Hitachi Content Platform for Cloud Scale

v1.2.0

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Preface

The Appliance Operating System and the Hitachi Content Platform for cloud scale (HCP for cloud scale) software incorporate third-party software from a number of vendors. This book contains the copyright and license information for that software.

Intended audience

This document is intended for all HCP for cloud scale users.

Product version

This document applies to release 1.2.0 of Hitachi Content Platform for cloud scale.

Release notes

Read the release notes before installing and using this product. They may contain requirements or restrictions that are not fully described in this document or updates or corrections to this document. Release notes are available on Hitachi Vantara Support Connect:

https://knowledge.hitachivantara.com/Documents

Related documents

The following documents contain additional information about HCP for cloud scale:

- *Installing Hitachi Content Platform for Cloud Scale* (MK-HCPCS002-03): This document provides the information you need to install the HCP for cloud scale software.

- *Hitachi Content Platform for Cloud Scale Object Storage Management Help* (MK-HCPCS000-02): This Help system explains how to use the HCP for cloud scale Object Storage Management application to configure and operate a common object storage interface for clients to interact with.

- *Hitachi Content Platform for Cloud Scale System Management Help* (MK-HCPCS001-03): This Help system contains the instructions for using the HCP for cloud scale System Management application to configure HCP for cloud scale for your users, enable and disable system features, and monitor the system and its connections.

- *Hitachi Content Platform for Cloud Scale Release Notes* (MK-HCPCS004-04): This document is for customers, and describes new features, product documentation, and resolved and known issues, and provides other useful information about this release of the product.

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Thank you!

1

Introduction

The Appliance Operating System is based on the open-source operating system Fedora 25 from the Fedora Project (http://fedoraproject.org). It also includes several additional open-source softwre packages.

The Hitachi Content Platform for cloud scale (HCP for cloud scale) software incorporates multiple open-source software packages and proprietary third-party components.

Unless otherwise indicated in this book, open-source and third-party software is used without modification.

To obtain any of the open-source software packages mentioned in this book, please contact:

Project manager, HCP for cloud scale
Hitachi Vantara Corporation
2535 Augustine Drive
Santa Clara, CA 95054 USA

Hitachi Vantara gratefully acknowledges the contributions of the open source community in the development of the Appliance Operating System and HCP for cloud scale software.

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Hitachi Content Platform for cloud scale software third-party components

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Version 3.0.4

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Vert.x Bridge Common
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Version 3.4.2

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vertxKafka
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3

Operating system third-party components

This table contains all the operating system third-party software packages included in the Docker containers in which the HCP for cloud scale software runs. In the **Vendor** column, "FP" stands for Fedora Project, and "HDS" stands for Hitachi Data Systems.

Package name	Version	Vendor	Source URL	License	Copyright
aajohan-comfortaa-fonts	3.001	FP	http://aajohan.deviantart.com	"SIL Open Font License" on page 926	
acl	2.2.53	FP	https://savannah.nongnu.org/projects/acl	"GNU General Public License, Version 2+ (GPLv2+)" on page 853	
alsa-lib	1.1.6	FP	http://www.alsa-project.org/	"GNU Lesser General Public License, Version 2+	

Package name	Version	Vendor	Source URL	License	Copyright
				(LGPLv2+)" on page 878	
android-json-org-java	6.0.1	FP	https://android.googlesource.com/platform/libcore/+/master/json	"Apache License, version 2.0" on page 776	
antlr-tool	2.7.7	FP	http://www.antlr2.org/	"ANTLR 2 License" on page 775	
antlr4-runtime	4.5.2	FP	http://www.antlr.org/	"BSD License" on page 784	
apache-commons-beanutils	1.9.3	FP	http://commons.apache.org/beanutils	"Apache License, version 2.0" on page 776	
apache-commons-cli	1.4	FP	http://commons.apache.org/cli/	"Apache License, version 2.0" on page 776	
apache-commons-collections	3.2.2	FP	http://commons.apache.org/collections/	"Apache License, version 2.0" on page 776	
apache-commons-daemon	1.0.15	FP	http://commons.apache.org/daemon	"Apache License, version 2.0" on page 776	

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apache-commons-daemon-jsvc	1.0.15	FP	http://commons.apache.org/daemon	"Apache License, version 2.0" on page 776	
apache-commons-dbcp	1.4	FP	http://commons.apache.org/dbcp/	"Apache License, version 2.0" on page 776	
apache-commons-logging	1.2	FP	http://commons.apache.org/logging	"Apache License, version 2.0" on page 776	
apache-commons-pool	1.6	FP	http://commons.apache.org/pool/	"Apache License, version 2.0" on page 776	
apr	1.6.3	FP	http://apr.apache.org/	"Apache License, version 2.0" on page 776	Copyright (C) 2000 - 2017 The Apache Software Foundation Copyright (C) 1996 Internet Software Consortium Copyright (C) 1992 - 2017 Free Software Foundation Inc Copyright (C) 2004 - 2015 Free Software Copyright (C) 2001 - 2002 Caldera International Inc All rights reserved Copyright (C) 2000 Martin Pool <mbp@humbug.org.au>
apr	1.6.5	FP	http://apr.apache.org/	"Apache License,	

Package name	Version	Vendor	Source URL	License	Copyright
				version 2.0" on page 776 and "BSD License (with Advertising)" on page 785 and "ISC License" on page 895 and "BSD License" on page 784	
apr-util	1.6.1	FP	http://apr.apache.org/	"Apache License, version 2.0" on page 776	
atomic-registries	1.22.1	FP	https://github.com/projectatomic/atomic	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
audit-libs	2.8.4	FP	http://people.redhat.com/sgrubb/audit/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	

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audit-libs	3	FP	http://people.redhat.com/sgrubb/audit/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
autogen-libopts	5.18.14	FP	http://www.gnu.org/software/autogen/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
avahi-libs	0.7	FP	http://avahi.org	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
basesystem	11	FP	(none)	Public Domain	
bash	4.4.23	FP	https://www.gnu.org/software/bash	"GNU General Public License, Version 3 (GPLv3)" on page 854	
binutils	2.31.1	FP	https://sourceware.org/binutils	"GNU General Public	

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brotli	1.0.5	FP	https://github.com/google/brotli	"MIT License" on page 897	
bzip2-libs	1.0.6	FP	http://www.bzip.org/	BSD-like License	"Copyright (C) 1996 - 2010 "" Julian Seward.\n"" Copyright (C) 1996 - 2010 documentation are Julian R Seward All Copyright (C) 1996 - 2010 Julian Seward <jseward@bzip.org> Copyright (C) 1997 - 2009 American Mathematical Society"
ca-certificates	2018.2.26	FP	https://fedoraproject.org/wiki/CA-Certificates	Public Domain	
cglib	3.2.4	FP	https://github.com/cglib/cglib	"Apache License, version 2.0" on page 776	
checkstyle	8	FP	http://checkstyle.sourceforge.net/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878 and "GNU	

