



EUROPEAN COMMISSION  
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Unit C3: Scientific Advice and Data Collection

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**Development of the Regional Database for the  
Mediterranean & Black Seas**



**European Maritime and Fisheries Fund (EMFF)**

**ANNEX I**

**Final Report**

**List of Installed Packages in Database Server and  
Application Server**

Final Report Number: **1**

Covered period: **from 01/01/2021 to 28/02/2023**

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## Open source software

The EC recommendations on increasing the use of **open source** in information technologies were fully adopted (2020-2023 strategy “Think Open” [https://ec.europa.eu/info/departments/informatics/open-source-software-strategy\\_en](https://ec.europa.eu/info/departments/informatics/open-source-software-strategy_en)). The following is a list of open source software used to develop Med&BS RDBFIS:

RDBMS: **PostgreSQL**

Spatial and geographic objects: **PostGIS**

Graphical interface for the front end of the platform: **Angular Web Application Framework**

Back end of the platform: **Spring Framework**

Authentication & Authorization: **Spring Security OAuth2 & JSON Web Token**

Web Application Server: **Apache Tomcat**

Persistence: **Hibernate Object Relational Mapping library**

Programming: **R and Python programming languages**

Libraries/Packages: **R libraries for statistical computing and graphics**

Below is a detailed list of open source software installed on the database server and application server.

## List of Installed Packages in Application Server

Architecture	Description	Version	Architecture
ii	accountsservice	0.6.55-0ubuntu12~20.04.5	amd64
	query and manipulate user account information		
ii	adduser	3.118ubuntu2	all
	add and remove users and groups		
ii	alsa-topology-conf	1.2.2-1	all
	ALSA topology configuration files		
ii	alsa-ucm-conf	1.2.2-1ubuntu0.10	all
	ALSA Use Case Manager configuration files		
ii	amd64-microcode	3.20191218.1ubuntu1	amd64
	Processor microcode firmware for AMD CPUs		
ii	apparmor	2.13.3-7ubuntu5.1	amd64
	user-space parser utility for AppArmor		
ii	apport	2.20.11-0ubuntu27.21	all
	automatically generate crash reports for debugging		
ii	apport-symptoms	0.23	all
	symptom scripts for apport		
ii	apt	2.0.6	amd64
	commandline package manager		
ii	apt-transport-https	2.0.6	all
	transitional package for https support		
ii	apt-utils	2.0.6	amd64
	package management related utility programs		
ii	at	3.1.23-1ubuntu1	amd64
	Delayed job execution and batch processing		
ii	at-spi2-core	2.36.0-2	amd64
	Assistive Technology Service Provider Interface (dbus core)		
ii	base-files	11ubuntu5.4	amd64
	Debian base system miscellaneous files		

ii base-passwd	3.5.47	amd64
Debian base system master password and group files		
ii bash	5.0-6ubuntu1.1	amd64
GNU Bourne Again SHell		
ii bash-completion	1:2.10-1ubuntu1	all
programmable completion for the bash shell		
ii bc	1.07.1-2build1	amd64
GNU bc arbitrary precision calculator language		
ii bcache-tools	1.0.8-3ubuntu0.1	amd64
bcache userspace tools		
ii bind9-dnsutils	1:9.16.1-0ubuntu2.9	amd64
Clients provided with BIND 9		
ii bind9-host	1:9.16.1-0ubuntu2.9	amd64
DNS Lookup Utility		
ii bind9-libs:amd64	1:9.16.1-0ubuntu2.9	amd64
Shared Libraries used by BIND 9		
ii bolt	0.8-4ubuntu1	amd64
system daemon to manage thunderbolt 3 devices		
ii bsdmainutils	11.1.2ubuntu3	amd64
collection of more utilities from FreeBSD		
ii bsdutils	1:2.34-0.1ubuntu9.1	amd64
basic utilities from 4.4BSD-Lite		
ii btrfs-progs	5.4.1-2	amd64
Checksumming Copy on Write Filesystem utilities		
ii busybox-initramfs	1:1.30.1-4ubuntu6.4	amd64
Standalone shell setup for initramfs		
ii busybox-static	1:1.30.1-4ubuntu6.4	amd64
Standalone rescue shell with tons of builtin utilities		
ii byobu	5.133-0ubuntu1	all
text window manager, shell multiplexer, integrated DevOps environment		
ii bzip2	1.0.8-2	amd64
high-quality block-sorting file compressor - utilities		
ii ca-certificates	20210119~20.04.2	all
Common CA certificates		
ii ca-certificates-java	20190405ubuntu1	all
Common CA certificates (JKS keystore)		
ii cloud-guest-utils	0.31-7-gd99b2d76-0ubuntu1	all
cloud guest utilities		
ii cloud-init	21.2-3-g899bfaa9-0ubuntu2~20.04.1	all
initialization and customization tool for cloud instances		
ii cloud-initramfs-copymods	0.45ubuntu1	all
copy initramfs modules into root filesystem for later use		
ii cloud-initramfs-dyn-netconf	0.45ubuntu1	all
write a network interface file in /run for BOOTIF		
ii command-not-found	20.04.4	all
Suggest installation of packages in interactive bash sessions		
ii console-setup	1.194ubuntu3	all
console font and keymap setup program		
ii console-setup-linux	1.194ubuntu3	all
Linux specific part of console-setup		
ii containerd.io	1.4.9-1	amd64
An open and reliable container runtime		
ii coreutils	8.30-3ubuntu2	amd64
GNU core utilities		
ii cpio	2.13+dfsg-2ubuntu0.3	amd64
GNU cpio -- a program to manage archives of files		
ii crda	3.18-1build1	amd64
wireless Central Regulatory Domain Agent		
ii cron	3.0pl11-136ubuntu1	amd64
process scheduling daemon		
ii cryptsetup	2:2.2.2-3ubuntu2.3	amd64
disk encryption support - startup scripts		
ii cryptsetup-bin	2:2.2.2-3ubuntu2.3	amd64
disk encryption support - command line tools		
ii cryptsetup-initramfs	2:2.2.2-3ubuntu2.3	all
disk encryption support - initramfs integration		
ii cryptsetup-run	2:2.2.2-3ubuntu2.3	all
transitional dummy package for cryptsetup		

ii curl	7.68.0-1ubuntu2.7	amd64
command line tool for transferring data with URL syntax		
ii dash	0.5.10.2-6	amd64
POSIX-compliant shell		
ii dbus	1.12.16-2ubuntu2.1	amd64
simple interprocess messaging system (daemon and utilities)		
ii dbus-user-session	1.12.16-2ubuntu2.1	amd64
simple interprocess messaging system (systemd --user integration)		
ii dconf-gsettings-backend:amd64	0.36.0-1	amd64
simple configuration storage system - GSettings back-end		
ii dconf-service	0.36.0-1	amd64
simple configuration storage system - D-Bus service		
ii debconf	1.5.73	all
Debian configuration management system		
ii debconf-i18n	1.5.73	all
full internationalization support for debconf		
ii debianutils	4.9.1	amd64
Miscellaneous utilities specific to Debian		
ii default-jdk	2:1.11-72	amd64
Standard Java or Java compatible Development Kit		
ii default-jdk-headless	2:1.11-72	amd64
Standard Java or Java compatible Development Kit (headless)		
ii default-jre	2:1.11-72	amd64
Standard Java or Java compatible Runtime		
ii default-jre-headless	2:1.11-72	amd64
Standard Java or Java compatible Runtime (headless)		
ii diffutils	1:3.7-3	amd64
File comparison utilities		
ii dirmngr	2.2.19-3ubuntu2.1	amd64
GNU privacy guard - network certificate management service		
ii distro-info	0.23ubuntu1	amd64
provides information about the distributions' releases		
ii distro-info-data	0.43ubuntu1.9	all
information about the distributions' releases (data files)		
ii dmeventd	2:1.02.167-1ubuntu1	amd64
Linux Kernel Device Mapper event daemon		
ii dmidecode	3.2-3	amd64
SMBIOS/DMI table decoder		
ii dmsetup	2:1.02.167-1ubuntu1	amd64
Linux Kernel Device Mapper userspace library		
ii docker-ce	5:20.10.8~3-0~ubuntu-focal	amd64
Docker: the open-source application container engine		
ii docker-ce-cli	5:20.10.8~3-0~ubuntu-focal	amd64
Docker CLI: the open-source application container engine		
ii docker-ce-rootless-extras	5:20.10.8~3-0~ubuntu-focal	amd64
Rootless support for Docker.		
ii docker-scan-plugin	0.8.0~ubuntu-focal	amd64
Docker scan cli plugin.		
ii dosfstools	4.1-2	amd64
utilities for making and checking MS-DOS FAT filesystems		
ii dpkg	1.19.7ubuntu3	amd64
Debian package management system		
ii e2fsprogs	1.45.5-2ubuntu1	amd64
ext2/ext3/ext4 file system utilities		
ii eatmydata	105-7	all
Library and utilities designed to disable fsync and friends		
ii ed	1.16-1	amd64
classic UNIX line editor		
ii eject	2.1.5+deb1+cvvs20081104-14	amd64
ejects CDs and operates CD-Changers under Linux		
ii ethtool	1:5.4-1	amd64
display or change Ethernet device settings		
ii fail2ban	0.11.1-1	all
ban hosts that cause multiple authentication errors		
ii fdisk	2.34-0.1ubuntu9.1	amd64
collection of partitioning utilities		
ii file	1:5.38-4	amd64
Recognize the type of data in a file using "magic" numbers		

ii finalrd	6~ubuntu20.04.1	all
final runtime directory for shutdown		
ii findutils	4.7.0-1ubuntu1	amd64
utilities for finding files--find, xargs		
ii fontconfig-config	2.13.1-2ubuntu3	all
generic font configuration library - configuration		
ii fonts-dejavu-core	2.37-1	all
Vera font family derivate with additional characters		
ii fonts-dejavu-extra	2.37-1	all
Vera font family derivate with additional characters (extra variants)		
ii fonts-ubuntu-console	0.83-4ubuntu1	all
console version of the Ubuntu Mono font		
ii friendly-recovery	0.2.41ubuntu0.20.04.1	all
Make recovery boot mode more user-friendly		
ii ftp	0.17-34.1	amd64
classical file transfer client		
ii fuse	2.9.9-3	amd64
Filesystem in Userspace		
ii fwupd	1.5.11-0ubuntu1~20.04.2	amd64
Firmware update daemon		
ii fwupd-signed	1.27.1ubuntu5+1.5.11-0ubuntu1~20.04.2	amd64
Linux Firmware Updater EFI signed binary		
ii gawk	1:5.0.1+dfsg-1	amd64
GNU awk, a pattern scanning and processing language		
ii gcc-10-base:amd64	10.3.0-1ubuntu1~20.04	amd64
GCC, the GNU Compiler Collection (base package)		
ii gdisk	1.0.5-1	amd64
GPT fdisk text-mode partitioning tool		
ii gettext-base	0.19.8.1-10build1	amd64
GNU Internationalization utilities for the base system		
ii glib-2.0:amd64	1.64.1-1~ubuntu20.04.1	amd64
Introspection data for GLib, GObject, Gio and GModule		
ii glib-2.0:amd64	1.1.13-2ubuntu1.1	amd64
GObject introspection data for the PackageKit GLib library		
ii git	1:2.25.1-1ubuntu3.2	amd64
fast, scalable, distributed revision control system		
ii git-man	1:2.25.1-1ubuntu3.2	all
fast, scalable, distributed revision control system (manual pages)		
ii glib-networking:amd64	2.64.2-1ubuntu0.1	amd64
network-related giomodels for GLib		
ii glib-networking-common	2.64.2-1ubuntu0.1	all
network-related giomodels for GLib - data files		
ii glib-networking-services	2.64.2-1ubuntu0.1	amd64
network-related giomodels for GLib - D-Bus services		
ii gnupg	2.2.19-3ubuntu2.1	all
GNU privacy guard - a free PGP replacement		
ii gnupg-l10n	2.2.19-3ubuntu2.1	all
GNU privacy guard - localization files		
ii gnupg-utils	2.2.19-3ubuntu2.1	amd64
GNU privacy guard - utility programs		
ii gpg	2.2.19-3ubuntu2.1	amd64
GNU Privacy Guard -- minimalist public key operations		
ii gpg-agent	2.2.19-3ubuntu2.1	amd64
GNU privacy guard - cryptographic agent		
ii gpg-wks-client	2.2.19-3ubuntu2.1	amd64
GNU privacy guard - Web Key Service client		
ii gpg-wks-server	2.2.19-3ubuntu2.1	amd64
GNU privacy guard - Web Key Service server		
ii gpgconf	2.2.19-3ubuntu2.1	amd64
GNU privacy guard - core configuration utilities		
ii gpgsm	2.2.19-3ubuntu2.1	amd64
GNU privacy guard - S/MIME version		
ii gpgv	2.2.19-3ubuntu2.1	amd64
GNU privacy guard - signature verification tool		
ii grep	3.4-1	amd64
GNU grep, egrep and fgrep		
ii groff-base	1.22.4-4build1	amd64
GNU troff text-formatting system (base system components)		

