

Table of Contents X

- ① Wireshark Cheat Sheet
- Search
- ② Default Columns In a Packet Capture Output
- ③ Logical Operators
- ④ Filtering Packets (Display Filters)
- ⑤ Filter Types
- ⑥ Wireshark Capturing Modes

Wireshark Cheat Sheet: All the Commands, Filters & Syntax

May 10, 2024 • Nathan House

Level Up in Cyber Security:
Join Our Membership
Today!

[LEARN MORE](#)

Wireshark Cheat Sheet

WIRESHARK

Wireshark is arguably the most popular and powerful tool you can use to capture, analyze and troubleshoot network traffic. The only downside you will face when using a tool as verbose as Wireshark is memorizing all of the commands, flags, filters, and syntax. That's where we come in.

Whether you are a network administrator, a security professional, or just someone curious about how networks work, learning to use Wireshark is a valuable skill. This Wireshark cheat sheet will provide a solid foundation and reference for using Wireshark to monitor and analyze your network traffic.

Download a pdf copy for your records [here](#), and scroll below to find a list of the **common commands in Wireshark**.

Table of Contents
X

- ① Wireshark Cheat Sheet Search
- ② Default Columns In a Packet Capture Output
- ③ Logical Operators
- ④ Filtering Packets (Display Filters)
- ⑤ Filter Types
- ⑥ Wireshark Capturing Modes

Sheet Search

It sheet to find the right cheat for the term you're looking in the search bar and you'll receive the matching cheats



Packet Capture Output

ION

Level Up in Cyber Security:
Join Our Membership
Today!

[LEARN MORE](#)

Number from the beginning of the packet capture

from the first frame

Address, commonly an IPv4, IPv6 or Ethernet address

Destination (dst) Destination address

Protocol Protocol used in the Ethernet frame, IP packet, or TC segment

Length Length of the frame in bytes

Logical Operators

OPERATOR	DESCRIPTION	EXAMPLE
and or &&	Logical AND	All the conditions should match
or or	Logical OR	Either all or one of the conditions should match
xor or ^^	Logical XOR	Exclusive alterations - only one of the two conditions should match not both

OPERATOR	DESCRIPTION	EXAMPLE
ne or !=	Not equal	ip.dest != 192.168.1.1
Search	Filter a specific word or text	
Default Columns In a Packet Capture Output		
Logical Operators		
Filtering Packets (Display Filters)		
Filter Types		
Wireshark Capturing Modes		

**Level Up in Cyber Security:
Join Our Membership Today!**

[LEARN MORE](#)

Download the PDF Version of This Wireshark Cheat Sheet!

Want to keep this cheat sheet at your fingertips? Just enter your email address, and we'll send a PDF copy to your inbox.

[DOWNLOAD →](#)

Filtering Packets (Display Filters)

OPERATOR	DESCRIPTION	EXAMPLE
eq or ==	Equal	ip.dest == 192.168.1.1
ne or !=	Not equal	ip.dest != 192.168.1.1
gt or >	Greater than	frame.len > 10
lt or <	less than	frame.len < 10
ge or >=	Greater than or equal	frame.len >= 10
le or <=	Less than or equal	frame.len <= 10

Filter Types

NAME	DESCRIPTION
☰ Table of Contents X	Capture packets during capture
🔍 Wireshark Cheat Sheet Search	Search packets from a capture display
🕒 Default Columns In a Packet Capture Output	
🌐 Logical Operators	
🌐 Filtering Packets (Display Filters)	Allow to capture all packets on a network segment to which it is connected
🌐 Filter Types	
🌐 Wireshark Capturing Modes	Allow to use a wireless interface to capture all traffic it can receive (Unix/ Linux)

**Level Up in Cyber Security:
Join Our Membership
Today!**

[LEARN MORE](#)

CTRL+E

DESCRIPTION

[...] - Range of values

{ } - In

Start/Stop Capturing

Capture Filter Syntax

SYNTAX	PROTOCOL	DIRECTION	HOSTS	VALUE	LOGICAL OPERATOR	EXPRESSIONS
Example	tcp	src	192.168.1.1	80	and	tcp dst 202.164.30.1

Display Filter Syntax

SYNTAX	PROTOCOL	STRING 1	STRING 2	COMPARISON OPERATOR	VALUE	LOGICAL OPERATOR	EXPRESSIONS
Example	http	dest	ip	==	192.168.1.1	and	tcp port

Keyboard Shortcuts - Main Display Window

Table of Contents X

- ① Wireshark Cheat Sheet
- Search
- ② Default Columns In a Packet Capture Output
- Logical Operators
- ③ Filtering Packets (Display Filters)
- Filter Types
- ④ Wireshark Capturing Modes

Level Up in Cyber Security:

Join Our Membership Today!

