

## TShark Cheat Sheet v1.4

### Key Points:

- “-t ad” will show absolute time. Default is “-t r”, time relative to start of file.
- “-T fields” must precede the usage of “-e” when displaying columns, and must include “-R” or “-Y” (depending on version)
- “tshark -h” will show a condensed version of the Manual page, and entering blank flags should produce a list of options

### View Number of Available Streams:

tshark -r (file) -T fields -e tcp.stream | sort -nu (mind that the **stream index starts at zero**)

### Follow a TCP stream:

tshark -r (file) -qz follow,tcp,ascii,# (replace # with desired stream index number)

### Follow TCP streams where IP1:Port1 talk to IP2:Port2:

tshark -r (file) -qz follow,tcp,ascii,IP1:PORT1,IP2:PORT2

### View Frame Summaries:

tshark -r (file) -nSR (**display filter**) (display filters what you want to see, i.e. “-R ‘http && ip.src=1.2.3.4’”)

### View Verbose Frame Information:

tshark -r (file) -nVR (**display filter**)

### Decode As...:

tshark -r (file) -d layerType==specifiedValue,desiredProtocol (i.e. “-d tcp.port==8888,http” will decode TCP 8888 traffic as http)

### Display Column Data in Desired Format:

tshark -r (file) -T fields -e (COLUMN) -e (COLUMN) -R (**display filter**) (“-e” can be used once or many times)

### View Packet Bytes:

tshark -r (file) -O dns,http (note -O is the filter that invokes Bytes view and is a comma-separated list of services to view)

### Export Specific Information to File:

tshark -r (**INFILE**) -R (**display filter**) -w (**OUTFILE**) -F (**FORMAT**) (give -F no arguments and it will present a list of options)

### Statistics Usage:

tshark -r (file) -qz http,stat, (the last comma needs to be there)

tshark -r (file) -qz http,tree

tshark -r (file) -qz http\_req,tree

tshark -r (file) -qz http\_srv,tree

tshark -r (file) -qz conv,tcp,[filter] (can omit filter / displays conversations in a file by transport/filter)

tshark -r (file) -qz expert,[error/warn/note/chat][filter] (can omit bracketed items to display all expert warning levels)

tshark -r (file) -qz io,phs,[filter] (can omit filter / protocol hierarchy, i.e. “io,phs” or “io,phs,tcp.stream==1”)

### Examples:

tshark -r Bad.pcap -qz follow,tcp,ascii,2 (will show stream 2 of a PCAP file)

tshark -r Bad.pcap -T fields -e tcp.stream -e http.request.method -e http.host -R http.request (prints specified columns)

tshark -r Bad.pcap -R dns -w BadDNS.pcap -F pcapng (copies all DNS to a new PCAP file)

### Commonly-Used Display Filters:

(note that ‘referrer’ is supposed to only have one ‘r’ due to a misspelling in the RFC)

Use “&&”, “||”, “==”, and/or “(filter) contains x” to form your arguments

http	http.request	http.response	http.host	udp.dstport
http.user_agent	http.request.method	http.response.code	dns	ip.dst
http.referrer	http.request.uri	http.response.phrase	rdp	tcp.flags.syn
http.content_type	http.request.full_uri	ftp-data	tcp.srcport	ssl.handshake.extensions_server_name