ii grub-common	2.04-1ubuntu26.13	amd64
GRand Unified Bootloader (common files)		
ii grub-gfxpayload-lists	0.7	amd64
GRUB gfxpayload blacklist		
ii grub-pc	2.04-1ubuntu26.13	amd64
GRand Unified Bootloader, version 2 (PC/BIOS version)		
ii grub-pc-bin	2.04-1ubuntu26.13	amd64
GRand Unified Bootloader, version 2 (PC/BIOS modules)		
ii grub2-common	2.04-1ubuntu26.13	amd64
GRand Unified Bootloader (common files for version 2)		
ii gsettings-desktop-schemas	3.36.0-1ubuntu1	all
GSettings desktop-wide schemas		
ii gzip	1.10-0ubuntu4	amd64
GNU compression utilities		
ii hdparm	9.58+ds-4	amd64
tune hard disk parameters for high performance		
ii hostname	3.23	amd64
utility to set/show the host name or domain name		
ii htop	2.2.0-2build1	amd64
interactive processes viewer		
ii info	6.7.0.dfsg.2-5	amd64
Standalone GNU Info documentation browser		
ii init	1.57	amd64
metapackage ensuring an init system is installed		
ii init-system-helpers	1.57	all
helper tools for all init systems		
ii initramfs-tools	0.136ubuntu6.6	all
generic modular initramfs generator (automation)		
ii initramfs-tools-bin	0.136ubuntu6.6	amd64
binaries used by initramfs-tools		
ii initramfs-tools-core	0.136ubuntu6.6	all
generic modular initramfs generator (core tools)		
ii install-info	6.7.0.dfsg.2-5	amd64
Manage installed documentation in info format		
ii intel-microcode	3.20210608.0ubuntu0.20.04.1	amd64
Processor microcode firmware for Intel CPUs		
ii iproute2	5.5.0-1ubuntu1	amd64
networking and traffic control tools		
ii iptables	1.8.4-3ubuntu2	amd64
administration tools for packet filtering and NAT		
ii iputils-ping	3:20190709-3	amd64
Tools to test the reachability of network hosts		
ii iputils-tracepath	3:20190709-3	amd64
Tools to trace the network path to a remote host		
ii irqbalance	1.6.0-3ubuntu1	amd64
Daemon to balance interrupts for SMP systems		
ii isc-dhcp-client	4.4.1-2.1ubuntu5.20.04.2	amd64
DHCP client for automatically obtaining an IP address		
ii isc-dhcp-common	4.4.1-2.1ubuntu5.20.04.2	amd64
common manpages relevant to all of the isc-dhcp packages		
ii iso-codes	4.4-1	all
ISO language, territory, currency, script codes and their translations		
ii iucode-tool	2.3.1-1	amd64
Intel processor microcode tool		
ii iw	5.4-1	amd64
tool for configuring Linux wireless devices		
ii java-common	0.72	all
Base package for Java runtimes		
ii kbd	2.0.4-4ubuntu2	amd64
Linux console font and keytable utilities		
ii keyboard-configuration	1.194ubuntu3	all
system-wide keyboard preferences		
ii klibc-utils	2.0.7-1ubuntu5	amd64
small utilities built with klibc for early boot		
ii kmod	27-1ubuntu2	amd64
tools for managing Linux kernel modules		
ii kpartx	0.8.3-1ubuntu2	amd64
create device mappings for partitions		

ii krb5-locales	1.17-6ubuntu4.1	all
internationalization support for MIT Kerberos		
ii landscape-common	19.12-0ubuntu4.2	amd64
Landscape administration system client - Common files		
ii language-selector-common	0.204.2	all
Language selector for Ubuntu		
ii less	551-1ubuntu0.1	amd64
pager program similar to more		
ii libaccounts-service0:amd64	0.6.55-0ubuntu12~20.04.5	amd64
query and manipulate user account information - shared libraries		
ii libacl1:amd64	2.2.53-6	amd64
access control list - shared library		
ii libaio1:amd64	0.3.112-5	amd64
Linux kernel AIO access library - shared library		
ii libapparmor1:amd64	2.13.3-7ubuntu5.1	amd64
changehat AppArmor library		
ii libappstream4:amd64	0.12.10-2	amd64
Library to access AppStream services		
ii libapt-pkg6.0:amd64	2.0.6	amd64
package management runtime library		
ii libarchive13:amd64	3.4.0-2ubuntu1	amd64
Multi-format archive and compression library (shared library)		
ii libargon2-1:amd64	0~20171227-0.2	amd64
memory-hard hashing function - runtime library		
ii libasn1-8-heimdal:amd64	7.7.0+dfsg-1ubuntu1	amd64
Heimdal Kerberos - ASN.1 library		
ii libasound2:amd64	1.2.2-2.1ubuntu2.4	amd64
shared library for ALSA applications		
ii libasound2-data	1.2.2-2.1ubuntu2.4	all
Configuration files and profiles for ALSA drivers		
ii libassuan0:amd64	2.5.3-7ubuntu2	amd64
IPC library for the GnuPG components		
ii libatasmart4:amd64	0.19-5	amd64
ATA S.M.A.R.T. reading and parsing library		
ii libatk-bridge2.0-0:amd64	2.34.2-0ubuntu2~20.04.1	amd64
AT-SPI 2 toolkit bridge - shared library		
ii libatk-wrapper-java	0.37.1-1	all
ATK implementation for Java using JNI		
ii libatk-wrapper-java-jni:amd64	0.37.1-1	amd64
ATK implementation for Java using JNI (JNI bindings)		
ii libatk1.0-0:amd64	2.35.1-1ubuntu2	amd64
ATK accessibility toolkit		
ii libatk1.0-data	2.35.1-1ubuntu2	all
Common files for the ATK accessibility toolkit		
ii libatm1:amd64	1:2.5.1-4	amd64
shared library for ATM (Asynchronous Transfer Mode)		
ii libatspi2.0-0:amd64	2.36.0-2	amd64
Assistive Technology Service Provider Interface - shared library		
ii libattr1:amd64	1:2.4.48-5	amd64
extended attribute handling - shared library		
ii libaudit-common	1:2.8.5-2ubuntu6	all
Dynamic library for security auditing - common files		
ii libaudit1:amd64	1:2.8.5-2ubuntu6	amd64
Dynamic library for security auditing		
ii libavahi-client3:amd64	0.7-4ubuntu7.1	amd64
Avahi client library		
ii libavahi-common-data:amd64	0.7-4ubuntu7.1	amd64
Avahi common data files		
ii libavahi-common3:amd64	0.7-4ubuntu7.1	amd64
Avahi common library		
ii libblkid1:amd64	2.34-0.1ubuntu9.1	amd64
block device ID library		
ii libblockdev-crypto2:amd64	2.23-2ubuntu3	amd64
Crypto plugin for libblockdev		
ii libblockdev-fs2:amd64	2.23-2ubuntu3	amd64
file system plugin for libblockdev		
ii libblockdev-loop2:amd64	2.23-2ubuntu3	amd64
Loop device plugin for libblockdev		



ii libblockdev-part-err2:amd64	2.23-2ubuntu3	amd64
Partition error utility functions for libblockdev		
ii libblockdev-part2:amd64	2.23-2ubuntu3	amd64
Partitioning plugin for libblockdev		
ii libblockdev-swap2:amd64	2.23-2ubuntu3	amd64
Swap plugin for libblockdev		
ii libblockdev-utils2:amd64	2.23-2ubuntu3	amd64
Utility functions for libblockdev		
ii libblockdev2:amd64	2.23-2ubuntu3	amd64
Library for manipulating block devices		
ii libbrotli1:amd64	1.0.7-6ubuntu0.1	amd64
library implementing brotli encoder and decoder (shared libraries)		
ii libbsd0:amd64	0.10.0-1	amd64
utility functions from BSD systems - shared library		
ii libbz2-1.0:amd64	1.0.8-2	amd64
high-quality block-sorting file compressor library - runtime		
ii libc-bin	2.31-0ubuntu9.2	amd64
GNU C Library: Binaries		
ii libc6:amd64	2.31-0ubuntu9.2	amd64
GNU C Library: Shared libraries		
ii libcanberra0:amd64	0.30-7ubuntu1	amd64
simple abstract interface for playing event sounds		
ii libcap-ng0:amd64	0.7.9-2.1build1	amd64
An alternate POSIX capabilities library		
ii libcap2:amd64	1:2.32-1	amd64
POSIX 1003.1e capabilities (library)		
ii libcap2-bin	1:2.32-1	amd64
POSIX 1003.1e capabilities (utilities)		
ii libcbor0.6:amd64	0.6.0-0ubuntu1	amd64
library for parsing and generating CBOR (RFC 7049)		
ii libcom-err2:amd64	1.45.5-2ubuntu1	amd64
common error description library		
ii libcrypt1:amd64	1:4.4.10-10ubuntu4	amd64
libcrypt shared library		
ii libcryptsetup12:amd64	2:2.2.2-3ubuntu2.3	amd64
disk encryption support - shared library		
ii libcups2:amd64	2.3.1-9ubuntu1.1	amd64
Common UNIX Printing System(tm) - Core library		
ii libcurl3-gnutls:amd64	7.68.0-1ubuntu2.7	amd64
easy-to-use client-side URL transfer library (GnuTLS flavour)		
ii libcurl4:amd64	7.68.0-1ubuntu2.7	amd64
easy-to-use client-side URL transfer library (OpenSSL flavour)		
ii libdb5.3:amd64	5.3.28+dfsg1-0.6ubuntu2	amd64
Berkeley v5.3 Database Libraries [runtime]		
ii libdbus-1-3:amd64	1.12.16-2ubuntu2.1	amd64
simple interprocess messaging system (library)		
ii libdbus-glib-1-2:amd64	0.110-5fakessync1	amd64
deprecated library for D-Bus IPC		
ii libdconf1:amd64	0.36.0-1	amd64
simple configuration storage system - runtime library		
ii libdebconfclient0:amd64	0.251ubuntu1	amd64
Debian Configuration Management System (C-implementation library)		
ii libdevmapper-event1.02.1:amd64	2:1.02.167-1ubuntu1	amd64
Linux Kernel Device Mapper event support library		
ii libdevmapper1.02.1:amd64	2:1.02.167-1ubuntu1	amd64
Linux Kernel Device Mapper userspace library		
ii libdns-export1109	1:9.11.16+dfsg-3~ubuntu1	amd64
Exported DNS Shared Library		
ii libdrm-amdgpu1:amd64	2.4.105-3~20.04.2	amd64
Userspace interface to amdgpu-specific kernel DRM services -- runtime		
ii libdrm-common	2.4.105-3~20.04.2	all
Userspace interface to kernel DRM services -- common files		
ii libdrm-intel1:amd64	2.4.105-3~20.04.2	amd64
Userspace interface to intel-specific kernel DRM services -- runtime		
ii libdrm-nouveau2:amd64	2.4.105-3~20.04.2	amd64
Userspace interface to nouveau-specific kernel DRM services -- runtime		
ii libdrm-radeon1:amd64	2.4.105-3~20.04.2	amd64
Userspace interface to radeon-specific kernel DRM services -- runtime		

