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Contents

1.1 json-c 0.99.8-2.el8
   1.1.1 Available under license
1.2 procps 3.3.15
   1.2.1 Available under license
1.3 sqlite 3.26.0-12.el8
   1.3.1 Available under license
1.4 procps 3.3.15-3.el8
   1.4.1 Available under license
1.5 libsemanage 2.9-3.el8
   1.5.1 Available under license
1.6 tcp-wrappers 7.6 77.el7
   1.6.1 Available under license
1.7 tar 1.30-5.el8
   1.7.1 Available under license
1.8 libgpg-error 1.31-1.el8
   1.8.1 Available under license
1.9 dnf 4.2.23-4.el8
   1.9.1 Available under license
1.10 lua 5.3.4-11.el8
   1.10.1 Available under license
1.11 libmetalink 0.1.3 7.el8
   1.11.1 Available under license
1.12 publicsuffix-list 20180723-1.el8
   1.12.1 Available under license
1.13 libnsl2 1.2.0 2.20180605git4a062cf.el8
   1.13.1 Available under license
1.14 visual-studio-runtime 9.0.3-15.el8
   1.14.1 Available under license

1.15 file 5.33-16.el8
   1.15.1 Available under license

1.16 gawk 4.2.1-1.el8
   1.16.1 Available under license

1.17 elfutils 0.180-1.el8
   1.17.1 Available under license

1.18 expat 2.2.5-4.el8
   1.18.1 Available under license

1.19 libdb 5.3.28-39.el8
   1.19.1 Available under license

1.20 python-setuptools 39.2.0-6.el8
   1.20.1 Available under license

1.21 rsyslog 8.1911.0-6.el8
   1.21.1 Available under license

1.22 libunistring 0.9.9-3.el8
   1.22.1 Available under license

1.23 libusb 1.0.23-4.el8
   1.23.1 Available under license

1.24 spdylay 1.33.0-3.el8_2.1
   1.24.1 Available under license

1.25 findutils 4.6.0-20.el8
   1.25.1 Available under license

1.26 libgcrypt 1.8.5-4.el8
   1.26.1 Available under license

1.27 wget 1.19.5-10.el8
   1.27.1 Available under license

1.28 log-rotate 3.14.0-4.el8
   1.28.1 Available under license

1.29 iputils 20180629-2.el8
   1.29.1 Available under license

1.30 gnupg 2.2.20-2.el8
   1.30.1 Available under license

1.31 rpm 4.14.3-4.el8
   1.31.1 Available under license

1.32 telnet 0.17-73.el8_1.1
   1.32.1 Available under license

1.33 libssh 0.9.4-2.el8
<table>
<thead>
<tr>
<th>Version</th>
<th>Name</th>
<th>Description</th>
</tr>
</thead>
<tbody>
<tr>
<td>1.33.1</td>
<td>libyaml 0.1.7-5.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.34</td>
<td>texinfo 6.5-6.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.35</td>
<td>centos-repos 8-1.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.36</td>
<td>ca-certificates 2020.2.41-80.0.el8_2</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.37</td>
<td>curl 7.61.1-14.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.38</td>
<td>openssl 1.0.2k 19.el7</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.39</td>
<td>libfastjson 0.99.8-2.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.40</td>
<td>libevdev 5.1-1.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.41</td>
<td>initscripts 10.00.9-1.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.42</td>
<td>tzdata 2020a-1.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.43</td>
<td>gdbm 1.18 1.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.44</td>
<td>python-pip 9.0.3-18.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.45</td>
<td>kerberos 1.18.2-5.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.46</td>
<td>audit 3.0-0.13.20190507gitf58ec40</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.47</td>
<td>libdevmapper 1.02.171-5.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.48</td>
<td>policycoreutils 2.9-9.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.49</td>
<td>which 2.21-12.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.50</td>
<td>libsigsegv 2.11 5.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.51</td>
<td>kerberos 1.18.2-5.el8</td>
<td>Available under license</td>
</tr>
<tr>
<td>1.52</td>
<td>kerberos 1.18.2-5.el8</td>
<td>Available under license</td>
</tr>
</tbody>
</table>
1.53 gzip 1.9-9.el8
   1.53.1 Available under license
1.54 libmodulemd 2.9.4-2.el8
   1.54.1 Available under license
1.55 gpgme 1.13.1-4.el8
   1.55.1 Available under license
1.56 libestr 0.1.10-1.el8
   1.56.1 Available under license
1.57 systemd 239-40.el8
   1.57.1 Available under license
1.58 libksba 1.3.5-7.el8
   1.58.1 Available under license
1.59 lvm2 1.02.163-5.el8.0.1
   1.59.1 Available under license
1.60 python36 3.6.8-2.module_el8.3.0+389+6a62c88d
   1.60.1 Available under license
1.61 selinux 2.9-3.el8
   1.61.1 Available under license
1.62 rootfiles 8.1-22.el8
   1.62.1 Available under license
1.63 python 3.6.8-31.el8
   1.63.1 Available under license
1.64 pam 1.3.1-11.el8
   1.64.1 Available under license
1.65 zlib 1.2.11-16.el8_2
   1.65.1 Available under license
1.66 openldap 2.4.46-16.el8
   1.66.1 Available under license
1.67 centos-stream 8.3-1.el8
   1.67.1 Available under license
1.68 inetutils 0.17-73.el8_1.1
   1.68.1 Available under license
1.69 systemd-shim 239-18.el8_1.4
   1.69.1 Available under license
1.70 passwd 0.80-3.el8
   1.70.1 Available under license
1.71 bzip2 1.0.6-26.el8
   1.71.1 Available under license
1.72 openssh 7.4p1-21.el7
1.72.1 Available under license
1.73 readline 7.0 10.el8
   1.73.1 Available under license
1.74 ethtool 5.8-3.el8
   1.74.1 Available under license
1.75 cryptsetup 2.3.3-2.el8
   1.75.1 Available under license
1.76 grep 3.1-6.el8
   1.76.1 Available under license
1.77 nettle 3.4.1-2.el8
   1.77.1 Available under license