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chkconfig	1.1	FP	https://github.com/fedora-sysv/chkconfig	"GNU General Public License, Version 2 (GPLv2)" on page 846	
cmake-filesystem	3.12.1	FP	http://www.cmake.org	"BSD License" on page 784 and MIT and "zlib License" on page 934	
compat-openssl10	1.0.2o	FP	http://www.openssl.org/	"OpenSSL and SSLeay Licenses" on page 917	

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container-selinux	2.73	FP	https://github.com/projectatomic/container-selinux	"GNU General Public License, Version 2 (GPLv2)" on page 846	
container-storage-setup	0.11.0	FP	https://github.com/projectatomic/container-storage-setup	"Apache License, version 2.0" on page 776	
containers-common	0.1.32	FP	https://github.com/projectatomic/skopeo	"Apache License, version 2.0" on page 776	
copy-jdk-configs	3.7	FP	https://pagure.io/copy_jdk_configs	"BSD License" on page 784	CANT FIND
coreutils	8.29	FP	https://www.gnu.org/software/coreutils/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
coreutils	8.3	FP	https://www.gnu.org/software/coreutils/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
coreutils-	8.29	FP	https://www.gnu.org/software/coreutils/	"GNU General	

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common				Public License, Version 3 (GPLv3)" on page 854	
coreutils-common	8.3	FP	https://www.gnu.org/software/coreutils/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
cracklib	2.9.6	FP	http://sourceforge.net/projects/cracklib/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
crash	7.2.3	FP	http://people.redhat.com/anderson	"GNU General Public License, Version 3 (GPLv3)" on page 854	
crypto-policies	20180425	FP	https://gitlab.com/redhat-crypto/fedora-crypto-policies	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	

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crypto-policies	20180925	FP	https://gitlab.com/redhat-crypto/fedora-crypto-policies	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
cryptsetup-libs	2.0.4	FP	https://gitlab.com/cryptsetup/cryptsetup	"GNU General Public License, Version 2+ (GPLv2+)" on page 853 and "GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
cryptsetup-libs	2.0.6	FP	https://gitlab.com/cryptsetup/cryptsetup	"GNU General Public License, Version 2+ (GPLv2+)" on page 853 and "GNU Lesser General	

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				Public License, Version 2+ (LGPLv2+)" on page 878	
cups-libs	2.2.6	FP	http://www.cups.org/	"GNU Library General Public License, Version 2 (LGPLv2)" on page 868 and "zlib License" on page 934	"Copyright (C) 1999 Aladdin Enterprises All rights reserved Copyright (C) 2010 - 2018 puts(CUPS_SVERSION "" - Apple Inc All rights reserved."") Copyright (C) 2005 Trusted Computer Solutions Inc Copyright (C) 2005 - 2016 Apple Inc All rights reserved Copyright (C) 2005 - 2006 Hewlett-Packard Development Company L.P Copyright (C) 1989 - 2013 Free Software Foundation Inc Copyright (C) 1991 the Massachusetts Institute of Technology Copyright (C) 1997 - 2007 Easy Software Products all rights reserved Copyright (C) 2001 - 2006 Easy Software Products All rights reserved Copyright (C) 2010 - 2013 Red Hat Inc Copyright (C) 1993 - 2007 Easy Software Products Copyright (C) 2007 Tim Waugh <twaugh@redhat.com> Copyright (C) 2011 Original DBUS/colord code is Red

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curl	7.59.0	FP	https://curl.haxx.se/	"MIT License" on page 897	"Copyright (C) 1997 - 2018 - Daniel Stenberg <daniel@haxx.se> et al Copyright (C) 2012 - 2017 - Linus Nielsen Feltzing <linus@haxx.se> Copyright (C) 2009 - 2013 John Malmberg Copyright (C) 2003 - 2009 - Gisle Vanem <gvanem@yahoo.no> Copyright (C) 2001 domain is deemed and void then the software is Copyright (C) 2004 - 2015 Free Software Copyright (C) 2003 - 2016 CORE Security Technologies: Copyright (C) 2001 Eric Lavigne Copyright (C) 2003 - 2017 Simtec Electronics Copyright (C) 1996 - 2018 - Daniel Stenberg <daniel@haxx.se> and many Copyright (C) 2001

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curl	7.61.1	FP	https://curl.haxx.se/	"MIT License" on page 897	
cyrus-sasl-lib	2.1.27	FP	http://asg.web.cmu.edu/sasl/sasl-library.html	"BSD License (with Advertising)" on page 785	"Copyright (C) 1993 OpenVision Technologies Inc Copyright (C) 1986 - 1991 Sun Microsystems Inc Copyright (C) 1998 - 2017 Carnegie Mellon University All rights reserved Copyright (C) 1993 - 1997 Eric Young Copyright (C) 2011 PADL Software Pty Ltd Copyright (C) 1996 Internet Software Consortium Copyright (C) 1998 - 2016 Carnegie Mellon University Copyright (C) 1987 the Student Information Processing Board Copyright (C) 2000 ? the Massachusetts Institute of

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cyrus-sasl-md5	2.1.27	FP	http://asg.web.cmu.edu/sasl/sasl-library.html	"BSD License (with Advertising)" on page 785	
dbus	1.12.10	FP	http://www.freedesktop.org/Software/dbus/	("GNU General Public License,	

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				Version 2+ (GPLv2+)" on page 853 or AFL) and "GNU General Public License, Version 2+ (GPLv2+)" on page 853	
dbus-common	1.12.10	FP	http://www.freedesktop.org/Software/dbus/	("GNU General Public License, Version 2+ (GPLv2+)" on page 853 or AFL) and "GNU General Public License, Version 2+ (GPLv2+)" on page 853	
dbus-daemon	1.12.10	FP	http://www.freedesktop.org/Software/dbus/	("GNU General Public License, Version 2+	

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				(GPLv2+)" on page 853 or AFL) and "GNU General Public License, Version 2+ (GPLv2+)" on page 853	
dbus-libs	1.12.10	FP	http://www.freedesktop.org/Software/dbus/	("GNU General Public License, Version 2+ (GPLv2+)" on page 853 or AFL) and GPLv2+	
dbus-tools	1.12.10	FP	http://www.freedesktop.org/Software/dbus/	("GNU General Public License, Version 2+ (GPLv2+)" on page 853 or AFL) and GPLv2+	
dejavu-fonts-comm	2.35	FP	http://dejavu-fonts.org/	"Bitstream Vera Fonts Copyrigh	

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dejavu-sans-fonts	2.35	FP	http://dejavu-fonts.org/	"Bitstream Vera Fonts Copyright" on page 787 and Public Domain	
device-mapper	1.02.146	FP	http://sources.redhat.com/dm	"GNU General Public License, Version 2 (GPLv2)" on page 846	
device-mapper	1.02.150	FP	http://sources.redhat.com/dm	"GNU General Public License, Version 2 (GPLv2)" on page 846	
device-mapper-event	1.02.150	FP	http://sourceware.org/lvm2	"GNU General Public License, Version 2 (GPLv2)" on page 846	