ii libdrm2:amd64	2.4.105-3~20.04.2	amd64
Userspace interface to kernel DRM services -- runtime		
ii libeatmydata:amd64	105-7	amd64
Library and utilities to disable fsync and friends - shared library		
ii libedit2:amd64	3.1-20191231-1	amd64
BSD editline and history libraries		
ii libefiboot1:amd64	37-2ubuntu2.2	amd64
Library to manage UEFI variables		
ii libefivar1:amd64	37-2ubuntu2.2	amd64
Library to manage UEFI variables		
ii libelf1:amd64	0.176-1.1build1	amd64
library to read and write ELF files		
ii liberror-perl	0.17029-1	all
Perl module for error/exception handling in an OO-ish way		
ii libestr0:amd64	0.1.10-2.1	amd64
Helper functions for handling strings (lib)		
ii libevdev2:amd64	1.9.0+dfsg-1ubuntu0.1	amd64
wrapper library for evdev devices		
ii libevent-2.1-7:amd64	2.1.11-stable-1	amd64
Asynchronous event notification library		
ii libexpat1:amd64	2.2.9-1build1	amd64
XML parsing C library - runtime library		
ii libext2fs2:amd64	1.45.5-2ubuntu1	amd64
ext2/ext3/ext4 file system libraries		
ii libfastjson4:amd64	0.99.8-2	amd64
fast json library for C		
ii libfdisk1:amd64	2.34-0.1ubuntu9.1	amd64
fdisk partitioning library		
ii libffi7:amd64	3.3-4	amd64
Foreign Function Interface library runtime		
ii libfido2-1:amd64	1.3.1-1ubuntu2	amd64
library for generating and verifying FIDO 2.0 objects		
ii libfl2:amd64	2.6.4-6.2	amd64
SHARED library for flex (a fast lexical analyzer generator)		
ii libfontconfig1:amd64	2.13.1-2ubuntu3	amd64
generic font configuration library - runtime		
ii libfontenc1:amd64	1:1.1.4-0ubuntu1	amd64
X11 font encoding library		
ii libfreetype6:amd64	2.10.1-2ubuntu0.1	amd64
FreeType 2 font engine, shared library files		
ii libfribidi0:amd64	1.0.8-2	amd64
Free Implementation of the Unicode BiDi algorithm		
ii libfuse2:amd64	2.9.9-3	amd64
Filesystem in Userspace (library)		
ii libfwupd2:amd64	1.5.11-0ubuntu1~20.04.2	amd64
Firmware update daemon library		
ii libfwupdplugin1:amd64	1.5.11-0ubuntu1~20.04.2	amd64
Firmware update daemon plugin library		
ii libgcab-1.0-0:amd64	1.4-1	amd64
Microsoft Cabinet file manipulation library		
ii libgcc-s1:amd64	10.3.0-1ubuntu1~20.04	amd64
GCC support library		
ii libgcrypt20:amd64	1.8.5-5ubuntu1.1	amd64
LGPL Crypto library - runtime library		
ii libgdbm-compat4:amd64	1.18.1-5	amd64
GNU dbm database routines (legacy support runtime version)		
ii libgdbm6:amd64	1.18.1-5	amd64
GNU dbm database routines (runtime version)		
ii libgif7:amd64	5.1.9-1	amd64
library for GIF images (library)		
ii libgirepository-1.0-1:amd64	1.64.1-1~ubuntu20.04.1	amd64
Library for handling GObject introspection data (runtime library)		
ii libgll:amd64	1.3.2-1~ubuntu0.20.04.1	amd64
Vendor neutral GL dispatch library -- legacy GL support		
ii libgll-mesa-dri:amd64	21.0.3-0ubuntu0.3~20.04.2	amd64
free implementation of the OpenGL API -- DRI modules		
ii libglapi-mesa:amd64	21.0.3-0ubuntu0.3~20.04.2	amd64
free implementation of the GL API -- shared library		

ii libglib2.0-0:amd64	2.64.6-1~ubuntu20.04.4	amd64
GLib library of C routines		
ii libglib2.0-bin	2.64.6-1~ubuntu20.04.4	amd64
Programs for the GLib library		
ii libglib2.0-data	2.64.6-1~ubuntu20.04.4	all
Common files for GLib library		
ii libglvnd0:amd64	1.3.2-1~ubuntu0.20.04.1	amd64
Vendor neutral GL dispatch library		
ii libglx-mesa0:amd64	21.0.3-0ubuntu0.3~20.04.2	amd64
free implementation of the OpenGL API -- GLX vendor library		
ii libglx0:amd64	1.3.2-1~ubuntu0.20.04.1	amd64
Vendor neutral GL dispatch library -- GLX support		
ii libgmp10:amd64	2:6.2.0+dfsg-4	amd64
Multiprecision arithmetic library		
ii libgnutls30:amd64	3.6.13-2ubuntu1.6	amd64
GNU TLS library - main runtime library		
ii libgpg-error0:amd64	1.37-1	amd64
GnuPG development runtime library		
ii libgpgme11:amd64	1.13.1-7ubuntu2	amd64
GPGME - GnuPG Made Easy (library)		
ii libgpm2:amd64	1.20.7-5	amd64
General Purpose Mouse - shared library		
ii libgraphite2-3:amd64	1.3.13-11build1	amd64
Font rendering engine for Complex Scripts -- library		
ii libgssapi-krb5-2:amd64	1.17-6ubuntu4.1	amd64
MIT Kerberos runtime libraries - krb5 GSS-API Mechanism		
ii libgssapi3-heimdal:amd64	7.7.0+dfsg-1ubuntu1	amd64
Heimdal Kerberos - GSSAPI support library		
ii libgstreamer1.0-0:amd64	1.16.2-2	amd64
Core GStreamer libraries and elements		
ii libgudev-1.0-0:amd64	1:233-1	amd64
GObject-based wrapper library for libudev		
ii libgusb2:amd64	0.3.4-0.1	amd64
GLib wrapper around libusb1		
ii libharfbuzz0b:amd64	2.6.4-1ubuntu4	amd64
OpenType text shaping engine (shared library)		
ii libhcrypto4-heimdal:amd64	7.7.0+dfsg-1ubuntu1	amd64
Heimdal Kerberos - crypto library		
ii libheimbase1-heimdal:amd64	7.7.0+dfsg-1ubuntu1	amd64
Heimdal Kerberos - Base library		
ii libheimntlm0-heimdal:amd64	7.7.0+dfsg-1ubuntu1	amd64
Heimdal Kerberos - NTLM support library		
ii libhogweed5:amd64	3.5.1+really3.5.1-2ubuntu0.2	amd64
low level cryptographic library (public-key cryptos)		
ii libhx509-5-heimdal:amd64	7.7.0+dfsg-1ubuntu1	amd64
Heimdal Kerberos - X509 support library		
ii libice-dev:amd64	2:1.0.10-0ubuntu1	amd64
X11 Inter-Client Exchange library (development headers)		
ii libice6:amd64	2:1.0.10-0ubuntu1	amd64
X11 Inter-Client Exchange library		
ii libicu66:amd64	66.1-2ubuntu2.1	amd64
International Components for Unicode		
ii libidn2-0:amd64	2.2.0-2	amd64
Internationalized domain names (IDNA2008/TR46) library		
ii libimobiledevice6:amd64	1.2.1~git20191129.9f79242-1build1	amd64
Library for communicating with iPhone and other Apple devices		
ii libip4tc2:amd64	1.8.4-3ubuntu2	amd64
netfilter libip4tc library		
ii libip6tc2:amd64	1.8.4-3ubuntu2	amd64
netfilter libip6tc library		
ii libisc-export1105:amd64	1:9.11.16+dfsg-3~ubuntu1	amd64
Exported ISC Shared Library		
ii libisns0:amd64	0.97-3	amd64
Internet Storage Name Service - shared libraries		
ii libjcat1:amd64	0.1.3-2~ubuntu20.04.1	amd64
JSON catalog library		
ii libjpeg-turbo8:amd64	2.0.3-0ubuntu1.20.04.1	amd64
IJG JPEG compliant runtime library.		

ii libjpeg8:amd64	8c-2ubuntu8	amd64
Independent JPEG Group's JPEG runtime library (dependency package)		
ii libjson-c4:amd64	0.13.1+dfsg-7ubuntu0.3	amd64
JSON manipulation library - shared library		
ii libjson-glib-1.0-0:amd64	1.4.4-2ubuntu2	amd64
GLib JSON manipulation library		
ii libjson-glib-1.0-common	1.4.4-2ubuntu2	all
GLib JSON manipulation library (common files)		
ii libk5crypto3:amd64	1.17-6ubuntu4.1	amd64
MIT Kerberos runtime libraries - Crypto Library		
ii libkeyutils1:amd64	1.6-6ubuntu1	amd64
Linux Key Management Utilities (library)		
ii libklibc:amd64	2.0.7-1ubuntu5	amd64
minimal libc subset for use with initramfs		
ii libkmod2:amd64	27-1ubuntu2	amd64
libkmod shared library		
ii libkrb5-26-heimdal:amd64	7.7.0+dfsg-1ubuntu1	amd64
Heimdal Kerberos - libraries		
ii libkrb5-3:amd64	1.17-6ubuntu4.1	amd64
MIT Kerberos runtime libraries		
ii libkrb5support0:amd64	1.17-6ubuntu4.1	amd64
MIT Kerberos runtime libraries - Support library		
ii libksba8:amd64	1.3.5-2	amd64
X.509 and CMS support library		
ii liblcms2-2:amd64	2.9-4	amd64
Little CMS 2 color management library		
ii libldap-2.4-2:amd64	2.4.49+dfsg-2ubuntu1.8	amd64
OpenLDAP libraries		
ii libldap-common	2.4.49+dfsg-2ubuntu1.8	all
OpenLDAP common files for libraries		
ii libllvm12:amd64	1:12.0.0-3ubuntu1~20.04.4	amd64
Modular compiler and toolchain technologies, runtime library		
ii liblmbd0:amd64	0.9.24-1	amd64
Lightning Memory-Mapped Database shared library		
ii liblocale-gettext-perl	1.07-4	amd64
module using libc functions for internationalization in Perl		
ii libltdl7:amd64	2.4.6-14	amd64
System independent dlopen wrapper for GNU libtool		
ii liblvm2cmd2.03:amd64	2.03.07-1ubuntu1	amd64
LVM2 command library		
ii liblz4-1:amd64	1.9.2-2ubuntu0.20.04.1	amd64
Fast LZ compression algorithm library - runtime		
ii liblzma5:amd64	5.2.4-1ubuntu1	amd64
XZ-format compression library		
ii liblz02-2:amd64	2.10-2	amd64
data compression library		
ii libmagic-mgc	1:5.38-4	amd64
File type determination library using "magic" numbers (compiled magic file)		
ii libmagic1:amd64	1:5.38-4	amd64
Recognize the type of data in a file using "magic" numbers - library		
ii libmaxminddb0:amd64	1.4.2-0ubuntu1.20.04.1	amd64
IP geolocation database library		
ii libmnl0:amd64	1.0.4-2	amd64
minimalistic Netlink communication library		
ii libmount1:amd64	2.34-0.1ubuntu9.1	amd64
device mounting library		
ii libmpdec2:amd64	2.4.2-3	amd64
library for decimal floating point arithmetic (runtime library)		
ii libmpfr6:amd64	4.0.2-1	amd64
multiple precision floating-point computation		
ii libmspack0:amd64	0.10.1-2	amd64
library for Microsoft compression formats (shared library)		
ii libncurses6:amd64	6.2-0ubuntu2	amd64
shared libraries for terminal handling		
ii libncursesw6:amd64	6.2-0ubuntu2	amd64
shared libraries for terminal handling (wide character support)		
ii libnetfilter-contrack3:amd64	1.0.7-2	amd64
Netfilter netlink-contrack library		