1.78 gmp 6.1.2-10.el8
   1.78.1 Available under license
1.79 cyrus-sasl 2.1.27-5.el8
   1.79.1 Available under license
1.80 json-c 0.13.1-0.2.el8
   1.80.1 Available under license
1.81 glibc 2.28
   1.81.1 Available under license
1.82 libseccomp 2.4.3-1.el8
   1.82.1 Available under license
1.83 libverto 0.3.0 5.el8
   1.83.1 Available under license
1.84 libffi 3.1-22.el8
   1.84.1 Available under license
1.85 xz 5.2.4-3.el8
   1.85.1 Available under license
1.86 brotli 1.0.6-2.el8
   1.86.1 Available under license
1.87 libcap 2.26-4.el8
   1.87.1 Available under license
1.88 python-pip 9.0.1-6.ph2
   1.88.1 Available under license
1.89 setup 2.12.2-6.el8
   1.89.1 Available under license
1.90 libdnf 0.48.0-5.el8
   1.90.1 Available under license
1.91 acl 2.2.53-1.el8
   1.91.1 Available under license
1.92 libidn 2.2.0-1.el8  
 1.92.1 Available under license
1.93 libutempter 1.1.6 14.el8  
 1.93.1 Available under license
1.94 pcre2 10.32-2.el8  
 1.94.1 Available under license
1.95 libassuan 2.5.1-3.el8  
 1.95.1 Available under license
1.96 iproute 5.3.0-5.el8  
 1.96.1 Available under license
1.97 libtirpc 1.1.4-4.el8  
 1.97.1 Available under license
1.98 cracklib 2.9.6-15.el8  
 1.98.1 Available under license
1.99 gnutls 3.6.14-6.el8  
 1.99.1 Available under license
1.100 nghttp2 1.33.0-3.el8_2.1  
 1.100.1 Available under license
1.101 libpsl 0.20.2-6.el8  
 1.101.1 Available under license
1.102 diffutils 3.6-6.el8  
 1.102.1 Available under license
1.103 fdisk 2.32.1  
 1.103.1 Available under license
1.104 crypto-policies 20200713-1.git51d1222.el8  
 1.104.1 Available under license
1.105 libmnl 1.0.4-6.el8  
 1.105.1 Available under license
1.106 attr 2.4.48-3.el8  
 1.106.1 Available under license
1.107 iconv 2.28  
 1.107.1 Available under license
1.108 net-tools 2.0-0.52.20160912git.el8  
 1.108.1 Available under license
1.109 glib 2.56.4-8.el8  
 1.109.1 Available under license
1.110 libarchive 3.3.3-1.el8  
 1.110.1 Available under license
1.111 kmod 25-16.el8
1.111.1 Available under license
1.112 libusbx 1.0.23-4.el8
   1.112.1 Available under license
1.113 berkeley-db 5.3.28
   1.113.1 Available under license
1.114 shadow 4.6-11.el8
   1.114.1 Available under license
1.115 sed 4.5-1.el8
   1.115.1 Available under license
1.116 ima-evm-utils 1.1-5.el8
   1.116.1 Available under license
1.117 ncurses 6.1-7.20180224.el8
   1.117.1 Available under license
1.118 epel-release 8-8.el8
   1.118.1 Available under license
1.119 iptables 1.8.4-15.el8
   1.119.1 Available under license
1.120 net-tools 2.10
   1.120.1 Available under license
1.121 libcomps 0.1.11 4.el8
   1.121.1 Available under license
1.122 libsolv 0.7.11-1.el8
   1.122.1 Available under license
1.123 npth 1.5-4.el8
   1.123.1 Available under license
1.124 libsepol 2.9-1.el8
   1.124.1 Available under license
1.125 zlib 1.2.7 18.el7
   1.125.1 Available under license
1.126 sudo 1.8.29-6.el8
   1.126.1 Available under license
1.127 shadow-utils 4.6-11.el8
   1.127.1 Available under license
1.128 traceroute 2.1.0-6.el8
   1.128.1 Available under license
1.129 vixie-cron 1.11-16.20150630git.el8
   1.129.1 Available under license
1.130 d-bus 1.12.8-11.el8
   1.130.1 Available under license
1.131 e2fsprogs 1.45.6-1.el8
  1.131.1 Available under license
1.132 fipscheck 1.4.1-6.el7
  1.132.1 Available under license
1.133 libcap-ng 0.7.9-5.el8
  1.133.1 Available under license
1.134 cpp 8.4.1-1.el8
  1.134.1 Available under license
1.135 libcap 2.26-4.el8
  1.135.1 Available under license
1.136 pcre 8.42 4.el8
  1.136.1 Available under license
1.137 p11-kit 0.23.14-5.el8_0
  1.137.1 Available under license
1.138 glibc 2.28-129.el8
  1.138.1 Available under license
1.139 crontabs 1.11 16.20150630git.el8
  1.139.1 Available under license
1.140 iproute 5.3.0-5.el8
  1.140.1 Available under license
1.141 openssl 1.1.1g-11.el8
  1.141.1 Available under license
1.142 udev 239-18.el8_1.1
  1.142.1 Available under license
1.143 libtasn 4.13-3.el8
  1.143.1 Available under license
1.144 tcp-dump 4.9.3-1.el8
  1.144.1 Available under license
1.145 coreutils 8.30-8.el8
  1.145.1 Available under license
1.146 glib 2.56.4-8.el8
  1.146.1 Available under license
1.147 vim 8.0.1763-15.el8
1.148 util-linux 2.32.1-24.el8
  1.148.1 Available under license
1.149 chkconfig 1.13-2.el8
  1.149.1 Available under license
1.150 bash 4.4.19-12.el8
  1.150.1 Available under license
1.151 zstd 1.4.4-1.el8
   1.151.1 Available under license
1.152 bc 1.07
   1.152.1 Available under license
1.153 dc 1.4
   1.153.1 Available under license
1.154 cronie 1.5.2-4.el8
   1.154.1 Available under license
1.155 libasyncns 239-18.el8
   1.155.1 Available under license
1.156 libpcap 1.9.1-4.el8
   1.156.1 Available under license
1.157 popt 1.16-14.el8
   1.157.1 Available under license
1.158 libuser 0.62 23.el8
   1.158.1 Available under license
1.159 keyutils 1.5.10 6.el8
   1.159.1 Available under license
1.160 mpfr 3.1.6-1.el8
   1.160.1 Available under license
1.161 hostname 3.20 6.el8
   1.161.1 Available under license
1.162 strace 5.1-1.el8
   1.162.1 Available under license
1.163 lz4 1.8.3-2.el8
   1.163.1 Available under license
1.164 rfkill 2.32.1-24.el8
   1.164.1 Available under license
1.165 libpwquality 1.4.0-9.el8
   1.165.1 Available under license
1.166 libssh2 1.8.0-3.el7
   1.166.1 Available under license
1.167 libxml 2.9.7-8.el8
   1.167.1 Available under license

