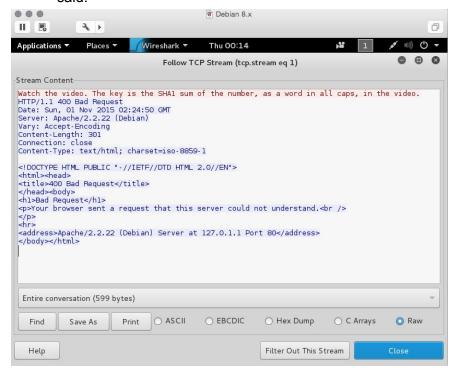
#### Capture the Flag Write Up

Assignment 3 - 11/5/15

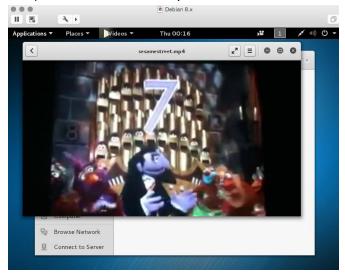
Margaret Feltz, Susie Church, Mathurshan Vimalesvaran, Nik Telkedzhiev (ntelke01) 600 pts

# Analyze the binary (200):

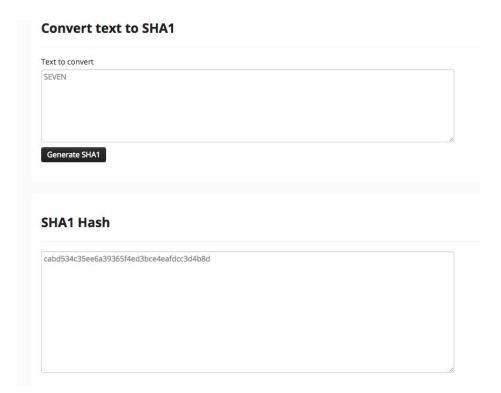
- 1) We clicked on runme.exe and nothing executed, so we ran *file runme.exe* in the terminal and found that it was a topdump capture file.
- 2) Opened the file in Wireshark and filtered using "top contains key".
- 3) Found 2 packets: one which contained the instructions found by following the TCP stream and one that was the video file that we exported. The first packet instructions said:



4) We extracted the mp4 file from the stream.



5) Put the string "SEVEN" into a SHA1 hash generator and found the flag was the generated hash. (www.timestampgenerator.com/tools/sha1-generator/)



# **Unnecessary Service (100):**

- 1) Ran nmap -sS 67.23.79.113 to see what ports were open.
- 2) Looked for unnecessary services on open ports, found FTP on port 21.
- 3) FTPed to the server ip.
- 4) Got the key as a response.

```
File Edit View Search Terminal Help

crackedpasswords Downloads Pictures Templates
hydra.restore Public Untitled Folder
root@kali:~# nmap -sS 67.23.79.113

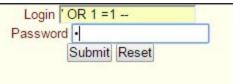
Starting Nmap 6.49BETA4 ( https://nmap.org ) at 2015-11-09 19:40 EST
Nmap scan report for www.pupcast.com (67.23.79.113)
Host is up (0.063s latency).
Not shown: 993 closed ports
PORT STATE SERVICE
21/tcp open ftp
22/tcp open ssh
80/tcp open http
135/tcp filtered metbios-ssn
2222/tcp open gtherNetIP-1
3306/tcp open mysql
Nmap done: 1 IP address (1 host up) scanned in 54.72 seconds
root@kali:~# ftp 67.23.79.113
bash: ft: command not found
root@kali:~# ftp 67.23.79.113
Connected to 67.23.79.113.
220 key{3ade9451b891078b05616e2a3a9754ce33ff3a6e}
Name (67.23.79.113:root):
```

### **Login SQL Injection (200 points)**

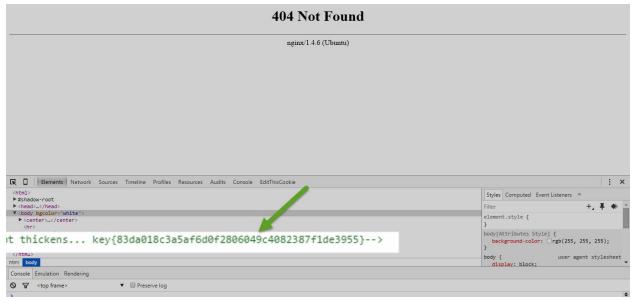
- 1) Went to 67.23.79.113/ctf/board.php with JS disabled
- 2) Navigated to bottom of page and clicked "Administration" link
- 3) Arrived at <a href="http://67.23.79.113/ctf/admin.php">http://67.23.79.113/ctf/admin.php</a> (as seen below)



4) Injected SQL to bypass login with any password (as seen below)



5) Successful login took us to <a href="http://67.23.79.113/ctf/main.php">http://67.23.79.113/ctf/main.php</a> with flag in HTML source as a comment (as seen below)



## Logout.php (100):

Navigated to <a href="http://67.23.79.113/ctf/logout.php">http://67.23.79.113/ctf/logout.php</a> after successfully logging into main.php to cover your tracks. Logout success message was displayed on page (as seen below)

You have successfully logged out of the system.

Return to login

2. Flag was at bottom of page (as seen below)

key{1299dc608a808e8c4d0c3394e39b0d93ff5d6acb}