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device-mapper-event-libs	1.02.150	FP	http://sourceware.org/lvm2	"GNU Library General Public License, Version 2 (LGPLv2)" on page 868	
device-mapper-libs	1.02.146	FP	http://sourceware.org/lvm2	"GNU Library General Public License, Version 2 (LGPLv2)" on page 868	
device-mapper-libs	1.02.150	FP	http://sourceware.org/lvm2	"GNU Library General Public License, Version 2 (LGPLv2)" on page 868	
device-mapper-persistent-data	0.7.6	FP	https://github.com/jthornber/thin-provisioning-tools	"GNU General Public License, Version 3 (GPLv3)" on page 854	
diffutils	3.6	FP	http://www.gnu.org/software/diffutils/diffutils.html	"GNU General Public License, Version 3 (GPLv3)" on	

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				page 854	
dnf	4.0.4	FP	https://github.com/rpm-software-management/dnf	"GNU General Public License, Version 2+ (GPLv2+)" on page 853 and GPLv2 and "GNU GENERAL PUBLIC LICENSE" on page 840	
dnf-data	4.0.4	FP	https://github.com/rpm-software-management/dnf	"GNU General Public License, Version 2+ (GPLv2+)" on page 853 and GPLv2 and "GNU GENERAL PUBLIC LICENSE" on page 840	
docker	1.13.1	FP	https://github.com/projectatomic/docker	"Apache License, version 2.0" on page 776	

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docker-common	1.13.1	FP	https://github.com/projectatomic/docker	"Apache License, version 2.0" on page 776	
docker-rhel-push-plugin	1.13.1	FP	https://github.com/projectatomic/docker	"GNU General Public License, Version 2 (GPLv2)" on page 846	
easymock	3.5	FP	http://www.easymock.org	"Apache License, version 2.0" on page 776	
ecj	4.7.3a	FP	http://www.eclipse.org	"Eclipse Public License" on page 816	
ecj	4.9	FP	http://www.eclipse.org	"Eclipse Public License" on page 816	
elfutils-default-yama-scope	0.174	FP	http://elfutils.org/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
elfutils-default-yama-scope	0.174	FP	http://elfutils.org/	"GNU General Public License, Version 3 (GPLv3)"	

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				on page 854	
elfutils-libelf	0.174	FP	http://elfutils.org/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
elfutils-libelf	0.174	FP	http://elfutils.org/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
elfutils-libs	0.174	FP	http://elfutils.org/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
elfutils-libs	0.174	FP	http://elfutils.org/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
expat	2.2.5	FP	https://libexpat.github.io/	"MIT License" on page 897	Copyright (C) 2000 - 2017 Expat development team Copyright (C) 2017 Jos?? Guti??rrez de la Concha <jose@zeroc.com> Copyright (C) 2010 Patrick

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expat	2.2.6	FP	https://libexpat.github.io/	"MIT License" on page 897	
fedora-gpg-keys	28	FP	https://fedoraproject.org	"MIT License" on page 897	CANT FIND
fedora-gpg-keys	29	FP	https://fedoraproject.org/	"MIT License" on page 897	
fedora-release	28	FP	https://pagure.io/fedora-release	"MIT License" on page 897	
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fedora-repos	28	FP	https://fedoraproject.org	"MIT License" on	CANT FIND

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fedora-repos	29	FP	https://fedoraproject.org/	"MIT License" on page 897	
file-libs	5.34	FP	http://www.darwinsys.com/file/	"BSD License" on page 784	
filesystem	3.8	FP	https://pagure.io/filesystem	Public Domain	
filesystem	3.9	FP	https://pagure.io/filesystem	Public Domain	
findutils	4.6.0	FP	http://www.gnu.org/software/findutils/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
fontconfig	2.13.0	FP	http://fontconfig.org	"MIT License" on page 897 and Public Domain and "Unicode Character Database License" on page 930	Copyright (C) 2006 ??? Keith Packard Copyright (C) 2007 ?? Chris Wilson Copyright (C) 1995 - 2016 dnl Free Software Copyright (C) 2004 - 2015 Free Software Copyright (C) 2009 ?? Roozbeh Pournader Copyright (C) 2010 ?? Copyright (C) 2012 ?? Parag Nemade Pravin Satpute <psatpute@redhat.com>

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fontconfig	2.13.1	FP	http://fontconfig.org	"MIT License" on page 897 and Public Domain and "Unicode Character Database License" on page 930	
fontpackages-filesystem	1.44	FP	http://fedoraproject.org/wiki/fontpackages	Public Domain	

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freetype	2.8	FP	http://www.freetype.org	("Freetype License" on page 828 or "GNU General Public License, Version 2+ (GPLv2+)" on page 853) and "BSD License" on page 784 and MIT and Public Domain and "zlib License" on page 934 with acknowledgement	"Copyright (C) 2005 - 2013 George Williams Copyright (C) 1999 - The FreeType Development Team - www.freetype.org Copyright (C) 1999 - 2004 Just van Rossum Antoine Leca Copyright (C) 1999 - 2013 Antoine Leca Copyright (C) 2003 Huw D M Davies for Codeweavers Copyright (C) 2016 Static Jobs LLC Copyright (C) 2000 Computing Research Labs New Mexico State University Copyright (C) 2016 Werner Lemberg Copyright (C) 2001 Michael Pfeiffer Copyright (C) 1999 - 2002 Antoine Leca David Turner Copyright (C) 2010 ""Cowboy"" Ben Alman Copyright (C) 2001 Alexander Peslyak and it is hereby released to the Copyright (C) 2013 Google Inc Copyright (C) 2004 ?? Scott James Remnant <scott@netsplit.com> Copyright (C) 2012 Intel Corporation Copyright (C) 2000 - 2012 Francesco Zappa Nardelli Copyright (C) 2006 - 2014 Adobe Systems Incorporated Copyright (C) 1995 - 2002 Mark Adler

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freetype	2.9.1	FP	http://www.freetype.org	("Freetype License" on page 828 or "GNU General Public License, Version 2+ (GPLv2+)" on page 853) and "BSD License"	

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gawk	4.2.1	FP	https://www.gnu.org/software/gawk/	"GNU General Public License, Version 3 (GPLv3)" on page 854	"Copyright (C) 1996 - 2012 \"" Specialized System Consultants Inc (SSC) Copyright (C) 1996 main.c (copyleft): Update date to Copyright (C) 1986 - 2018 the Free Software Foundation Inc Copyright (C) 1996 \"" Free Software Foundation Inc Copyright (C) 1996 Specialized System Consultants Inc (SSC) Copyright (C) 1995 - 2010 Ulrich Drepper <drepper@gnu.ai.mit.edu> Copyright (C) 1996 \"" 97 99 Free Software Foundation Inc Copyright (C) 1995 - 2015 dnl Copyright (C) 1991 - 2011 - the Free Software Foundation Inc Copyright (C) 1986 - 2017

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gc	7.6.4	FP	http://www.hboehm.info/gc/	"BSD License" on page 784	
gdbm	1.14.1	FP	http://www.gnu.org/software/gdbm/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
gdbm	1.18	FP	http://www.gnu.org/software/gdbm/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
gdbm-libs	1.14.1	FP	http://www.gnu.org/software/gdbm/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
gdbm-libs	1.18	FP	http://www.gnu.org/software/gdbm/	"GNU General Public License, Version 3 (GPLv3)"	

