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A Happy pwner

OSCTF 2024 web writeup

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2 min read

Introspection

Web

Welcome to the Secret Agents Portal. Find the flag hidden in the secrets of the Universe!!!

Author: @5h1kh4r

```
Web Instance: http://34.16.207.52:5134
```

we are presented with a page with a box to check if the flag is right or not.

if we view the page source we will find a javascript file “script.js”.

```html
<!DOCTYPE html>
<html lang="en">
<head>
    <meta charset="UTF-8">
    <meta name="viewport" content="width=device-width, initial-scale=1.0">
    <title>Web CTF Challenge</title>
    <link rel="stylesheet" href="styles.css">
</head>
<body>
    <div class="container">
        <h1>Welcome to the Secret Agents portal</h1>
        <p>Find the hidden flag in the secrets of the Universe</p>
        <input type="text" id="flagInput" placeholder="Enter flag here">
        <button onclick="checkFlag()">Submit</button>
        <p id="result"></p>
    </div>
    <script src="script.js"></script>
</body>
</html>

```

we open it and we get the flag!!!!

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```
function checkFlag() {
    const flagInput = document.getElementById('flagInput').value;
    const result = document.getElementById('result');
    const flag = "OSCTF{Cr4zY_In5P3c71On}";

    if (flagInput === flag) {
        result.textContent = "Congratulations! You found the flag!";
        result.style.color = "green";
    } else {
        result.textContent = "Incorrect flag. Try again.";
        result.style.color = "red";
    }
}
```

Flag: `OSCTF{Cr4zY_In5P3c71On}`

Style Query Listing...?

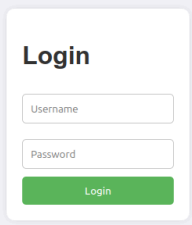
Web

pfft.. Listen, I've gained access to this login portal but I'm not able to log in. The admins are surely hiding something from the public, but… I don't understand what. Here take the link and be quiet, don't share it with anyone

Author: @5h1kh4r

