

# Ivanti Connect Secure Attributions

## 22.7R2.8

## Contents

<i>Contents</i>	2
IdentityPython/pyjwkest License	7
Martiusweb/asynctest License	10
OpenIDC/pyoidc License	11
VinceG/twitter-bootstrap-wizard License	11
aliyun/alibaba-cloud-sdk-go License	11
Apache/HttpComponents_Client License	12
archive/zip License	12
aws/aws-sdk-go License	12
azure/azure-storage-blob-go License	16
azure/azure-pipeline-go License	17
waLinuxAgent License	17
benjaminp/six	18
bbangert/beaker License	18
bitkkeks/python-netflow-v9-softflow3 License	19
brandonaaron/bgiframe License	19
bzip2 License	19
cannatag/ldap3 License	20
certifi/python-certifi License	32
cffi/cffi License	33
chardet/chardet License	33
citrusdata/citrus License	42
CoreSecurity/pcapy License	54
coreutils License	55
cppzmq License	67
cryptsetup-luks-lib	68
dabeaz/ply License	75
dashea/requests-file License	80
dhcp License	81
<i>Mozilla Public License Version 2.0</i>	81
1. Definitions	81
2. License Grants and Conditions	83
2.1. Grants	83
2.2. Effective Date	83
2.3. Limitations on Grant Scope	83
2.4. Subsequent Licenses	84
2.5. Representation	84
2.6. Fair Use	84
2.7. Conditions	84
3. Responsibilities	84
3.1. Distribution of Source Form	84
3.2. Distribution of Executable Form	84
3.3. Distribution of a Larger Work	85

3.4. Notices.....	85
3.5. Application of Additional Terms.....	85
4. Inability to Comply Due to Statute or Regulation .....	85
5. Termination .....	85
6. Disclaimer of Warranty.....	86
7. Limitation of Liability.....	86
8. Litigation .....	87
9. Miscellaneous.....	87
10. Versions of the License .....	87
10.1. New Versions.....	87
10.2. Effect of New Versions.....	87
10.3. Modified Versions .....	87
10.4. Distributing Source Code Form that is Incompatible With Secondary Licenses.....	87
Exhibit A - Source Code Form License Notice.....	88
Exhibit B - "Incompatible With Secondary Licenses" Notice.....	88
dirkjanm/ldapdomaindump License .....	88
eliben/pycparser License.....	89
erikrose/more-itertools License .....	89
etingof/pyasn1-modules License .....	90
etingof/pyasn1 License .....	90
etingof/pyasn1 License .....	91
etingof/pysmi License.....	92
etingof/pysnmp License.....	92
fastpbkdf2 License .....	93
FreeRDP/FreeRDP License .....	95
FreeTDS License .....	95
gevent/gevent License.....	96
gnu/bash License .....	96
google-authenticator License .....	108
google/protobuf License .....	109
google/protobuf License .....	109
googleapis/google-api-python-client License .....	110
googleapis/google-auth-library-python-httplib2 License .....	114
googleapis/google-auth-library-python License .....	118
googleapis/python-api-core License.....	122
googleapis/python-api-common-protos .....	126
grub License .....	130
gsoap License.....	130
httplib2 License .....	131
coresecurity/impacket License.....	131
IPsec-Tools License .....	133
ipset License .....	134
jackmoore/colorbox.....	135
Jansson License .....	135

jbardin/scp License .....	135
john-kurkowski/tldextract License .....	144
jpadilla/pyjwt License .....	145
jquery/jquery License .....	146
jquery/jquery License .....	146
jquery/jquery License .....	146
jquery/jquery License .....	146
jquery/jquery License .....	147
julian/jsonschema License .....	147
kerberos License .....	148
kbandla/dpkt License .....	150
kjd/idna License .....	150
lathiat/avahi License .....	152
Legrandin/pycryptodome License .....	161
haxx/libcurl License .....	162
haxx/libcurl License .....	163
python-libnmap License .....	163
libselinux License .....	164
libsemanage License .....	164
libsepol License .....	165
libwebsockets License .....	165
libxml2 License .....	172
Linux Kernel v 4.15 License .....	173
LIS/lis-next License .....	179
lmdb License .....	185
log4shib License .....	186
makamaka/JSON License .....	187
mariadb-corporation/mariadb-connector-cpp License .....	187
maxmind/MaxMind-DB-Reader-python License .....	196
maxmind/GeoIP2-python License .....	200
maxmind/libmaxminddb License .....	204
MinIO client (mc) License .....	208
mozilla-services/hawkauthlib License .....	211
mstamy2/PyPDF2 License .....	212
mysql/mysql-connector-cpp License .....	212
net-snmp License .....	229
NetSNMP License .....	240
noirbizarre/flask-restplus License .....	246
noppo/gevent-websocket License .....	247
ntp-project/ntp License .....	248
numpy/numpy License .....	249
openjdk/java License .....	250
openldap License .....	256
openldap License .....	257
openlink/iODBC License .....	257
opensaml License .....	258