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				on page 854	
gflags	2.1.2	FP	https://gflags.github.io/gflags/	"BSD License" on page 784	
gflags-devel	2.1.2	FP	https://gflags.github.io/gflags/	"BSD License" on page 784	
giflib	5.1.4	FP	http://www.sourceforge.net/projects/giflib/	"MIT License" on page 897	
glib2	2.58.1	FP	http://www.gtk.org	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
glibc	2.27	FP	http://www.gnu.org/software/glibc/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878 and LGPLv2+ with exceptions and	"Copyright (C) 1987 - 1991 Sun Microsystems Inc Copyright (C) 2001 Stephen L Moshier (moshier@na-net.onrl.gov) Copyright (C) 1992 Eric Young Copyright (C) 1993 Carlos Leandro and Rui Salgueiro Copyright (C) 1995 - 1999

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glibc	2.28	FP	http://www.gnu.org/software/glibc/	"GNU Lesser General Public	

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				License, Version 2+ (LGPLv2+)" on page 878 and LGPLv2+ with exceptions and GPLv2+ and GPLv2+ with exceptions and "BSD License" on page 784 and Inner-Net and "ISC License" on page 895 and Public Domain and "GNU Free Documentation License" on page 831	

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glibc-all-langpacks	2.28	FP	http://www.gnu.org/software/glibc/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878 and LGPLv2+ with exceptions and "GNU General Public License, Version 2+ (GPLv2+)" on page 853 and GPLv2+ with exceptions and "BSD License" on page 784 and Inner-Net and "ISC License"	

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				on page 895 and Public Domain and "GNU Free Documentation License" on page 831	
glibc-common	2.27	FP	http://www.gnu.org/software/glibc/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878 and LGPLv2+ with exceptions and "GNU General Public License, Version 2+ (GPLv2+)" on page 853 and GPLv2+ with exceptions and	"Copyright (C) 1987 - 1991 Sun Microsystems Inc Copyright (C) 2001 Stephen L Moshier (moshier@na-net.onrl.gov) Copyright (C) 1992 Eric Young Copyright (C) 1993 Carlos Leandro and Rui Salgueiro Copyright (C) 1995 - 1999 Internet Software Consortium Copyright (C) 1987 - 1995 Carnegie Mellon University Copyright (C) 2010 - 2012 Oracle America Inc Copyright (C) 2004 Internet Systems Consortium Inc (""ISC"") Copyright (C) 1988 Stephen Deering Copyright (C) 2001 catgets/gencat.c: Copyright (C) 2001 Stephen L Moshier

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glibc-common	2.28	FP	http://www.gnu.org/software/glibc/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878 and LGPLv2+ with exceptions and "GNU General Public License, Version 2+	

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				(GPLv2+)" on page 853 and GPLv2+ with exceptions and "BSD License" on page 784 and Inner-Net and "ISC License" on page 895 and Public Domain and "GNU Free Documentation License" on page 831	
glibc-locale-source	2.28	FP	http://www.gnu.org/software/glibc/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878 and	

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glog	0.3.5	FP	https://github.com/google/glog	"BSD License" on page 784	

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gmp	6.1.2	FP	http://gmplib.org/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
gnupg	1.4.23	FP	http://www.gnupg.org/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
gnupg2	2.2.9	FP	http://www.gnupg.org/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
gnutls	3.6.4	FP	http://www.gnutls.org/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
gnutls	3.6.5	FP	http://www.gnutls.org/	"GNU General Public License, Version 3 (GPLv3)" on page 854	

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gosu	1.1	Github	https://github.com/tianon/gosu	"GNU General Public License, Version 3 (GPLv3)" on page 854	
gpgme	1.11.1	FP	https://gnupg.org/related_software/gpgme/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
gpm-libs	1.20.7	FP	http://www.nico.schottelius.org/software/gpm/	"GNU General Public License, Version 3 (GPLv3)" on page 854	Copyright (C) 1999 hdavies@ameritech.net (Henry Davies) Copyright (C) 1993 Andreq Haylett <ajh@gec-mrc.co.uk> Copyright (C) 1998 Ian Zimmerman <itz@speakeasy.org> Copyright (C) 2002 Synpatics Passthrough Support Linuxcare Inc Copyright (C) 2001 - 2008 Nico Schottelius <nico-gpm2008 at schottelius.org> Copyright (C) 2001 - 2012 nico-gpm at schottelius.org (Nico Schottelius) Copyright (C) 1994 - 2000 Alessandro Rubini <rubini@linux.it>

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grep	3.1	FP	http://www.gnu.org/software/grep/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
guava	25	FP	https://github.com/google/guava	"CCO 1.0 Universal" on page 798	
guile	2.0.14	FP	http://www.gnu.org/software/guile/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
gzip	1.9	FP	http://www.gzip.org/	"GNU General Public License, Version 3 (GPLv3)" on page 854	Copyright (C) 1990 - 2018 Free Software Foundation Copyright (C) 1990 - 2009 @copyright{} Free Software Copyright (C) 1995 - 2018 dnl Free Software Foundation Inc Copyright (C) 1990 - 1992 Not Mark Adler Copyright (C) 2001 - 2002 Sverre Jarp (HP Labs) Copyright (C) 1990 - 2009 ## Free Software Copyright (C) 1987 - 2018 Free Software Foundation Inc

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hamcrest	1.3	FP	https://github.com/hamcrest/JavaHamcrest	"BSD License" on page 784	
hamcrest-core	1.3	FP	https://github.com/hamcrest/JavaHamcrest	"BSD License" on page 784	

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haproxy	1.8.14	FP	http://www.haproxy.org/	"GNU General Public License, Version 2+ (GPLv2+)" on page 853	
hostname	3.2	FP	http://packages.qa.debian.org/h/hostname.html	"GNU General Public License, Version 2+ (GPLv2+)" on page 853	
http-parser	2.8.1	FP	https://github.com/nodejs/http-parser	"MIT License" on page 897	
ima-evm-utils	1.1	FP	http://linux-ima.sourceforge.net/	"GNU General Public License, Version 2 (GPLv2)" on page 846	
info	6.5	FP	http://www.gnu.org/software/texinfo/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
iproute	4.18.0	FP	http://kernel.org/pub/linux/utils/net/iproute2/	"GNU General	

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iptables	1.8.0	FP	http://www.netfilter.org/	"GNU General Public License, Version 2 (GPLv2)" on page 846 and "Artistic License 2.0" on page 780 and "ISC License" on page 895	
iptables-libs	1.6.2	FP	http://www.netfilter.org/	"GNU General Public License, Version 2 (GPLv2)" on page 846 and "Artistic License 2.0" on page 780 and "ISC License" on	"Copyright (C) 2003 Mike Frantzen <frantzen@w4g.org> Copyright (C) 2000 - 2002 Joakim Axelsson <gozem@linux.nu> Copyright (C) 2000 - 2001 \"" Netfilter Core Team Copyright (C) 2000 - 2001 Netfilter Core Team Copyright (C) 2007 - 2008 ?? CC Computer

