



# Pulse Secure Virtual Traffic Manager: Appliance License Acknowledgements

Supporting Pulse Secure Virtual Traffic Manager 20.2r1

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# Preface

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## Document conventions

The document conventions describe text formatting conventions, command syntax conventions, and important notice formats used in Pulse Secure technical documentation.

### Text formatting conventions

Text formatting conventions such as boldface, italic, or Courier font may be used in the flow of the text to highlight specific words or phrases.

Format	Description
<b>bold text</b>	Identifies command names
	Identifies keywords and operands
	Identifies the names of user-manipulated GUI elements
	Identifies text to enter at the GUI
<i>italic text</i>	Identifies emphasis
	Identifies variables
	Identifies document titles
Courier Font	Identifies command output
	Identifies command syntax examples

### Command syntax conventions

Bold and italic text identify command syntax components. Delimiters and operators define groupings of parameters and their logical relationships.

Convention	Description
<b>bold text</b>	Identifies command names, keywords, and command options.
<i>italic text</i>	Identifies a variable.
[ ]	Syntax components displayed within square brackets are optional. Default responses to system prompts are enclosed in square brackets.

Convention	Description
{ <b>x</b>   <b>y</b>   <b>z</b> }	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
<b>x</b>   <b>y</b>	A vertical bar separates mutually exclusive elements.
< >	Non-printing characters, for example, passwords, are enclosed in angle brackets.
...	Repeat the previous element, for example, member[member...].
\	Indicates a “soft” line break in command examples. If a backslash separates two lines of a command input, enter the entire command at the prompt without the backslash.

## Notes and Warnings

Note, Attention, and Caution statements might be used in this document.

**Note:** A Note provides a tip, guidance, or advice, emphasizes important information, or provides a reference to related information.

### ATTENTION

An Attention statement indicates a stronger note, for example, to alert you when traffic might be interrupted or the device might reboot.

### CAUTION

A Caution statement alerts you to situations that can be potentially hazardous to you or cause damage to hardware, firmware, software, or data.

## Requesting Technical Support

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- Find CSC offerings: <https://support.pulsesecure.net>
- Search for known bugs: <https://support.pulsesecure.net>
- Find product documentation: <https://www.pulsesecure.net/techpubs>
- Download the latest versions of software and review release notes: <https://support.pulsesecure.net>
- Open a case online in the CSC Case Management tool: <https://support.pulsesecure.net>

- To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: <https://support.pulsesecure.net>

For important product notices, technical articles, and to ask advice:

- Search the Pulse Secure Knowledge Center for technical bulletins and security advisories: <https://kb.pulsesecure.net>
- Ask questions and find solutions at the Pulse Community online forum: <https://community.pulsesecure.net>

## Opening a Case with PSGSC

You can open a case with PSGSC on the Web or by telephone.

- Use the Case Management tool in the PSGSC at <https://support.pulsesecure.net>.
- Call 1-844 751 7629 (Toll Free, US).

For international or direct-dial options in countries without toll-free numbers, see <https://support.pulsesecure.net/support/support-contacts/>





# Introduction

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The Pulse Secure Virtual Traffic Manager (Traffic Manager) product family is available in a variety of software and appliance configurations. All configurations share the same core Traffic Manager software, but different versions may provide different levels of functionality depending on the enabling license key.

Traffic Manager appliance and cloud variants share a common Operating System (OS) layer that is packaged up with the Traffic Manager software to form the appropriate product or solution. This OS is comprised of a number of third party packages mostly derived from the Ubuntu Linux distribution.

This document is intended to list and attribute all third party software packages used in all variants of the Appliance OS. It does not list third party packages used in the Traffic Manager software component; for these, see instead the *Pulse Secure Virtual Traffic Manager: User's Guide*.

This manual describes the licenses for version 20.2r1.