ii libnetplan0:amd64	0.102-0ubuntu1~20.04.2	amd64
YAML network configuration abstraction runtime library		
ii libnettle7:amd64	3.5.1+really3.5.1-2ubuntu0.2	amd64
low level cryptographic library (symmetric and one-way cryptos)		
ii libnewt0.52:amd64	0.52.21-4ubuntu2	amd64
Not Erik's Windowing Toolkit - text mode windowing with slang		
ii libnfnetworklink0:amd64	1.0.1-3build1	amd64
Netfilter netlink library		
ii libnftnl11:amd64	1.1.5-1	amd64
Netfilter nftables userspace API library		
ii libnghttp2-14:amd64	1.40.0-1build1	amd64
library implementing HTTP/2 protocol (shared library)		
ii libnl-3-200:amd64	3.4.0-1	amd64
library for dealing with netlink sockets		
ii libnl-genl-3-200:amd64	3.4.0-1	amd64
library for dealing with netlink sockets - generic netlink		
ii libnpt0:amd64	1.6-1	amd64
replacement for GNU Pth using system threads		
ii libnspr4:amd64	2:4.25-1	amd64
NetScape Portable Runtime Library		
ii libnss-systemd:amd64	245.4-4ubuntu3.15	amd64
nss module providing dynamic user and group name resolution		
ii libnss3:amd64	2:3.49.1-1ubuntu1.6	amd64
Network Security Service libraries		
ii libntfs-3g883	1:2017.3.23AR.3-3ubuntu1.1	amd64
read/write NTFS driver for FUSE (runtime library)		
ii libnuma1:amd64	2.0.12-1	amd64
Libraries for controlling NUMA policy		
ii libogg0:amd64	1.3.4-0ubuntu1	amd64
Ogg bitstream library		
ii libp11-kit0:amd64	0.23.20-1ubuntu0.1	amd64
library for loading and coordinating access to PKCS#11 modules - runtime		
ii libpackagekit-glib2-18:amd64	1.1.13-2ubuntu1.1	amd64
Library for accessing PackageKit using GLib		
ii libpam-cap:amd64	1:2.32-1	amd64
POSIX 1003.1e capabilities (PAM module)		
ii libpam-modules:amd64	1.3.1-5ubuntu4.2	amd64
Pluggable Authentication Modules for PAM		
ii libpam-modules-bin	1.3.1-5ubuntu4.2	amd64
Pluggable Authentication Modules for PAM - helper binaries		
ii libpam-runtime	1.3.1-5ubuntu4.2	all
Runtime support for the PAM library		
ii libpam-systemd:amd64	245.4-4ubuntu3.15	amd64
system and service manager - PAM module		
ii libpam0g:amd64	1.3.1-5ubuntu4.2	amd64
Pluggable Authentication Modules library		
ii libparted-fs-resize0:amd64	3.3-4ubuntu0.20.04.1	amd64
disk partition manipulator - shared FS resizing library		
ii libparted2:amd64	3.3-4ubuntu0.20.04.1	amd64
disk partition manipulator - shared library		
ii libpcap0.8:amd64	1.9.1-3	amd64
system interface for user-level packet capture		
ii libpci3:amd64	1:3.6.4-1ubuntu0.20.04.1	amd64
PCI utilities (shared library)		
ii libpciaccess0:amd64	0.16-0ubuntu1	amd64
Generic PCI access library for X		
ii libpcre2-8-0:amd64	10.34-7	amd64
New Perl Compatible Regular Expression Library- 8 bit runtime files		
ii libpcre3:amd64	2:8.39-12build1	amd64
Old Perl 5 Compatible Regular Expression Library - runtime files		
ii libpcsclite1:amd64	1.8.26-3	amd64
Middleware to access a smart card using PC/SC (library)		
ii libperl5.30:amd64	5.30.0-9ubuntu0.2	amd64
shared Perl library		
ii libpipeline1:amd64	1.5.2-2build1	amd64
Unix process pipeline manipulation library		
ii libplist3:amd64	2.1.0-4build2	amd64
Library for handling Apple binary and XML property lists		

ii libplymouth5:amd64	0.9.4git20200323-0ubuntu6.2	amd64
graphical boot animation and logger - shared libraries		
ii libpng16-16:amd64	1.6.37-2	amd64
PNG library - runtime (version 1.6)		
ii libpolkit-agent-1-0:amd64	0.105-26ubuntu1.1	amd64
PolicyKit Authentication Agent API		
ii libpolkit-gobject-1-0:amd64	0.105-26ubuntu1.1	amd64
PolicyKit Authorization API		
ii libpopt0:amd64	1.16-14	amd64
lib for parsing cmdline parameters		
ii libprocps8:amd64	2:3.3.16-1ubuntu2.3	amd64
library for accessing process information from /proc		
ii libproxy1v5:amd64	0.4.15-10ubuntu1.2	amd64
automatic proxy configuration management library (shared)		
ii libps15:amd64	0.21.0-1ubuntu1	amd64
Library for Public Suffix List (shared libraries)		
ii libpthread-stubs0-dev:amd64	0.4-1	amd64
pthread stubs not provided by native libc, development files		
ii libpython3-stdlib:amd64	3.8.2-0ubuntu2	amd64
interactive high-level object-oriented language (default python3 version)		
ii libpython3.8:amd64	3.8.10-0ubuntu1~20.04.2	amd64
Shared Python runtime library (version 3.8)		
ii libpython3.8-minimal:amd64	3.8.10-0ubuntu1~20.04.2	amd64
Minimal subset of the Python language (version 3.8)		
ii libpython3.8-stdlib:amd64	3.8.10-0ubuntu1~20.04.2	amd64
Interactive high-level object-oriented language (standard library, version 3.8)		
ii libreadline5:amd64	5.2+dfsg-3build3	amd64
GNU readline and history libraries, run-time libraries		
ii libreadline8:amd64	8.0-4	amd64
GNU readline and history libraries, run-time libraries		
ii libroken18-heimdal:amd64	7.7.0+dfsg-1ubuntu1	amd64
Heimdal Kerberos - roken support library		
ii librtmp1:amd64	2.4+20151223.gitfa8646d.1-2build1	amd64
toolkit for RTMP streams (shared library)		
ii libsasl2-2:amd64	2.1.27+dfsg-2	amd64
Cyrus SASL - authentication abstraction library		
ii libsasl2-modules:amd64	2.1.27+dfsg-2	amd64
Cyrus SASL - pluggable authentication modules		
ii libsasl2-modules-db:amd64	2.1.27+dfsg-2	amd64
Cyrus SASL - pluggable authentication modules (DB)		
ii libseccomp2:amd64	2.5.1-1ubuntu1~20.04.2	amd64
high level interface to Linux seccomp filter		
ii libselinux1:amd64	3.0-1build2	amd64
SELinux runtime shared libraries		
ii libsemanage-common	3.0-1build2	all
Common files for SELinux policy management libraries		
ii libsemanage1:amd64	3.0-1build2	amd64
SELinux policy management library		
ii libsensors-config	1:3.6.0-2ubuntu1	all
lm-sensors configuration files		
ii libsensors5:amd64	1:3.6.0-2ubuntu1	amd64
library to read temperature/voltage/fan sensors		
ii libsepol1:amd64	3.0-1	amd64
SELinux library for manipulating binary security policies		
ii libsgutils2-2	1.44-1ubuntu2	amd64
utilities for devices using the SCSI command set (shared libraries)		
ii libsigsegv2:amd64	2.12-2	amd64
Library for handling page faults in a portable way		
ii libslang2:amd64	2.3.2-4	amd64
S-Lang programming library - runtime version		
ii libsm-dev:amd64	2:1.2.3-1	amd64
X11 Session Management library (development headers)		
ii libsm6:amd64	2:1.2.3-1	amd64
X11 Session Management library		
ii libsmartcols1:amd64	2.34-0.1ubuntu9.1	amd64
smart column output alignment library		
ii libsbios-c2	2.4.3-1	amd64
Provide access to (SM)BIOS information -- dynamic library		

ii	libsodium23:amd64	1.0.18-1	amd64
	Network communication, cryptography and signaturing library		
ii	libsoup2.4-1:amd64	2.70.0-1	amd64
	HTTP library implementation in C -- Shared library		
ii	libsqlite3-0:amd64	3.31.1-4ubuntu0.2	amd64
	SQLite 3 shared library		
ii	libss2:amd64	1.45.5-2ubuntu1	amd64
	command-line interface parsing library		
ii	libssh-4:amd64	0.9.3-2ubuntu2.2	amd64
	tiny C SSH library (OpenSSL flavor)		
ii	libssl1.1:amd64	1.1.1f-1ubuntu2.8	amd64
	Secure Sockets Layer toolkit - shared libraries		
ii	libstdc++6:amd64	10.3.0-1ubuntu1~20.04	amd64
	GNU Standard C++ Library v3		
ii	libstemmer0d:amd64	0+svn585-2	amd64
	Snowball stemming algorithms for use in Information Retrieval		
ii	libsystemd0:amd64	245.4-4ubuntu3.15	amd64
	systemd utility library		
ii	libtasn1-6:amd64	4.16.0-2	amd64
	Manage ASN.1 structures (runtime)		
ii	libtdb1:amd64	1.4.3-0ubuntu0.20.04.1	amd64
	Trivial Database - shared library		
ii	libtext-charwidth-perl	0.04-10	amd64
	get display widths of characters on the terminal		
ii	libtext-iconv-perl	1.7-7	amd64
	module to convert between character sets in Perl		
ii	libtext-wrapi18n-perl	0.06-9	all
	internationalized substitute of Text::Wrap		
ii	libtinfo6:amd64	6.2-0ubuntu2	amd64
	shared low-level terminfo library for terminal handling		
ii	libtss2-esys0	2.3.2-1	amd64
	TPM2 Software stack library - TSS and TCTI libraries		
ii	libuchardet0:amd64	0.0.6-3build1	amd64
	universal charset detection library - shared library		
ii	libudev1:amd64	245.4-4ubuntu3.15	amd64
	libudev shared library		
ii	libudisks2-0:amd64	2.8.4-1ubuntu2	amd64
	GObject based library to access udisks2		
ii	libunistring2:amd64	0.9.10-2	amd64
	Unicode string library for C		
ii	libunwind8:amd64	1.2.1-9build1	amd64
	library to determine the call-chain of a program - runtime		
ii	libupower-glib3:amd64	0.99.11-1build2	amd64
	abstraction for power management - shared library		
ii	liburcu6:amd64	0.11.1-2	amd64
	userspace RCU (read-copy-update) library		
ii	libusb-1.0-0:amd64	2:1.0.23-2build1	amd64
	userspace USB programming library		
ii	libusbmuxd6:amd64	2.0.1-2	amd64
	USB multiplexor daemon for iPhone and iPod Touch devices - library		
ii	libutempter0:amd64	1.1.6-4	amd64
	privileged helper for utmp/wtmp updates (runtime)		
ii	libuuid1:amd64	2.34-0.1ubuntu9.1	amd64
	Universally Unique ID library		
ii	libuv1:amd64	1.34.2-1ubuntu1.3	amd64
	asynchronous event notification library - runtime library		
ii	libvolume-key1	0.3.12-3.1	amd64
	Library for manipulating storage encryption keys and passphrases		
ii	libvorbis0a:amd64	1.3.6-2ubuntu1	amd64
	decoder library for Vorbis General Audio Compression Codec		
ii	libvorbisfile3:amd64	1.3.6-2ubuntu1	amd64
	high-level API for Vorbis General Audio Compression Codec		
ii	libvulkan1:amd64	1.2.131.2-1	amd64
	Vulkan loader library		
ii	libwayland-client0:amd64	1.18.0-1	amd64
	wayland compositor infrastructure - client library		
ii	libwind0-heimdal:amd64	7.7.0+dfsg-1ubuntu1	amd64
	Heimdal Kerberos - stringprep implementation		