OpenSSH License .....	258
OpenSSL License .....	258
pallets/itsdangerous License .....	261
pallets/jinja License .....	262
pallets/jinja2 License .....	263
pallets/markupsafe License .....	264
paramiko/paramiko License .....	264
pcr License .....	273
perl License .....	275
perl License .....	275
perl_sleay License .....	276
phihag/ipaddress License .....	276
psycpg_psycpg2 License .....	277
pyasn1 License .....	278
pyca/cryptography License .....	279
pyca/pyopenssl License .....	279
pycrypto License .....	283
pypa/packaging License .....	284
pyparsing License .....	285
pytest-dev/pluggy License .....	285
pytest-dev/py License .....	286
pytest-dev/pytest-cov License .....	286
pytest-dev/pytest-mock License .....	287
pytest-dev/pytest License .....	287
python-attrs/attrs License .....	288
python-greenlet/greenlet License .....	288
python-hyper/uritemplate License .....	289
python-pillow/pillow License .....	289
cpython/python License .....	289
python/typing License .....	290
pythoncharmers/python-future License .....	295
redis/hiredis License .....	296
redis/redis License .....	296
requests/requests License .....	296
rptlab/reportlab License .....	300
rthalley/dnspython License .....	300
Samba/Samba License .....	301
scikit-learn/scikit-learn License .....	301
scipy/scipy License .....	302
selinux-policy-targeted License .....	306
selinux-policy License .....	311
snapappointments/bootstrap-select .....	317
simplejson/simplejson License .....	318
sqlalchemy/mako License .....	321
ssldump License .....	322
swig/swig License .....	322

sybrenstuvel/python-rsa License .....	322
tacacsplus License .....	323
the-tcpdump-group/libpcap License .....	324
the-tcpdump-group/tcpdump License .....	324
tkem/cachetools License .....	325
tiran/defusedxml License .....	325
treasuredata/fluent-bit License .....	327
twbs/bootstrap .....	330
ua-parser License .....	331
unbit/uwsgi License .....	331
untitaker/python-atomicwrites License .....	337
urllib3/urllib3 License .....	337
user-agents License .....	338
vmware-tools License .....	338
wbond/asn1crypto License .....	353
websocket-client/websocket-client License .....	354
xmlsecurity License .....	354
xmltooling License .....	355
zzzeek/sqlalchemy .....	355
zeromq License .....	356
zeromq/pyzmq License .....	356

# IdentityPython/pyjwkest License

Version: 1.4.3

Python implementation of JWT, JWE, JWS and JWK

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## Martiusweb/asyncctest License

Version: 0.13.0

asyncctest is built on top of the standard unittest module and used for unit testing of async modules.

**\*\*Copyright 2015 Martin Richard\*\***

\* \* \*

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## **OpenIDC/pyoidc License**

Version: 1.0.1

Python implementation of OAuth2 and OpenID Connect. This is a complete implementation of OpenID Connect as specified in the OpenID Connect Core specification. And as a side effect, a complete implementation of OAuth2.0 too.

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## **VinceG/twitter-bootstrap-wizard License**

Version: 1.0.0

This twitter bootstrap plugin builds a wizard out of a formatter tabbable structure. It allows to build a wizard functionality using buttons to go through the different wizard steps and using events allows to hook into each step individually.

## **aliyun/alibaba-cloud-sdk-go License**

Version: 2.0.2

This provides APIs and utilities that can be use to build Go applications that use Alibaba Cloud services,such as Alibaba OSS.

Yubin Bai, Guozhong Han

## **Apache/HttpComponents\_Client License**

Version: 4.5.1

HttpClient provides reusable components for client-side authentication, HTTP state management, and HTTP connection management.