[LEARN MORE](#)

		ACCELERATOR	DESCRIPTION
	screen elements, toolbars to the selected packet detail.	Alt+→ or Option+→	Move to the next packet in the selection history.
	selected packet or detail	→	In the packet detail, opens the selected tree item.
	previous packet or	Shift+→	In the packet detail, opens the selected tree items and all of its subtrees.
	selected packet, even if it isn't focused.	Ctrl+→	In the packet detail, opens all tree items.
	previous packet, if the list isn't	Ctrl+←	In the packet detail, closes all the tree
Ctrl+.:	Move to the next packet of the conversation (TCP, UDP or IP).	Backspace	In the packet detail, jumps to the parent node.
Ctrl+,:	Move to the previous packet of the conversation (TCP, UDP or IP).	Return or Enter	In the packet detail, toggles the selected tree item.

Protocols - Values

ether, fddi, ip, arp, rarp, decnet, lat, sca, moprc, mopdl, tcp and udp

Common Filtering Commands

USAGE

FILTER SYNTAX

Wireshark Filter by IP

ip.add == 10.10.50.1

USAGE**1≡ Table of Contents X**

- ⑤ Wireshark Cheat Sheet Search
- ⑥ Default Columns In a Packet Capture Output
- ⑦ Logical Operators
- ⑧ Filtering Packets (Display Filters)
- ⑨ Filter Types
- ⑩ Wireshark Capturing Modes

Filter by destination port

**Level Up in Cyber Security:
Join Our Membership
Today!**

LEARN MORE**Wireshark Beacon Filter**

wlan.fc.type_subtype = 0x08

Wireshark broadcast filter

eth.dst == ff:ff:ff:ff:ff:ff

Wireshark multicast filter

(eth.dst[0] & 1)

Host name filter

ip.host = hostname

MAC address filter

eth.addr == 00:70:f4:23:18:c4

RST flag filter

tcp.flag.reset == 1

FILTER SYNTAX

ip.dest == 10.10.50.1

ip.src == 10.10.50.1

ip.addr >= 10.10.50.1 and ip.addr <=10.10.50.100

ip.addr == 10.10.50.1 and ip.addr == 10.10.50.100

! (ip.addr == 10.10.50.1)

ip.addr == 10.10.50.1/24

tcp.port == 25

tcp.dstport == 23

ip.addr == 10.10.50.1 and Tcp.port == 25

http.host == "host name"

frame.time >= "June 02, 2019 18:04:00"

Tcp.flags.syn == 1 and tcp.flags.ack ==0



**Download the PDF Version of
This Wireshark Cheat Sheet!**

Want to keep this cheat sheet at your fingertips? Just enter your email address, and

we'll send a PDF copy to your inbox.

Table of Contents X

- ① Wireshark Cheat Sheet Search
- ② Default Columns In a Packet Capture Output
- ③ Logical Operators
- ④ Filtering Packets (Display Filters)
- ⑤ Filter Types
- ⑥ Wireshark Capturing Modes

WHAT YOU NEED WIRESHARK TO DO

and Generator

of trying to remember the exact syntax for your command? With our Wireshark Command Generator, you can simply say what you want WIRESHARK to do, and we will generate the command for you.

**Level Up in Cyber Security:
Join Our Membership
Today!**

TOOLBAR ICON	TOOLBAR ITEM	MENU ITEM	DESCRIPTION
	Start	Capture → Start	Uses the same packet capturing options as the previous session, or uses defaults if no options were set
	Stop	Capture → Stop	Stops currently active capture
	Restart	Capture → Restart	Restart active capture session
	Options...	Capture → Options...	Opens "Capture Options" dialog box

TOOLBAR ICON	TOOLBAR ITEM	MENU ITEM	DESCRIPTION
	Table of Contents X		
	Wireshark Cheat Sheet	File → open...	Opens "File open" dialog box to load a capture for viewing
	Search		
	Default Columns In a Packet Capture Output	File → Save As...	Save current capture file
	Logical Operators		
	Filtering Packets (Display Filters)	File → Close	Close current capture file
	Filter Types		
	Wireshark Capturing Modes	▼ View → Reload	Reload current capture file
<hr/>			
Level Up in Cyber Security: Join Our Membership Today!			
LEARN MORE		Edit → Find Packet...	Find packet based on different criteria
<hr/>			
Go Forward		Go → Go back	Jump back in the packet history
<hr/>			
Go to Packet...		Go → Go to Packet...	Go to specific packet
<hr/>			
Go to First Packet		Go → Go to First Packet	Jump to first packet of the capture file
<hr/>			
Go to last Packet		Go → Go to last Packet	Jump to last packet of the capture file
<hr/>			
Auto Scroll in Live Capture		View → Auto Scroll in Live Capture	Auto scroll packet list during live capture

TOOLBAR ICON	TOOLBAR ITEM	MENU ITEM	DESCRIPTION
☰ Table of Contents X			
⌚ Wireshark Cheat Sheet Search		/iew → Colorize	Colorize the packet list (or not)
⌚ Default Columns In a Packet Capture Output		/iew → Zoom In	Zoom into the packet data (increase the font size)
⌚ Logical Operators		/iew → Zoom Out	Zoom out of the packet data (decrease the font size)
⌚ Filtering Packets (Display Filters)		/iew → Normal	Set zoom level back to 100%
⌚ Filter Types		Size	
⌚ Wireshark Capturing Modes		/iew → Resize Columns	Resize columns, so the content fits the width

Level Up in Cyber Security:
Join Our Membership Today!