ii libwrap0:amd64	7.6.q-30	amd64
Wietse Venema's TCP wrappers library		
ii libx11-6:amd64	2:1.6.9-2ubuntu1.2	amd64
X11 client-side library		
ii libx11-data	2:1.6.9-2ubuntu1.2	all
X11 client-side library		
ii libx11-dev:amd64	2:1.6.9-2ubuntu1.2	amd64
X11 client-side library (development headers)		
ii libx11-xcb1:amd64	2:1.6.9-2ubuntu1.2	amd64
Xlib/XCB interface library		
ii libxau-dev:amd64	1:1.0.9-0ubuntu1	amd64
X11 authorisation library (development headers)		
ii libxau6:amd64	1:1.0.9-0ubuntu1	amd64
X11 authorisation library		
ii libxaw7:amd64	2:1.0.13-1	amd64
X11 Athena Widget library		
ii libxcb-dri2-0:amd64	1.14-2	amd64
X C Binding, dri2 extension		
ii libxcb-dri3-0:amd64	1.14-2	amd64
X C Binding, dri3 extension		
ii libxcb-glx0:amd64	1.14-2	amd64
X C Binding, glx extension		
ii libxcb-present0:amd64	1.14-2	amd64
X C Binding, present extension		
ii libxcb-randr0:amd64	1.14-2	amd64
X C Binding, randr extension		
ii libxcb-shape0:amd64	1.14-2	amd64
X C Binding, shape extension		
ii libxcb-shm0:amd64	1.14-2	amd64
X C Binding, shm extension		
ii libxcb-sync1:amd64	1.14-2	amd64
X C Binding, sync extension		
ii libxcb-xfixes0:amd64	1.14-2	amd64
X C Binding, xfixes extension		
ii libxcb1:amd64	1.14-2	amd64
X C Binding		
ii libxcb1-dev:amd64	1.14-2	amd64
X C Binding, development files		
ii libxcompositel:amd64	1:0.4.5-1	amd64
X11 Composite extension library		
ii libxdmcp-dev:amd64	1:1.1.3-0ubuntu1	amd64
X11 authorisation library (development headers)		
ii libxdmcp6:amd64	1:1.1.3-0ubuntu1	amd64
X11 Display Manager Control Protocol library		
ii libxext6:amd64	2:1.3.4-0ubuntu1	amd64
X11 miscellaneous extension library		
ii libxfixes3:amd64	1:5.0.3-2	amd64
X11 miscellaneous 'fixes' extension library		
ii libxft2:amd64	2.3.3-0ubuntu1	amd64
FreeType-based font drawing library for X		
ii libxi6:amd64	2:1.7.10-0ubuntu1	amd64
X11 Input extension library		
ii libxinerama1:amd64	2:1.1.4-2	amd64
X11 Xinerama extension library		
ii libxkbfile1:amd64	1:1.1.0-1	amd64
X11 keyboard file manipulation library		
ii libxml2:amd64	2.9.10+dfsg-5ubuntu0.20.04.1	amd64
GNOME XML library		
ii libxmlbl1:amd64	0.1.15-2ubuntu1~20.04.1	amd64
Binary XML library		
ii libxmlsec1:amd64	1.2.28-2	amd64
XML security library		
ii libxmlsec1-openssl:amd64	1.2.28-2	amd64
Openssl engine for the XML security library		
ii libxmu6:amd64	2:1.1.3-0ubuntu1	amd64
X11 miscellaneous utility library		
ii libxmuu1:amd64	2:1.1.3-0ubuntu1	amd64
X11 miscellaneous micro-utility library		



ii libxpm4:amd64	1:3.5.12-1	amd64
X11 pixmap library		
ii libxrandr2:amd64	2:1.5.2-0ubuntu1	amd64
X11 RandR extension library		
ii libxrender1:amd64	1:0.9.10-1	amd64
X Rendering Extension client library		
ii libxshmfence1:amd64	1.3-1	amd64
X shared memory fences - shared library		
ii libxslt1.1:amd64	1.1.34-4	amd64
XSLT 1.0 processing library - runtime library		
ii libxt-dev:amd64	1:1.1.5-1	amd64
X11 toolkit intrinsics library (development headers)		
ii libxt6:amd64	1:1.1.5-1	amd64
X11 toolkit intrinsics library		
ii libxtables12:amd64	1.8.4-3ubuntu2	amd64
netfilter xtables library		
ii libxtst6:amd64	2:1.2.3-1	amd64
X11 Testing -- Record extension library		
ii libxv1:amd64	2:1.0.11-1	amd64
X11 Video extension library		
ii libxxf86dga1:amd64	2:1.1.5-0ubuntu1	amd64
X11 Direct Graphics Access extension library		
ii libxxf86vm1:amd64	1:1.1.4-1build1	amd64
X11 XFree86 video mode extension library		
ii libyaml-0-2:amd64	0.2.2-1	amd64
Fast YAML 1.1 parser and emitter library		
ii libzstd1:amd64	1.4.4+dfsg-3ubuntu0.1	amd64
fast lossless compression algorithm		
ii linux-base	4.5ubuntu3.6	all
Linux image base package		
ii linux-firmware	1.187.17	all
Firmware for Linux kernel drivers		
ii linux-generic	5.4.0.94.98	amd64
Complete Generic Linux kernel and headers		
ii linux-headers-5.4.0-86	5.4.0-86.97	all
Header files related to Linux kernel version 5.4.0		
ii linux-headers-5.4.0-86-generic	5.4.0-86.97	amd64
Linux kernel headers for version 5.4.0 on 64 bit x86 SMP		
ii linux-headers-5.4.0-92	5.4.0-92.103	all
Header files related to Linux kernel version 5.4.0		
ii linux-headers-5.4.0-92-generic	5.4.0-92.103	amd64
Linux kernel headers for version 5.4.0 on 64 bit x86 SMP		
ii linux-headers-5.4.0-94	5.4.0-94.106	all
Header files related to Linux kernel version 5.4.0		
ii linux-headers-5.4.0-94-generic	5.4.0-94.106	amd64
Linux kernel headers for version 5.4.0 on 64 bit x86 SMP		
ii linux-headers-generic	5.4.0.94.98	amd64
Generic Linux kernel headers		
ii linux-image-5.4.0-86-generic	5.4.0-86.97	amd64
Signed kernel image generic		
rc linux-image-5.4.0-88-generic	5.4.0-88.99	amd64
Signed kernel image generic		
rc linux-image-5.4.0-89-generic	5.4.0-89.100	amd64
Signed kernel image generic		
rc linux-image-5.4.0-90-generic	5.4.0-90.101	amd64
Signed kernel image generic		
rc linux-image-5.4.0-91-generic	5.4.0-91.102	amd64
Signed kernel image generic		
ii linux-image-5.4.0-92-generic	5.4.0-92.103	amd64
Signed kernel image generic		
ii linux-image-5.4.0-94-generic	5.4.0-94.106	amd64
Signed kernel image generic		
ii linux-image-generic	5.4.0.94.98	amd64
Generic Linux kernel image		
ii linux-modules-5.4.0-86-generic	5.4.0-86.97	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		
rc linux-modules-5.4.0-88-generic	5.4.0-88.99	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		

rc linux-modules-5.4.0-89-generic	5.4.0-89.100	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		
rc linux-modules-5.4.0-90-generic	5.4.0-90.101	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		
rc linux-modules-5.4.0-91-generic	5.4.0-91.102	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		
ii linux-modules-5.4.0-92-generic	5.4.0-92.103	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		
ii linux-modules-5.4.0-94-generic	5.4.0-94.106	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		
ii linux-modules-extra-5.4.0-86-generic	5.4.0-86.97	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		
rc linux-modules-extra-5.4.0-88-generic	5.4.0-88.99	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		
rc linux-modules-extra-5.4.0-89-generic	5.4.0-89.100	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		
rc linux-modules-extra-5.4.0-90-generic	5.4.0-90.101	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		
rc linux-modules-extra-5.4.0-91-generic	5.4.0-91.102	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		
ii linux-modules-extra-5.4.0-92-generic	5.4.0-92.103	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		
ii linux-modules-extra-5.4.0-94-generic	5.4.0-94.106	amd64
Linux kernel extra modules for version 5.4.0 on 64 bit x86 SMP		
ii locales	2.31-0ubuntu9.2	all
GNU C Library: National Language (locale) data [support]		
ii login	1:4.8.1-1ubuntu5.20.04.1	amd64
system login tools		
ii logrotate	3.14.0-4ubuntu3	amd64
Log rotation utility		
ii logsave	1.45.5-2ubuntu1	amd64
save the output of a command in a log file		
ii lsb-base	11.1.0ubuntu2	all
Linux Standard Base init script functionality		
ii lsb-release	11.1.0ubuntu2	all
Linux Standard Base version reporting utility		
ii lshw	02.18.85-0.3ubuntu2.20.04.1	amd64
information about hardware configuration		
ii lsof	4.93.2+dfsg-1ubuntu0.20.04.1	amd64
utility to list open files		
ii ltrace	0.7.3-6.1ubuntu1	amd64
Tracks runtime library calls in dynamically linked programs		
ii lvm2	2.03.07-1ubuntu1	amd64
Linux Logical Volume Manager		
ii lxd-agent-loader	0.4	all
LXD - VM agent loader		
ii lz4	1.9.2-2ubuntu0.20.04.1	amd64
Fast LZ compression algorithm library - tool		
ii man-db	2.9.1-1	amd64
tools for reading manual pages		
ii manpages	5.05-1	all
Manual pages about using a GNU/Linux system		
ii mawk	1.3.4.20200120-2	amd64
Pattern scanning and text processing language		
ii mdadm	4.1-5ubuntu1.2	amd64
tool to administer Linux MD arrays (software RAID)		
ii mesa-vulkan-drivers:amd64	21.0.3-0ubuntu0.3~20.04.2	amd64
Mesa Vulkan graphics drivers		
ii mime-support	3.64ubuntu1	all
MIME files 'mime.types' & 'mailcap', and support programs		
ii monitoring-plugins-basic	2.2-6ubuntu1.1	amd64
Plugins for nagios compatible monitoring systems (basic)		
ii monitoring-plugins-common	2.2-6ubuntu1.1	amd64
Common files for plugins for nagios compatible monitoring		
ii motd-news-config	11ubuntu5.4	all
Configuration for motd-news shipped in base-files		
ii mount	2.34-0.1ubuntu9.1	amd64
tools for mounting and manipulating filesystems		

ii mtr-tiny	0.93-1	amd64
Full screen ncurses traceroute tool		
ii multipath-tools	0.8.3-1ubuntu2	amd64
maintain multipath block device access		
ii nagios-nrpe-server	4.0.0-2ubuntu1	amd64
Nagios Remote Plugin Executor Server		
ii nano	4.8-1ubuntu1	amd64
small, friendly text editor inspired by Pico		
ii ncurses-base	6.2-0ubuntu2	all
basic terminal type definitions		
ii ncurses-bin	6.2-0ubuntu2	amd64
terminal-related programs and man pages		
ii ncurses-term	6.2-0ubuntu2	all
additional terminal type definitions		
ii netbase	6.1	all
Basic TCP/IP networking system		
ii netcat-openbsd	1.206-1ubuntu1	amd64
TCP/IP swiss army knife		
ii netplan.io	0.102-0ubuntu1~20.04.2	amd64
YAML network configuration abstraction for various backends		
ii networkd-dispatcher	2.1-2~ubuntu20.04.1	all
Dispatcher service for systemd-networkd connection status changes		
ii ntfs-3g	1:2017.3.23AR.3-3ubuntu1.1	amd64
read/write NTFS driver for FUSE		
ii open-iscsi	2.0.874-7.1ubuntu6.2	amd64
iSCSI initiator tools		
ii open-vm-tools	2:11.3.0-2ubuntu0~ubuntu20.04.1	amd64
Open VMware Tools for virtual machines hosted on VMware (CLI)		
ii openjdk-11-jdk:amd64	11.0.13+8-0ubuntu1~20.04	amd64
OpenJDK Development Kit (JDK)		
ii openjdk-11-jdk-headless:amd64	11.0.13+8-0ubuntu1~20.04	amd64
OpenJDK Development Kit (JDK) (headless)		
ii openjdk-11-jre:amd64	11.0.13+8-0ubuntu1~20.04	amd64
OpenJDK Java runtime, using Hotspot JIT		
ii openjdk-11-jre-headless:amd64	11.0.13+8-0ubuntu1~20.04	amd64
OpenJDK Java runtime, using Hotspot JIT (headless)		
ii openssh-client	1:8.2p1-4ubuntu0.3	amd64
secure shell (SSH) client, for secure access to remote machines		
ii openssh-server	1:8.2p1-4ubuntu0.3	amd64
secure shell (SSH) server, for secure access from remote machines		
ii openssh-sftp-server	1:8.2p1-4ubuntu0.3	amd64
secure shell (SSH) sftp server module, for SFTP access from remote machines		
ii openssl	1.1.1f-1ubuntu2.8	amd64
Secure Sockets Layer toolkit - cryptographic utility		
ii os-prober	1.74ubuntu2	amd64
utility to detect other OSes on a set of drives		
ii overlayroot	0.45ubuntu1	all
use an overlayfs on top of a read-only root filesystem		
ii packagekit	1.1.13-2ubuntu1.1	amd64
Provides a package management service		
ii packagekit-tools	1.1.13-2ubuntu1.1	amd64
Provides PackageKit command-line tools		
ii parted	3.3-4ubuntu0.20.04.1	amd64
disk partition manipulator		
ii passwd	1:4.8.1-1ubuntu5.20.04.1	amd64
change and administer password and group data		
ii pastebinit	1.5.1-1	all
command-line pastebin client		
ii patch	2.7.6-6	amd64
Apply a diff file to an original		
ii pci.ids	0.0~2020.03.20-1	all
PCI ID Repository		
ii pciutils	1:3.6.4-1ubuntu0.20.04.1	amd64
PCI utilities		
ii perl	5.30.0-9ubuntu0.2	amd64
Larry Wall's Practical Extraction and Report Language		
ii perl-base	5.30.0-9ubuntu0.2	amd64
minimal Perl system		