1.1 json-c 0.99.8-2.el8
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1.5 libsemanage 2.9-3.el8

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1.10 lua 5.3.4-11.el8

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1.11 libmetalink 0.1.3 7.el8

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1.12 publicsuffix-list 20180723-1.el8

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1.17 elfutils 0.180-1.el8

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ASM: a very small and fast Java bytecode manipulation framework

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threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data
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Otherwise, if the work is a derivative of the Library, you may
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Any executables containing that work also fall under Section 6,
whether or not they are linked directly with the Library itself.
6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

You must give prominent notice with each copy of the work that the Library is used in it and that the Library and its use are covered by this License. You must supply a copy of this License. If the work during execution displays copyright notices, you must include the copyright notice for the Library among them, as well as a reference directing the user to the copy of this License. Also, you must do one of these things:

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1.25 findutils 4.6.0-20.el8
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DNS resolver (dirmngr/dns.c)

dns.c - Recursive, Reentrant DNS Resolver.

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1.35 texinfo 6.5-6.el8
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1.36 centos-repos 8-1.el8

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==============

libcurl can be built to use a fair amount of various third party libraries,
libraries that are written and provided by other parties that are distributed
using their own licenses. Even libcurl itself contains code that may cause
problems to some. This document attempts to describe what licenses libcurl and
the other libraries use and what possible dilemmas linking and mixing them all
can lead to for end users.

I am not a lawyer and this is not legal advice!

One common dilemma is that [GPL](https://www.gnu.org/licenses/gpl.html)
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particular problem was addressed when the [Modified BSD
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## libcurl

Uses an [MIT style license](https://curl.haxx.se/docs/copyright.html) that is
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## OpenSSL

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## c-ares

(Used for asynchronous name resolves) Uses an MIT license that is very liberal and imposes no restrictions on any other library or part you may link with.

## zlib

(Used for compressed Transfer-Encoding support) Uses an MIT-style license that shouldn't collide with any other library.

## MIT Kerberos

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## Heimdal

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## OpenLDAP

(Used for LDAP support) Uses a Modified BSD-style license. Since libcurl uses OpenLDAP as a shared library only, I have not heard of anyone that ships OpenLDAP linked with libcurl in an app.

## libssh2

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1.39 openssl 1.0.2k 19.el7

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1.40 libfastjson 0.99.8-2.el8
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1.41 libevdev 5.1-1.el8

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- Chris McDonough, 2011/02/16
- Wichert Akkerman, 2012/02/02

A. HISTORY OF THE SOFTWARE
==========================

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, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of
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.

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    lib/gssapi/mechglue/g_acquire_cred.c
    lib/gssapi/mechglue/g_canon_name.c
    lib/gssapi/mechglue/g_compare_name.c
    lib/gssapi/mechglue/g_context_time.c
    lib/gssapi/mechglue/g_delete_sec_context.c
    lib/gssapi/mechglue/g_dsp_name.c
    lib/gssapi/mechglue/g_dsp_status.c
    lib/gssapi/mechglue/g_dup_name.c
    lib/gssapi/mechglue/g_exp_sec_context.c
    lib/gssapi/mechglue/g_export_name.c
    lib/gssapi/mechglue/g_glue.c
    lib/gssapi/mechglue/g_imp_name.c
    lib/gssapi/mechglue/g_imp_sec_context.c
    lib/gssapi/mechglue/g_init_sec_context.c
and the initial implementation of incremental propagation, including the following new or changed files:

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kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
lib/kdb/kdb_log.h
lib/krb5/error_tables/kdb5_err.et
kprop/kpropd_rpc.c
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lib/gssapi/generic/gssapi_err_generic.et
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the following new or changed files:

include/iprop_hdr.h
kadmin/server/ipropd_svc.c
lib/kdb/iprop.x
lib/kdb/kdb_convert.c
lib/kdb/kdb_log.c
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cmd/krb5/kadmin/server/ipropd_svc.c
```
```
cmd/krb5/kproplog/kproplog.c
```
```
cmd/krb5/slave/kpropd_rpc.c
```
```
lib/gss_mechs/mech_krb5/etc/kdb5_err.c
```
```
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
```
```
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
```
```
l商/krb5/kadm5/kadm_host_srv_names.c
```
```
l商/krb5/kdb/kdb_convert.c
```
```
l商/krb5/kdb/kdb_hdr.h
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```
l商/krb5/kdb/kdb_log.c
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l商/krb5/kdb/kdb_log.h
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lib/gss/g_accept_sec_context.c
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lib/gss/g_acquire_cred.c
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lib/gss/g_canon_name.c
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lib/gss/g_compare_name.c
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lib/gss/g_context_time.c
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lib/gss/g_delete_sec_context.c
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lib/gss/g_dsp_name.c
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lib/gss/g_dsp_status.c
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lib/libgss/g_utils.c
lib/libgss/g_verify.c
lib/libgss/gssd_pname_to_uid.c
uts/common/gssapi/include/gssapi_err_generic.h
uts/common/gssapi/include/mechglueP.h

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A. HISTORY OF THE SOFTWARE

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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was 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.

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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, which became Zope Corporation. In 2001, the Python Software Foundation (PSF, see https://www.python.org/psf/) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation was 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.

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1.64 pam 1.3.1-11.el8

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One of the key reasons we got delayed on the CentOS-6 release was lack of suitable build resources, especially when we had to repeatedly build large chunks of code. Norwood S came forward and worked with me to setup a large build machine, then tune the build process and help improve the overall build, test and validate process we were using. This build machine he donated to the project was about 5 times more capable than the entire buildsystem we had. And he did this out of his own pocket, from his own time, and has since upgraded the machine as well. It's now a 128GB, 48 core machine, with 4 SSD's and 4 sata disks ; but the key metric is that it can build from source, the entire CentOS-7 distro in under 22 hrs.
Having this capability was key in our ability to build, test and deliver CentOS-7 as rapidly as we have been able to.

We'd like to dedicate the CentOS-7 Release to Mr Norwood S, of Phoenix, AZ, USA for his continued support for the project.

