the parameters:

"id": "21232f297a57a5a743894a0e4a801fc3",

"role": "captainoftheship"

- Fill the rest of the registration as normal (choose any username/password).

6. Access the Flag

- After registering, **login** as the new user with the elevated role.
- Go to the flag page:

http://127.0.0.1:5003/flag

- With role: captainoftheship and correct or spoofed admin hash, you will successfully access the flag.
  FLAG{API_0bfu5c4t10n_D03snt_St0p_M3}