## **archive/zip License**

Version: 1.61.0

The module allows a Perl program to create, manipulate, read, and write Zip archive files

Copyright (c) 2000-2003 Ned Konz. All rights reserved. This program is free software; you can redistribute it and/or modify it under the same terms as Perl itself. Changes Made:

Change to Zip.pm file to calculate uncompressedSize dynamically by reading number of bytes read

to prevent uncompressedSize being tampered.

This uncompressedSize had been used to calculate compressionRatio to avoid very big zip files been unzipped on top destination.

Change to Zip.pm file to exclude the files which are of Symbolic linked type to prevent arbitrary files download by using Time of Check and Time of use attack.

## **aws/aws-sdk-go License**

Version: 1.19.27

This provides APIs and utilities that can be use to build Go applications that use AWS services,such as Amazon EC2 and Amazon S3.

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## **azure/azure-storage-blob-go License**

Version: 0.6.0

The Microsoft Azure Storage SDK for Go allows you to build applications that takes advantage of Azure scalable cloud storage.

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## azure/azure-pipeline-go License

Version: 0.1.9

This package implements an HTTP request/response middleware pipeline whose policy objects mutate an HTTP request URL, query parameters, and/or headers before the request is sent over the wire.

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## waLinuxAgent License

Version: 2.2.48.1

The Microsoft Azure Linux Agent (waagent) manages Linux & FreeBSD provisioning, and VM interaction with the Azure Fabric Controller. It provides functionality like image provisioning, managing routes, console redirection to serial port for Linux and FreeBSD IaaS deployments.

## **benjaminp/six**

version: 1.16.0

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## **bbangert/beaker License**

Version: 1.11.0

A Session and Caching library with WSGI Middleware. Beaker is a web session and general caching library that includes WSGI middleware for use in web applications. As a general caching library, Beaker can handle storing for various times any Python object that can be pickled with optional backends on a fine-grained basis.

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## bitkkeks/python-netflow-v9-softflow3 License

Version: 0.6.1

NetFlow v9 parser and collector implemented in Python 3. Developed to be used with softflowd v0.9.9

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## brandonaaron/bgiframe License

Version: 2.1.1

A jQuery plugin that helps ease the issues with IE z-index.

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Version: 1.0.6

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Julian Seward, jseward@acm.org  
bzip2/libbzip2 version 1.1.0 of 6 September 2010  
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## cannatag/ldap3 License

Version: 2.5.1

ldap3 is a strictly RFC 4510 conforming LDAP V3 pure Python client library.

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## **certifi/python-certifi License**

Version: 2018.4.16

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## **cffi/cffi License**

Version: 1.15.1

Foreign Function Interface for Python calling C code

Copyright (C) 2005-2007, James Bielman <[jamesjb@jamesjb.com](mailto:jamesjb@jamesjb.com)>

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## **chardet/chardet License**

Version: 3.0.4

The Universal Character Encoding Detector

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Version 2.1, February 1999

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This option is useful when you wish to copy part of the code of

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Ty Coon, President of Vice

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## citusdata/citus License

Version: 10.2.8

Citus horizontally scales PostgreSQL across multiple machines using sharding and replication. Its query engine parallelizes incoming SQL queries across these servers to enable human real-time (less than a second) responses on large datasets.

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Version: 0.11.1

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## coreutils License

Version: 8.22

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A set of basic GNU tools commonly used in shell scripts.

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Version 3, 29 June 2007

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## cppzmq License

Version: 1.0

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## cryptsetup-luks-lib

version: v2.6.1

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Version 2, June 1991

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Version: 3.11

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# PLY (Python Lex-Yacc) Version 3.11

[![Build Status](https://travis-ci.org/dabeaz/ply.svg?branch=master)](https://travis-ci.org/dabeaz/ply)

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## Introduction

=====

PLY is a 100% Python implementation of the common parsing tools lex and yacc. Here are a few highlights:

- PLY is very closely modeled after traditional lex/yacc. If you know how to use these tools in C, you will find PLY to be similar.
- PLY provides *very* extensive error reporting and diagnostic information to assist in parser construction. The original implementation was developed for instructional purposes. As a result, the system tries to identify the most common types of errors made by novice users.
- PLY provides full support for empty productions, error recovery, precedence specifiers, and moderately ambiguous grammars.
- Parsing is based on LR-parsing which is fast, memory efficient, better suited to large grammars, and which has a number of nice properties when dealing with syntax errors and other parsing problems. Currently, PLY builds its parsing tables using the LALR(1) algorithm used in yacc.
- PLY uses Python introspection features to build lexers and parsers. This greatly simplifies the task of parser construction since it reduces the number of files and eliminates the need to run a separate lex/yacc tool before running your program.
- PLY can be used to build parsers for "real" programming languages. Although it is not ultra-fast due to its Python implementation, PLY can be used to parse grammars consisting of several hundred rules (as might be found for a language like C). The lexer and LR parser are also reasonably efficient when parsing typically sized programs. People have used PLY to build parsers for C, C++, ADA, and other real programming languages.