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The Red Hat developers, without whom CentOS would look very different

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1.69 systemd-shim 239-18.el8_1.4

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1.86 brotli 1.0.6-2.el8

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1.88 python-pip 9.0.1-6.ph2

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1.94 pcre2 10.32-2.el8

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THE BASIC LIBRARY FUNCTIONS

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1.95 libassuan 2.5.1-3.el8
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   a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

   b) Use a suitable shared library mechanism for linking with the Library. A suitable mechanism is one that (1) uses at runtime a copy of the library already present on the user's computer system, rather than copying library functions into the executable, and (2) will operate properly with a modified version of the library, if the user installs one, as long as the modified version is interface-compatible with the version that the work was made with.

   c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

   d) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.

   e) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

For an executable, the required form of the "work that uses the
Library" must include any data and utility programs needed for reproducing the executable from it. However, as a special exception, the materials to be distributed need not include anything that is normally distributed (in either source or binary form) with the major components (compiler, kernel, and so on) of the operating system on which the executable runs, unless that component itself accompanies the executable.

It may happen that this requirement contradicts the license restrictions of other proprietary libraries that do not normally accompany the operating system. Such a contradiction means you cannot use both them and the Library together in an executable that you distribute.

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   b) Give prominent notice with the combined library of the fact that part of it is a work based on the Library, and explaining where to find the accompanying uncombined form of the same work.

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<one line to give the library's name and a brief idea of what it does.>
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Also add information on how to contact you by electronic and paper mail.

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

Yoyodyne, Inc., hereby disclaims all copyright interest in the library `Frob' (a library for tweaking knobs) written by James Random Hacker.

<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice

That's all there is to it!
This package was debianized by Jean Pierre LeJacq
<jplejacq@quoininc.com> on Wed, 25 Feb 1998. Martin Pitt
<martin@piware.de> was the package's maintainer up to version
2.7.19-1. The current maintainer is Jan Dittberner
<jandd@debian.org>.

It was downloaded from http://sourceforge.net/projects/cracklib

Copyright (c) 1993 Alec Muffett <alecm@crypto.dircon.co.uk>,
Copyright (c) 2005-2009 Nathan Neulinger <nneul@umr.edu>,
Copyright (c) 2008-2009 Jan Dittberner <jan@dittberner.info>

Modifications: Added cronjob, configuration file, and man pages.

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obtain it by writing to the Free Software Foundation, Inc., 51
Franklin St, Fifth Floor, Boston, MA 02110-1301, USA.

Copyright information:

CrackLib was originally licensed with a variant of the Artistic
license. In the interests of wider acceptance and more modern
licensing, it was switched with the original author's blessing to GPL
v2.

This approval was carried out in email discussions in 2005, and has
been reconfirmed as of 2007-10-01 with the following email from Alec
Muffett. Cracklib's license was changed from the GPL to the LGPL after
consensus of all previous developers in October 2008, effective with
release 2.8.15 released on 2009-11-19. See the email discussion below
for both license changes.

_______________________________________
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

Discussion thread from mailing list archive, with approval from everyone actively involved or holding original licensing rights included.

[Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2007-10-02 01:16
Attachments: Message as HTML

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University of Missouri - Rolla Phone: (573) 341-6679
UMR Information Technology Fax: (573) 341-4216

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> [mailto:cracklib-devel-bounces@li...] On Behalf Of Mike Frysinger
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Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2007-10-02 08:57
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I am sympathetic. Guys, what do you reckon?

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From: Devin Reade <gdr@gn...> - 2007-10-02 15:04
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If it's sinful, it's more fun.

Re: [Cracklib-devel] cracklib license
From: Nalin Dahyabhai <nalin@re...> - 2008-01-28 16:32
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My apologies for not chiming in in anything resembling a reasonable
timeframe.

I'd also suggest the LGPL, for the reason you noted above. Alternately,
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In any case, I thank you both for working on sorting this out.

Cheers,

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From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34

Attachments: Message as HTML
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Nathan Neulinger is the only one who can actually make said change ...
-mike

-----------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
-----------

CrackLib was originally licensed with a variant of the Artistic license. In the interests of wider acceptance and more modern licensing, it was switched with the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address that was used at the time. For any future emails regarding this, please use nneul@neulinger.org.

-------------------------------------
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
EFFECTIVE OCT 2008, LICENSE IS BEING CHANGED TO LGPL-2.1 (though not reflected in released code until Nov 2009 - slow release cycle...)

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> > > linked with any code, not just GPL....
> >
> > My apologies for not chiming in in anything resembling a reasonable
> > timeframe.
> >
> > I'd also suggest the LGPL, for the reason you noted above. Alternately,
> > GPLv2 with the option of using the library under a later version of the
> > GPL would permit applications which were released under version 3 of the
> > GPL to use the library, too, which would be sufficient for the packages
> > which are included in Fedora. FWIW, I'd personally lean toward LGPL.
> >
> > In any case, I thank you both for working on sorting this out.

looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make the change now ?

-mike

Re: [Cracklib-devel] cracklib license
From: Alec Muffett <alecm@cr...> - 2008-10-05 23:18

> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we make
> > the change now ?

yes. go for it. thanks++

-a

Re: [Cracklib-devel] cracklib license
From: Mike Frysinger <vapier@ge...> - 2008-10-25 22:34
On Sunday 05 October 2008, Alec Muffett wrote:

> >> In any case, I thank you both for working on sorting this out.
> >
> > looks like everyone is OK with LGPL-2.1 (GNU Lesser license), so can we
> > make the change now ?
> >
> yes. go for it. thanks++

Nathan Neulinger is the only one who can actually make said change ...

-mike

--------
BELOW IS ORIGINAL LICENSING DISCUSSION RE CHANGING TO GPL from Artistic.
--------
CrackLib was originally licensed with a variant of the Artistic license. In the
interests of wider acceptance and more modern licensing, it was switched with
the original author's blessing to GPL v2.

This approval was carried out in email discussions in 2005, and has been reconfirmed
as of 2007-10-01 with the following email from Alec Muffett.

The below email references nneul@umr.edu address, as that is the address
that was used at the time. For any future emails regarding this, please
use nneul@neulinger.org.

