

# Network Protocols for Security - HTTP

## - Command Cheat Sheet

### Linux Reference

`cut` command options:

Flag	Description
-f	Specifies the field (column)
-d	Specifies the delimiter

"Sort Sandwich":

- `sort | uniq -c | sort -n`

### Apache access.log Filtering

Filter for a specific HTTP method:

- `cat ~/access.log | grep "OPTIONS"`

Filter and sort HTTP methods:

- `cat access.log | cut -f 6 -d " " | sort | uniq -c | sort -n`
- Field 6 = Method
- Field 7 = Resource
- Field 9 = Status Code

Filter and extract relevant fields to find out what data is being sent (POST) to the server:

- `cat ~/access.log | cut -f 1,6,7,9 -d " " | sort | uniq -c | sort -n | grep "POST"`

# Wireshark

Capture filter for specific ports:

- `port 80 or port 8000 or port 8080`

Display filter for HTTP User Agents:

`http.user_agent`

Add a field as a column:

- `Right Click a field -> Apply as Column`

Follow HTTP Stream:

- `Right Click a packet -> Follow -> HTTP Stream`

# Python Simple Server

Start a web server hosted on port 443 (will host any files in the current directory):

- `sudo python3 -m http.server 443`

Download a file using curl:

- `curl http://172.31.24.10:443/payload.txt -o payload.txt`