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## Unmodified Packages

acpid

adduser

adwaita-icon-theme

apt

apt-utils

aptitude

aptitude-common

base-files

base-passwd

bash

bind9-host

binutils

binutils-common

binutils-x86-64-linux-gnu

bsdmainutils

bsdutils

busybox-initramfs

bzip2

ca-certificates

ca-certificates-java

cloud-guest-utils

console-setup

console-setup-linux

coreutils

cpio

cron

curl

dash

dbus

debconf

debconf-i18n

debianutils

diffutils

distro-info-data

dmidecode

dmsetup

dnsutils

dpkg

e2fsprogs

eject

ethtool

fail2ban

fdisk  
file  
findutils  
fontconfig  
fontconfig-config  
fonts-dejavu-core  
freeipmi-common  
ftp  
gcc-8-base  
gce-compute-image-packages  
gdb  
gdbserver  
gettext-base  
gir1.2-glib-2.0  
google-compute-engine-oslogin  
gpg  
gpgconf  
gpgv  
grep  
groff-base  
grub-common  
grub-gfxpayload-lists  
grub-pc  
grub-pc-bin  
grub2  
grub2-common  
gtk-update-icon-cache

gzip  
hdparm  
hicolor-icon-theme  
hostname  
humanity-icon-theme  
hwloc  
ifenslave  
ifupdown  
init  
init-system-helpers  
initramfs-tools  
initramfs-tools-bin  
initramfs-tools-core  
ipmitool  
iproute2  
iptables  
iputils-ping  
iputils-tracepath  
irqbalance  
isc-dhcp-client  
isc-dhcp-common  
iso-codes  
java-common  
kbd  
keyboard-configuration  
klibc-utils  
kmod

less  
libacl1  
libapparmor1  
libapt-inst2.0  
libapt-pkg5.0  
libargon2-0  
libasn1-8-heimdal  
libasound2  
libasound2-data  
libassuan0  
libasyncns0  
libatk-bridge2.0-0  
libatk-wrapper-java  
libatk-wrapper-java-jni  
libatk1.0-0  
libatk1.0-data  
libatm1  
libatspi2.0-0  
libattr1  
libaudit-common  
libaudit1  
libavahi-client3  
libavahi-common-data  
libavahi-common3  
libbabeltrace1  
libbind9-160  
libbinutils

libblkid1

libboost-filesystem1.65.1

libboost-iostreams1.65.1

libboost-system1.65.1

libbsd0

libbz2-1.0

libc-bin

libc-dev-bin

libc6

libc6-dev

libcairo2

libcap-ng0

libcap2

libcap2-bin

libcom-err2

libcomerr2

libcroco3

libcryptsetup12

libcups2

libcurl4

libcwidget3v5

libdatrie1

libdb5.3

libdbus-1-3

libdebconfclient0

libdevmapper1.02.1

libdns-export1100



libdns1100

libdrm-amdgpu1

libdrm-common

libdrm-intel1

libdrm-nouveau2

libdrm-radeon1

libdrm2

libdw1

libedit2

libelf1

libestr0

libexpat1

libext2fs2

libfastjson4

libfdisk1

libffi6

libfile-copy-recursive-perl

libflac8

libfontconfig1

libfontenc1

libfreeipmi16

libfreetype6

libfribidi0

libfuse2

libgc1c2

libgcc1

libgcrypt20

libgdbm-compat4  
libgdbm5  
libgdk-pixbuf2.0-0  
libgdk-pixbuf2.0-common  
libgeoip1  
libgif7  
libgirepository-1.0-1  
libgl1  
libgl1-mesa-dri  
libgl1-mesa-glx  
libglapi-mesa  
libglib2.0-0  
libglib2.0-data  
libglvnd0  
libglx-mesa0  
libglx0  
libgmp10  
libgnutls30  
libgpg-error0  
libgraphite2-3  
libgssapi-krb5-2  
libgssapi3-heimdal  
libgtk2.0-0  
libgtk2.0-common  
libharfbuzz0b  
libhcrypto4-heimdal  
libheimbase1-heimdal

libheimntlm0-heimdal  
libhogweed4  
libhwloc5  
libhx509-5-heimdal  
libice6  
libicu60  
libidn11  
libidn2-0  
libip4tc0  
libip6tc0  
libiptc0  
libirs160  
libisc-export169  
libisc169  
libisccc160  
libiscfg160  
libjbig0  
libjpeg-turbo8  
libjpeg8  
libjson-c3  
libjson-perl  
libk5crypto3  
libkeyutils1  
libklibc  
libkmod2  
libkrb5-26-heimdal  
libkrb5-3