## How to Use

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PLY consists of two files : `lex.py` and `yacc.py`. These are contained within the 'ply' directory which may also be used as a Python package. To use PLY, simply copy the 'ply' directory to your project and import `lex` and `yacc` from the associated 'ply' package. For example:

```
import ply.lex as lex
import ply.yacc as yacc
```

Alternatively, you can copy just the files `lex.py` and `yacc.py` individually and use them as modules. For example:

```
import lex
import yacc
```

The file `setup.py` can be used to install ply using `distutils`.

The file `doc/ply.html` contains complete documentation on how to use the system.

The example directory contains several different examples including a PLY specification for ANSI C as given in K&R 2nd Ed.

A simple example is found at the end of this document

#### Requirements

=====

PLY requires the use of Python 2.6 or greater. However, you should use the latest Python release if possible. It should work on just about any platform. PLY has been tested with both CPython and Jython. It also seems to work with IronPython.

#### Resources

=====

More information about PLY can be obtained on the PLY webpage at:

<http://www.dabeaz.com/ply>

For a detailed overview of parsing theory, consult the excellent book "Compilers : Principles, Techniques, and Tools" by Aho, Sethi, and Ullman. The topics found in "Lex & Yacc" by Levine, Mason, and Brown may also be useful.

The GitHub page for PLY can be found at:

<https://github.com/dabeaz/ply>

An old and relatively inactive discussion group for PLY is found at:

<http://groups.google.com/group/ply-hack>

#### Acknowledgments

=====

A special thanks is in order for all of the students in CS326 who suffered through about 25 different versions of these tools :-).

The CHANGES file acknowledges those who have contributed patches.

Elias Ioup did the first implementation of LALR(1) parsing in PLY-1.x. Andrew Waters and Markus Schoepflin were instrumental in reporting bugs and testing a revised LALR(1) implementation for PLY-2.0.

#### Special Note for PLY-3.0

=====

PLY-3.0 the first PLY release to support Python 3. However, backwards compatibility with Python 2.6 is still preserved. PLY provides dual Python 2/3 compatibility by restricting its implementation to a common subset of basic language features. You should not convert PLY using 2to3--it is not necessary and may in fact break the implementation.

#### Example

=====

Here is a simple example showing a PLY implementation of a calculator with variables.

```
# -----
-
# calc.py
#
# A simple calculator with variables.
# -----
-

tokens = (
    'NAME', 'NUMBER',
    'PLUS', 'MINUS', 'TIMES', 'DIVIDE', 'EQUALS',
    'LPAREN', 'RPAREN',
)

# Tokens

t_PLUS = r'\+'
t_MINUS = r'\-'
t_TIMES = r'\*'
t_DIVIDE = r'\/'
t_EQUALS = r'\='
t_LPAREN = r'\('
t_RPAREN = r'\)'
t_NAME = r'[a-zA-Z_][a-zA-Z0-9_]*'

def t_NUMBER(t):
    r'\d+'
    t.value = int(t.value)
    return t

# Ignored characters
```

---

```
t_ignore = " \t"

def t_newline(t):
    r'\n+'
    t.lexer.lineno += t.value.count("\n")

def t_error(t):
    print("Illegal character '%s'" % t.value[0])
    t.lexer.skip(1)

# Build the lexer
import ply.lex as lex
lex.lex()

# Precedence rules for the arithmetic operators
precedence = (
    ('left', 'PLUS', 'MINUS'),
    ('left', 'TIMES', 'DIVIDE'),
    ('right', 'UMINUS'),
)

# dictionary of names (for storing variables)
names = { }

def p_statement_assign(p):
    'statement : NAME EQUALS expression'
    names[p[1]] = p[3]

def p_statement_expr(p):
    'statement : expression'
    print(p[1])

def p_expression_binop(p):
    '''expression : expression PLUS expression
                  | expression MINUS expression
                  | expression TIMES expression
                  | expression DIVIDE expression'''
    if p[2] == '+': p[0] = p[1] + p[3]
    elif p[2] == '-': p[0] = p[1] - p[3]
    elif p[2] == '*': p[0] = p[1] * p[3]
    elif p[2] == '/': p[0] = p[1] / p[3]

def p_expression_uminus(p):
    'expression : MINUS expression %prec UMINUS'
    p[0] = -p[2]

def p_expression_group(p):
    'expression : LPAREN expression RPAREN'
    p[0] = p[2]

def p_expression_number(p):
    'expression : NUMBER'
    p[0] = p[1]
```