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iptables-libs	1.8.0	FP	http://www.netfilter.org/	"GNU General Public License, Version 2 (GPLv2)" on page 846 and "Artistic License 2.0" on page 780 and "ISC License" on page 895	
java-1.8.0-openjdk-	1.8.0.181.b15	FP	http://openjdk.java.net/	ASL 1.1	

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java-1.8.0-openjdk-headless	1.8.0.191.b13	FP	http://openjdk.java.net/	ASL 1.1 and "Apache License, version 2.0" on page 776 and "BSD License" on page 784 and BSD with advertising and GPL+ and GPLv2 and GPLv2 with exceptions and "Independent JPEG Group (IJG) License"	"Copyright (C) 1994 - 2015 \"" Oracle and/or its affiliates All rights reserved Copyright (C) 2000 ? Compaq Computer Corporation Inc Copyright (C) 2014 dnl Red Hat Inc All rights reserved Copyright (C) 2001 freebxml: freebxml.org All rights reserved

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java-11-openjdk	11.0.1.13	FP	http://openjdk.java.net/	ASL 1.1 and "Apache License, version 2.0" on page 776 and "BSD License" on page 784 and BSD with advertising and GPL+ and GPLv2 and GPLv2 with exceptions and "Independent JPEG Group (IJG) License" on page 893 and "GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878 and MIT	"Copyright (C) 1994 - 2018 \"" Oracle and/or its affiliates All rights reserved Copyright (C) 2011 AboutBox.accessible_description=SwingSet2 demo is Oracle and/or its affiliates All rights reserved Copyright (C) 2014 - 2016 Intel Corporation All rights reserved Intel Math Library (LIBM) Copyright (C) 2014 - 2016 dnl Red Hat Inc All rights reserved Copyright (C) 2018 SAP and/or its affiliates Copyright (C) 1991 - 2016 Unicode Inc All rights reserved Copyright (C) 2012 - 2015 ?? Mozilla Foundation

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libatomic_ops	7.6.6	FP	https://github.com/ivmai/libatomic_ops/	GPLv2 and "MIT License" on page 897	
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libcap-ng	0.7.9	FP	http://people.redhat.com/sgrubb/libcap-ng	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
libcom_err	1.44.2	FP	http://e2fsprogs.sourceforge.net/	"MIT License" on page 897	"Copyright (C) 1994 - 2008 Carnegie Mellon University All rights reserved Copyright (C) 1986 - 1988 MIT Information Systems and Copyright (C) 2000 Silicon Graphics Inc All Rights Reserved Copyright (C) 2006 Cluster

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libtasn1	4.13	FP	http://www.gnu.org/software/libtasn1/	"GNU General Public License, Version 3 (GPLv3)" on page 854	

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libtool-ltdl	2.4.6	FP	http://www.gnu.org/software/libtool/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
libunistring	0.9.10	FP	http://www.gnu.org/software/libunistring/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
libusb	0.1.5	FP	http://sourceforge.net/projects/libusb/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	

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libusbx	1.0.22	FP	http://libusb.info	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
libutempter	1.1.6	FP	ftp://ftp.altlinux.org/pub/people/ldv/utempter	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	

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libXau	1.0.8	FP	http://www.x.org	"MIT License" on	

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libxcb	1.13.1	FP	http://xcb.freedesktop.org/	"MIT License" on page 897	
libxcrypt	4.2.1	FP	https://github.com/besser82/libxcrypt	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878 and "BSD License" on page 784 and Public Domain	
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libXext	1.3.3	FP	http://www.x.org	"MIT License" on page 897	
libXi	1.7.9	FP	http://www.x.org	"MIT License" on page 897	
libxml2	2.9.8	FP	http://xmlsoft.org/	"MIT License" on page 897	Copyright (C) 1994 - 2013 Free Software Foundation Copyright (C) 2003 - 2012 Daniel Veillard Copyright (C) 1992 - 2016 Free Software Foundation

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log4j12	1.2.17	FP	http://logging.apache.org/log4j/1.2/	"Apache License, version 2.0" on page 776	
logrotate	3.14.0	FP	https://github.com/logrotate/logrotate	"GNU General Public License, Version 2+ (GPLv2+)" on page 853	
lua	5.3.4	FP	http://www.lua.org/	"MIT License" on page 897	"Copyright (C) 1994 - 2017 Lua.org PUC-Rio Copyright (C) 1994 - 2017 #define LUA_COPYRIGHT LUA_RELEASE "" Lua.org PUC-Rio"""
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lua-libs	5.3.5	FP	http://www.lua.org/	"MIT License" on page 897	
lua-posix	33.3.1	FP	http://luaforge.net/projects/luaposix/	Public Domain	
lua-posix	33.3.1	FP	http://luaforge.net/projects/luaposix/	"MIT License" on page 897	
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lvm2-libs	2.02.181	FP	http://sourceware.org/lvm2	"GNU Library General Public License, Version 2 (LGPLv2)" on page 868	
lz4-libs	1.8.1.2	FP	https://lz4.github.io/lz4/	"GNU General Public License, Version 2+ (GPLv2	Copyright (C) 2011 - 2017 Yann Collet Copyright (C) 2014 lpsantil Copyright (C) 1989 - 1991 Free Software Foundation Inc Copyright (C) 2015 Louis P

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lzo	2.08	FP	http://www.oberhumer.com/opensource/lzo/	"GNU General Public License, Version 2+ (GPLv2+)" on page 853	
make	4.2.1	FP	http://www.gnu.org/software/make/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
mesos	1.1.0	HDS	http://mesos.apache.org/	"Apache License, version 2.0" on page 776	

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mesos-devel	1.1.0	HDS	http://mesos.apache.org/	"Apache License, version 2.0" on page 776	
mockito	1.10.19	FP	http://mockito.org	"MIT License" on page 897	
mpfr	3.1.6	FP	http://www.mpfr.org/	"GNU General Public License, Version 3 (GPLv3)" on page 854	Copyright (C) 1992 - 2017 Free Software Foundation Inc Copyright (C) 2004 - 2015 Free Software Copyright (C) 2003 - 2012 dnl Free Software Foundation Inc Copyright (C) 1994 X Consortium Copyright (C) 2007 Free Software Foundation Inc <http://fsf.org/>
ncurses	6.1	FP	https://invisible-island.net/ncurses/ncurses.html	"MIT License" on page 897	"Copyright (C) 1998 - 2018 dnl Free Software Foundation Inc Copyright (C) 1988 /** Evans & Sutherland Computer Corporation **/ Copyright (C) 1992 - 2018 Free Software Foundation Inc Copyright (C) 1998 - 2015 <span class=""comment""><EM>-- Free Software Foundation Inc -- </EM> Copyright (C) 1989 BULL SA Copyright (C) 1980 - 1993 California with dates from

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				License, Version 3 (GPLv3)" on page 854	
nettle	3.4.1	FP	http://www.lysator.liu.se/%7Enisse/nettle/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
netty-tcnative	1.1.30	FP	https://github.com/netty/netty/wiki/Forked-Tomcat-Native	"Apache License, version 2.0" on page 776	
netty3	3.10.6	FP	http://netty.io/	"CCO 1.0 Universal" on page 798	
npth	1.5	FP	http://git.gnupg.org/cgi-bin/gitweb.cgi?p=npth.git	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
nspr	4.20.0	FP	http://www.mozilla.org/projects/nspr/	"Mozilla Public License, Version 2.0" on page 908	