libkrb5support0  
liblcms2-2  
libldap-2.4-2  
libldap-common  
libllvm9  
liblocale-gettext-perl  
liblockfile-bin  
liblockfile1  
libltdl7  
liblwres160  
liblz4-1  
liblzma5  
libmagic-mgc  
libmagic1  
libmnl0  
libmount1  
libmpdec2  
libmpfr6  
libmspack0  
libncurses5  
libncursesw5  
libnet-http-perl  
libnet-ssleay-perl  
libnetfilter-contrack3  
libnetplan0  
libnettle6  
libnewt0.52

libnfnetlink0  
libnghttp2-14  
libnspr4  
libnss-systemd  
libnss3  
libnuma1  
libodbc1  
libogg0  
libopts25  
libp11-kit0  
libpam-cap  
libpam-modules  
libpam-modules-bin  
libpam-runtime  
libpam-systemd  
libpam0g  
libpango-1.0-0  
libpangocairo-1.0-0  
libpangoft2-1.0-0  
libparted2  
libpcap0.8  
libpci-dev  
libpci3  
libpciaccess0  
libpcre3  
libpcsclite1  
libperl5.26

libpipeline1  
libpixman-1-0  
libpng16-16  
libpopt0  
libprocps6  
libpsl5  
libpulse0  
libpython-stdlib  
libpython2.7-minimal  
libpython2.7-stdlib  
libpython3-stdlib  
libpython3.6  
libpython3.6-minimal  
libpython3.6-stdlib  
libreadline5  
libreadline7  
librecode0  
libroken18-heimdal  
librsvg2-2  
librsvg2-common  
librtmp1  
libsasl2-2  
libsasl2-modules-db  
libseccomp2  
libselinux1  
libsemanage-common  
libsemanage1

libsensors4  
libsensors4-dev  
libsepol1  
libsigc++-2.0-0v5  
libslang2  
libsm6  
libsmartcols1  
libsndfile1  
libsqlite3-0  
libss2  
libssl-dev  
libssl1.0.0  
libssl1.1  
libstdc++6  
libsysfs2  
libsystemd0  
libtasn1-6  
libtext-charwidth-perl  
libtext-iconv-perl  
libtext-wrapi18n-perl  
libthai-data  
libthai0  
libtiff5  
libtinfo5  
libudev-dev  
libudev1  
libunistring2

libunwind8

liburi-perl

libusb-1.0-0

libutempter0

libuuid1

libvorbis0a

libvorbisenc2

libwind0-heimdal

libwrap0

libwrap0-dev

libx11-6

libx11-data

libx11-xcb1

libxapian30

libxau6

libxaw7

libxcb-dri2-0

libxcb-dri3-0

libxcb-glx0

libxcb-present0

libxcb-render0

libxcb-shape0

libxcb-shm0

libxcb-sync1

libxcb1

libxcomposite1

libxcursor1



libxdamage1  
libxdmcp6  
libxext6  
libxfixed3  
libxft2  
libxi6  
libxinerama1  
libxml2  
libxmlsec1  
libxmlsec1-openssl  
libxmu6  
libxmuu1  
libxpm4  
libxrandr2  
libxrender1  
libxshmfence1  
libxslt1.1  
libxt6  
libxtables12  
libxtst6  
libxv1  
libxxf86dga1  
libxxf86vm1  
libyaml-0-2  
libzstd1  
lilo  
linux-base

linux-cloud-tools-common

linux-libc-dev

linux-tools-common

lm-sensors

locales

lockfile-progs

login

logrotate

lsb-base

lsb-release

lsuf

ltrace

man-db

mawk

mdadm

memtest86+

mime-support

mount

multiarch-support

nano

ncurses-base

ncurses-bin

net-tools

netbase

netcat-openbsd

netcat-traditional

netplan.io

networkd-dispatcher  
nplan  
ntp  
ntpdate  
odbcinst  
odbcinst1debian2  
open-vm-tools  
openjdk-8-jdk  
openjdk-8-jdk-headless  
openjdk-8-jre  
openjdk-8-jre-headless  
openssl  
parted  
passwd  
pciutils  
perl  
perl-base  
perl-modules-5.26  
perl-openssl-defaults  
procps  
psmisc  
python  
python-apt-common  
python-certifi  
python-chardet  
python-idna  
python-lockfile