```
Web instance: http://34.16.207.52:3635/
```

we are presented with a login page, if you try to login with default credentials nothing will work, so as the name suggests its SQL injection.



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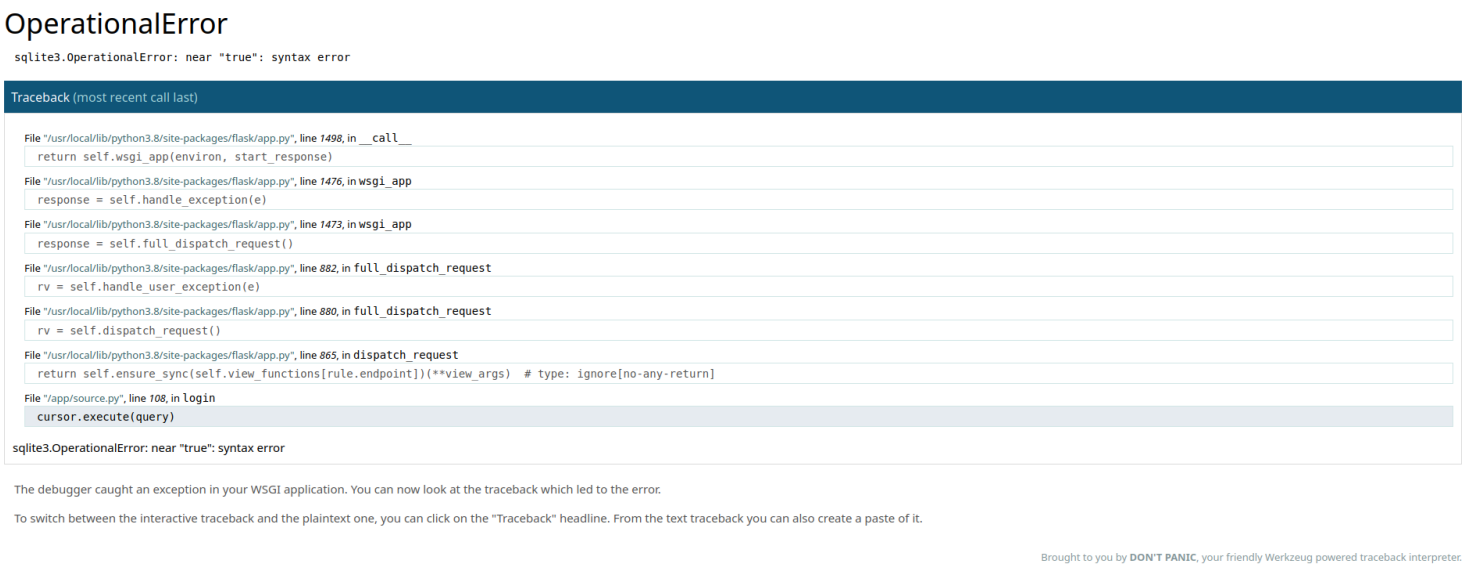
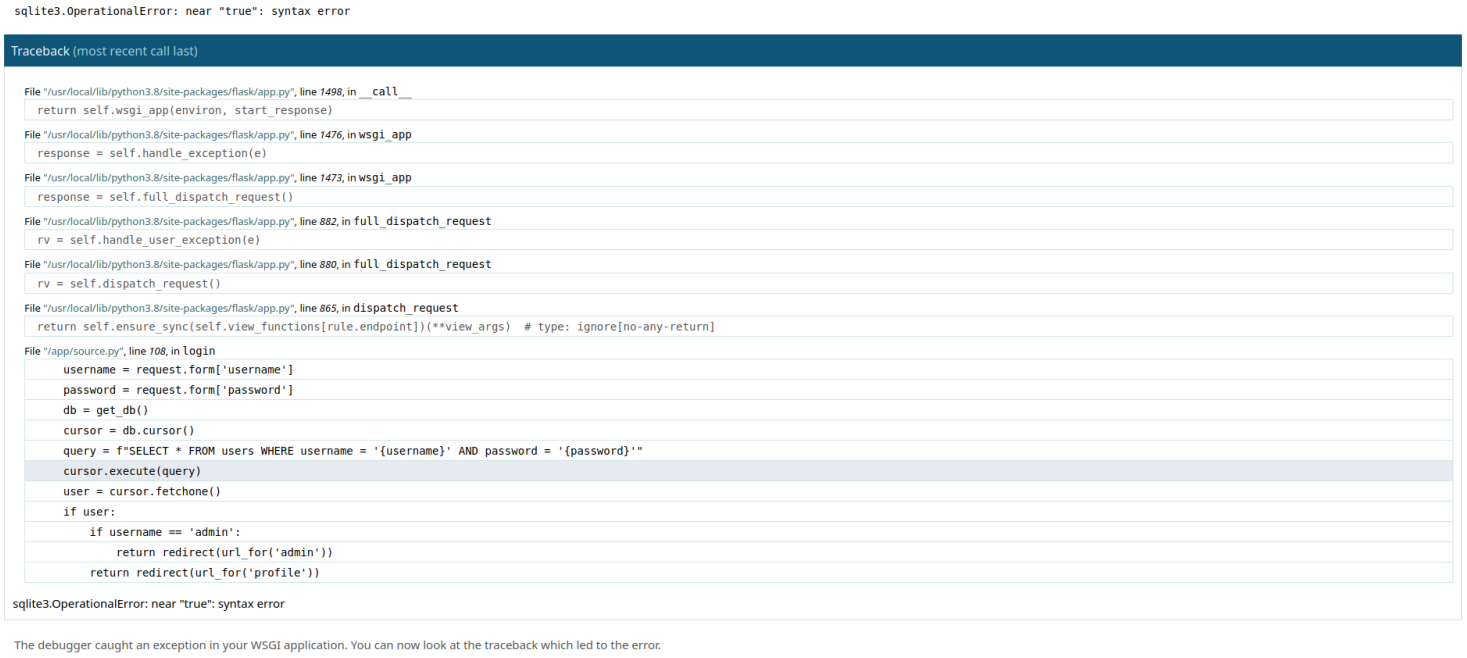
the first payload i tried is `admin' or true-- -`



and we get an exception from the Werkzug server, the good thing about these messages is that it shows 5 lines above and bottom of the line that got the error.

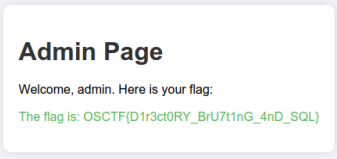


Python

```python
if username == 'admin':
        return redirect(url_for('admin'))
```

so if the user is admin in the input it will redirect the user to the admin page, which is /admin.

if we go to `http://34.16.207.52:3635/admin` we will find the flag!!!



Flag: `OSCTF{D1r3ct0RY_BrU7t1nG_4nD_SQL}`

Indoor WebApp

Web

The production of this application has been completely indoor so that no corona virus spreads, but that's an old talk right?

Author: @5h1kh4r

