Libpcap for android

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Data-network packet analyzer This article needs additional citations for verification. Please help improve this article by adding citations to reliable sources. Unsourced material may be challenged and removed.Find sources: "Tcpdump" – news · newspapers · books · scholar · JSTOR (September 2010) (Learn how and when to remove this template message) tcpdumptcpdump console outputDeveloper(s)The Tcpdump teamInitial release1988Stable release4.99.1 / June 9, 2021; 15 months ago (2021-06-09)[1] Repositorytcpdump on GitHubWritten inC (programming language)Operating systemLinux, Solaris, FreeBSD, NetBSD, OpenBSD, DragonFly BSD, macOS, Android, and additional *NIX systems, WindowsTypePacket analyzerLicenseBSD license[2]Websitewww.tcpdump.org tcpdump is a data-network packet analyzer computer program that runs under a command line interface. It allows the user to display TCP/IP and other packets being transmitted or received over a network to which the computer is attached.[3] Distributed under the BSD license,[4] tcpdump is free software. Tcpdump works on most Unix-like operating systems: Linux, Solaris, FreeBSD, DragonFly BSD, NetBSD, OpenBSD, OpenWrt, macOS, HP-UX 11i, and AIX. In those systems, tcpdump uses the libpcap library to capture packets. The port of tcpdump for Windows is called WinDump; it uses WinPcap, the Windows version of libpcap. History tcpdump was originally written in 1988 by Van Jacobson, Sally Floyd, Vern Paxson and Steven McCanne who were, at the time, working in the Lawrence Berkeley Laboratory Network Research Group.[5] By the late 1990s there were numerous versions of tcpdump distributed as part of various operating systems, and numerous patches that were not well coordinated. Michael Richardson (mcr) and Bill Fenner created www.tcpdump.org in 1999. Common uses tcpdump prints the contents of network packets. It can read packets from a network interface card or from a previously created saved packet file. tcpdump can write packets to standard output or a file. It is also possible to use tcpdump for the specific purpose of intercepting and displaying the communications of another user or computer. A user with the necessary privileges on a system acting as a router or gateway through which unencrypted traffic such as Telnet or HTTP passes can use tcpdump to view login IDs, passwords, the URLs and content of websites being viewed, or any other unencrypted information. The user may optionally apply a BPF-based filter to limit the number of packets seen by tcpdump; this renders the output more usable on networks with a high volume of traffic. Example of available capture interfaces on a Linux system: $ tcpdump -D 1.eth0 [Up, Running, Connected] 2.any (Pseudo-device that captures on all interfaces) [Up, Running] 3.lo [Up, Running, Loopback] 4.bluetooth-monitor (Bluetooth Linux Monitor) [Wireless] 5.usbmon2 (Raw USB traffic, bus number 2) 6.usbmon1 (Raw USB traffic, bus number 1) 7.usbmon0 (Raw USB traffic, all USB buses) [none] 8.nflog (Linux netfilter log (NFLOG) interface) [none] 9.nfqueue (Linux netfilter queue (NFQUEUE) interface) [none] 10.dbus-system (D-Bus system bus) [none] 11.dbus-session (D-Bus session bus) [none] 12.bluetooth0 (Bluetooth adapter number 0) 13.eth1 [none, Disconnected] Privileges required In some Unix-like operating systems, a user must have superuser privileges to use tcpdump because the packet capturing mechanisms on those systems require elevated privileges. However, the -Z option may be used to drop privileges to a specific unprivileged user after capturing has been set up. In other Unix-like operating systems, the packet capturing mechanism can be configured to allow non-privileged users to use it; if that is done, superuser privileges are not required. See also Free and open-source software portal Tcptrace, a tool for analyzing the logs produced by tcpdump EtherApe, a network mapping tool that relies on sniffing traffic Ngrep, a tool that can match regular expressions within the network packet payloads netsniff-ng, a free Linux networking toolkit Wireshark, a GUI based alternative to tcpdump References ^ "tcpdump and libpcap latest release". The Tcpdump Group. Retrieved 2020-12-30. ^ "tcpdump and libpcap license". The Tcpdump Group. Retrieved 