python-minimal  
python-pkg-resources  
python-pyasn1  
python-pystache  
python-requests  
python-setuptools  
python-six  
python-urllib3  
python2.7  
python2.7-minimal  
python3  
python3-apt  
python3-asn1crypto  
python3-blinker  
python3-certifi  
python3-cffi-backend  
python3-chardet  
python3-configobj  
python3-cryptography  
python3-dbus  
python3-gi  
python3-google-compute-engine  
python3-idna  
python3-jinja2  
python3-json-pointer  
python3-jsonpatch  
python3-jsonschema

python3-jwt  
python3-markupsafe  
python3-minimal  
python3-netifaces  
python3-oauthlib  
python3-pkg-resources  
python3-requests  
python3-serial  
python3-six  
python3-software-properties  
python3-urllib3  
python3-yaml  
python3.6  
python3.6-minimal  
qemu-guest-agent  
readline-common  
recode  
rsync  
rsyslog  
screen  
sed  
sensible-utils  
setserial  
shared-mime-info  
smartmontools  
socat  
software-properties-common

strace  
sudo  
sysstat  
systemd  
systemd-sysv  
sysvinit-utils  
tar  
tcpdump  
telnet  
traceroute  
tzdata  
ubuntu-advantage-tools  
ubuntu-keyring  
ubuntu-minimal  
ubuntu-mono  
ucf  
udev  
unixodbc  
unzip  
update-inetd  
usbutils  
util-linux  
uuid-runtime  
vim-common  
vim-tiny  
vlan  
wlinuxagent

wget  
whiptail  
x11-common  
x11-utils  
xdg-user-dirs  
xe-guest-utilities  
xkb-data  
xxd  
xz-utils  
zile  
zlib1g  
zlib1g-dev

## **Modified Packages**

cloud-init  
libpam-script  
libsnmp-base  
libsnmp-dev  
libsnmp30  
linux-cloud-tools-4.15.0-106  
linux-tools-4.15.0-106  
openssh-client  
openssh-server  
openssh-sftp-server  
snmp  
snmpd  
ssh  
tripwire

## Other License Acknowledgements

### aws-cfn-bootstrap

Version: 1.4

License summary: Apache 2.0

The following license text applies:

Apache License

Version 2.0, January 2004

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## **google-cloud-sdk**

Version: 297.0.1

Package Source URL: [https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-sdk-297.0.1-linux-x86\\_64.tar.gz](https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-sdk-297.0.1-linux-x86_64.tar.gz)

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Version: 1.0.16

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## linux-image-unsigned-4.15.0-106-stm-xen

Version: 4.15.0-106.107zeus1

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## linux-modules-4.15.0-106-hadc

Version: 4.15.0-106.107zeus1

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## linux-modules-4.15.0-106-hadc-vmware

Version: 4.15.0-106.107zeus1

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## linux-modules-4.15.0-106-stm

Version: 4.15.0-106.107zeus1

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## linux-modules-4.15.0-106-stm-azure

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## linux-modules-4.15.0-106-stm-ec2

Version: 4.15.0-106.107zeus1

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## linux-modules-4.15.0-106-stm-gce

Version: 4.15.0-106.107zeus1

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## linux-modules-4.15.0-106-stm-hyperv

Version: 4.15.0-106.107zeus1

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## linux-modules-4.15.0-106-stm-kvm

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## linux-tools-4.15.0-106-stm-vmware

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## **linux-tools-4.15.0-106-stm-xen**

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Version: 1.6

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## **slabinfo**

Version: 0.1-zeus2

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It installs the slabinfo command built from the



tools/vm folder in the kernel source tree

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#####

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argcomplete

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containerregistry  
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enum  
fancy\_urllib  
fasteners  
functools32  
gae\_ext\_runtime  
google  
google/auth  
google/oauth2  
google/protobuf  
google\_auth\_httplib2  
google\_auth\_oauthlib  
grpc\_dummy  
httplib2  
httplib2shim  
idna  
ipaddr  
ipaddress  
jsonschema  
kubernetes  
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oauthlib  
packaging  
pkg\_resources  
portpicker  
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pyasn1  
pyasn1\_modules  
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pyparsing  
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