



Pulse Secure Virtual Traffic Manager: Appliance License Acknowledgements

Supporting Pulse Secure Virtual Traffic Manager 18.2r1

Product Release	18.2r1
Published	September 2019
Document Version	1.0

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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 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
bold text	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
bold text	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
{ x y z }	A choice of required parameters is enclosed in curly brackets separated by vertical bars. You must select one of the options.
x y	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

Technical product support is available through the Pulse Secure Global Support Center (PSGSC). If you have a support contract, file a ticket with PSGSC.

- Product warranties—For product warranty information, visit <http://www.pulsesecure.net>.

Self-Help Online Tools and Resources

For quick and easy problem resolution, Pulse Secure, LLC has designed an online self-service portal called the Customer Support Center (CSC) that provides you with the following features:

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- Search for known bugs: <https://www.pulsesecure.net/support>
- Find product documentation: <https://www.pulsesecure.net/techpubs>
- Find solutions and answer questions using our Knowledge Center: <https://www.pulsesecure.net/support>

- Download the latest versions of software and review release notes: <https://www.pulsesecure.net/support>
- Search technical bulletins for relevant hardware and software notifications: <https://www.pulsesecure.net/support>
- Open a case online in the CSC Case Management tool: <https://www.pulsesecure.net/support>
- To verify service entitlement by product serial number, use our Serial Number Entitlement (SNE) Tool: <https://www.pulsesecure.net/support>

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://www.pulsesecure.net/support>.
- • Call 1-844 751 7629 (Toll Free, US).

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

Introduction

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 18.2r1.

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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

libcwidjet3v5

libdatrie1

libdb5.3

libdbus-1-3

libdebconfclient0

libdevmapper1.02.1

libdns-export1100

libdns1100
libdrm-amdgpu1
libdrm-common
libdrm-intel1
libdrm-nouveau2
libdrm-radeon1
libdrm2
libdumbnet1
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

libllvm8

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

libnettle6

libnewt0.52

libnfnetwork0
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-libc-dev
lm-sensors
locales
lockfile-progs
login
logrotate
lsb-base
lsb-release
lsof
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
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-4.15.0-64
linux-cloud-tools-common
linux-tools-4.15.0-64
linux-tools-common
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

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Version 2.0, January 2004

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google-cloud-sdk

Version: 237.0.0

Package Source URL: https://dl.google.com/dl/cloudsdk/channels/rapid/downloads/google-cloud-sdk-237.0.0-linux-x86_64.tar.gz

License summary: Apache 2.0

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ipaddress

Version: 1.0.16

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linux-cloud-tools-4.15.0-64-stm-azure

Version: 4.15.0-64.73zeus1

License summary: GPL-2

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linux-cloud-tools-4.15.0-64-stm-ec2

Version: 4.15.0-64.73zeus1

License summary: GPL-2

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linux-cloud-tools-4.15.0-64-stm-gce

Version: 4.15.0-64.73zeus1

License summary: GPL-2

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linux-cloud-tools-4.15.0-64-stm-hyperv

Version: 4.15.0-64.73zeus1

License summary: GPL-2

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linux-cloud-tools-4.15.0-64-stm-kvm

Version: 4.15.0-64.73zeus1

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linux-cloud-tools-4.15.0-64-stm-vmware

Version: 4.15.0-64.73zeus1

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linux-cloud-tools-4.15.0-64-stm-xen

Version: 4.15.0-64.73zeus1

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linux-image-unsigned-4.15.0-64-stm

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linux-image-unsigned-4.15.0-64-stm-azure

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linux-image-unsigned-4.15.0-64-stm-ec2

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Version: 4.15.0-64.73zeus1

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linux-tools-4.15.0-64-stm

Version: 4.15.0-64.73zeus1

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linux-tools-4.15.0-64-stm-azure

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linux-tools-4.15.0-64-stm-ec2

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linux-tools-4.15.0-64-stm-gce

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linux-tools-4.15.0-64-stm-hyperv

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linux-tools-4.15.0-64-stm-kvm

Version: 4.15.0-64.73zeus1

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linux-tools-4.15.0-64-stm-vmware

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linux-tools-4.15.0-64-stm-xen

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python-daemon

Version: 1.6

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It installs the slabinfo command built from the

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