-------------------------------------
From alecm@crypticide.com Mon Oct  1 12:26:03 2007
Received: from umr-exproto2.cc.umr.edu ([131.151.0.192]) by UMR-CMAIL1.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:03 -0500
Received: from scansrv2.srv.mst.edu ([131.151.1.114]) by umr-exproto2.cc.umr.edu with Microsoft
SMTPSVC(6.0.3790.3959);
   Mon, 1 Oct 2007 12:26:02 -0500
Received: (qmail 8022 invoked from network); 1 Oct 2007 16:59:55 -0000
Received: from smtp1.srv.mst.edu (131.151.1.43)
   by scanin-ipvs.cc.umr.edu with SMTP; 1 Oct 2007 16:59:55 -0000
Received: from spunky-mail-mx8.g.dreamhost.com (mx1.spunky.mail.dreamhost.com [208.97.132.47])
   by smtp1.srv.mst.edu (8.13.1/8.13.1) with ESMTP id l91Gxtpr020623
   for <nneul@umr.edu>; Mon, 1 Oct 2007 11:59:55 -0500
Received: from rutherford.zen.co.uk (rutherford.zen.co.uk [212.23.3.142])
The license for my code in the Cracklib distribution is henceforth GPL.

Happy now? :-)

-a
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====================================================================

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")mg}外## Constant-time SSSE3 AES core implementation.
### version 0.1
### By Mike Hamburg (Stanford University), 2009
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### For details see https://shiftleft.org/papers/vector_aes/ and
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Version 3, 29 June 2007

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1.101 libpsl 0.20.2-6.el8

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1.102 diffutils 3.6-6.el8

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If distribution of object code is made by offering access to copy from a designated place, then offering equivalent access to copy the source code from the same place satisfies the requirement to distribute the source code, even though third parties are not compelled to copy the source along with the object code.

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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When a "work that uses the Library" uses material from a header file that is part of the Library, the object code for the work may be a derivative work of the Library even though the source code is not. Whether this is true is especially significant if the work can be linked without the Library, or if the work is itself a library. The threshold for this to be true is not precisely defined by law.

If such an object file uses only numerical parameters, data structure layouts and accessors, and small macros and small inline functions (ten lines or less in length), then the use of the object file is unrestricted, regardless of whether it is legally a derivative work. (Executables containing this object code plus portions of the Library will still fall under Section 6.)

Otherwise, if the work is a derivative of the Library, you may distribute the object code for the work under the terms of Section 6. Any executables containing that work also fall under Section 6, whether or not they are linked directly with the Library itself.
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1.107 iconv 2.28

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Because of this blurred distinction, using the ordinary General
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concluded that weaker conditions might promote sharing better.

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The source code for a work means the preferred form of the work for making modifications to it. For an executable work, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the executable. However, as a special exception, the source code distributed need not include
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1.109 glib 2.56.4-8.el8
1.109.1 Available under license:
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c) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.

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1.110 libarchive 3.3.3-1.el8

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1.114 shadow 4.6-11.el8

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1.118 epel-release 8-8.el8
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(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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<signature of Ty Coon>, 1 April 1990
Ty Coon, President of Vice
That's all there is to it!

1.125 zlib 1.2.7 18.el7

1.125.1 Available under license:
Boost Software License - Version 1.0 - August 17th, 2003

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1.126 sudo 1.8.29-6.el8

1.126.1 Available under license:
No license file was found, but licenses were detected in source scan.

License: ISC

Found in path(s):
* /opt/cola/permits/1102850377_1604095642.92/0/sudo-1-8-29-6-el8-src-tar/SPECS/sudo.spec
No license file was found, but licenses were detected in source scan.

diff -up ./config.h.in.CVE-2019-19234 ./config.h.in
--- ./config.h.in.CVE-2019-192342019-10-28 13:28:52.000000000 +0100
+++ ./config.h.in2020-01-14 15:53:40.506988064 +0100
@@ -334,6 +334,9 @@
/* Define to 1 if you have the `getuserattr' function. */
#undef HAVE_GETUSERATTR
/* Define to 1 if you have the `getusershell' function. */
+#undef HAVE_GETUSERSHELL
+
/* Define to 1 if you have the `getutid' function. */
#define HAVE_GETUTID

diff -up ./configure.ac.CVE-2019-19234 ./configure.ac
--- ./configure.ac.CVE-2019-19234	2020-01-14 15:53:40.496987995 +0100
+++ ./configure.ac	2020-01-14 15:53:40.509988084 +0100
@@ -2562,6 +2562,10 @@ AC_CHECK_FUNCS([getdelim], [], [ SUDO_APPEND_COMPAT_EXP(sudo_getdelim)
     COMPAT_TEST_PROGS="$[COMPAT_TEST_PROGS]$[COMPAT_TEST_PROGS+ ]getdelim_test"
])
+AC_CHECK_FUNCS([getusershell], [], [
+ AC_LIBOBJ(getusershell)
+ SUDO_APPEND_COMPAT_EXP(sudo_getusershell)
+])
AC_CHECK_FUNCS([reallocarray], [], [
 AC_LIBOBJ(reallocarray)
 SUDO_APPEND_COMPAT_EXP(sudo reallocarray)

diff -up ./configure.CVE-2019-19234 ./configure
+++ ./configure.CVE-2020-01-14 15:53:40.509988084 +0100
@@ -19395,6 +19395,32 @@ esac
fi
done

+for ac_func in getusershell
+do :
+  ac_fn_c_check_func "$LINENO" "getusershell" "ac_cv_func_getusershell"
+if test "x$ac_cv_func_getusershell" = xyes; then :
+ cat >>confdefs.h <<_ACEOF
+#define HAVE_GETUSERSHELL 1
+_ACEOF
+
+else
+
+  case " $LIBOBJS " in
+    "getusershell."* ac_objext "*" ) ;;
+  *) LIBOBJS="$LIBOBJS getusershell."ac_objext"
+  ;;
+esac
+
+for _sym in sudo_getusershell; do
+COMPAT_EXP="$[COMPAT_EXP]$[_sym]
+"
for ac_func in reallocarray
do :
    ac_fn_c_check_func "$LINENO" "reallocarray" "ac_cv_func_reallocarray"
diff -up ./doc/sudoers.man.in.CVE-2019-19234 ./doc/sudoers.man.in
--- ./doc/sudoers.man.in.CVE-2019-192342020-01-14 15:53:40.503988043 +0100
+++ ./doc/sudoers.man.in2020-01-14 15:53:40.510988091 +0100
@@ -2959,6 +2959,28 @@ Older versions of
\fBsudo\fR always allowed matching of unknown user and group IDs.
.TP 18n
+runas_check_shell
+.br
+If enabled,
+\fBsudo\fR will only run commands as a user whose shell appears in the
+\fI/etc/shells\fR file, even if the invoking user's
+\fI/runas_List\fR
+would otherwise permit it.
+If no
+\fI/etc/shells\fR file is present, a system-dependent list of built-in default shells is used.
+On many operating systems, system users such as
+\fI/bin\fR,
+do not have a valid shell and this flag can be used to prevent
+commands from being run as those users.
+This flag is
+\fIoff\fR
+by default.
+.sp
+This setting is only supported by version 1.8.29 or higher.
+.TP 18n
runaspw
If set,
\fBsudo\fR
diff -up ./doc/sudoers.mdoc.in.CVE-2019-19234 ./doc/sudoers.mdoc.in
--- ./doc/sudoers.mdoc.in.CVE-2019-192342020-01-14 15:53:40.504988050 +0100
+++ ./doc/sudoers.mdoc.in2020-01-14 15:53:40.510988091 +0100
@@ -2784,6 +2784,26 @@ This setting is only supported by versio
Older versions of
\Nm sudo
always allowed matching of unknown user and group IDs.

