

# Ivanti Connect Secure Attributions

## 9.1R18

## Contents

<b>Contents</b>	<b>2</b>
IdentityPython/pyjwkest License	6
Martiusweb/asynctest License	6
OpenIDC/pyoidc License	7
VinceG/twitter-bootstrap-wizard License	7
aliyun/alibaba-cloud-sdk-go License	7
apache/guacamole-client License	7
apache/guacamole-server License	8
Apache/HttpComponents_Client License	9
archive/zip License	9
aws/aws-sdk-go License	9
azure/azure-storage-blob-go License	13
azure/azure-pipeline-go License	14
waLinuxAgent License	14
benjaminp/six	15
bbangert/beaker License	15
bitkkeks/python-netflow-v9-softflow3 License	16
brandonaaron/bgiframe License	16
bzip2 License	16
cannatag/ldap3 License	17
certifi/python-certifi License	29
cffi/cffi License	30
chardet/chardet License	30
citusdata/citus License	39
CoreSecurity/pcapy License	39
coreutils License	40
cppzmq License	52
dabeaz/ply License	53
dashea/requests-file License	58
dirkjanm/ldapdomaindump License	59
eliben/pycparser License	59
erikrose/more-itertools License	60
etingof/pyasn1 License	61
etingof/pyasn1 License	61
etingof/pysmi License	62
etingof/pysnmp License	63
fastpbkdf2 License	63
FreeRDP/FreeRDP License	65
FreeTDS License	66
gevent/gevent License	66
ghostscript/ghostscript License	66
gnu/bash License	67
google-authenticator License	79
google/protobuf License	79

google/protobuf License.....	80
grub License .....	81
gsoap License.....	81
coresecurity/impacket License.....	81
IPsec-Tools License.....	83
ipset License.....	85
Jansson License .....	85
jbardin/scp License .....	85
john-kurkowski/tldextract License.....	94
jpadilla/pyjwt License.....	95
jquery/jquery License.....	95
jquery/jquery License.....	96
jquery/jquery License.....	96
jquery/jquery License.....	96
jquery/jquery License.....	96
julian/jsonschema License.....	97
kbandla/dpkt License.....	98
kjd/idna License .....	99
lathiat/avahi License .....	100
Legrandin/pycryptodome License .....	109
haxx/libcurl License.....	110
haxx/libcurl License.....	111
haxx/libcurl License.....	111
haxx/libcurl License.....	112
python-libnmap License .....	113
libselinux License .....	113
libsemanage License.....	113
libsepol License .....	114
libssh2 License.....	114
libwebp License .....	115
libwebsockets License .....	116
libxml2 License.....	124
Linux Kernel v 4.15 License.....	124
LIS/lis-next License.....	130
lmdb License.....	137
log4shib License .....	138
makamaka/JSON License .....	138
maxmind/MaxMind-DB-Reader-python License .....	138
maxmind/GeoIP2-python License .....	142
maxmind/libmaxminddb License .....	146
MinIO client (mc) License.....	150
mozilla-services/hawkauthlib License .....	154
mstamy2/PyPDF2 License.....	154
mysql/mysql-connector-cpp License .....	155
net-snmp License.....	171
NetSNMP License .....	182

noirbizarre/flask-restplus License .....	189
noppo/gevent-websocket License .....	190
ntp-project/ntp License .....	190
numpy/numpy License .....	191
openjdk/java License .....	192
openldap License .....	193
openldap License .....	193
openlink/iODBC License .....	193
opensaml License .....	194
OpenSSH License .....	194
OpenSSL License .....	194
OpenSSL License .....	197
pallets/itsdangerous License .....	199
pallets/jinja License .....	200
pallets/jinja2 License .....	200
pallets/markupsafe License .....	201
paramiko/paramiko License .....	202
pcre License .....	211
perl License .....	213
perl License .....	213
perl_sleay License .....	213
phihag/ipaddress License .....	214
polycoreutils License .....	215
psycpg_psycpg2 License .....	215
pyasn1 License .....	216
pyca/cryptography License .....	217
pyca/pyopenssl License .....	217
pycrypto License .....	221
pytest-dev/pluggy License .....	222
pytest-dev/py License .....	223
pytest-dev/pytest-cov License .....	223
pytest-dev/pytest-mock License .....	224
pytest-dev/pytest License .....	225
python-attrs/attrs License .....	225
python-greenlet/greenlet License .....	226
python-pillow/pillow License .....	226
cpython/python License .....	226
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redis/hiredis License .....	233
redis/redis License .....	233
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rptlab/reportlab License .....	237
rthalley/dnspython License .....	237
Samba/Samba License .....	238
scikit-learn/scikit-learn License .....	238