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nss	3.39.0	FP	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 908	
nss	3.41.0	FP	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 908	
nss-softokn	3.39.0	FP	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 908	
nss-softokn	3.41.0	FP	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 908	
nss-softokn-freebl	3.39.0	FP	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 908	
nss-softokn-freebl	3.41.0	FP	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 908	

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nss-sysinit	3.39.0	FP	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 908	
nss-sysinit	3.41.0	FP	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 908	
nss-util	3.39.0	FP	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 908	
nss-util	3.41.0	FP	http://www.mozilla.org/projects/security/pki/nss/	"Mozilla Public License, Version 2.0" on page 908	
ntpdate	4.2.8p12	FP	http://www.ntp.org	MIT and "BSD License" on page 784 and "BSD License (with Advertising)" on page 785	
object web-asm	6.2.1	FP	http://asm.ow2.org/	"BSD License" on page 784	
objene	2.6	FP	http://objenesis.org/	"Apache	

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sis				License, version 2.0" on page 776	
oci-umount	2.3.4	FP	https://github.com/projectatomic/oci-umount	"GNU General Public License, Version 3 (GPLv3)" on page 854	
openldap	2.4.46	FP	http://www.openldap.org/	"OpenLDAP License" on page 916	"Copyright (C) 2004 Sang Seok Lim IBM Corp All Rights Reserved Copyright (C) 2003 - 2011 PADL Software Pty Ltd Copyright (C) 1998 '\"" NeoSoft Inc Copyright (C) 2009 - 2010 Martin Hedenfalk <martin@bzero.se> Copyright (C) 2000 - 2008 (Portions) Pierangelo Masarati Copyright (C) 2008 (Portions) Emmanuel Dreyfus Copyright (C) 2008

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openssl-libs	1.1.0i	FP	http://www.openssl.org/	"OpenSSL and SSLeay Licenses" on page 917	
openssl-libs	1.1.1	FP	http://www.openssl.org/	"OpenSSL and SSLeay Licenses" on page 917	
p11-kit	0.23.14	FP	http://p11-glue.freedesktop.org/p11-kit.html	"BSD License" on page 784	"Copyright (C) 2011 - 2018 Collabora Ltd Copyright (C) 1995 - 2010 Ulrich Drepper <drepper@gnu.ai.mit.edu> Copyright (C) 1995 - 2016 dnl Free Software Foundation Inc Copyright (C) 2012 - 2013 Redhat Inc Copyright (C) 1995 - 2016 dnl Free Software Copyright (C) 2012 - 2018 Red Hat Inc Copyright (C) 1992 - 2017 Free Software Foundation

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p11-kit-trust	0.23.14	FP	http://p11-glue.freedesktop.org/p11-kit.html	"BSD License" on page 784	"Copyright (C) 2011 - 2018 Collabora Ltd Copyright (C) 1995 - 2010 Ulrich Drepper <drepper@gnu.ai.mit.edu> Copyright (C) 1995 - 2016 dnl Free Software Foundation Inc Copyright (C) 2012 - 2013 Redhat Inc Copyright (C) 1995 - 2016 dnl Free Software Copyright (C) 2012 - 2018 Red Hat Inc

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pam	1.3.1	FP	http://www.linux-pam.org/	"BSD License" on page 784 and "GNU General Public License, Version 2+ (GPLv2+)" on page 853	Copyright (C) 2006 Red Hat Copyright (C) 1996 Cristian Gafton Copyright (C) 1996 Andrew G Morgan All rights reserved

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pcre	8.42	FP	http://www.pcre.org/	"BSD License" on page 784	Copyright (C) 2005 - 2011 dnl Free Software Foundation Inc Copyright (C) 2009 - 2018 Zoltan Herczeg Copyright (C) 2001 Alexander Tokarev Copyright (C) 1992 - 2017 Free Software Foundation Inc Copyright (C) 1994 - 2017 Free Software Copyright (C) 2005 - 2012 Google Inc Copyright (C) 2013 Tilera Corporation (jiwang@tilera.com) All rights reserved Copyright (C) 2005 - 2010 - Google Inc Copyright (C) 1994 X Consortium Copyright (C) 2008 Steven G Johnson <stevenj@alum.mit.edu> Copyright (C) 2004 - 2017 Bootstrap Authors Copyright (C) 1997 - 2018 University of Cambridge Copyright (C) 2011 Daniel Richard G

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pkgconf	1.5.3	FP	http://pkgconf.org/	ISC	
pkgconf-m4	1.4.2	FP	http://pkgconf.org/	"GNU General Public License, Version 2+ (GPLv2+)" on	

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pkgconf-m4	1.5.3	FP	http://pkgconf.org/	"GNU General Public License, Version 2+ (GPLv2+)" on page 853 with exceptions	
pkgconf-pkg-config	1.4.2	FP	http://pkgconf.org/	ISC	"Copyright (C) 2011 Maarten Bosmans <mkbosmans@gmail.com> Copyright (C) 2012 William Pitcock <nenolod@dereferenced.org> Copyright (C) 2011 - 2017 pkgconf authors (see AUTHORS) Copyright (C) 1992 - 2015 Free Software Foundation Inc Copyright (C) 2000 The NetBSD Foundation Inc Copyright (C) 2004 - 2015 Free Software Copyright (C) 2006 - 2012 Toni Ronkko Copyright (C) 1998 - 2002 Todd C Miller <Todd.Miller@courtesan.com> Copyright (C) 2011 - 2014 dnl pkgconf authors (see AUTHORS)

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policycoreutils	2.8	FP	https://github.com/SELinuxProject	"GNU General Public License, Version 2 (GPLv2)" on page 846	
popt	1.16	FP	http://www.rpm5.org/	"MIT License" on page 897	Copyright (C) 1995 - 2007 Ulrich Drepper <drepper@gnu.ai.mit.edu> Copyright (C) 1987 Adobe Systems Incorporated Copyright (C) 2008 - 2009 ?? Free Software Foundation Inc Copyright (C) 2008 ? Free Software Foundation Inc Copyright (C) 1996 - 2009 Free Software Foundation Inc Copyright (C) 1998 Michael K Johnson and Erik W Troan Addison Copyright (C) 1995 - 2007 dnl Free Software Foundation Inc Copyright (C) 1999 - 2009 Free Copyright (C) 1994 X

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procps-ng	3.3.15	FP	https://sourceforge.net/projects/procps-ng/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
protobuf	3.5.0	FP	https://github.com/google/protobuf	"BSD License" on page 784	
psmisc	23.1	FP	https://gitlab.com/psmisc/psmisc	"GNU General Public License, Version 2+ (GPLv2+)" on page 853	