ii perl-modules-5.30	5.30.0-9ubuntu0.2	all
Core Perl modules		
ii pigz	2.4-1	amd64
Parallel Implementation of GZip		
ii pinentry-curses	1.1.0-3build1	amd64
curses-based PIN or pass-phrase entry dialog for GnuPG		
ii plymouth	0.9.4git20200323-0ubuntu6.2	amd64
boot animation, logger and I/O multiplexer		
ii plymouth-theme-ubuntu-text	0.9.4git20200323-0ubuntu6.2	amd64
boot animation, logger and I/O multiplexer - ubuntu text theme		
ii policykit-1	0.105-26ubuntu1.1	amd64
framework for managing administrative policies and privileges		
ii pollinate	4.33-3ubuntu1.20.04.1	all
seed the pseudo random number generator		
ii popularity-contest	1.69ubuntu1	all
Vote for your favourite packages automatically		
ii powermgmt-base	1.36	all
common utils for power management		
ii procps	2:3.3.16-1ubuntu2.3	amd64
/proc file system utilities		
ii psmisc	23.3-1	amd64
utilities that use the proc file system		
ii publicsuffix	20200303.0012-1	all
accurate, machine-readable list of domain name suffixes		
ii python-apt-common	2.0.0ubuntu0.20.04.6	all
Python interface to libapt-pkg (locales)		
ii python3	3.8.2-0ubuntu2	amd64
interactive high-level object-oriented language (default python3 version)		
ii python3-apport	2.20.11-0ubuntu27.21	all
Python 3 library for Apport crash report handling		
ii python3-apt	2.0.0ubuntu0.20.04.6	amd64
Python 3 interface to libapt-pkg		
ii python3-attr	19.3.0-2	all
Attributes without boilerplate (Python 3)		
ii python3-automat	0.8.0-1ubuntu1	all
Self-service finite-state machines for the programmer on the go		
ii python3-blinker	1.4+dfsg1-0.3ubuntu1	all
fast, simple object-to-object and broadcast signaling library		
ii python3-certifi	2019.11.28-1	all
root certificates for validating SSL certs and verifying TLS hosts (python3)		
ii python3-cffi-backend	1.14.0-1build1	amd64
Foreign Function Interface for Python 3 calling C code - runtime		
ii python3-charDET	3.0.4-4build1	all
universal character encoding detector for Python3		
ii python3-click	7.0-3	all
Wrapper around optparse for command line utilities - Python 3.x		
ii python3-colorama	0.4.3-1build1	all
Cross-platform colored terminal text in Python - Python 3.x		
ii python3-commandnotfound	20.04.4	all
Python 3 bindings for command-not-found.		
ii python3-configobj	5.0.6-4	all
simple but powerful config file reader and writer for Python 3		
ii python3-constantly	15.1.0-1build1	all
Symbolic constants in Python		
ii python3-cryptography	2.8-3ubuntu0.1	amd64
Python library exposing cryptographic recipes and primitives (Python 3)		
ii python3-dbus	1.2.16-1build1	amd64
simple interprocess messaging system (Python 3 interface)		
ii python3-debconf	1.5.73	all
interact with debconf from Python 3		
ii python3-debian	0.1.36ubuntu1	all
Python 3 modules to work with Debian-related data formats		
ii python3-distro	1.4.0-1	all
Linux OS platform information API		
ii python3-distro-info	0.23ubuntu1	all
information about distributions' releases (Python 3 module)		
ii python3-distupgrade	1:20.04.36	all
manage release upgrades		

ii python3-distutils	3.8.10-0ubuntu1~20.04	all
distutils package for Python 3.x		
ii python3-entrypoints	0.3-2ubuntu1	all
Discover and load entry points from installed packages (Python 3)		
ii python3-gdbm:amd64	3.8.10-0ubuntu1~20.04	amd64
GNU dbm database support for Python 3.x		
ii python3-gi	3.36.0-1	amd64
Python 3 bindings for GObject introspection libraries		
ii python3-hamcrest	1.9.0-3	all
Hamcrest framework for matcher objects (Python 3)		
ii python3-httplib2	0.14.0-1ubuntu1	all
comprehensive HTTP client library written for Python3		
ii python3-hyperlink	19.0.0-1	all
Immutable, Pythonic, correct URLs.		
ii python3-idna	2.8-1	all
Python IDNA2008 (RFC 5891) handling (Python 3)		
ii python3-importlib-metadata	1.5.0-1	all
library to access the metadata for a Python package - Python 3.x		
ii python3-incremental	16.10.1-3.2	all
Library for versioning Python projects.		
ii python3-jinja2	2.10.1-2	all
small but fast and easy to use stand-alone template engine		
ii python3-json-pointer	2.0-0ubuntu1	all
resolve JSON pointers - Python 3.x		
ii python3-jsonpatch	1.23-3	all
library to apply JSON patches - Python 3.x		
ii python3-jsonschema	3.2.0-0ubuntu2	all
An(other) implementation of JSON Schema (Draft 3 and 4) - Python 3.x		
ii python3-jwt	1.7.1-2ubuntu2	all
Python 3 implementation of JSON Web Token		
ii python3-keyring	18.0.1-2ubuntu1	all
store and access your passwords safely - Python 3 version of the package		
ii python3-launchpadlib	1.10.13-1	all
Launchpad web services client library (Python 3)		
ii python3-lazr.restfulclient	0.14.2-2build1	all
client for lazr.restful-based web services (Python 3)		
ii python3-lazr.uri	1.0.3-4build1	all
library for parsing, manipulating, and generating URIs		
ii python3-lib2to3	3.8.10-0ubuntu1~20.04	all
Interactive high-level object-oriented language (lib2to3)		
ii python3-markupsafe	1.1.0-1build2	amd64
HTML/XHTML/XML string library for Python 3		
ii python3-minimal	3.8.2-0ubuntu2	amd64
minimal subset of the Python language (default python3 version)		
ii python3-more-itertools	4.2.0-1build1	all
library with routines for operating on iterables, beyond itertools (Python 3)		
ii python3-nacl	1.3.0-5	amd64
Python bindings to libsodium (Python 3)		
ii python3-netifaces	0.10.4-1ubuntu4	amd64
portable network interface information - Python 3.x		
ii python3-newt:amd64	0.52.21-4ubuntu2	amd64
NEWT module for Python3		
ii python3-oauthlib	3.1.0-1ubuntu2	all
generic, spec-compliant implementation of OAuth for Python3		
ii python3-openssl	19.0.0-1build1	all
Python 3 wrapper around the OpenSSL library		
ii python3-pexpect	4.6.0-1build1	all
Python 3 module for automating interactive applications		
ii python3-pkg-resources	45.2.0-1	all
Package Discovery and Resource Access using pkg_resources		
ii python3-problem-report	2.20.11-0ubuntu27.21	all
Python 3 library to handle problem reports		
ii python3-ptyprocess	0.6.0-1ubuntu1	all
Run a subprocess in a pseudo terminal from Python 3		
ii python3-pyasn1	0.4.2-3build1	all
ASN.1 library for Python (Python 3 module)		
ii python3-pyasn1-modules	0.2.1-0.2build1	all
Collection of protocols modules written in ASN.1 language (Python 3)		

ii python3-pyinotify	0.9.6-1.2ubuntu1	all
simple Linux inotify Python bindings		
ii python3-pymacaroons	0.13.0-3	all
Macaroon library for Python 3		
ii python3-pyrsistent:amd64	0.15.5-1build1	amd64
persistent/functional/immutable data structures for Python		
ii python3-requests	2.22.0-2ubuntu1	all
elegant and simple HTTP library for Python3, built for human beings		
ii python3-requests-unixsocket	0.2.0-2	all
Use requests to talk HTTP via a UNIX domain socket - Python 3.x		
ii python3-secretstorage	2.3.1-2ubuntu1	all
Python module for storing secrets - Python 3.x version		
ii python3-serial	3.4-5.1	all
pyserial - module encapsulating access for the serial port		
ii python3-service-identity	18.1.0-5build1	all
Service identity verification for pyOpenSSL (Python 3 module)		
ii python3-setuptools	45.2.0-1	all
Python3 Distutils Enhancements		
ii python3-simplejson	3.16.0-2ubuntu2	amd64
simple, fast, extensible JSON encoder/decoder for Python 3.x		
ii python3-six	1.14.0-2	all
Python 2 and 3 compatibility library (Python 3 interface)		
ii python3-software-properties	0.98.9.5	all
manage the repositories that you install software from		
ii python3-systemd	234-3build2	amd64
Python 3 bindings for systemd		
ii python3-twisted	18.9.0-11ubuntu0.20.04.1	all
Event-based framework for internet applications		
ii python3-twisted-bin:amd64	18.9.0-11ubuntu0.20.04.1	amd64
Event-based framework for internet applications		
ii python3-update-manager	1:20.04.10.7	all
python 3.x module for update-manager		
ii python3-urllib3	1.25.8-2ubuntu0.1	all
HTTP library with thread-safe connection pooling for Python3		
ii python3-wadllib	1.3.3-3build1	all
Python 3 library for navigating WADL files		
ii python3-yaml	5.3.1-1ubuntu0.1	amd64
YAML parser and emitter for Python3		
ii python3-zipp	1.0.0-1	all
pathlib-compatible Zipfile object wrapper - Python 3.x		
ii python3-zope.interface	4.7.1-1	amd64
Interfaces for Python3		
ii python3.8	3.8.10-0ubuntu1~20.04.2	amd64
Interactive high-level object-oriented language (version 3.8)		
ii python3.8-minimal	3.8.10-0ubuntu1~20.04.2	amd64
Minimal subset of the Python language (version 3.8)		
ii qemu-guest-agent	1:4.2-3ubuntu6.17	amd64
Guest-side qemu-system agent		
ii readline-common	8.0-4	all
GNU readline and history libraries, common files		
ii rsync	3.1.3-8	amd64
fast, versatile, remote (and local) file-copying tool		
ii rsyslog	8.2001.0-1ubuntu1.1	amd64
reliable system and kernel logging daemon		
ii run-one	1.17-0ubuntu1	all
run just one instance of a command and its args at a time		
ii sbsigntool	0.9.2-2ubuntu1	amd64
Tools to manipulate signatures on UEFI binaries and drivers		
ii screen	4.8.0-1ubuntu0.1	amd64
terminal multiplexer with VT100/ANSI terminal emulation		
ii secureboot-db	1.5	amd64
Secure Boot updates for DB and DBX		
ii sed	4.7-1	amd64
GNU stream editor for filtering/transforming text		
ii sensible-utils	0.0.12+nmu1	all
Utilities for sensible alternative selection		
ii sg3-utils	1.44-1ubuntu2	amd64
utilities for devices using the SCSI command set		

