



Setting Filters

Wireshark Filters

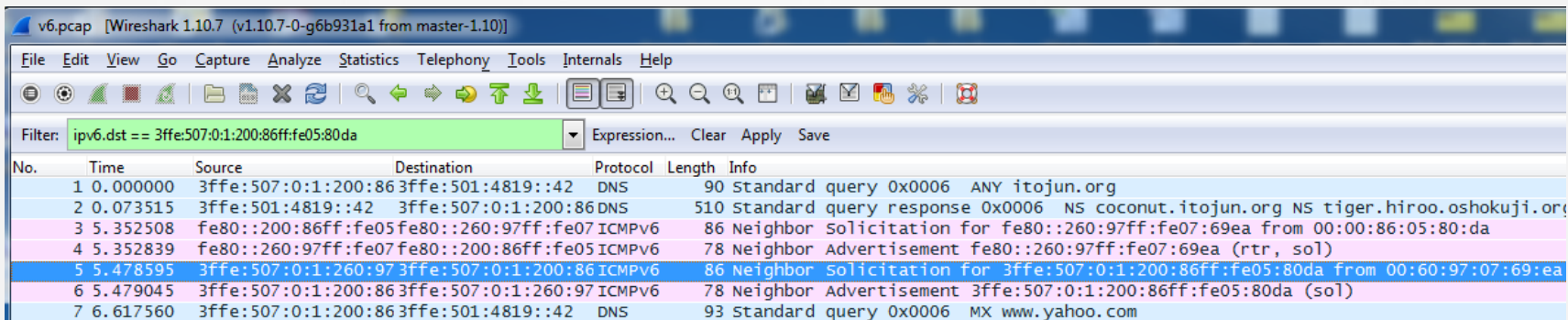
» What is a filter?

- Used to limit what appears in the Packets List pane

» Wireshark filters are used to

- Aid in troubleshooting efforts
- Refine the view
- Assist with collecting only what you need

Applying a Filter



The image shows the Wireshark network protocol analyzer interface. The title bar indicates the file is 'v6.pcap' and the version is 'Wireshark 1.10.7 (v1.10.7-0-g6b931a1 from master-1.10)'. The menu bar includes File, Edit, View, Go, Capture, Analyze, Statistics, Telephony, Tools, Internals, and Help. The toolbar contains various icons for file operations, navigation, and analysis. The filter field at the top shows the expression 'ipv6.dst == 3ffe:507:0:1:200:86ff:fe05:80da'. Below the filter, a list of captured packets is displayed with columns for No., Time, Source, Destination, Protocol, Length, and Info.

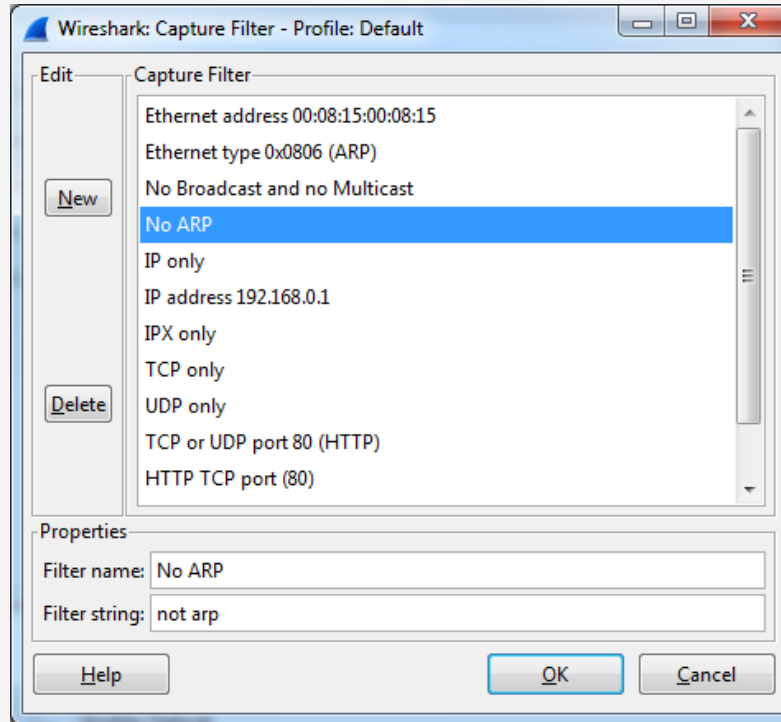
No.	Time	Source	Destination	Protocol	Length	Info
1	0.000000	3ffe:507:0:1:200:86	3ffe:501:4819::42	DNS	90	Standard query 0x0006 ANY itojun.org
2	0.073515	3ffe:501:4819::42	3ffe:507:0:1:200:86	DNS	510	Standard query response 0x0006 NS coconut.itojun.org NS tiger.hiroo.oshokuji.org
3	5.352508	fe80::200:86ff:fe05	fe80::260:97ff:fe07	ICMPv6	86	Neighbor Solicitation for fe80::260:97ff:fe07:69ea from 00:00:86:05:80:da
4	5.352839	fe80::260:97ff:fe07	fe80::200:86ff:fe05	ICMPv6	78	Neighbor Advertisement fe80::260:97ff:fe07:69ea (rtr, sol)
5	5.478595	3ffe:507:0:1:260:97	3ffe:507:0:1:200:86	ICMPv6	86	Neighbor Solicitation for 3ffe:507:0:1:200:86ff:fe05:80da from 00:60:97:07:69:ea
6	5.479045	3ffe:507:0:1:200:86	3ffe:507:0:1:260:97	ICMPv6	78	Neighbor Advertisement 3ffe:507:0:1:200:86ff:fe05:80da (sol)
7	6.617560	3ffe:507:0:1:200:86	3ffe:501:4819::42	DNS	93	Standard query 0x0006 MX www.yahoo.com