---

```
def p_expression_name(p):
    'expression : NAME'
    try:
        p[0] = names[p[1]]
    except LookupError:
        print("Undefined name '%s'" % p[1])
        p[0] = 0

def p_error(p):
    print("Syntax error at '%s'" % p.value)

import ply.yacc as yacc
yacc.yacc()

while True:
    try:
        s = raw_input('calc > ')    # use input() on Python 3
    except EOFError:
        break
    yacc.parse(s)
```

#### Bug Reports and Patches

=====

My goal with PLY is to simply have a decent lex/yacc implementation for Python. As a general rule, I don't spend huge amounts of time working on it unless I receive very specific bug reports and/or patches to fix problems. I also try to incorporate submitted feature requests and enhancements into each new version. Please visit the PLY github page at <https://github.com/dabeaz/ply> to submit issues and pull requests. To contact me about bugs and/or new features, please send email to [dave@dabeaz.com](mailto:dave@dabeaz.com).

-- Dave

## dashea/requests-file License

Version: 1.4.3

Requests-File is a transport adapter for use with the Requests Python library to allow local filesystem access via file:// URLs.

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## dhcp License

Version: 4.4.2b1

The ISC DHCP package contains both the client and server programs for DHCP. dhclient (the client) is used for connecting to a network which uses DHCP to assign network addresses. dhcpd (the server) is used for assigning network addresses on private networks.

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Version: 0.9.1

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## eliben/pycparser License

Version: 2.21

pycparser is a parser for the C language, written in pure Python. It is a module designed to be easily integrated into applications that need to parse C source code.

pycparser -- A C parser in Python

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## etingof/pyasn1-modules License

Version: 0.2.1

The pyasn1-modules package contains a collection of ASN.1 data structures expressed as Python classes based on pyasn1 data model.

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Version: 0.4.5

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Implementation of ASN.1 types and codecs as a Python package. It has been first written to support particular protocol (SNMP) but then generalized to be suitable for a wide range of protocols based on ASN.1 specification

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### Python ASN.1 types and codec implementation

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Version: 0.3.4

PySMI is a pure-Python implementation of SNMP SMI MIB parser. This tool is designed to turn ASN.1 MIBs into various formats.

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Version: 11dd97a

The Google Authenticator project includes implementations of one-time passcode generators for several mobile platforms

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Version: 2.52.0

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## googleapis/google-auth-library-python-httplib2 License

Version: 0.1.0

This library provides an http lib2 transport for google-auth.

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Version: 1.25.0

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## googleapis/python-api-core License

Version: 1.31.5

This library is not meant to stand-alone. Instead it defines common helpers used by all Google API clients.

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## googleapis/python-api-common-protos

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## coresecurity/impacket License

Version: 0.9.22

Python package to create and decode network packets

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Version: 0.6.6

User-space IPsec tools for various IPsec implementations. A port of KAME's IPsec utilities.

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## ipset License

Version: 6.34

ipset utility can be used to administer ip set frame work inside the linux kernel. The frame work is an enhancement or an extension to the iptable by keeping performance and dynamic iptable rule addition as the primary objective.

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version: 1.6.4

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## Jansson License

Version: 2.4

Jansson is a C library for encoding, decoding and manipulating JSON data.