ii sg3-utils-udev	1.44-1ubuntu2	all
utilities for devices using the SCSI command set (udev rules)		
ii shared-mime-info	1.15-1	amd64
FreeDesktop.org shared MIME database and spec		
ii slirp4netns	0.4.3-1	amd64
User-mode networking for unprivileged network namespaces		
ii snapd	2.51.1+20.04ubuntu2	amd64
Daemon and tooling that enable snap packages		
ii software-properties-common	0.98.9.5	all
manage the repositories that you install software from (common)		
ii sosreport	4.1-1ubuntu0.20.04.3	amd64
Set of tools to gather troubleshooting data from a system		
ii sound-theme-freedesktop	0.8-2ubuntu1	all
freedesktop.org sound theme		
ii squashfs-tools	1:4.4-1ubuntu0.3	amd64
Tool to create and append to squashfs filesystems		
ii ssh-import-id	5.10-0ubuntu1	all
securely retrieve an SSH public key and install it locally		
ii strace	5.5-3ubuntu1	amd64
System call tracer		
ii sudo	1.8.31-1ubuntu1.2	amd64
Provide limited super user privileges to specific users		
ii systemd	245.4-4ubuntu3.15	amd64
system and service manager		
ii systemd-sysv	245.4-4ubuntu3.15	amd64
system and service manager - SysV links		
ii systemd-timesyncd	245.4-4ubuntu3.15	amd64
minimalistic service to synchronize local time with NTP servers		
ii sysvinit-utils	2.96-2.1ubuntu1	amd64
System-V-like utilities		
ii tar	1.30+dfsg-7ubuntu0.20.04.1	amd64
GNU version of the tar archiving utility		
ii tcpdump	4.9.3-4	amd64
command-line network traffic analyzer		
ii telnet	0.17-41.2build1	amd64
basic telnet client		
ii thermald	1.9.1-1ubuntu0.6	amd64
Thermal monitoring and controlling daemon		
ii thin-provisioning-tools	0.8.5-4build1	amd64
Tools for handling thinly provisioned device-mapper meta-data		
ii time	1.7-25.1build1	amd64
GNU time program for measuring CPU resource usage		
ii tmux	3.0a-2ubuntu0.3	amd64
terminal multiplexer		
ii tpm-udev	0.4	all
udev rules for TPM modules		
ii tzdata	2021e-0ubuntu0.20.04	all
time zone and daylight-saving time data		
ii ubuntu-advantage-tools	27.2.2~20.04.1	amd64
management tools for Ubuntu Advantage		
ii ubuntu-keyring	2020.02.11.4	all
GnuPG keys of the Ubuntu archive		
ii ubuntu-minimal	1.450.2	amd64
Minimal core of Ubuntu		
ii ubuntu-release-upgrader-core	1:20.04.36	all
manage release upgrades		
ii ubuntu-server	1.450.2	amd64
The Ubuntu Server system		
ii ubuntu-standard	1.450.2	amd64
The Ubuntu standard system		
ii ucf	3.0038+nmu1	all
Update Configuration File(s): preserve user changes to config files		
ii udev	245.4-4ubuntu3.15	amd64
/dev/ and hotplug management daemon		
ii udisks2	2.8.4-1ubuntu2	amd64
D-Bus service to access and manipulate storage devices		
ii ufw	0.36-6	all
program for managing a Netfilter firewall		

ii unattended-upgrades	2.3ubuntu0.1	all
automatic installation of security upgrades		
ii update-manager-core	1:20.04.10.7	all
manage release upgrades		
ii update-notifier-common	3.192.30.9	all
Files shared between update-notifier and other packages		
ii upower	0.99.11-1build2	amd64
abstraction for power management		
ii usb.ids	2020.03.19-1	all
USB ID Repository		
ii usbmuxd	1.1.1~git20191130.9af2b12-1	amd64
USB multiplexor daemon for iPhone and iPod Touch devices		
ii usbutils	1:012-2	amd64
Linux USB utilities		
ii util-linux	2.34-0.1ubuntu9.1	amd64
miscellaneous system utilities		
ii uuid-runtime	2.34-0.1ubuntu9.1	amd64
runtime components for the Universally Unique ID library		
ii vim	2:8.1.2269-1ubuntu5.4	amd64
Vi IMproved - enhanced vi editor		
ii vim-common	2:8.1.2269-1ubuntu5.4	all
Vi IMproved - Common files		
ii vim-runtime	2:8.1.2269-1ubuntu5.4	all
Vi IMproved - Runtime files		
ii vim-tiny	2:8.1.2269-1ubuntu5.4	amd64
Vi IMproved - enhanced vi editor - compact version		
ii wget	1.20.3-1ubuntu1	amd64
retrieves files from the web		
ii whiptail	0.52.21-4ubuntu2	amd64
Displays user-friendly dialog boxes from shell scripts		
ii whois	5.5.6	amd64
intelligent WHOIS client		
ii wireless-regdb	2021.08.28-0ubuntu1~20.04.1	all
wireless regulatory database		
ii x11-common	1:7.7+19ubuntu14	all
X Window System (X.Org) infrastructure		
ii x11-utils	7.7+5	amd64
X11 utilities		
ii x11proto-core-dev	2019.2-1ubuntu1	all
transitional dummy package		
ii x11proto-dev	2019.2-1ubuntu1	all
X11 extension protocols and auxiliary headers		
ii xauth	1:1.1-0ubuntu1	amd64
X authentication utility		
ii xdg-user-dirs	0.17-2ubuntu1	amd64
tool to manage well known user directories		
ii xfsprogs	5.3.0-1ubuntu2	amd64
Utilities for managing the XFS filesystem		
ii xkb-data	2.29-2	all
X Keyboard Extension (XKB) configuration data		
ii xorg-sgml-doctools	1:1.11-1	all
Common tools for building X.Org SGML documentation		
ii xtrans-dev	1.4.0-1	all
X transport library (development files)		
ii xxd	2:8.1.2269-1ubuntu5.4	amd64
tool to make (or reverse) a hex dump		
ii xz-utils	5.2.4-1ubuntu1	amd64
XZ-format compression utilities		
ii zerofree	1.1.1-1	amd64
zero free blocks from ext2, ext3 and ext4 file-systems		
ii zlib1g:amd64	1:1.2.11.dfsg-2ubuntu1.2	amd64
compression library - runtime		

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## List of Installed Packages in Database Server

Installed Packages	
NetworkManager.x86_64	1:1.30.0-10.0.1.e18_4
@ol8_baseos_latest	
NetworkManager-libnm.x86_64	1:1.30.0-10.0.1.e18_4
@ol8_baseos_latest	
NetworkManager-libreswan.x86_64	1.2.10-4.e18
@AppStream	
NetworkManager-team.x86_64	1:1.30.0-10.0.1.e18_4
@ol8_baseos_latest	
NetworkManager-tui.x86_64	1:1.30.0-10.0.1.e18_4
@ol8_baseos_latest	
acl.x86_64	2.2.53-1.e18
@anaconda	
adobe-mappings-cmap.noarch	20171205-3.e18
@AppStream	
adobe-mappings-cmap-deprecated.noarch	20171205-3.e18
@AppStream	
adobe-mappings-pdf.noarch	20180407-1.e18
@AppStream	
annobin.x86_64	9.50-1.e18
@ol8_appstream	
asciidoc.noarch	8.6.10-0.5.20180627gitf7c2274.e18
@AppStream	
atk.x86_64	2.28.1-1.e18
@AppStream	
audit.x86_64	3.0-0.17.20191104git1c2f876.e18
@anaconda	
audit-libs.x86_64	3.0-0.17.20191104git1c2f876.e18
@anaconda	
authselect.x86_64	1.2.2-2.e18
@ol8_baseos_latest	
authselect-libs.x86_64	1.2.2-2.e18
@ol8_baseos_latest	
autoconf.noarch	2.69-27.e18
@AppStream	
automake.noarch	1.16.1-7.e18
@ol8_appstream	
avahi-libs.x86_64	0.7-20.e18
@ol8_baseos_latest	
baseSystem.noarch	11-5.e18
@anaconda	
bash.x86_64	4.4.20-1.e18_4
@ol8_baseos_latest	
bcache-tools.x86_64	1.0.8-3.101.0.1.e18
@anaconda	
bind-export-libs.x86_64	32:9.11.26-4.e18_4
@ol8_baseos_latest	
bind-libs.x86_64	32:9.11.26-4.e18_4
@ol8_appstream	
bind-libs-lite.x86_64	32:9.11.26-4.e18_4
@ol8_appstream	
bind-license.noarch	32:9.11.26-4.e18_4
@ol8_appstream	
bind-utils.x86_64	32:9.11.26-4.e18_4
@ol8_appstream	
binutils.x86_64	2.30-93.0.3.e18
@ol8_baseos_latest	
biosdevname.x86_64	0.7.3-2.e18
@anaconda	
bison.x86_64	3.0.4-10.e18
@AppStream	
boost-atomic.x86_64	1.66.0-10.e18
@AppStream	
boost-chrono.x86_64	1.66.0-10.e18
@AppStream	

boost-date-time.x86_64 @AppStream	1.66.0-10.e18
boost-filesystem.x86_64 @AppStream	1.66.0-10.e18
boost-regex.x86_64 @AppStream	1.66.0-10.e18
boost-system.x86_64 @AppStream	1.66.0-10.e18
boost-thread.x86_64 @AppStream	1.66.0-10.e18
boost-timer.x86_64 @AppStream	1.66.0-10.e18
brotli.x86_64 @ol8_baseos_latest	1.0.6-3.e18
btrfs-progs.x86_64 @ol8_UEKR6	5.12.1-1.e18
byacc.x86_64 @AppStream	1.9.20170709-4.e18
bzip2.x86_64 @anaconda	1.0.6-26.e18
bzip2-libs.x86_64 @anaconda	1.0.6-26.e18
c-ares.x86_64 @anaconda	1.13.0-5.e18
ca-certificates.noarch @anaconda	2020.2.41-80.0.e18_2
cairo.x86_64 @AppStream	1.15.12-3.e18
chkconfig.x86_64 @ol8_baseos_latest	1.13-2.0.1.e18
chrony.x86_64 @ol8_baseos_latest	3.5-2.0.1.e18
cifs-utils.x86_64 @anaconda	6.8-3.e18
copy-jdk-configs.noarch @AppStream	3.7-4.e18
coreutils.x86_64 @anaconda	8.30-8.0.1.e18
coreutils-common.x86_64 @anaconda	8.30-8.0.1.e18
cpio.x86_64 @ol8_baseos_latest	2.12-10.e18
cpp.x86_64 @ol8_appstream	8.4.1-1.0.3.e18
cracklib.x86_64 @anaconda	2.9.6-15.e18
cracklib-dicts.x86_64 @anaconda	2.9.6-15.e18
cronie.x86_64 @anaconda	1.5.2-4.e18
cronie-anacron.x86_64 @anaconda	1.5.2-4.e18
crontabs.noarch @ol8_baseos_latest	1.11-17.20190603git.e18
crypto-policies.noarch @ol8_baseos_latest	20210209-1.gitbfb6bed.e18_3
crypto-policies-scripts.noarch @ol8_baseos_latest	20210209-1.gitbfb6bed.e18_3
cryptsetup-libs.x86_64 @ol8_baseos_latest	2.3.3-4.e18
ctags.x86_64 @AppStream	5.8-22.e18
cups-libs.x86_64 @anaconda	1:2.2.6-38.e18
curl.x86_64 @ol8_baseos_latest	7.61.1-18.e18
cyrus-sasl-lib.x86_64 @anaconda	2.1.27-5.e18