```
Web Instance: http://34.16.207.52:2546
```

We see the Vulnerability name in the main page, with a button to view a profile.

the button will take us to `http://34.16.207.52:2546/profile?user_id=1` we see a username and an email. but in the link the query parameter `?user_id=1` indicates that we can change the number to view other profiles, for sanity check i like to try 2.

and we got the flag!!!

Flag: `OSCTF{1nd00r_M4dE_n0_5enS3}`

Action Notes

Web

I have created this notes taking app so that I don't forget what I've studied

Author: @5h1kh4r

```
Web Instance: http://34.16.207.52:8965
```

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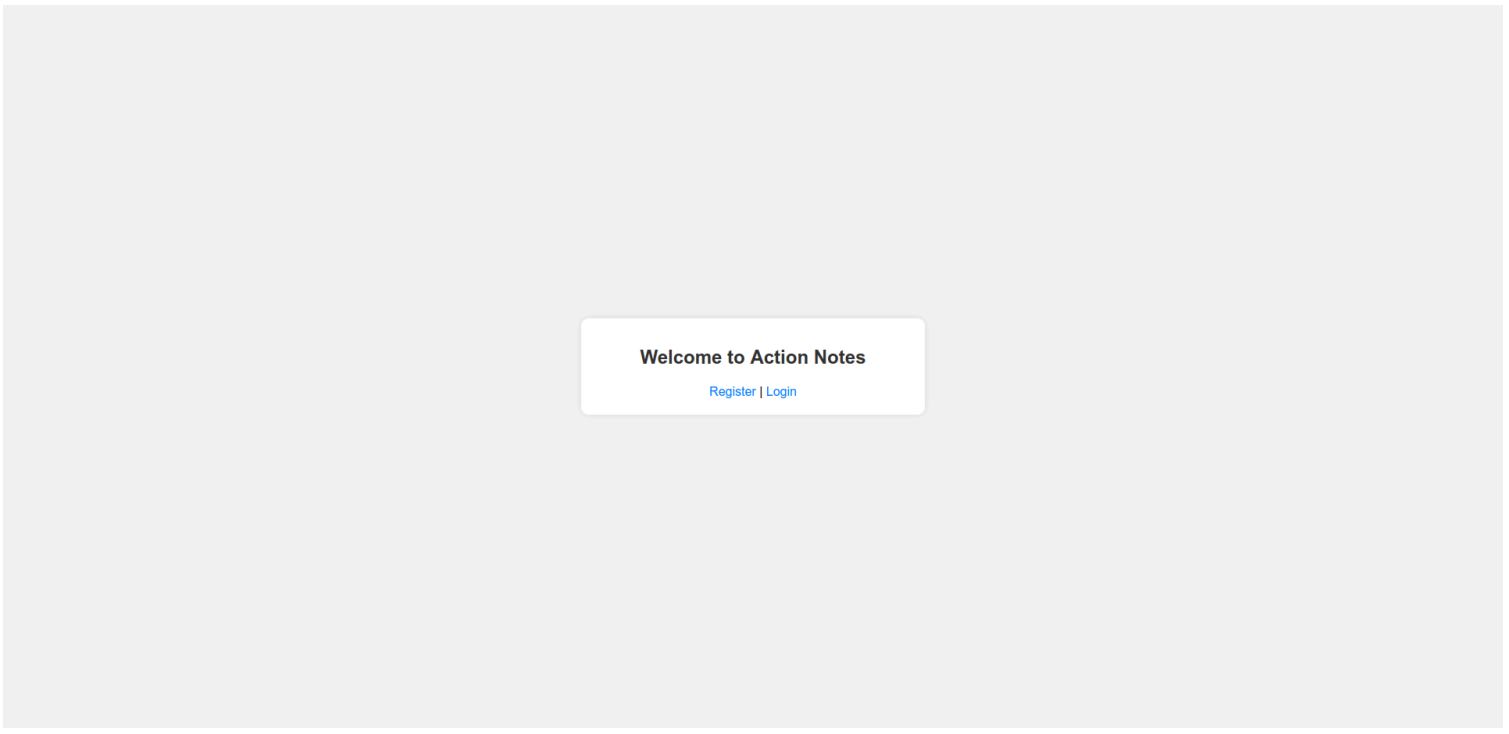