Open Source Used In Polaris Guestshell 17.4 aarch64 1507
If enabled, 
\texttt{runas\_check\_shell} will only run commands as a user whose shell appears in the \texttt{/etc/shells} file, even if the invoking user's \texttt{Runas\_List} would otherwise permit it.

If no \texttt{/etc/shells} file is present, a system-dependent list of built-in default shells is used. On many operating systems, system users such as \texttt{bin}, do not have a valid shell and this flag can be used to prevent commands from being run as those users.

This flag is \texttt{off} by default.

This setting is only supported by version 1.8.29 or higher.

\texttt{runaspw}

If set, 

\texttt{diff -up /include/sudo\_compat.h.CVE-2019-19234 /include/sudo\_compat.h
--- /include/sudo\_compat.h.CVE-2019-192342019-10-28 13:28:52.000000000 +0100
+++ /include/sudo\_compat.h2020-01-14 15:53:40.511988098 +0100
@@ -407,6 +407,17 @@ __dso\_public ssize\_t sudo\_getdelim(char
#pragma once
#define getdelim(_a, _b, _c, _d) sudo\_getdelim((_a), (_b), (_c), (_d))
#endif /* HAVE\_GETDELIM */

#ifndef HAVE\_GETUSERSHELL
__dso\_public char *sudo\_getusershell(void);
#endif /* HAVE\_GETUSERSHELL */

#ifndef HAVE\_UTIMENSAT
__dso\_public int sudo\_utimensat(int fd, const char *file, const struct timespec *times, int flag);
#endif /* HAVE\_UTIMENSAT */

\texttt{diff -up /lib\util\getusershell.c.CVE-2019-19234 /lib\util\getusershell.c
--- /lib\util\getusershell.c.CVE-2019-192342020-01-14 15:53:40.511988098 +0100
+++ /lib\util\getusershell.c2020-01-14 15:53:40.511988098 +0100
@@ -0,0 +1,138 @@
+/*
+ * SPDX-License-Identifier: ISC
+ */
+
+ Copyright (c) 2019 Todd C. Miller <Todd.Miller@courtesan.com>
+
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+ ACTION OF CONTRACT, NEGLIGENCE OR OTHER TORTIOUS ACTION, ARISING OUT OF
+ OR IN CONNECTION WITH THE USE OR PERFORMANCE OF THIS SOFTWARE.
+ */
+
+ This is an open source non-commercial project. Dear PVS-Studio, please check it.
+ PVS-Studio Static Code Analyzer for C, C++ and C#: http://www.viva64.com
+ */
+
+#include <config.h>
+
+#include <sys/types.h>
+
+#include <stdio.h>
+#include <stdlib.h>
+#include <string.h>
+#include <ctype.h>
+#include <errno.h>

#define DEFAULT_TEXT_DOMAIN     "sudo"