[LEARN MORE](#)

Wireshark is a powerful tool for analyzing and troubleshooting network traffic. It provides a wealth of information that can help you identify issues, track down problems, and understand how your network is being used.

We hope that with the knowledge and techniques covered in this Wireshark cheat sheet, you should now be able to confidently capture, filter, and analyze packets with Wireshark. You can also learn to [Master Wireshark in Five Days](#) or [Start Using Wireshark to Hack Like a Pro](#) with our [StationX courses](#).

Frequently Asked Questions

(-) What is Wireshark and how do you use it?

Wireshark advertises itself as, “the world’s foremost and widely-used network protocol analyzer.” By running a capture, you can grab traffic on your network and see not only the origin and destination of the packets, but often important information contained within.

(+) Can Wireshark see texts?

⊕ What should I look for when using Wireshark?

1≡ Table of Contents X

- ① Wireshark Cheat Sheet
 - Search
- ② Default Columns In a Packet Capture Output
- ③ Logical Operators
- ④ Filtering Packets (Display Filters)
- ⑤ Filter Types
- ⑥ Wireshark Capturing Modes

ilters used by Wireshark?

nito?

with Wireshark?

ets in Wireshark?

h Wireshark?

earn Wireshark?

logs?

Level Up in Cyber Security:

Join Our Membership

Today!

LEARN MORE

Guarantee Your Cyber Security Career with the StationX Master's Program!

Get real work experience and a job guarantee in the StationX Master's Program. Dive into tailored training, mentorship, and community support that accelerates your career.

- **Job Guarantee & Real Work Experience:** Launch your cybersecurity career with guaranteed placement and hands-on experience within our Master's Program.

- **30,000+ Courses and Labs:** Hands-on, comprehensive training covering all areas of Wireshark usage to help you excel in any role in the field.

Table of Contents X

- Wireshark Cheat Sheet
- Search
- Default Columns In a Packet Capture Output
- Logical Operators
- Filtering Packets (Display Filters)
- Filter Types
- Wireshark Capturing Modes

Courses: Resources and exam simulations that help you prepare for certification.

Career Coaching: Personalized advice, resume help, and networking tips to boost your career.

Engage with a thriving community of peers and receive ongoing support.

For Real-World Skills: Courses and simulations based on real-world scenarios.

Join Our Networking: Join events and exclusive networking opportunities to expand your connections.

Level Up in Cyber Security: JOIN OUR MEMBERSHIP TODAY!

Join Our Membership Today!

MEMBER'S PROGRAM

[LEARN MORE](#)

Nathan House

Nathan House is the founder and CEO of StationX. He has over 25 years of experience in cyber security, where he has advised some of the largest companies in the world. Nathan is the author of the popular "The Complete Cyber Security Course", which has been taken by over half a million students in 195 countries. He is the winner of the AI "Cyber Security Educator of the Year 2020" award and finalist for Influencer of the year 2022.

Table of Contents X

- ① Wireshark Cheat Sheet
Search
- ② Default Columns In a
Packet Capture Output
- ③ Logical Operators
- ④ Filtering Packets (Display
Filters)
- ⑤ Filter Types
- ⑥ Wireshark Capturing
Modes

[Read More »](#)

**Level Up in Cyber Security:
Join Our Membership
Today!**

[LEARN MORE](#)

Related Articles

nlocking

**OWASP ZAP Tutorial: Complete
2025 Guide**

[Read More »](#)

**How to Prevent Tailgating
Attacks: The Five-Minute Guide**

[Read More »](#)

INFO

SECURIT
Y

CONSUL
TING

Legal Notices

Table of Contents

- ① Wireshark Cheat Sheet Search
- ② Default Columns In a Packet Capture Output
- ③ Logical Operators
- ④ Filtering Packets (Display Filters)
- ⑤ Filter Types
- ⑥ Wireshark Capturing Modes

ASSESS MENT

- Penetration Testing
- Vulnerability Scanning
- Build Reviews
- Source Code Review
- Social Engineering

- Audit & Compliance
- Incident Response
- Security Architecture
- Risk Assessment
- Security Training
- Pro Bono Services

**Level Up in Cyber Security:
Join Our Membership
Today!**

LEARN MORE

COPYRIGHT © 2025 STATIONX LTD. ALL RIGHTS RESERVED.

Nathan House

