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## Welcome!

This is the home web site of *tcpdump*, a powerful command-line packet analyzer; and *libpcap*, a portable C/C++ library for network traffic capture.

Here you can find the latest stable version of *tcpdump* and *libpcap*, as well as current development versions, a complete documentation, and information about how to report bugs or contribute patches.

## Documentation

The man pages and other documentation within releases and [current development versions](#) usually contain the most up to date information. Below you can find online versions of some of these documents, as well as tutorials and in-depth papers written by various authors.

### **tcpdump**

- The most useful for tcpdump users: [tcpdump\(1\)](#) and [pcap-filter\(7\)](#) man pages.
- Other documents: [README](#), [installation notes](#) and [change log](#).
- [Let's learn tcpdump!](#) by Julia Evans.
- [Tcpdump for dummies](#) by Alexander Sandler.
- [A tcpdump tutorial with examples](#) by Daniel Messler.
- [tcpdump cheat sheet](#) by Jeremy Stretch.
- [tcpdump advanced filters](#) by Sebastien Wains.
- [tcpdump little book](#) by Nan Xiao.

### **libpcap**

- [pcap\(3PCAP\)](#) and [rpcapd\(8\)](#) man pages.
- Other documents: [README](#), [installation notes](#) and [change log](#).
- [Programming with pcap](#) by Tim Carstens.
- [The BSD Packet Filter: A New Architecture for User-level Packet Capture](#) by Steven McCanne and Van Jacobson (Usenix Winter 1993). [[PDF version](#)]
- [libpcap: An Architecture and Optimization Methodology for Packet Capture](#) by Steve McCanne, CTO Riverbed Technology (Sharkfest'11).
- [The Sniffer's Guide to Raw Traffic](#) by Martin Casado.
- [Aprendiendo a programar con libpcap](#) (in Spanish), by Alejandro Lopez Monge.
- [Programming with Libpcap - Sniffing the network from our own application](#) by Luis MartinGarcia (Hakin9 Magazine, issue 2/2008). [[code samples](#)]
- [Develop a Sniffer with Libpcap](#) by Vic Hargrave.
- [Using libpcap in C](#) by John Daniel Leon.
- [What we talk about when we talk about pcap expressions](#) by Nik Sultana.
- [BPF and tcpdump](#) by Andreas Karis.
- [BPF Exam](#) is an online tool for Berkeley Packet Filter bytecode visualization. It allows to specify various filter compilation parameters and produces the results in several output formats.
- [BPF Simulator](#) is another BPF visualization tool. It allows to see how the same filter program applies to several packets.

## Latest Releases

### **tcpdump**

**Version:** 4.99.5

**Release Date:** August 30, 2024

**Download:** [tcpdump-4.99.5.tar.xz](#) ([change log](#)) (PGP [signature](#) and [key](#))

**CLOC analysis and diffs report:** [Fossies](#)

This tcpdump release makes various improvements and bug fixes available whilst the work on tcpdump 5.0 is still in progress. This release requires libpcap 1.10.0 or later to pass all test cases.

## libpcap

**Version:** 1.10.5

**Release Date:** August 30, 2024

**Download:** [libpcap-1.10.5.tar.xz](#) ([change log](#)) (PGP [signature](#) and [key](#))

**CLOC analysis and diffs report:** [Fossies](#)

This libpcap release makes various improvements and bug fixes available whilst the work on libpcap 1.11 is still in progress. Among other things this includes the fixes to two vulnerabilities (CVE-2023-7256 discovered by Dora Sweet and CVE-2024-8006 discovered by Flavio Toffalini and reported by Nicolas Badoux) in the remote packet capture code, which is disabled by default.

## Current Development Versions

The current development versions are freely accessible through the GitHub [Git](#) hosting site ([tcpdump](#), [libpcap](#)). You can clone these repositories with the following commands:

```
git clone https://github.com/the-tcpdump-group/tcpdump
git clone https://github.com/the-tcpdump-group/libpcap
```

A read-only git mirror of all project repositories is available [here](#) in case anyone needs it. After cloning the git repositories you can configure and compile the source via either GNU Autoconf or CMake. There is various [continuous integration](#) involved in the development process.

## Mailing List

tcpdump-workers

This list is focused on development, it also receives announcements. Subscribe by sending an e-mail to [tcpdump-workers-request@lists.tcpdump.org](mailto:tcpdump-workers-request@lists.tcpdump.org) with the word "subscribe" as body and subject. A list archive, dating back to 2002-10-01, can be found [here](#), and an archive dating back to 1999-10-18 can be found [here](#). Posts to this list must originate from the subscriber's address.

## Patches, Bug Reports and Feature Requests

Please use [GitHub](#) as follows:

- Read the guidelines for contributing ([tcpdump](#), [libpcap](#)).
- Submit bug reports and feature requests using the issue tracker ([tcpdump](#), [libpcap](#)).
- Submit patches by forking the repository ([tcpdump](#), [libpcap](#)) and opening a pull request.

## How to Contribute

*tcpdump* and *libpcap* are open source software and anyone can make contributions. You can help by:

- downloading and testing *libpcap* and *tcpdump* on your platform
- contributing code
- proofreading the documentation and the man pages
- providing .pcap files for protocols or protocol features that *tcpdump* supports, but does not test yet
- helping to improve the [continuous integration](#) scripts and infrastructure

If you want to contribute, please subscribe to the [tcpdump-workers](#) mailing list. It's a good idea to discuss bugfixes and new feature additions in advance, because the changes may have bigger implications than you think and your patch may not get accepted.

## License

*tcpdump* and *libpcap* are under a [3-clause BSD license](#). While the current authors have no objection to converting to a [2-clause](#) BSD license, the number of contributors that would need to agree makes this change unpracticable.

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