## jbardin/scp License

Version: 0.13.2

This is the protocol as referenced from the openssh scp program

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Version 2.1, February 1999

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## julian/jsonschema License

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Version: 2.6.0

jsonschema is an implementation of JSON Schema for Python

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version: 5-1.15.1

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cmd/krb5/iprop/iprop_hdr.h
cmd/krb5/kadmin/server/ipropd_svc.c
```

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```
cmd/krb5/kproplog/kproplog.c
cmd/krb5/slave/kpropd_rpc.c
lib/gss_mechs/mech_krb5/et/kdb5_err.c
lib/gss_mechs/mech_spnego/mech/gssapiP_spnego.h
lib/gss_mechs/mech_spnego/mech/spnego_mech.c
lib/krb5/kadm5/kadm_host_srv_names.c
lib/krb5/kdb/kdb_convert.c
lib/krb5/kdb/kdb_hdr.h
lib/krb5/kdb/kdb_log.c
lib/krb5/kdb/kdb_log.h
lib/libgss/g_accept_sec_context.c
lib/libgss/g_acquire_cred.c
lib/libgss/g_canon_name.c
lib/libgss/g_compare_name.c
lib/libgss/g_context_time.c
lib/libgss/g_delete_sec_context.c
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lib/libgss/g_dsp_status.c
lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
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lib/libgss/g_imp_name.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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Version: 1.9.1

fast, simple packet creation / parsing, with definitions for the basic TCP/IP protocols

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Version: 2.7

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Version: 7.80.0

A command line tool and library for transferring data with URL syntax

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libnmap is a python library to run nmap scans, parse and diff scan results.

Work Title: python-libnmap Work URL: <https://github.com/savon-noir/python-libnmap>  
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Version: 4.3.1

The Linux Integration Services package updates Linux Hyper-V drivers in applicable Linux distributions to the latest available, ensuring the best performance and fullest use of Hyper-V features.

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Version: 2.0.0

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## **makamaka/JSON License**

Version: 4.02

JSON - JSON (JavaScript Object Notation) encoder/decoder perl module.

AUTHOR Makamaka Hannyaharamitu, JSON::XS was written by Marc Lehmann The release of this new version owes to the courtesy of Marc Lehmann.

## **mariadb-corporation/mariadb-connector-cpp License**

Version: 1.1.3

MariaDB Connector/C++ is the connector/driver to interact with MySQL DB server.

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Ty Coon, President of Vice

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## **maxmind/MaxMind-DB-Reader-python License**

Version: 1.3.0

This is Python module for reading MaxMind DB files.

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## maxmind/GeoIP2-python License

Version: 2.8.0

This is a Python module for reading MaxMind DB files. MaxMind DB is a binary file format that stores data indexed by IP address subnets (IPv4 or IPv6).

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Version: 1.2.0

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Version: 0.1.1

hawkauthlib is a low-level library for implementing Hawk Access Authentication, a simple HTTP request-signing scheme

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## mysql/mysql-connector-cpp License

Version: 8.0.15

MySQL Connector/C++ is the connector/driver to interact with MySQL DB server.

Licensing Information User Manual

MySQL Connector/C++ 8.0

## Introduction

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Version: 5.7.3

Various tools and libraries relating to the Simple Network Management Protocol



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Version: 0.10.1

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Contains various helpers to pass data to untrusted environments and to get it back safe and sound

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## paramiko/paramiko License

Version: 3.4.0

Python wrapper for SSH connection. This is a library for making SSH2 connections (client or server). All major ciphers and hash methods are supported. SFTP client and server mode are supported too.

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Version 2.1, February 1999

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Change to CGI module (<http://search.cpan.org/~lds/CGI.pm-2.752/>):  
 Enhancing escapeHTML and unescapeHTML functions to escape ' characters  
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Version: 1.90

Perl5 interface to SSL

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Version: 0.1.9

### Python ASN.1 types and codec implementation

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pyOpenSSL is a thin wrapper around (a subset of) the OpenSSL library.

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## pycrypto License

Version: 2.6.1

### Python cryptography toolkit

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Additionally, some files within PyCrypto had specified their own licenses that differed from the PyCrypto license itself. For example, the original RIPEMD.c module simply had a copyright statement and warranty disclaimer, without clearly specifying any license terms. (An updated version on the author's website came with a license that contained a GPL-incompatible advertising clause.)

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3. Replacing some modules with code written from scratch (e.g. the RIPEMD and Blowfish modules were re-implemented from their respective algorithm specifications without reference to the old implementations).

4. Removing some modules altogether without replacing them.

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Version: 19.1

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Version: 2.4.2

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## pytest-dev/pluggy License

Version: 0.6.0

It is the crystallized core of plugin management and hook calling for pytest.

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Python development support Library with cross-python path, ini-parsing, io, code, log facilities

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Version: 2.5.1

Pytest plugin for measuring coverage.

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Version: 1.6.3

Thin-wrapper around the mock package for easier use with py.test

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simple powerful testing with Python