scipy/scipy License .....	239
selinux-policy-targeted License .....	243
selinux-policy License .....	248
simplejson/simplejson License .....	254
sqlalchemy/mako License .....	258
ssldump License .....	258
swig/swig License .....	258
tacacsplus License .....	259
the-tcpdump-group/libpcap License .....	260
the-tcpdump-group/tcpdump License .....	260
tiran/defusedxml License .....	261
treasuredata/fluent-bit License .....	262
ua-parser License .....	266
unbit/uwsgi License .....	266
untitaker/python-atomicwrites License .....	272
urllib3/urllib3 License .....	272
user-agents License .....	273
vmware-tools License .....	273
wbond/asn1crypto License .....	274
websocket-client/websocket-client License .....	274
xmlsecurity License .....	275
xmltooling License .....	275
zzzeek/sqlalchemy .....	275
zeromq License .....	276
zeromq/pyzmq License .....	276

## IdentityPython/pyjwkest License

Version: 1.4.0

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/guacamole-client License

Version: 0.9.9

Guacamole is HTML5 based clientless RDP, SSH, Telnet and VNC access solution.

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## apache/guacamole-server License

Version: 0.9.9

Guacamole is HTML5 based clientless RDP, SSH, Telnet and VNC access solution.

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## 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: 1.09.0

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.

## **bzip2 License**

Version: 1.0.6

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Bzip2 is a freely available, patent-free, high quality data compressor. Bzip2 compresses files to within 10 to 15 percent of the capabilities of the best techniques available. However, bzip2 has the added benefit of being approximately two times faster at compression and six times faster at decompression than those techniques. Bzip2 is not the fastest compression utility, but it does strike a balance between speed and compression capability.

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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

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

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The Universal Character Encoding Detector

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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

