Pulse Secure Virtual Traffic Manager: Appliance License Acknowledgements
Supporting Pulse Secure Virtual Traffic Manager 18.2r1
Pulse Secure, LLC
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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.

<table>
<thead>
<tr>
<th>Format</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>bold text</strong></td>
<td>Identifies command names</td>
</tr>
<tr>
<td></td>
<td>Identifies keywords and operands</td>
</tr>
<tr>
<td></td>
<td>Identifies the names of user-manipulated GUI elements</td>
</tr>
<tr>
<td></td>
<td>Identifies text to enter at the GUI</td>
</tr>
<tr>
<td><em>italic text</em></td>
<td>Identifies emphasis</td>
</tr>
<tr>
<td></td>
<td>Identifies variables</td>
</tr>
<tr>
<td></td>
<td>Identifies document titles</td>
</tr>
<tr>
<td><strong>Courier Font</strong></td>
<td>Identifies command output</td>
</tr>
<tr>
<td></td>
<td>Identifies command syntax examples</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Convention</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td><strong>bold text</strong></td>
<td>Identifies command names, keywords, and command options.</td>
</tr>
<tr>
<td><em>italic text</em></td>
<td>Identifies a variable.</td>
</tr>
<tr>
<td>[ ]</td>
<td>Syntax components displayed within square brackets are optional.</td>
</tr>
<tr>
<td></td>
<td>Default responses to system prompts are enclosed in square brackets.</td>
</tr>
</tbody>
</table>
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.

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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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• 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
cacertificates
cacertificates-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
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
libglvl-0
libglvnd0
libglx-mesa0
libglx0
libgmp10
libgnutls30
libgpg-error0
libgraphite2-3
libgssapi-krb5-2
libgssapi3-heimdal
libgtk2.0-0
libgtk2.0-common
libharfbuzz0b
libcrypto4-heimdal
libheimbase1-heimdal
libheimntlm0-heimdal
libhogweed4
libhwloc5
libhx509-5-heimdal
libice6
libicu60
libidn11
libidn2-0
libip4tc0
libip6tc0
libiptc0
libirs160
libisc-export169
libisc169
libisccc160
libisccfg160
libjbig0
libjpeg-turbo8
libjpeg8
libjson-c3
libjson-perl
libk5crypto3
libkeyutils1
libklibc
libkmod2
libkrb5-26-heimdal
libnfnetlink0
libnghttp2-14
libnss
libnss-systemd
libnss3
libnuma
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
libpcrsclite1
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
libssl2-2
libssl2-modules-db
libseccomp2
libseccomp1
libsemanage-common
libsemanage1
libsdns4
libsdns4-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
libxfixes3
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
tpdate
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
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rsyslog
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setserial
shared-mime-info
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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
walinuxagent
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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**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

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ipaddress

Version: 1.0.16

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Version: 4.15.0-64.73zeus1

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

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

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**linux-image-unsigned-4.15.0-64-stm**

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**linux-tools-4.15.0-64-stm-kvm**

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Version: 1.6
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To do so, attach the following notices to the program. It is safest to attach them to the start of each source file to most effectively convey the exclusion of warranty; and each file should have at least the "copyright" line and a pointer to where the full notice is found.

<one line to give the program's name and a brief idea of what it does.>

Copyright (C) <year> <name of author>

This program is free software; you can redistribute it and/or modify it under the terms of the GNU General Public License as published by the Free Software Foundation; either version 2 of the License, or (at your option) any later version.

This program is distributed in the hope that it will be useful, but WITHOUT ANY WARRANTY; without even the implied warranty of MERCHANTABILITY or FITNESS FOR A PARTICULAR PURPOSE. See the GNU General Public License for more details.

You should have received a copy of the GNU General Public License along with this program; if not, write to the Free Software Foundation, Inc., 51 Franklin Street, Fifth Floor, Boston, MA 02110-1301 USA.

Also add information on how to contact you by electronic and paper mail.

If the program is interactive, make it output a short notice like this when it starts in an interactive mode:

Gnomovision version 69, Copyright (C) year name of author

Gnomovision comes with ABSOLUTELY NO WARRANTY; for details type `show w'.


This is free software, and you are welcome to redistribute it under certain conditions; type `show c' for details.

The hypothetical commands `show w' and `show c' should show the appropriate parts of the General Public License. Of course, the commands you use may be called something other than `show w' and `show c'; they could even be mouse-clicks or menu items--whatever suits your program.

You should also get your employer (if you work as a programmer) or your school, if any, to sign a "copyright disclaimer" for the program, if necessary. Here is a sample; alter the names:

Yoyodyne, Inc., hereby disclaims all copyright interest in the program `Gnomovision' (which makes passes at compilers) written by James Hacker.

<signature of Ty Coon>, 1 April 1989

Ty Coon, President of Vice

This General Public License does not permit incorporating your program into proprietary programs. If your program is a subroutine library, you may consider it more useful to permit linking proprietary applications with the library. If this is what you want to do, use the GNU Lesser General Public License instead of this License.