+ include "sudo_gettext.h" /* must be included before sudo_compat.h */
+
+ include "sudo_compat.h"
+ include "sudo_debug.h"
+ include "sudo_util.h"
+
+ static char **allowed_shells, **current_shell;
+ static char *default_shells[] = {
+    "/bin/sh",
+    "/bin/ksh",
+    "/bin/ksh93",
+    "/bin/bash",
+    "/bin/dash",
+    "/bin/zsh",
+    "/bin/csh",
+    "/bin/tcsh",
+    NULL
+};
+
+static char **
+read_shells(void)
+{
+    size_t maxshells = 16, nshells = 0;
+    size_t linesize = 0;
+    char *line = NULL;
+    FILE *fp;
+    debug_decl(read_shells, SUDO_DEBUG_UTIL)
+
+    if ((fp = fopen("/etc/shells", "r")) == NULL)
+        goto bad;
+
+    free(allowed_shells);
+    allowed_shells = reallocarray(NULL, maxshells, sizeof(char *));
+    if (allowed_shells == NULL)
+        goto bad;
+
+    while (sudo_parseln(&line, &linesize, NULL, fp, PARSELN_CONT_IGN) != -1) {
+        if (nshells + 1 >= maxshells) {
+            char **new_shells;
+            new_shells = reallocarray(NULL, maxshells + 16, sizeof(char *));
+            if (new_shells == NULL)
+                goto bad;
+            allowed_shells = new_shells;
+            maxshells += 16;
+        }
+        if ((allowed_shells[nshells] = strdup(line)) == NULL)
+            goto bad;
+        nshells++;
+        allowed_shells[nshells] = NULL;
+    }
+    if ((allowed_shells[nshells] = strdup(line)) == NULL)
+        goto bad;
+    nshells++;
+    }
+    free(allowed_shells[nshells] = NULL;
+
+    free(line);
+    fclose(fp);
+    debug_return_ptr(allowed_shells);
+bad:
+    free(line);
+    if (fp != NULL)
+        fclose(fp);
+    while (nshells != 0)
+        free(allowed_shells[--nshells]);
+    free(allowed_shells);
+ allowed_shells = NULL;
+ debug_return_ptr(default_shells);
+
+ void
+ sudo_setusershell(void)
+ {
+    debug_decl(setusershell, SUDO_DEBUG_UTIL)
+    
+    current_shell = read_shells();
+    
+    debug_return;
+ }
+ 
+ void
+ sudo_endusershell(void)
+ {
+    debug_decl(endusershell, SUDO_DEBUG_UTIL)
+    
+    if (allowed_shells != NULL) {
+        char **shell;
+        
+        for (shell = allowed_shells; *shell != NULL; shell++)
+            free(*shell);
+        free(allowed_shells);
+        allowed_shells = NULL;
+    }
+    current_shell = NULL;
+    
+    debug_return;
+ }
+ 
+ char *
+ sudo_getusershell(void)
+ {
+    debug_decl(getusershell, SUDO_DEBUG_UTIL)
+    
+    if (current_shell == NULL)
+        current_shell = read_shells();
+    
+    debug_return_str(*current_shell++);
+ }
+ 
+ diff -up ./lib/util/Makefile.in.CVE-2019-19234 ./lib/util/Makefile.in
+++ ./lib/util/Makefile.in.CVE-2020-01-14 15:53:40.511988098 +0100
@@ -678,6 +678,18 @@ gettime.i: $(srcdir)/gettime.c $(incdir)
 $(CC) -E -o $@ $(CPPFLAGS) $<
 gettime.plog: gettime.i
rm -f $@; pvs-studio --cfg $(PVS_CFG) --sourcetree-root $(top_srcdir) --skip-cl-exe yes --source-file $(srcdir)/gettime.c --i-file $< --output-file $@
+getusershell.lo: $(srcdir)/getusershell.c $(incdir)/stdbool.h \n+ $(incdir)/sudo_compat.h $(incdir)/sudo_debug.h \n+ $(incdir)/sudo_gettext.h $(incdir)/sudo_queue.h \n+ $(incdir)/sudo_util.h $(top_builddir)/config.h
+$($LIBTOOL) $(LTFLAGS) --mode=compile $(CC) -c -o $@ $(CPPFLAGS) $(CFLAGS) $(ASAN_CFLAGS) $(PIE_CFLAGS) $(SSP_CFLAGS) $(srcdir)/getusershell.c
+getusershell.i: $(srcdir)/getusershell.c $(incdir)/stdbool.h \n+ $(incdir)/sudo_compat.h $(incdir)/sudo_debug.h \n+ $(incdir)/sudo_gettext.h $(incdir)/sudo_queue.h \n+ $(incdir)/sudo_util.h $(top_builddir)/config.h
+$($CC) -E -o $@ $(CPPFLAGS) $<
+getusershell.plog: getusershell.i
+rm -f $@; pvs-studio --cfg $(PVS_CFG) --sourcetree-root $(top_srcdir) --skip-cl-exe yes --source-file $(srcdir)/getusershell.c --i-file $< --output-file $@
gidlist.lo: $(srcdir)/gidlist.c $(incdir)/stdbool.h \n+ $(incdir)/sudo_compat.h $(incdir)/sudo_debug.h \n+ $(incdir)/sudo_fatal.h $(incdir)/sudo_gettext.h \n+ $(incdir)/sudo_util.h $(top_builddir)/config.h
diff -up ./MANIFEST.CVE-2019-19234 ./MANIFEST
+++ ./MANIFEST2020-01-14 15:53:40.506988064 +0100
@@ -103,6 +103,7 @@ lib/util/getgrouplist.c
 lib/util/gethostname.c
 lib/util/getopt_long.c
 lib/util/gettime.c
+lib/util/getusershell.c
 lib/util/gidlist.c
 lib/util/glob.c
 lib/util/inet_ntop.c
diff -up ./mkdep.pl.CVE-2019-19234 ./mkdep.pl
+++ ./mkdep.pl2020-01-14 15:53:40.511988098 +0100
@@ -116,7 +116,7 @@ sub mkdep {
 # XXX - fill in AUTH_OBJS from contents of the auth dir instead
 $makefile =~ s:\@AUTH_OBJS\@:afs.lo aix_auth.lo bsauth.lo dce.lo ftk.lo getspwuid.lo kerb5.lo pam.lo passwd.lo rfc1938.lo secureware.lo securid5.lo sia.lo:;
 $makefile =~ s:\@DIGEST\@:digest.lo digest_openssl.lo digest_gcrypt.lo:;
- $makefile =~ s:\@LTLIBOBJS\@:arc4random.lo arc4random_uniform.lo closefrom.lo fnmatch.lo getaddrinfo.lo getcwd.lo getentropy.lo getgrouplist.lo getdelim.lo getopt_long.lo glob.lo inet_ntop.lo isblank.lo memrchr.lo memset_s.lo mksiglist.lo mksigname.lo mktemp.lo nanosleep.lo pw_dup.lo reallocarray.lo sha2.lo sig2str.lo siglist.lo signame.lo snprintf.lo str2sig.lo strcat.lo strlcpy.lo strndup.lo strnlc.lo strsignal.lo utimens.lo vsyslog.lo pipe2.lo:;
+ $makefile =~ s:\@LTLIBOBJS\@:arc4random.lo arc4random_uniform.lo closefrom.lo fnmatch.lo getaddrinfo.lo getcwd.lo getentropy.lo getgrouplist.lo getdelim.lo getopt_long.lo getsusershell.lo glob.lo inet_ntop.lo inet_pton.lo isblank.lo memchr.lo memset_s.lo mksiglist.lo mksigname.lo mktemp.lo nanosleep.lo pw_dup.lo reallocarray.lo sha2.lo sig2str.lo siglist.lo signame.lo snprintf.lo str2sig.lo strcat.lo strlcpy.lo strndup.lo strnlc.lo strsignal.lo utimens.lo vsyslog.lo pipe2.lo:;
# Parse OBJ lines
my %objs;
diff -up ./plugins/sudoers/check.c.CVE-2019-19234 ./plugins/sudoers/check.c
+++ ./plugins/sudoers/check.c2020-01-14 15:53:40.51988098 +0100
@@ -333,3 +333,28 @@ get_authpw(int mode)
    debug_return_ptr(pw);
}
+
+* Returns true if the specified shell is allowed by /etc/shells, else false.
+*/
+bool
+check_user_shell(const struct passwd *pw)
+{
+    const char *shell;
+    debug_decl(check_user_shell, SUDOERS_DEBUG_AUTH)
+
+    if (!def_runas_check_shell)
+        debug_return_bool(true);
+
+    sudo_debug_printf(SUDO_DEBUG_INFO,
+        "%s: checking /etc/shells for %s", __func__, pw->pw_shell);
+
+    setusershell();
+    while ((shell = getusershell()) != NULL) {
+        if (strcmp(shell, pw->pw_shell) == 0)
+            debug_return_bool(true);
+    }
+    endusershell();
+
+    debug_return_bool(false);
+}
diff -up ./plugins/sudoers/def_data.c.CVE-2019-19234 ./plugins/sudoers/def_data.c
--- ./plugins/sudoers/def_data.c.CVE-2019-192342020-01-14 15:53:40.504988050 +0100
+++ ./plugins/sudoers/def_data.c2020-01-14 15:53:40.511988098 +0100
@@ -518,6 +518,10 @@ struct sudo_defs_types sudo_defs_table[
    }, { T_FLAG,
        N_("Allow the use of unknown runas user and/or group ID"),
        NULL,
        }, { T_FLAG,
        N_("Only permit running commands as a user with a valid shell"),
        NULL,
        }]; { NULL, 0, NULL
#define def_cmnd_no_wait (sudo_defs_table[I_CMND_NO_WAIT].sd_un.flag)
#define I_RUNAS_ALLOW_UNKNOWN_ID 119
#define def_runas_allow_unknown_id (sudo_defs_table[I_RUNAS_ALLOW_UNKNOWN_ID].sd_un.flag)
+#define I_RUNAS_CHECK_SHELL 120
+#define def_runas_check_shell (sudo_defs_table[I_RUNAS_CHECK_SHELL].sd_un.flag)