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publicsuffix-list-dafsa	20180514	FP	https://publicsuffix.org/	"Mozilla Public License, Version 2.0" on page 908	
publicsuffix-list-dafsa	20180723	FP	https://publicsuffix.org/	"Mozilla Public License, Version 2.0" on page 908	
python-pip-wheel	18	FP	http://www.pip-installer.org	MIT and "Python License" on page 919 and "Apache License, version 2.0" on page 776 and "BSD License" on page 784 and ISC and "GNU Library General Public License, Version 2 (LGPLv 2)" on page 868 and "Mozilla Public License,	

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				Version 2.0" on page 908 and ("Apache License, version 2.0" on page 776 or BSD)	
python-setuptools-wheel	40.4.3	FP	https://pypi.python.org/pypi/setuptools	"MIT License" on page 897 and ("BSD License" on page 784 or "Apache License, version 2.0" on page 776)	
python2	2.7.15	FP	https://www.python.org/	"Python License" on page 919	
python2-backports	1	FP	https://pypi.python.org/pypi/backports	Public Domain	
python2-backports-ssl_match_hostna	3.5.0.1	FP	https://bitbucket.org/brandon/backports.ssl_match_hostname	"Python License" on page 919	

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me					
python2-boto	2.45.0	FP	https://github.com/boto/boto	"MIT License" on page 897	
python2-chardet	3.0.4	FP	https://github.com/chardet/chardet	"GNU Library General Public License, Version 2 (LGPLv2)" on page 868	
python2-idna	2.7	FP	https://github.com/kjd/idna	"BSD License" on page 784 and "Python License" on page 919 and Unicode	
python2-ipaddress	1.0.18	FP	https://pypi.python.org/pypi/ipaddress/	"Python License" on page 919	
python2-kazoo	2.5.0	FP	https://kazoo.readthedocs.org	"Apache License, version 2.0" on page 776	
python2-libs	2.7.15	FP	https://www.python.org/	"Python License" on page 919	

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python2-pyasn1	0.3.7	FP	http://pyasn1.sourceforge.net/	"BSD License" on page 784	
python2-pysocks	1.6.8	FP	https://github.com/Anorov/PySocks	"BSD License" on page 784	
python2-requests	2.19.1	FP	https://pypi.io/project/requests	"Apache License, version 2.0" on page 776	
python2-rsa	3.4.2	FP	http://stuvel.eu/rsa	"Apache License, version 2.0" on page 776	
python2-setuptools	39.2.0	FP	https://pypi.python.org/pypi/setuptools	"MIT License" on page 897	Copyright (C) 2016 Jason R Coombs <jaraco@jaraco.com> Copyright (C) 2010 - 2015 Benjamin Peterson Copyright (C) 2005 - 2010 ActiveState Software Inc Copyright (C) 2003 - 2016 Paul T McGuire Copyright (C) 2013 Eddy Petri??or
python2-	40.4.3	FP	https://pypi.python.org/pypi/setuptools	"MIT License"	

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setuptools				on page 897 and ("BSD License" on page 784 or "Apache License, version 2.0" on page 776)	
python2-six	1.11.0	FP	https://pypi.python.org/pypi/six	"MIT License" on page 897	
python2-urllib3	1.23	FP	https://github.com/shazow/urllib3	"MIT License" on page 897	
python3	3.6.8	FP	https://www.python.org/	"Python License" on page 919	
python3	3.7.0	FP	https://www.python.org/	"Python License" on page 919	
python3-dnf	4.0.4	FP	https://github.com/rpm-software-management/dnf	"GNU General Public License, Version 2+ (GPLv2+)" on page 853 and GPLv2	

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python3-gpg	1.11.1	FP	https://gnupg.org/related_software/gpgme/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
python3-hawkey	0.22.0	FP	https://github.com/rpm-software-management/libdnf	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	
python3-iniparse	0.4	FP	http://code.google.com/p/iniparse/	MIT and "Python License" on page 919	
python3-libcomps	0.1.8	FP	https://github.com/rpm-software-management/libcomps	"GNU General Public License, Version 2+ (GPLv2+)" on page 853	
python3-libdnf	0.22.0	FP	https://github.com/rpm-software-management/libdnf	"GNU Lesser General Public License, Version	

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python3-libs	3.6.8	FP	https://www.python.org/	"Python License" on page 919	
python3-libs	3.7.0	FP	https://www.python.org/	"Python License" on page 919	
python3-pip	9.0.3	FP	http://www.pip-installer.org	"MIT License" on page 897	Copyright (C) 2015 - 2016 Will Bond <will@wbond.net> Copyright (C) 2012 - 2016 The Python Software Foundation Copyright (C) 2010 - 2015 Benjamin Peterson Copyright (C) 2009 - 2010 Vinay Sajip All Rights Reserved Copyright (C) 2008 - 2016 The pip developers (see AUTHORS.txt file) Copyright (C) 1998 - 2005 (Portions) created the Initial Developer are Copyright (C) 2005 - 2010 ActiveState Software Inc Copyright (C) 2013 Jonathan Hartley BSD 3-Clause license see LICENSE file Copyright (C) 2012 - 2013 Python Software Foundation Copyright (C) 2007 Google Inc Copyright (C) 2012 Giorgos

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python3-pytoml	0.1.18	FP	https://github.com/avakar/pytoml	"MIT License" on page 897	
python3-pyyaml	4.2	FP	https://github.com/yaml/pyyaml	"MIT License" on page 897	
python3-rpm	4.14.2	FP	http://www.rpm.org/	"GNU General Public License, Version 2+ (GPLv2+)" on page 853	
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python3-setuptools	40.4.3	FP	https://pypi.python.org/pypi/setuptools	"MIT License" on page 897 and ("BSD License" on page 784 or "Apache License, version 2.0" on page 776)	
python3-six	1.11.0	FP	https://pypi.python.org/pypi/six	"MIT License" on page 897	
qdox	2	FP	https://github.com/paul-hammant/qdox	"Apache License, version 2.0" on page 776	
qrencode-libs	3.4.4	FP	http://fukuchi.org/works/qrencode/	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	

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readline	7	FP	http://cnswww.cns.cwru.edu/php/chet/readline/rltop.html	"GNU General Public License, Version 3 (GPLv3)" on page 854	
rpm	4.14.2	FP	http://www.rpm.org/	"GNU General Public License, Version 2+ (GPLv2+)" on page 853	
rpm-build-libs	4.14.2	FP	http://www.rpm.org/	"GNU General Public License, Version 2+ (GPLv2+)" on page 853 and LGPLv2+ with exceptions	
rpm-libs	4.14.2	FP	http://www.rpm.org/	"GNU General Public License, Version 2+ (GPLv2+)" on page 853 and LGPLv2+	

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				with exceptions	
rpm-plugin-selinux	4.14.2	FP	http://www.rpm.org/	"GNU General Public License, Version 2+ (GPLv2+)" on page 853	
rpm-sign-libs	4.14.2	FP	http://www.rpm.org/	"GNU General Public License, Version 2+ (GPLv2+)" on page 853 and LGPLv2+ with exceptions	
rsync	3.1.3	FP	http://rsync.samba.org/	"GNU General Public License, Version 3 (GPLv3)" on page 854	
runit	2.1.2	HDS	http://smarden.org/runit/	"BSD License" on page 784	
sed	4.5	FP	http://sed.sourceforge.net/	"GNU General Public	