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Version: 0.4.12

Greenlets are lightweight coroutines for in-process concurrent programming.



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Version: 3.0.1

Simple python library to deal with URI Templates.

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Version: 6.2.2

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## cpython/python License

Version: 3.6.15

Python interpreter for Python based applications

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## python/typing License

Version: 3.10.0.2

Typing Extensions - Backported and Experimental Type Hints for Python The typing module was added to the standard library in Python 3.5, but many new features have been added to the module since then. This means users of Python 3.5 - 3.6 who are unable to upgrade will not be able to take advantage of new types added to the typing module, such as typing.Protocol or typing.TypedDict. The typing\_extensions module contains backports of these changes. Experimental types that will eventually be added to the typing module are also included in typing\_extensions, such as typing.ParamSpec and typing.TypeGuard.

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 the PSF.

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|----------------|--------------|-----------|------------|---------------------|
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| 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                  |
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| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
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Version: 0.18.2

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Version: 1.0.0

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Version: 0.19.1

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SELinux Reference policy targeted base module.

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## snapappointments/bootstrap-select

version: 1.13.18

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Version: 3.13.2

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Version: 1.1.5

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## ssldump License

Version: 0.9b3

An SSLv3/TLS network protocol analyzer

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C/C++ parser code generator, which parses the C/C++ interfaces and generates the 'glue code'

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## sybrenstuvel/python-rsa License

Version: 3.4.2

Python-RSA is a pure-Python RSA implementation. It supports encryption and decryption, signing and verifying signatures, and key generation according to PKCS#1 version 1.5. It can be used as a Python library as well as on the commandline.

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Version: 201710201114

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Version: 1.9.1

The libpcap interface supports a filtering mechanism based on the architecture in the BSD packet filter. It provides a portable framework for low-level network monitoring. Applications include network statistics collection, security monitoring, network debugging, etc.

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## the-tcpdump-group/tcpdump License

Version: 4.9.3

A tool for network monitoring and data acquisition

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## tkem/cachetools License

Version: 2.0.0

This module provides various memoizing collections and decorators, including variants of the Python Standard Library's `@lru_cache` function decorator.

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## tiran/defusedxml License

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Version: 0.7.1

XML bomb protection for Python stdlib modules. The defusedxml package (defusedxml on PyPI) contains several Python-only workarounds and fixes for denial of service and other vulnerabilities in Python XML libraries.

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## twbs/bootstrap

version: 3.4.1

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## ua-parser License

Version: 0.7.1

Python port of Browserscope's user agent parser.

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Version: 1.3.0

Powerful Python library for atomic file writes

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## urllib3/urllib3 License

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Version: 1.25

urllib3 is a powerful, sanity-friendly HTTP client for Python.

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## user-agents License

Version: 1.0.1

A library to parse user agent strings to identify the Device Type.

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## vmware-tools License

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Version: 12.0.5-19716617

This is a suite of utilities that enhances the performance of the virtual machine's guest operating system and improves management of the virtual machine on ESXi server.

#### LICENSE

Open-vm-tools v10.3.0

The Linux kernel modules are released under the GPL v2, a majority of the user level components are released under the LGPL v2.1, and the SVGA and mouse drivers are released under the X11 license.

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>>> freebsd-base64-4.8
>>> unicode-5.0
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```
>>> freebsd-base64-4.8
```

```
base64.c -- routines to encode/decode base64 data
$OpenLDAP: pkg/ldap/libraries/liblutil/base64.c,v 1.15 2006/01/03 22:12:11 kurt
Exp $ /
This work is part of OpenLDAP Software .
```

```
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The OpenLDAP Public License
Version 2.8, 17 August 2003
```

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>>> unicode-5.0

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[OPENVMTOOLS1030GANV061518]

## wbond/asn1crypto License

Version: 0.24.0

Fast ASN.1 parser and serializer with definitions for private keys, public keys, certificates, CRL, OCSP, CMS, PKCS#3, PKCS#7, PKCS#8, PKCS#12, PKCS#5, X.509 and TSP

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## **websocket-client/websocket-client License**

Version: 0.54.0

websocket-client module is WebSocket client for python. This provides the low level APIs for WebSocket.

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Version: 2.0.2

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Version: 3.2.0

Lower-level library that provides a higher level interface to XML processing

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## zzzeek/sqlalchemy

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## zeromq/pyzmq License

Version: 15.2.0

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