eenum def_tuple {
    never,

diff -up ./plugins/sudoers/def_data.in.CVE-2019-19234 ./plugins/sudoers/def_data.in
--- ./plugins/sudoers/def_data.in.CVE-2019-192342020-01-14 15:53:40.505988057 +0100
+++ ./plugins/sudoers/def_data.in2020-01-14 15:53:40.512988105 +0100
@@ -375,3 +375,7 @@ cmnd_no_wait
    runas_allow_unknown_id
    T_FLAG
    "Allow the use of unknown runas user and/or group ID"
+    runsas_check_shell
+    +T_FLAG
+    +"Only permit running commands as a user with a valid shell"
+    
+    diff -up ./plugins/sudoers/sudoers.c.CVE-2019-19234 ./plugins/sudoers/sudoers.c
--- ./plugins/sudoers/sudoers.c.CVE-2019-192342020-01-14 15:53:40.505988057 +0100
+++ ./plugins/sudoers/sudoers.c2020-01-14 15:53:40.512988105 +0100
@@ -273,7 +273,7 @@ sudoers_policy_main(int argc, char * con
    goto bad;
-    }
+    }

    /* Check runas user's shell. */
+    if (!check_user_shell(runas_pw)) {
log_warningx(SLOG_RAW_MSG, N_("invalid shell for user %s: %s"),
    runas_pw->pw_name, runas_pw->pw_shell);
goto bad;
+    }
+    }

*/
* We don't reset the environment for sudoedit or if the user * specified the -E command line flag and they have setenv privs.

diff -up ./plugins/sudoers/sudoers.h.CVE-2019-19234 ./plugins/sudoers/sudoers.h
--- ./plugins/sudoers/sudoers.h.CVE-2019-192342020-01-14 15:53:40.502988036 +0100
+++ ./plugins/sudoers/sudoers.h2020-01-14 15:53:40.512988105 +0100
@@ -264,6 +264,7 @@ int find_path(const char *infinite, char *

/* check.c */
int check_user(int validate, int mode);
+bool check_user_shell(const struct passwd *pw);
bool user_is_exempt(void);

/* prompt.c */

Found in path(s):
* /opt/cola/permits/1102850377_1604095642.92/0/sudo-1-8-29-6-el8-src-tar/SOURCES/sudo-1.8.29-CVE-2019-19234.patch

1.127 shadow-utils 4.6-11.el8

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This package was added to the e2fsprogs debian source package by Theodore Ts'o <tytso@mit.edu> on Sat Mar 15 15:33:37 EST 2003

It is part of the main e2fsprogs distribution, which can be found at:

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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
tsx-11.mit.edu:/pub/linux/packages/ext2fs/

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# This is a Makefile stub which handles the creation of BSD shared libraries.
#
# In order to use this stub, the following makefile variables must be defined.
#
# BSDLIB_VERSION = 1.0
# BSDLIB_IMAGE = libce
# BSDLIB_MYDIR = et
# BSDLIB_INSTALL_DIR = $(SHLIBDIR)
#
all:: image

real-subdirs:: Makefile
@echo "MKDIR pic"
@mkdir -p pic

BSD_LIB = $(BSDLIB_IMAGE).so.$(BSDLIB_VERSION)
BSDLIB_PIC_FLAG = -fpic

image:$(BSD_LIB)

$(BSD_LIB): $(OBJS)
(cd pic; ld -Bshareable -o $(BSD_LIB) $(LDFLAGS_SHLIB) $(OBJS))
$(MV) pic/$(BSD_LIB) .
$(RM) -f ../$(BSD_LIB)
(cd ..; $(LN) $(LINK_BUILD_FLAGS) `echo $(my_dir) | sed -e 's;lib/;;'`/$(BSD_LIB) $(BSD_LIB))

install-shlibs install:: $(BSD_LIB)
@echo "INSTALL_PROGRAM $(BSDLIB_INSTALL_DIR)/$(BSD_LIB)"
@$(INSTALL_PROGRAM) $(BSD_LIB) \\
$(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)
@-$(LDCONFIG)

install-strip: install

install-shlibs-strip:: install-shlibs

uninstall-shlibs uninstall::
$(RM) -f $(DESTDIR)$(BSDLIB_INSTALL_DIR)/$(BSD_LIB)

clean::
$(RM) -rf pic
$(RM) -f $(BSD_LIB)
$(RM) -f ../$(BSD_LIB)

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This is the Debian GNU/Linux prepackaged version of the static EXT2
file system consistency checker (e2fsck.static). The EXT2 utilities
were written by Theodore Ts'o <tytso@mit.edu> and Remy Card
<card@masi.ibp.fr>.

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This is the Debian GNU/Linux prepackaged version of the EXT2 file system utilities (e2fsck, mke2fs, etc.). The EXT2 utilities were written by Theodore Ts'o <tytso@mit.edu> and Remy Card <card@masi.ibp.fr>.

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Index: tdbsa/tdb.c
===================================================================
--- tdbsa.orig/tdb.c
+++ tdbsa/tdb.c
@@ -4,11 +4,11 @@ Rev: 23371
Last Changed Date: 2007-06-06 20:14:06 -0400 (Wed, 06 Jun 2007)
 */
 /*
- Unix SMB/CIFS implementation.
+ trivial database library - standalone version

- trivial database library - private includes
-
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This package was put together by Yann Dirson <dirson@debian.org>, from sources obtained from a mirror of:
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Theodore Ts'o
23-June-2007

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1.153 dc 1.4

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1.167 libxml 2.9.7-8.el8

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