2012-04-13. ^ Amoedo, Damián (8 April 2018). "Tcpdump, conoce el tráfico de una interfaz de red desde la terminal". Ubunlog (in Spanish). Archived from the original on 9 April 2018. Retrieved 9 April 2018. Esta herramienta nos va a permitir ver información sobre el tráfico que entra y sale de una interfaz de red determinada. Se trata de una herramienta de diagnóstico que nos va a permitir ver la información de los paquetes. Esta información será de donde provienen los paquetes entrantes y hacia donde se dirigen los paquetes salientes, aportando algo de información adicional. Incluso podremos guardar el resultado en un archivo para echarle un vistazo en otro momento. ^ "LICENSE file from source code (public GIT repository)". ^ McCanne, Steve (13 June 2011). "libpcap: An Architecture and Optimization Methodology for Packet Capture - Sharkfest 2011" (PDF). SharkFest. Retrieved 6 August 2017. External links Official site for tcpdump (and libpcap) Official site for WinDump A tcpdump Tutorial and Primer ngrep, a tcpdump-like tool Portable version of tcpdump for Windows Official site for tcpdump for Android devices Tutorial video for tcpdump in Linux WinDump Color Highlighting Retrieved from " Eclipse Trace Compass is an open source application to solve performance and reliability issues by reading and analyzing traces and logs of a system. Its goal is to provide views, graphs, metrics, and more to help extract useful information from traces, in a way that is more user-friendly and informative than huge text dumps. 最近国内的网络形式越来越严峻，在日益高涨的需求下，掌握一门穿墙之术越来越成为需要。相对于普通ti子 而已， Shadowsocks 更为轻量级，安装配置过程极其简单。而客户端也可以在windows、mac、iOS和android上轻松运行，被人们所深深喜爱。下面说说 Shadowosocks 的安装和优化。1. 服务端安装官方推荐 Ubuntu 16.04 LTS 作为服务器以便使用 TCP Fast Open。服务器端的安装非常简单。Debian / Ubuntu:apt-get install python-pippip install shadowsocksCentOS:yum install python-setuptools && easy_install pippip install shadowsocks然后直接在后台运行：ssserver -p 8000 -k password -m rc4-md5 -d start当然也可以使用配置文件进行配置，方法创建/etc/shadowsocks.json文件，填入如下内容：{ "server":"my_server_ip", "server_port":8000, "local_address": "127.0.0.1", "local_port":1080, "password":"mypassword", "timeout":300, "method":"rc4-md5"}然后使用配置文件在后台运行：ssserver -c /etc/shadowsocks.json -d start如果要停止运行，将命令中的start改成stop。TIPS: 加密方式推荐使用rc4-md5，因为 RC4 比 AES 速度快好几倍，如果用在路由器上会带来显著性能提升。旧的 RC4 加密之所以不安全是因为 Shadowsocks 在每个连接上重复使用 key，没有使用 IV。现在已经重新正确实现，可以放心使用。更多可以看 issue。2. 客户端安装客户端安装比较入门，这里就不说了，可以参考这篇文章。3. 加速优化下面介绍几种简单的优化方法，也是比较推荐的几种，能够得到立竿见影的效果。当然还有一些黑科技我没提到，如有大神路过，也可留言指出。3.1 内核参数优化首先，将 Linux 内核升级到 3.5 或以上。第一步，增加系统文件描述符的最大限数编辑文件 limits.confvi /etc/security/limits.conf增加以下两行* soft nofile 51200* hard nofile 51200启动shadowsocks服务器之前，设置以下参数第二步，调整内核参数修改配置文件 /etc/sysctl.conffs.file-max = 51200net.core.rmem_max = 67108864net.core.wmem_max = 67108864net.core.netdev_max_backlog = 250000net.core.somaxconn = 4096net.ipv4.tcp_syncookies = 1net.ipv4.tcp_tw_reuse = 1net.ipv4.tcp_tw_recycle = 0net.ipv4.tcp_fin_timeout = 30net.ipv4.tcp_keepalive_time = 1200net.ipv4.ip_local_port_range = 10000 65000net.ipv4.tcp_max_syn_backlog = 8192net.ipv4.tcp_max_tw_buckets = 5000net.ipv4.tcp_fastopen = 3net.ipv4.tcp_rmem = 4096 87380 67108864net.ipv4.tcp_wmem = 4096 65536 67108864net.ipv4.tcp_mtu_probing = 1net.ipv4.tcp_congestion_control = hybla修改后执行 sysctl -p 使配置生效3.2 锐速锐速是一款非常不错的TCP底层加速软件，可以非常方便快速地完成服务器网络的优化，配合 ShadowSocks 效果奇佳。目前锐速官方也出了永久免费版本，适用带宽20M、3000加速连接，个人使用是足够了。如果需要，先要在锐速官网注册个账户。然后确定自己的内核是否在锐速的支持列表里，如果不在，请先更换内核，如果不确定，请使用 手动安装。确定自己的内核版本在支持列表里，就可以使用以下命令快速安装了。输入在官网注册的账号密码进行安装，参数设置直接回车默认即可，最后两项输入 y 开机自动启动锐速，y 立刻启动锐速。之后可以通过lsmod查看是否有appex模块在运行。到这里还没结束，我们还要修改锐速的3个参数，vi /serverspeeder/etc/configrsc="1" #RSC网卡驱动模式 advinacc="1" #流量方向加速 maxmode="1" #最大传输模式digitalocean vps的网卡支持rsc和gso高级算法，所以可以开启rsc="1"，gso="1"。重新启动锐速service serverSpeeder restart3.3 net-speedernet-speeder 原理非常简单粗暴，就是发包翻倍，这会占用大量的国际出口带宽，本质是损人利己，不建议使用。(1) Ubuntu/Debian 下安装依赖包apt-get install libnet1apt-get install libpcap0.8apt-get install libnet1-devapt-get install libpcap0.8-dev(2) Centos 下安装依赖包需要配置 epel 第三方源。下载 epel ： 。例如，Centos 7 x64：然后安装依赖包：yum install libnet libpcap libnet-devel libpcap-devel(3) 下载官方的 tar.gz 压缩包。解压安装运行：首先你需要知道你的网卡设备名，可以使用 ifconfig 查看。假设是eth0，那么运行方法是:关闭 net-speeder哦，对了，作者已经将 net-speeder 迁移到 GitHub 了，感兴趣的可以关注、贡献。以上几种方法是我用过的几种比较有效的加速方法。有任何错误之处还请在下面留言指出。如果你不想折腾服务端安装和优化，可以关注我免费领取ti子体验服务。

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