

# Ivanti Connect Secure Attributions

## 22.4R1

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## IdentityPython/pyjwkest License

Version: 1.4.0

Python implementation of JWT, JWE, JWS and JWK

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## Martiusweb/asyncstest License

Version: 0.13.0

asyncstest 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.

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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

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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 back-ends 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.

## cannatag/ldap3 License

Version: 2.5.1

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

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Version 3, 29 June 2007

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Foreign Function Interface for Python calling C code

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Version: 3.0.4

The Universal Character Encoding Detector

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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.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

=====

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

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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

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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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: 0.3.4

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Version: 4.4.9

This is a pure-Python, open source and free implementation of v1/v2c/v3 SNMP engine

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Version: 1

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Version: 8.70

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## gnu/bash License

Version: 4.1.2-15

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Version: 11dd97a

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Version: 2.04-12

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Python package to create and decode network packets

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## IPsec-Tools License

Version: 0.6.6

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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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, 1 April 1990
Ty Coon, President of Vice
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## julian/jsonschema License

Version: 2.6.0

jsonschema is an implementation of JSON Schema for Python

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## kbandla/dpkt License

Version: 1.9.1

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

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Version: 2.7

Support for the Internationalised Domain Names in Applications (IDNA) protocol as specified in RFC 5891. This is the latest version of the protocol and is sometimes referred to as "IDNA 2008".

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Version: 0.6.25

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Version: 7.63.0

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

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Version: 7.74.0

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

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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

## libssh2 License

Version: 1.8.2

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Version: 0.5.1

libwebp library serves as a reference implementation for the WebP specification. WebP is a modern image format that provides superior lossless and lossy compression for images on the web.

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jloup@gzip.org                      madler@alumni.caltech.edu

...

## ## APACHE2

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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: RELEASE.2020-05-05T06-03-47Z

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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

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### Introduction

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## NetSNMP License

Version: 5.7.3

Various tools and libraries relating to the Simple Network Management Protocol



## net-snmp Code

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Version: 0.11.0

Fully featured framework for fast, easy and documented API development with Flask.

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Version: 0.10.1

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Websocket handler for the gevent networking library, a Python network library

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Numpy is a dependency for scikit-learn which provides a general-purpose array-processing package designed to efficiently manipulate large multi-dimensional arrays of arbitrary records

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Version: 5.3p1-112

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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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Version: 2.10.1

Jinja2 is a template engine written in pure Python. It provides a Django inspired non-XML syntax but supports inline expressions and an optional sandboxed environment.

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Version: 1

MarkupSafe implements a text object that escapes characters so it is safe to use in HTML and XML

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## paramiko/paramiko License

Version: 2.1.4

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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Written by: Philip Hazel  
Email local part: Philip.Hazel  
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    OWASP guidelines recommend to escape ' character along with & " < >
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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.

## pyca/pyopenssl License

Version: 19.1.0

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Version: 2.6.1

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Version: 3.6.2

Python interpreter for Python based applications

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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                 |

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|               |       |          |     |     |
|---------------|-------|----------|-----|-----|
| 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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## simplejson/simplejson License

Version: 3.13.2

Simple, fast, extensible JSON encoder/decoder for Python

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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

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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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## the-tcpdump-group/libpcap License

Version: 1.9.1

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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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Version: 4.9.3

A tool for network monitoring and data acquisition

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## tiran/defusedxml License

Version: 0.7.1

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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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Version: 1.5.6

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Version: 0.7.1

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Version: 2.0.9

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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: 1.23

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

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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## zzzeek/sqlalchemy

version: 1.3.24

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Version: 4.0.5

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## zeromq/pyzmq License

Version: 15.2.0

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