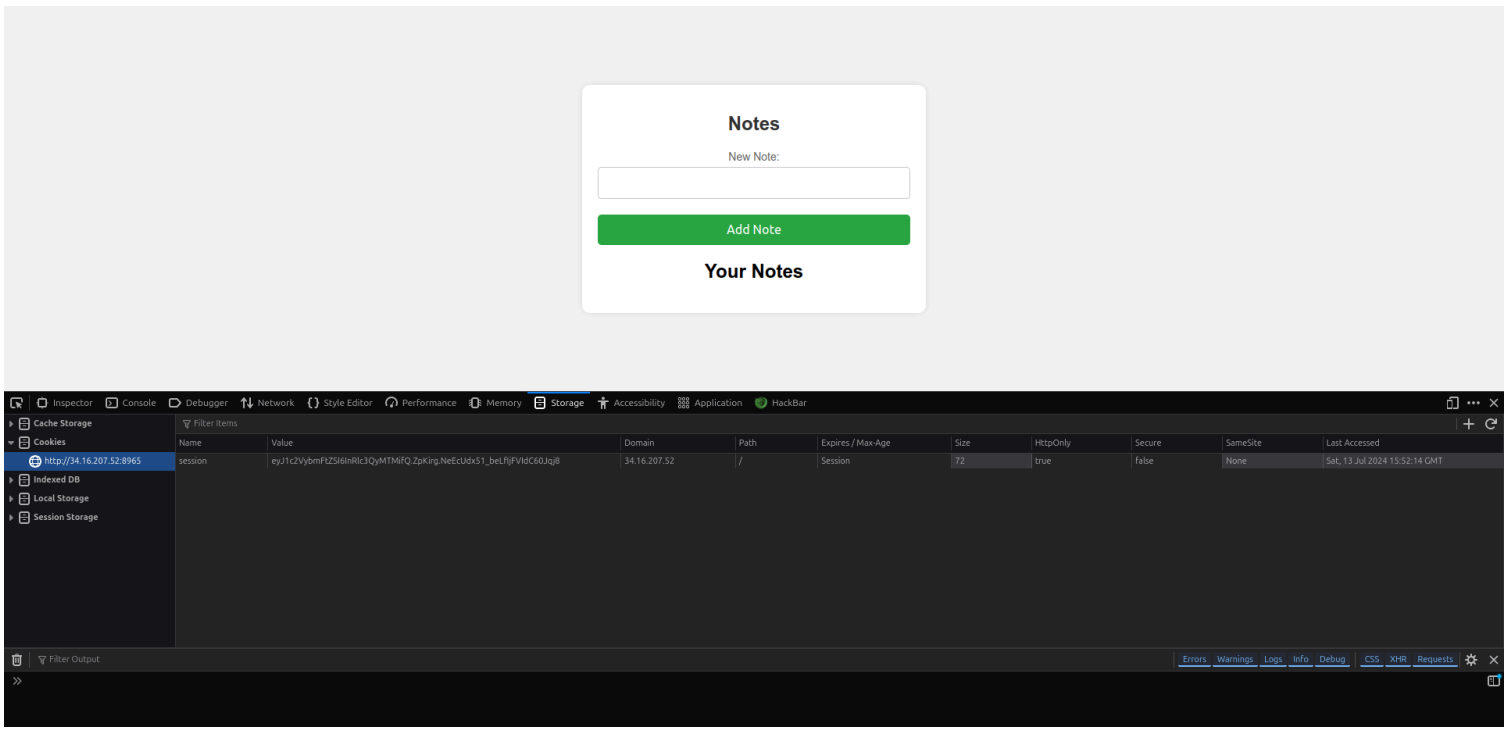
In the main page we can either login or register, so i register an account and login with it.



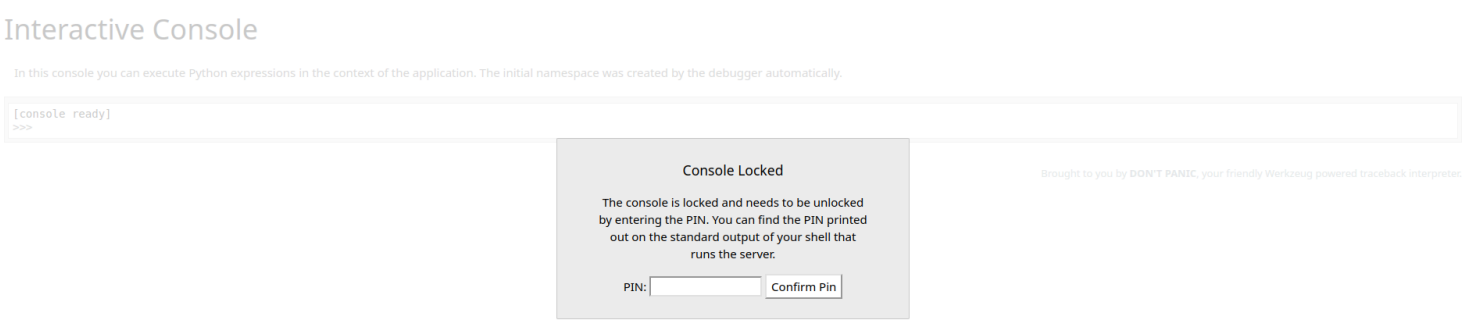
We can add notes to our profile, but i first looked to the cookies.



`session:eyJ1c2VybmFtZSI6InRlc3QyMTMifQ.ZpKirg.NeEcUdx51_beLfIjFVIdC60Jqj8`

the session cookie looks like a JWT but if you try to decode it with jwt.io you will get an error.

but we know this is a flask server because if you go to /console you will get:



in HackTricks we can see there is a tool called `flask-unsign` , if we put the cookie in it and try to decode it we will get:

```shell
flask-unsign --decode --cookie "eyJ1c2VybmFtZSI6InRlc3QyMTMifQ.ZpKirg.NeEcUdx51_beLfIjFVIdC60
```

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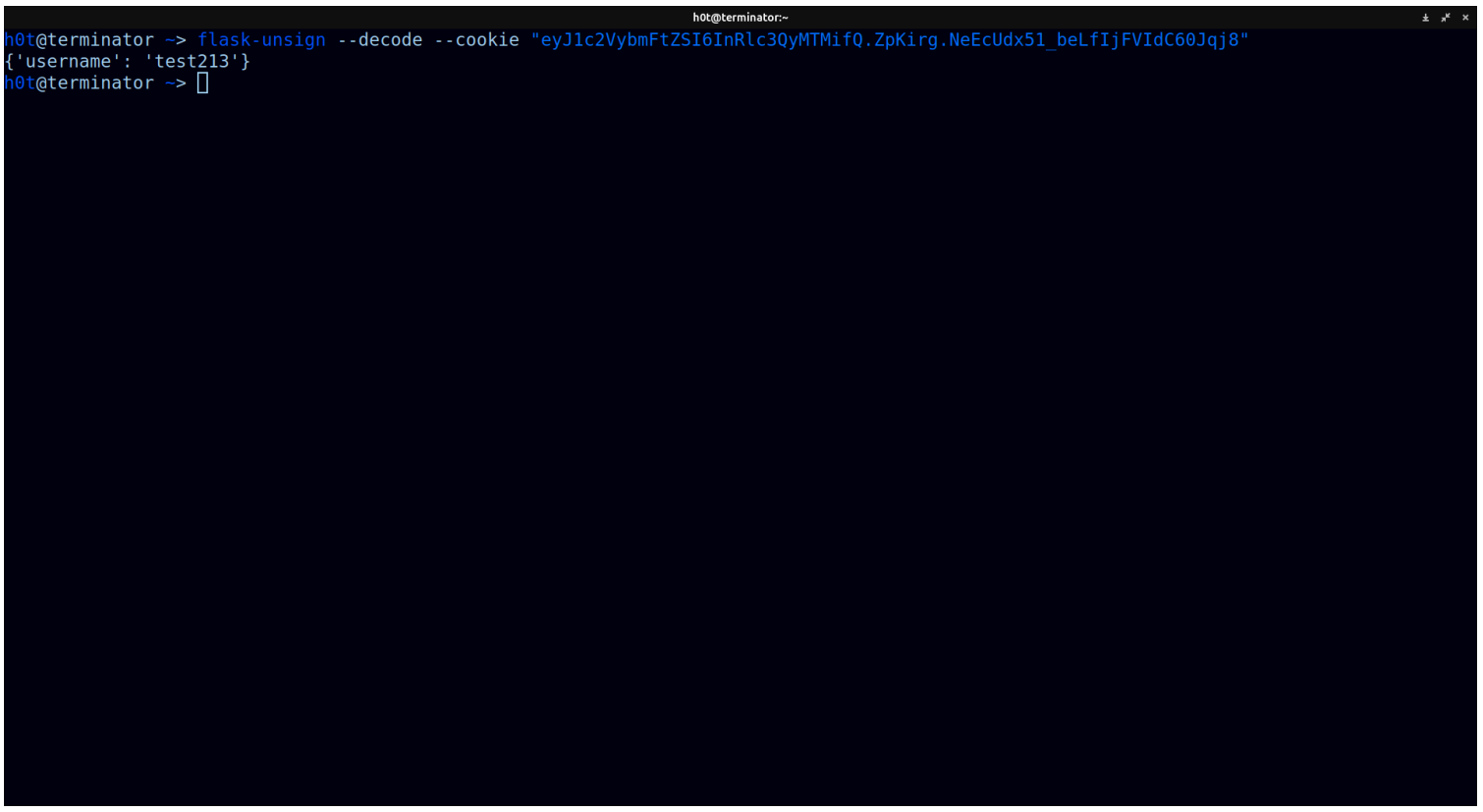
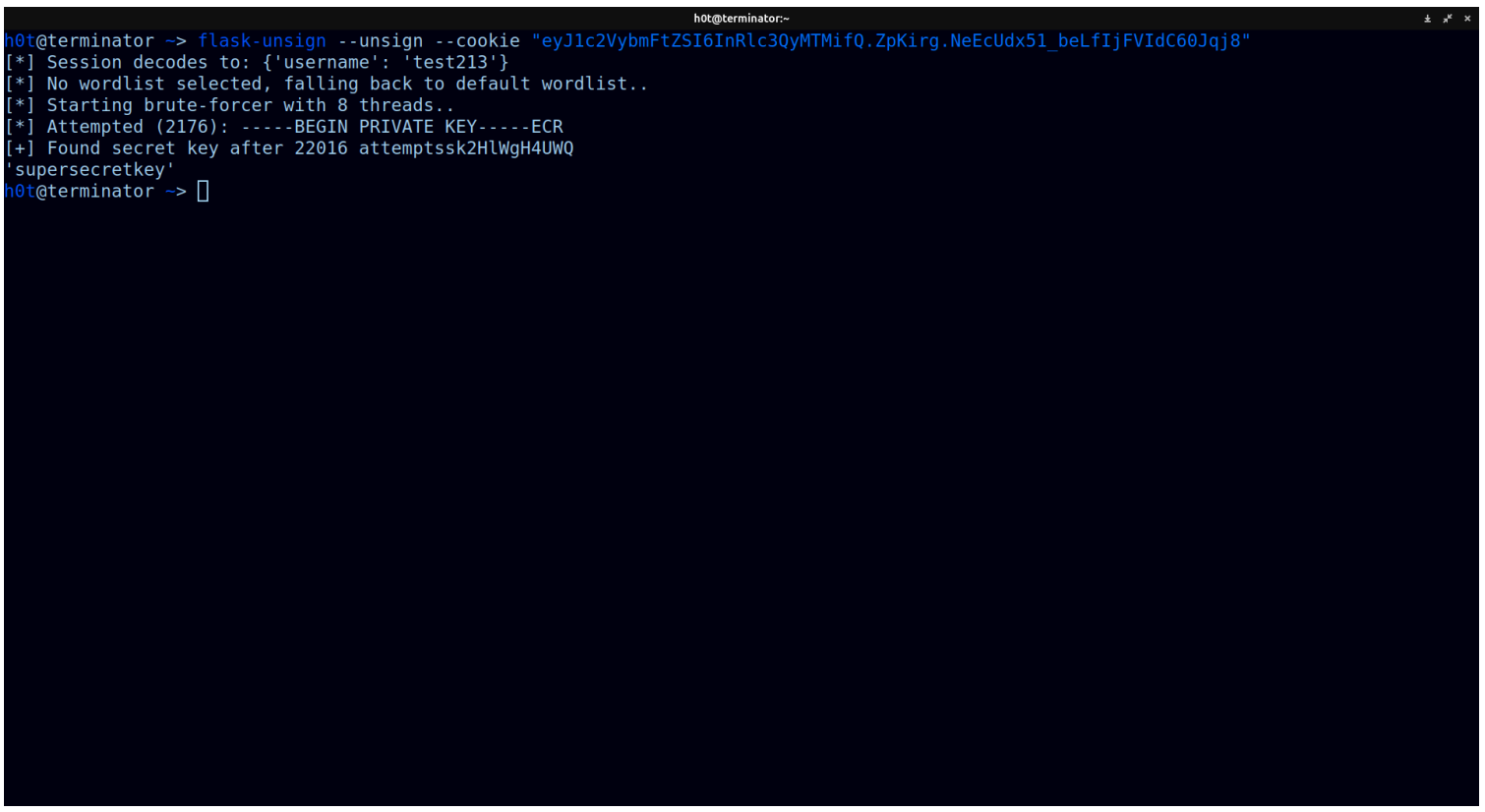


using the tool we can try to crack the secret code using the same tool with this command:

```shell
flask-unsign --unsign --cookie "eyJ1c2VybmFtZSI6InRlc3QyMTMifQ.ZpKirg.NeEcUdx51_beLfIjFVIdC60
```

and we got the secret key!!!



Secret Key: `supersecretkey`

so know we can sign our own cookies and change the username to admin.

```shell
flask-unsign --sign --cookie "{'username': 'admin'}" --secret 'supersecretkey'
```

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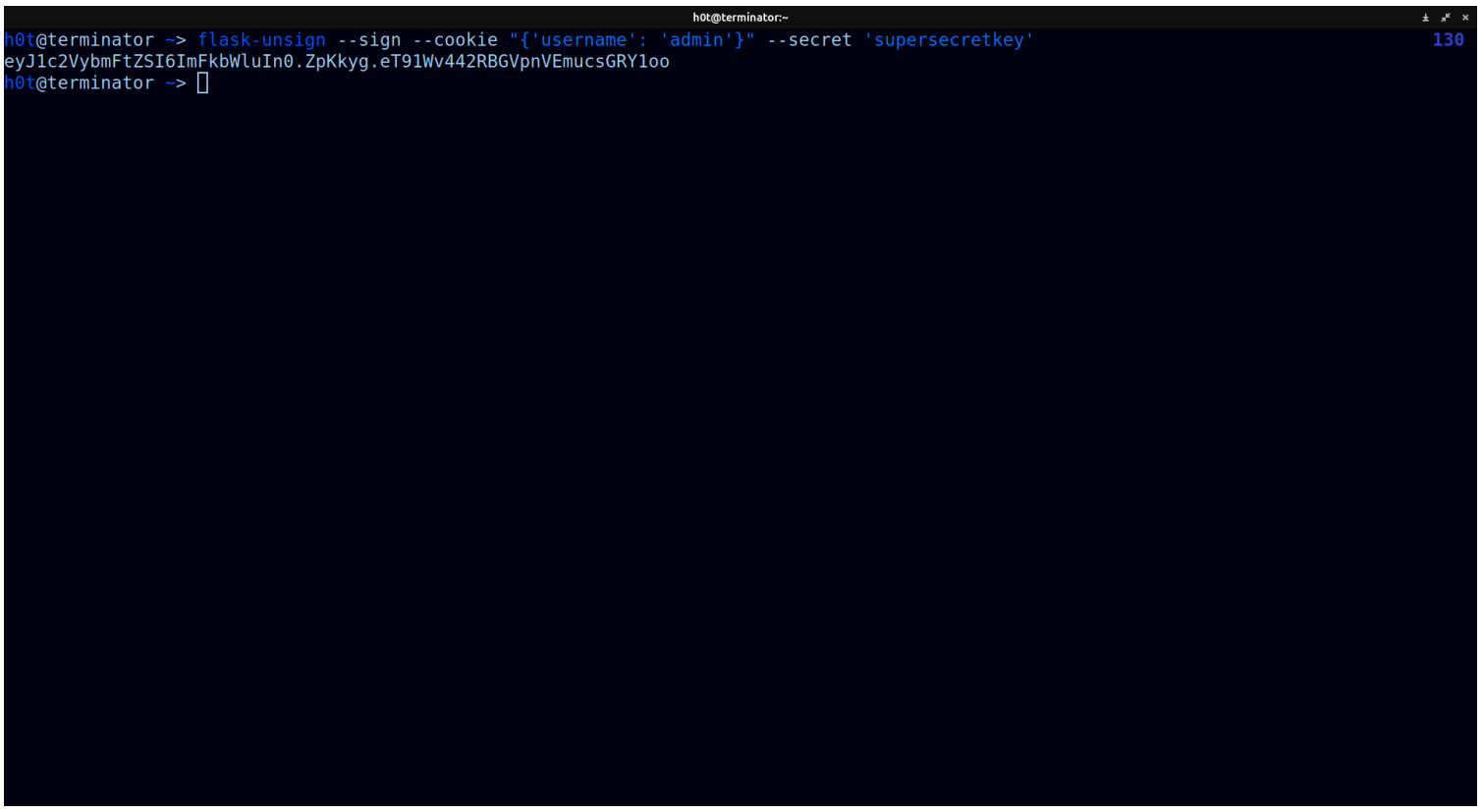
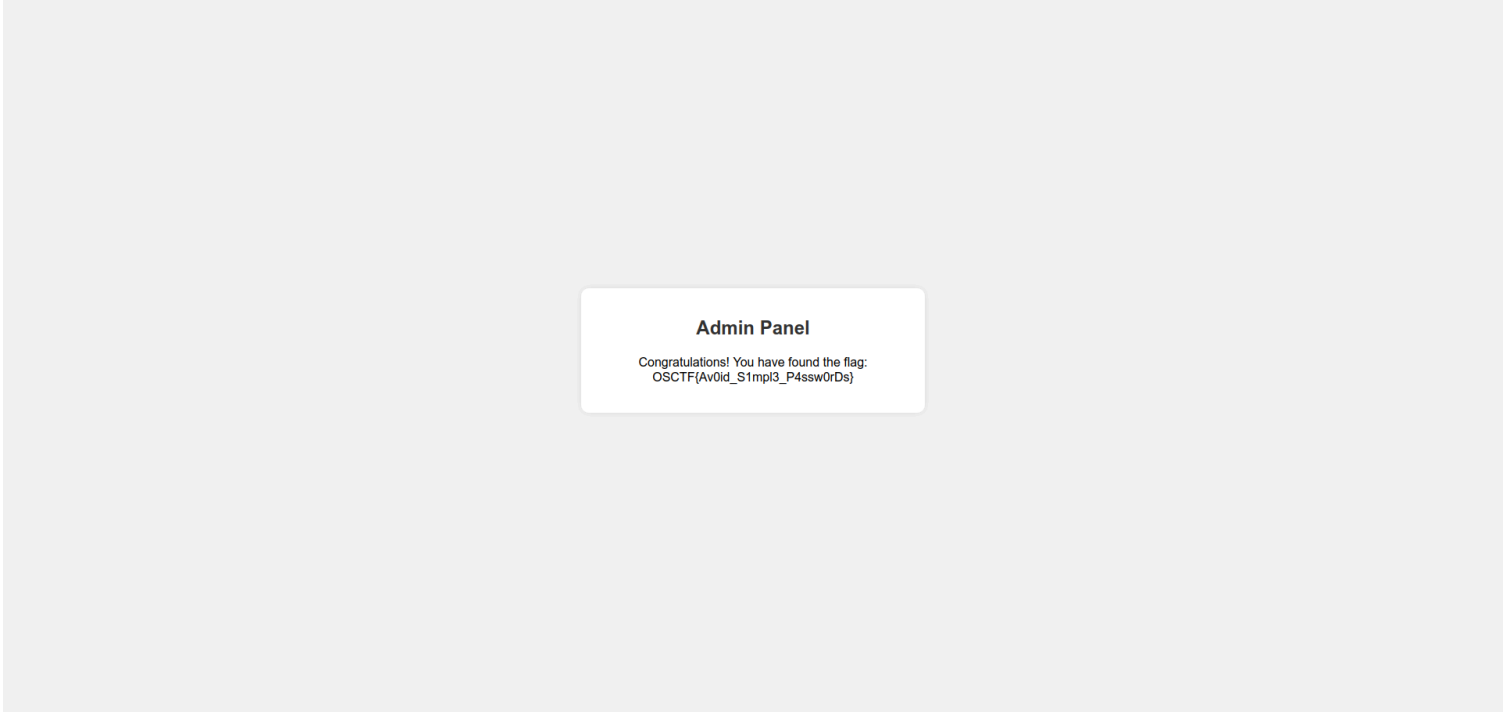


and we got our new cookie, if we change it with the new one in our browser, we will see some players trolling, but if we go to /admin we will find the flag.



We got the flag!!!

Flag: `OSCTF{Av0id_S1mpl3_P4ssw0rDs}`

writeups

ctf web flask

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Further Reading

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TuxCTF 2024

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Feb 28, 2024

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TryHackMe Chocolate Factory WriteUp Hello and Welcome to my first writeup! Reconnaissance and…

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