dbus.x86_64	1:1.12.8-12.0.2.e18_4.2
@ol8_baseos_latest	
dbus-common.noarch	1:1.12.8-12.0.2.e18_4.2
@ol8_baseos_latest	
dbus-daemon.x86_64	1:1.12.8-12.0.2.e18_4.2
@ol8_baseos_latest	
dbus-glib.x86_64	0.110-2.e18
@anaconda	
dbus-libs.x86_64	1:1.12.8-12.0.2.e18_4.2
@ol8_baseos_latest	
dbus-tools.x86_64	1:1.12.8-12.0.2.e18_4.2
@ol8_baseos_latest	
device-mapper.x86_64	8:1.02.175-5.e18
@ol8_baseos_latest	
device-mapper-event.x86_64	8:1.02.175-5.e18
@ol8_baseos_latest	
device-mapper-event-libs.x86_64	8:1.02.175-5.e18
@ol8_baseos_latest	
device-mapper-libs.x86_64	8:1.02.175-5.e18
@ol8_baseos_latest	
device-mapper-persistent-data.x86_64	0.8.5-4.e18
@anaconda	
dhcp-client.x86_64	12:4.3.6-44.e18_4.1
@ol8_baseos_latest	
dhcp-common.noarch	12:4.3.6-44.e18_4.1
@ol8_baseos_latest	
dhcp-libs.x86_64	12:4.3.6-44.e18_4.1
@ol8_baseos_latest	
diffstat.x86_64	1.61-7.e18
@AppStream	
diffutils.x86_64	3.6-6.e18
@anaconda	
dmidecode.x86_64	1:3.2-8.0.2.e18
@ol8_baseos_latest	
dnf.noarch	4.4.2-11.e18
@ol8_baseos_latest	
dnf-data.noarch	4.4.2-11.e18
@ol8_baseos_latest	
dnf-plugin-spacewalk.noarch	2.8.5-
11.0.3.module+e18.3.0+20070+f5719e00 @ol8_appstream	
dnf-plugins-core.noarch	4.0.18-4.e18
@ol8_baseos_latest	
docbook-dttds.noarch	1.0-69.e18
@AppStream	
docbook-style-xsl.noarch	1.79.2-9.e18
@ol8_appstream	
dracut.x86_64	049-135.git20210121.0.2.e18
@ol8_baseos_latest	
dracut-config-rescue.x86_64	049-135.git20210121.0.2.e18
@ol8_baseos_latest	
dracut-network.x86_64	049-135.git20210121.0.2.e18
@ol8_baseos_latest	
dracut-squash.x86_64	049-135.git20210121.0.2.e18
@ol8_baseos_latest	
dtrace.x86_64	2.0.0-1.7.e18
@ol8_UEKR6	
dwz.x86_64	0.12-9.e18
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dyninst.x86_64	10.2.1-2.e18
@ol8_appstream	
e2fsprogs.x86_64	1.45.6-1.e18
@anaconda	
e2fsprogs-libs.x86_64	1.45.6-1.e18
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efi-srpm-macros.noarch	3-3.0.1.e18
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efivar-libs.x86_64	37-4.e18
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elfutils.x86_64	0.182-3.e18
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elfutils-debuginfod-client.x86_64	0.182-3.e18
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elfutils-default-yama-scope.noarch	0.182-3.e18
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elfutils-libelf.x86_64	0.182-3.e18
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elfutils-libs.x86_64	0.182-3.e18
@ol8_baseos_latest	
emacsfilesystem.noarch	1:26.1-5.e18
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esmtplib.x86_64	1.2-15.e18
@ol8_developer_EPEL	
ethtool.x86_64	2:5.8-5.e18
@ol8_baseos_latest	
expat.x86_64	2.2.5-4.e18
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file.x86_64	5.33-16.e18_3.1
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file-libs.x86_64	5.33-16.e18_3.1
@ol8_baseos_latest	
filesystem.x86_64	3.8-3.e18
@anaconda	
findutils.x86_64	1:4.6.0-20.e18
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firewalld.noarch	0.8.2-7.0.1.e18_4
@ol8_baseos_latest	
firewalld-filesystem.noarch	0.8.2-7.0.1.e18_4
@ol8_baseos_latest	
flex.x86_64	2.6.1-9.e18
@AppStream	
fltk.x86_64	1.3.4-5.e18
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fontconfig.x86_64	2.13.1-3.e18
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fontpackages-filesystem.noarch	1.44-22.e18
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fping.x86_64	4.2-2.e18
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freetype.x86_64	2.9.1-4.e18_3.1
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fribidi.x86_64	1.0.4-8.e18
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fstrm.x86_64	0.6.0-3.e18.1
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fuse.x86_64	2.9.7-12.0.3.e18
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fuse-common.x86_64	3.2.1-12.0.3.e18
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fuse-libs.x86_64	2.9.7-12.0.3.e18
@ol8_baseos_latest	
gawk.x86_64	4.2.1-2.e18
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gc.x86_64	7.6.4-3.e18
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gcc.x86_64	8.4.1-1.0.3.e18
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gcc-c++.x86_64	8.4.1-1.0.3.e18
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gcc-gdb-plugin.x86_64	8.4.1-1.0.3.e18
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gd.x86_64	2.2.5-7.e18
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gdb.x86_64	8.2-15.0.1.e18
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gdb-headless.x86_64	8.2-15.0.1.e18
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gdbm.x86_64	1:1.18-1.e18
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gdbm-libs.x86_64	1:1.18-1.e18
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gdk-pixbuf2.x86_64	2.36.12-5.e18
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gdk-pixbuf2-modules.x86_64	2.36.12-5.e18
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geolite2-city.noarch	20180605-1.e18
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geolite2-country.noarch	20180605-1.e18
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gettext.x86_64	0.19.8.1-17.e18
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gettext-common-devel.noarch	0.19.8.1-17.e18
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gettext-devel.x86_64	0.19.8.1-17.e18
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gettext-libs.x86_64	0.19.8.1-17.e18
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ghc-srpm-macros.noarch	1.4.2-7.e18
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git.x86_64	2.27.0-1.e18
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git-core.x86_64	2.27.0-1.e18
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git-core-doc.noarch	2.27.0-1.e18
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glib2.x86_64	2.56.4-10.e18_4.1
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glibc.x86_64	2.28-151.0.1.e18
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glibc-common.x86_64	2.28-151.0.1.e18
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glibc-devel.x86_64	2.28-151.0.1.e18
@ol8_baseos_latest	
glibc-headers.x86_64	2.28-151.0.1.e18
@ol8_baseos_latest	
glibc-langpack-el.x86_64	2.28-151.0.1.e18
@ol8_baseos_latest	
glibc-langpack-en.x86_64	2.28-151.0.1.e18
@ol8_baseos_latest	
gmp.x86_64	1:6.1.2-10.e18
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gnupg2.x86_64	2.2.20-2.e18
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gnupg2-smime.x86_64	2.2.20-2.e18
@anaconda	
gnutls.x86_64	3.6.14-8.e18_3
@ol8_baseos_latest	
go-srpm-macros.noarch	2-17.e18
@ol8_appstream	
gobject-introspection.x86_64	1.56.1-1.e18
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google-droid-sans-fonts.noarch	20120715-13.e18
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gpgme.x86_64	1.13.1-7.e18
@ol8_baseos_latest	
graphite2.x86_64	1.3.10-10.e18
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graphviz.x86_64	2.40.1-40.e18
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grep.x86_64	3.1-6.e18
@anaconda	
groff-base.x86_64	1.22.3-18.e18
@anaconda	
grub2-common.noarch	1:2.02-99.0.2.e18
@ol8_baseos_latest	

grub2-pc.x86_64	1:2.02-99.0.2.e18
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grub2-pc-modules.noarch	1:2.02-99.0.2.e18
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grub2-tools.x86_64	1:2.02-99.0.2.e18
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grub2-tools-extra.x86_64	1:2.02-99.0.2.e18
@ol8_baseos_latest	
grub2-tools-minimal.x86_64	1:2.02-99.0.2.e18
@ol8_baseos_latest	
grubby.x86_64	8.40-41.0.1.e18
@anaconda	
gtk-update-icon-cache.x86_64	3.22.30-6.e18
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gtk2.x86_64	2.24.32-5.e18
@ol8_appstream	
guile.x86_64	5:2.0.14-7.0.1.e18
@ol8_appstream	
gzip.x86_64	1.9-12.e18
@ol8_baseos_latest	
hardlink.x86_64	1:1.3-6.e18
@anaconda	
harfbuzz.x86_64	1.7.5-3.e18
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hdparm.x86_64	9.54-3.e18
@ol8_baseos_latest	
hicolor-icon-theme.noarch	0.17-2.e18
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hostname.x86_64	3.20-6.e18
@anaconda	
hwdata.noarch	0.314-8.8.e18
@ol8_baseos_latest	
hyperv-daemons.x86_64	0-0.30.20180415git.e18
@ol8_appstream	
hyperv-daemons-license.noarch	0-0.30.20180415git.e18
@ol8_appstream	
hypervfcopyd.x86_64	0-0.30.20180415git.e18
@ol8_appstream	
hypervkvpd.x86_64	0-0.30.20180415git.e18
@ol8_appstream	
hypervvssd.x86_64	0-0.30.20180415git.e18
@ol8_appstream	
ima-evm-utils.x86_64	1.3.2-12.e18
@ol8_baseos_latest	
info.x86_64	6.5-6.e18
@anaconda	
initscripts.x86_64	10.00.15-1.e18
@ol8_baseos_latest	
intltool.noarch	0.51.0-11.e18
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ipcalc.x86_64	0.2.4-4.e18
@anaconda	
iproute.x86_64	5.9.0-4.e18
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iprutils.x86_64	2.4.19-1.e18
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ipset.x86_64	7.1-1.e18
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ipset-libs.x86_64	7.1-1.e18
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iptables.x86_64	1.8.4-17.0.1.e18
@ol8_baseos_latest	
iptables-ebtables.x86_64	1.8.4-17.0.1.e18
@ol8_baseos_latest	
iptables-libs.x86_64	1.8.4-17.0.1.e18
@ol8_baseos_latest	
iputils.x86_64	20180629-7.e18
@ol8_baseos_latest	

irqbalance.x86_64	2:1.4.0-6.e18
@ol8_baseos_latest	
isl.x86_64	0.16.1-6.e18
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iwl100-firmware.noarch	999:39.31.5.1-999.8.e18
@ol8_baseos_latest	
iwl1000-firmware.noarch	999:39.31.5.1-999.8.e18
@ol8_baseos_latest	
iwl105-firmware.noarch	999:18.168.6.1-999.8.e18
@ol8_baseos_latest	
iwl135-firmware.noarch	999:18.168.6.1-999.8.e18
@ol8_baseos_latest	
iwl2000-firmware.noarch	999:18.168.6.1-999.8.e18
@ol8_baseos_latest	
iwl2030-firmware.noarch	999:18.168.6.1-999.8.e18
@ol8_baseos_latest	
iwl3160-firmware.noarch	999:25.30.13.0-999.8.e18
@ol8_baseos_latest	
iwl5000-firmware.noarch	999:8.83.5.1_1-999.8.e18
@ol8_baseos_latest	
iwl5150-firmware.noarch	999:8.24.2.2-999.8.e18
@ol8_baseos_latest	
iwl6000-firmware.noarch	999:9.221.4.1-999.8.e18
@ol8_baseos_latest	
iwl6000g2a-firmware.noarch	999:18.168.6.1-999.8.e18
@ol8_baseos_latest	
iwl6050-firmware.noarch	999:41.28.5.1-999.8.e18
@ol8_baseos_latest	
iwl7260-firmware.noarch	999:25.30.13.0-999.8.e18
@ol8_baseos_latest	
jansson.x86_64	2.11-3.e18
@anaconda	
jasper-libs.x86_64	2.0.14-4.e18
@AppStream	
java-1.8.0-openjdk-headless.x86_64	1:1.8.0.302.b08-0.e18_4
@ol8_appstream	
javapackages-filesystem.noarch	5.3.0-1.module+e18+5136+7ff78f74
@AppStream	
jbig2dec-libs.x86_64	0.16-1.e18
@ol8_appstream	
jbigkit-libs.x86_64	2.1-14.e18
@AppStream	
jna.x86_64	4.5.1-5.e18
@AppStream	
json-c.x86_64	0.13.1-0.4.e18
@ol8_baseos_latest	
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python3-unbound.x86_64	1.7.3-15.e18
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python3-urwid.x86_64	1.3.1-4.e18
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redhat-release.x86_64 2:8.4-0.6.0.1.e18
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rhn-setup.x86_64 2.8.16-
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rpm-plugin-systemd-inhibit.x86_64 4.14.3-14.e18_4
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