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				License, Version 3 (GPLv3)" on page 854	
selinux-policy	3.14.2	FP	%{git0-base}	"GNU General Public License, Version 2+ (GPLv2+)" on page 853	
selinux-policy-targeted	3.14.2	FP	%{git0-base}	"GNU General Public License, Version 2+ (GPLv2+)" on page 853	
setup	2.11.4	FP	https://pagure.io/setup/	Public Domain	
setup	2.12.1	FP	https://pagure.io/setup/	Public Domain	
shadow-utils	4.6	FP	http://pkg-shadow.alioth.debian.org/	"BSD License" on page 784 and "GNU General Public License, Version 2+ (GPLv2+)" on page 853	"Copyright (C) 2007 - 2011 Nicolas Fran??ois Copyright (C) 1983 - 1991 \"" The Regents of the University of California

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shadow-utils	4.6	FP	http://pkg-shadow.alioth.debian.org/	"BSD License" on page 784 and	

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slf4j-log4j12	1.7.25	FP	http://www.slf4j.org/	"MIT License" on page 897 and "Apache License, version 2.0" on page 776	
snappy	1.1.7	FP	https://github.com/google/snappy	"BSD License" on page 784	
sqlite-libs	3.22.0	FP	http://www.sqlite.org/	Public Domain	
sqlite-libs	3.24.0	FP	http://www.sqlite.org/	Public Domain	
strace	4.24	FP	https://strace.io	"BSD License" on	

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subscription-manager-rhsm-certificates	1.23.3	FP	http://www.candlepinproject.org/	"GNU General Public License, Version 2 (GPLv2)" on page 846	
subversion-libs	1.10.2	FP	https://subversion.apache.org/	"Apache License, version 2.0" on page 776	
systemd	238	FP	http://www.freedesktop.org/wiki/Software/systemd	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878 and "MIT License" on page 897 and "GNU General Public License, Version 2+ (GPLv2+)" on page 853	Copyright (C) 2010 Ran Benita Copyright (C) 2017 Michal Sekletar <msekleta@redhat.com> Copyright (C) 2014 Michal Schmidt Copyright (C) 2005 SUSE Linux Products GmbH Germany Copyright (C) 2012 <James.Bottomley@HansenPartnership.com> Copyright (C) 2012 B Poettering Copyright (C) 2016 - 2017 systemd's author and translators

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tomcat	9.0.10	FP	http://tomcat.apache.org/	"Apache License, version 2.0" on page 776	
tomcat-el-3.0-api	8.5.32	FP	http://tomcat.apache.org/	"Apache License, version 2.0" on page 776	
tomcat-el-3.0-api	9.0.10	FP	http://tomcat.apache.org/	"Apache License, version 2.0" on page 776	
tomcat-jsp-2.3-api	8.5.32	FP	http://tomcat.apache.org/	"Apache License, version 2.0" on page 776	
tomcat-jsp-2.3-api	9.0.10	FP	http://tomcat.apache.org/	"Apache License, version 2.0" on page 776	
tomca	9.0.10	FP	http://tomcat.apache.org/	"Apache	

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tomcat-lib	9.0.10	FP	http://tomcat.apache.org/	"Apache License, version 2.0" on page 776	
tomcat-native	1.2.17	FP	http://tomcat.apache.org/tomcat-8.0-doc/apr.html	"Apache License, version 2.0" on page 776	
tomcat-servlet-3.1-api	8.5.32	FP	http://tomcat.apache.org/	"Apache License, version 2.0" on page 776	
tomcat-servlet-4.0-api	9.0.10	FP	http://tomcat.apache.org/	"Apache License, version 2.0" on page 776	
ttmkfdir	3.0.9	FP	(none)	"GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878	

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tzdata-java	2018i	FP	https://www.iana.org/time-zones	Public Domain	
unzip	6	FP	http://www.info-zip.org/UnZip.html	"BSD License" on page 784	
utf8proc	2.1.1	FP	http://julialang.org/utf8proc/	Unicode and "MIT License" on page 897	

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util-linux	2.32.1	FP	http://en.wikipedia.org/wiki/Util-linux	GPLv2 and "GNU General Public License, Version 2+ (GPLv2+)" on page 853 and "GNU Lesser General Public License, Version 2+ (LGPLv2+)" on page 878 and "BSD License (with Advertising)" on page 785 and Public Domain	"Copyright (C) 2010 Jeroen Oortwijn <oortwijn@gmail.com> Copyright (C) 2000 - 2001 Gunnar Ritter All rights reserved Copyright (C) 1991 - 2000 Miquel van Smoorenburg <miquels@cistron.nl> Copyright (C) 2010 \"" Michael Krapp Copyright (C) 2016 David Sterba <dsterba@suse.cz> Copyright (C) 2017 Hewlett Packard Enterprise Development LP Copyright (C) 2001 - 2002 ?? Karl Eichwalder Copyright (C) 2009 Corentin Chary <corentincj@iksaif.net>

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Python 2.6.2 License

A. HISTORY OF THE SOFTWARE

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see http://www.cwi.nl) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see http://www.cnri.reston.va.us) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see http://www.zope.com). In 2001, the Python Software Foundation (PSF, see http://www.python.org/psf/) was formed, anon-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

All Python releases are Open Source (see http://www.opensource.org for the Open Source Definition). Historically, most, but not all, Python releases have also been GPL-compatible; the table below summarizes the various releases.

Release from	Derived	Year	Owner	GPL-compatible? (1)
0.9.0 thru 1.2		1991-1995	CWI	yes
1.3 thru 1.5.2	1.2	1995-1999	CNRI	yes
1.6	1.5.2	2000	CNRI	no
2.0	1.6	2000	BeOpen.com	no
1.6.1	1.6	2001	CNRI	yes (2)
2.1	2.0+1.6.1	2001	PSF	no
2.0.1	2.0+1.6.1	2001	PSF	yes
2.1.1	2.1+2.0.1	2001	PSF	yes
2.2	2.1.1	2001	PSF	yes
2.1.2	2.1.1	2002	PSF	yes
2.1.3	2.1.2	2002	PSF	yes
2.2.1	2.2	2002	PSF	yes
2.2.2	2.2.1	2002	PSF	yes
2.2.3	2.2.2	2003	PSF	yes
2.3	2.2.2	2002-2003	PSF	yes
2.3.1	2.3	2002-2003	PSF	yes
2.3.2	2.3.1	2002-2003	PSF	yes
2.3.3	2.3.2	2002-2003	PSF	yes
2.3.4	2.3.3	2004	PSF	yes
2.3.5	2.3.4	2005	PSF	yes

2.4	2.3	2004	PSF	yes
2.4.1	2.4	2005	PSF	yes
2.4.2	2.4.1	2005	PSF	yes
2.4.3	2.4.2	2006	PSF	yes
2.5	2.4	2006	PSF	yes

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Thanks to the many outside volunteers who have worked under Guido's direction to make these releases possible.

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Version 1.1 - 26 February 2007

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zlib License

zlib.h -- interface of the 'zlib' general purpose compression library version 1.2.2, October 3rd, 2004

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