Wireshark Filters

» Filter types

- Capture – Used to filter data before it is captured by Wireshark. For example, you could configure Wireshark to capture only data supplied by a specific IP address.
- Display – Used to filter data after it is captured. This will help you refine the display to show only what you need to see.

Configuring a Capture Filter



Wireshark Filters

» Simple filter expression examples

- Capture traffic to or only from a specific IP address.

host 10.1.1.1

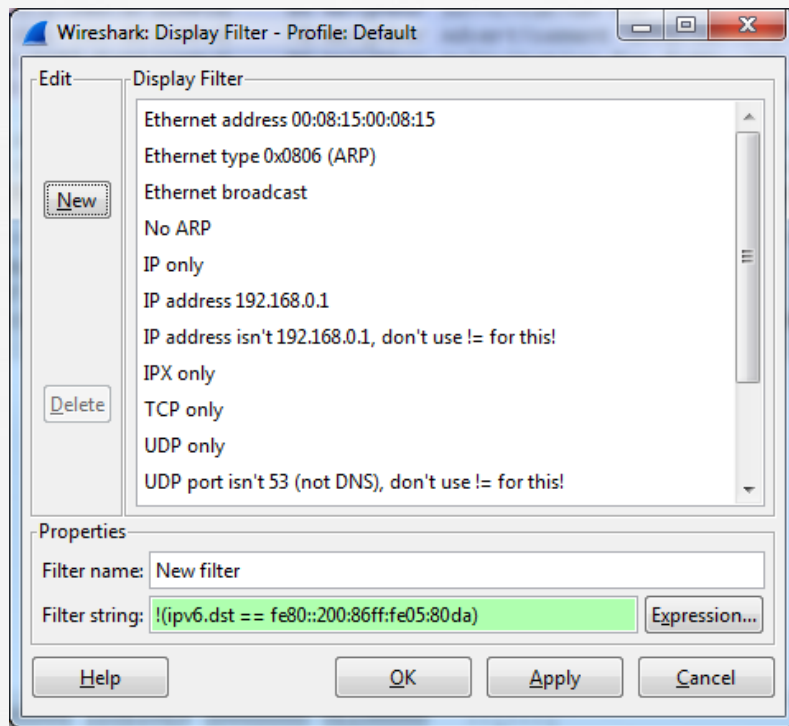
- Capture traffic to a range of IP addresses

net 10.1.1.0 mask 255.255.255.0

- Capture traffic on a specific port

port 8080

Display Filters



Wireshark Filters

» Troubleshooting with filters

- Streamline viewable traffic to find exactly what you need
- Remove anything that could cause confusion
- Give the analyst a clearer view of the root cause data

Questions?