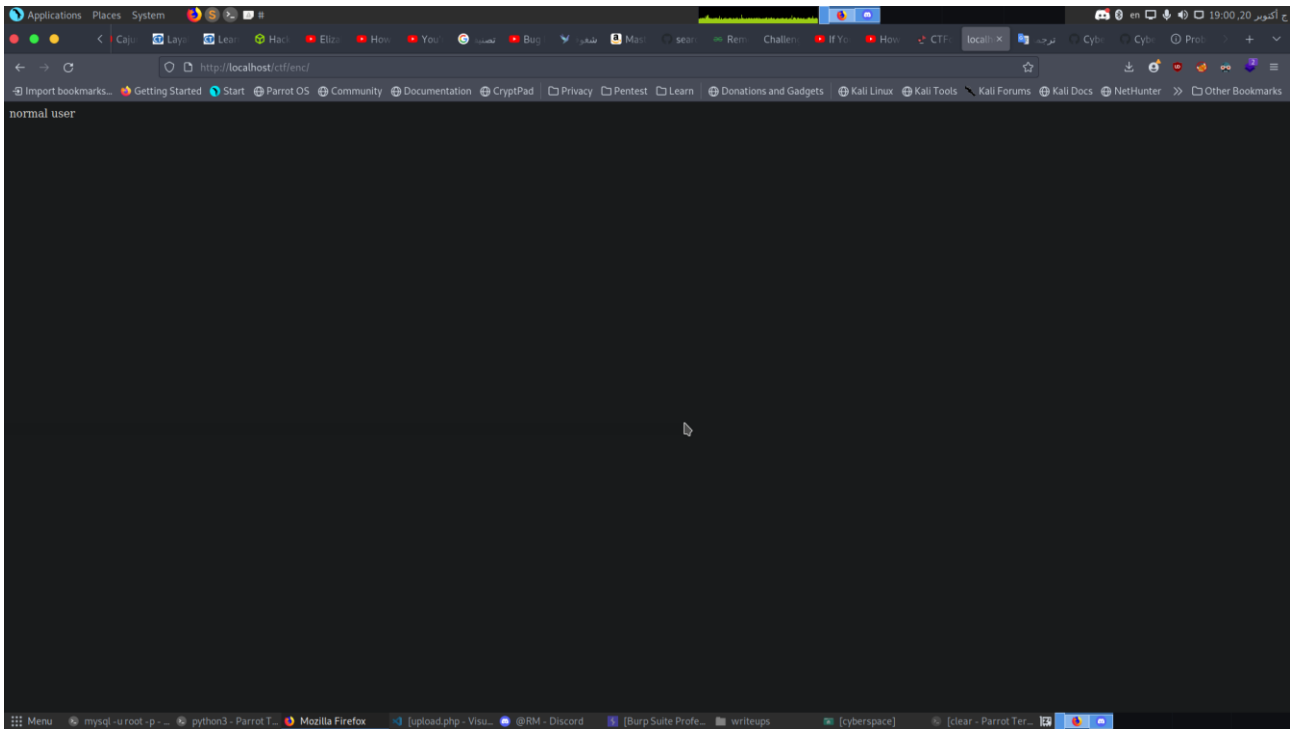




enc challenge | medium

Reported By:
AZZAM AL DUYULI

Reported To:
Academy of learning



when I start this challenge I didn't see anything in the page only one message told me "normal user" but I see in the cookies cookie called id and it has base64 encode value and when I decode it I see jwt token like this

that base64 encode →

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJpZCI6IjEiLCJpYXQiOiE1MTYyMzkwMjJ9.1EUw90A2xwL40wJOIE5gNDBCLdDDMG3JkW5f5ChoYKI

and that is decode → {"alg":"HS256","typ":"JWT"} {"id":"1","iat":[1516239022](#)}E0@6##NN`40B-0man_(h`

we can split jwt token to 3 part

first part → eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9

second part → eyJpZCI6IjEiLCJpYXQiOiE1MTYyMzkwMjJ9

third part → 1EUw90A2xwL40wJOIE5gNDBCLdDDMG3JkW5f5ChoYKI

first part has data for the type of encryption

second part has the data that website use it

third part has the encryption value so if the user edit the data this part has to change

I decode each part and in second part I see parameter called id and its value is 1 so

I try to change this value each time and encode it in burp suite



```
>>> for i in range(10000):
...     a = '{"id":"' + str(i) + '","iat":1516239022}'
...     print(a)
```

The screenshot shows the Burp Suite Professional interface. At the top, there's a menu bar with options like Dashboard, Target, Proxy, Intruder, Repeater, Sequencer, Decoder, Comparer, Logger, Extender, Project options, User options, and Learn. Below the menu is a toolbar with icons for various actions. The main window is divided into several panes. On the left, there's a sidebar with tabs for Positions, Payloads, Resource Pool, and Options. The central pane is titled 'Choose an attack type' and has a dropdown menu set to 'Sniper'. To the right of this dropdown is a 'Start attack' button. Below the attack type selection, there's a section for 'Payload Positions' with a checkbox labeled 'Update Host header to match target'. The main area displays a list of HTTP request details, including GET /ctf/enc/, Host: localhost, User-Agent: Mozilla/5.0 (Windows NT 10.0; rv:102.0) Gecko/20100101 Firefox/102.0, Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.5, Accept-Language: en-US,en;q=0.5, Accept-Encoding: gzip, deflate, DNT: 1, Connection: close, Cookie: id=eYJhpGcI0jIUzI1NlIsR5cCt6IkPXCv39, \$eyJpZCI6IjEILCJpYXQ0IjEIMTYyMzkxJ96, 1EUw90A2xlL40wJ0IE5gNDCLdDdMG3JkKw5f5ChoYKI, adminer_permanent=: adminer_sid=20d210J5ul18lnH8U96qtBdk4; adminer_key=a8a3f48017b583d7f8552a24a1dc062; sessionId=07ddadbc3cb674cf5701ea55af35061ac203c5, Upgrade-Insecure-Requests: 1, Sec-Fetch-Dest: document, Sec-Fetch-Mode: navigate, Sec-Fetch-Site: none, Sec-Fetch-User: ?1. On the far right, there are buttons for 'Add S', 'Clear S', 'Auto S', and 'Refresh'. At the bottom, there's a search bar and a status bar indicating '1 payload position' and 'Length: 726'.

Then I put the list in intruder then in the Payload processing I click on add then encode then base64 encode to do encode to each payload then I started attack and in the request 1500 the length for request is changed and when I see his response I see the flag