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```
, 1 April 1990
Ty Coon, President of Vice
```

That's all there is to it!

## **citusdata/citus License**

Version: 6.2.5

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## **CoreSecurity/pcapy License**

Version: 0.11.1

PcapY enables python scripts to capture packets on the network.

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## coreutils License

Version: 8.22

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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## dabeaz/ply License

Version: 3.11

PLY is a python implementation of the common parsing tools lex and yacc.

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# PLY (Python Lex-Yacc)

Version 3.11

[![Build Status](<https://travis-ci.org/dabeaz/ply>)](<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

=====

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

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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

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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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## dirkjanm/ldapdomaindump License

Version: 0.9.1

A tool which collects and parses information available via LDAP and outputs it in a human readable HTML format, as well as machine readable json and csv/tsv/greppable files

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## eliben/pycparser License

Version: 2.17.0

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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.

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## erikrose/more-itertools License

Version: 7.2.0

More routines for operating on iterables, beyond itertools

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## etingof/pyasn1 License

Version: 0.4.5

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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Version: 0.4.2

Python ASN.1 types and codec implementation

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## etingof/pysmi License

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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## etingof/pysnmp License

Version: 4.4.9

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Version: 11dd97a

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Base32 implementation by google authenticator

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## coresecurity/impacket License

Version: 0.9.22

Python package to create and decode network packets

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## IPsec-Tools License

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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## 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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## julian/jsonschema License

Version: 2.6.0

jsonschema is an implementation of JSON Schema for Python

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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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## python-libnmap License

Version: 0.7.0

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>  
Original Author: Ronald Bister Contributors: Mike @bmx0r Boutillier

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Version: 2.5

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## libssh2 License

Version: 1.8.2

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Version: 0.5.1

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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.

## 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: 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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Last updated: January 2019.

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Version: 5.7.3

Various tools and libraries relating to the Simple Network Management Protocol



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Version: 0.11.0

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Version: 0.10.1

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Name: dragon4  
Files: numpy/core/src/multiarray/dragon4.c  
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## openjdk/java License

Version: 1.8.0\_242

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Version: 2.4.56

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Version: 5.3p1-112

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Version: 2.1.4

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Version: 7.6

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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
  - OWASP guidelines recommend to escape ' character along with & " < > characters to avoid possible XSS issues

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Version: 1.90

## Perl5 interface to SSL

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Version: 1.0.22

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Version: 0.1.9

### Python ASN.1 types and codec implementation

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Version: 2.1.4

cryptography is a python package which provides cryptographic recipes and primitives to Python developers. It includes both high level recipes and low level interfaces to common cryptographic algorithms such as symmetric ciphers, message digests, and key derivation functions.

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Version: 19.1.0

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

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Version: 2.6.1

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Version: 0.6.0

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

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## pytest-dev/py License

Version: 1.5.2

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

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## pytest-dev/pytest-cov License

Version: 2.5.1

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## 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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Version: 3.6.0

simple powerful testing with Python

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Version: 17.4.0

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Version: 0.4.12

Greenlets are lightweight coroutines for in-process concurrent programming.

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Version: 6.2.2

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## cpython/python License

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Version: 3.6.2

## 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.

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

| Release        | Derived from | Year      | Owner      | GPL-compatible? (1) |
|----------------|--------------|-----------|------------|---------------------|
| 0.9.0 thru 1.2 |              | 1991-1995 | CWI        | yes                 |
| 1.3 thru 1.5.2 | 1.2          | 1995-1999 | CNRI       | yes                 |
| 1.6            | 1.5.2        | 2000      | CNRI       | no                  |
| 2.0            | 1.6          | 2000      | BeOpen.com | no                  |
| 1.6.1          | 1.6          | 2001      | CNRI       | yes (2)             |
| 2.1            | 2.0+1.6.1    | 2001      | PSF        | no                  |
| 2.0.1          | 2.0+1.6.1    | 2001      | PSF        | yes                 |
| 2.1.1          | 2.1+2.0.1    | 2001      | PSF        | yes                 |
| 2.1.2          | 2.1.1        | 2002      | PSF        | yes                 |
| 2.1.3          | 2.1.2        | 2002      | PSF        | yes                 |
| 2.2 and above  | 2.1.1        | 2001-now  | PSF        | yes                 |

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(2) According to Richard Stallman, 1.6.1 is not GPL-compatible,

because its license has a choice of law clause. According to CNRI, however, Stallman's lawyer has told CNRI's lawyer that 1.6.1 is "not incompatible" with the GPL.

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

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## pythoncharmners/python-future License

Version: 0.18.2

python-future is the missing compatibility layer between Python 2 and Python 3.

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## requests/requests License

Version: 2.25.0

Requests is a HTTP library for Python. It allows you to send HTTP/1.1 requests.

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SELinux Reference policy targeted base module.

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## simplejson/simplejson License

Version: 3.13.2

Simple, fast, extensible JSON encoder/decoder for Python

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## sqlalchemy/mako License

Version: 1.1.5

Mako is a template library written in Python. It provides a familiar, non-XML syntax which compiles into Python modules for maximum performance. Makos syntax and API borrows from the best ideas of many others, including Django templates, Cheetah, Myghty, and Genshi. Conceptually, Mako is an embedded Python (i.e. Python Server Page) language, which refines the familiar ideas of componentized layout and inheritance to produce one of the most straightforward and flexible models available, while also maintaining close ties to Python calling and scoping semantics.

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## ssldump License

Version: 0.9b3

An SSLv3/TLS network protocol analyzer

## swig/swig License

Version: 3.0.12

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

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Version: 201710201114

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Version: 4.9.3

A tool for network monitoring and data acquisition

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## tiran/defusedxml License

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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## ua-parser License

Version: 0.7.1

Python port of Browserscope's user agent parser.

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## unbit/uwsgi License

Version: 2.0.9

uWSGI is a software application that aims at developing a full stack for building hosting services.

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## untitaker/python-atomicwrites License

Version: 1.3.0

Powerful Python library for atomic file writes

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## urllib3/urllib3 License

Version: 1.25

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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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Version: 10.3.10-12406962

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.

## **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: 3.2.0

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

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## zzzeek/sqlalchemy

version: 1.3.24

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## zeromq/pyzmq License

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