

# Ivanti Connect Secure Attributions

## 22.7R2

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## 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

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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: 1.61.0

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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## bzip2 License

Version: 1.0.6

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](mailto: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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Ty Coon, President of Vice
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Version: 10.2.8

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## coreutils License

Version: 8.22

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

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## **cryptsetup-luks-libs**

version: v2.6.1

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Version 2, June 1991

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```

```
<signature of Ty Coon>, 1 April 1989
Ty Coon, President of Vice
```

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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

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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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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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languages (PDL's) on the market today and technology conversion capabilities covering PDF, PostScript, PCL and XPS languages.

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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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## jackmoore/colorbox

version: 1.6.4

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## Jansson License

Version: 2.4

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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: 2.6.0

jsonschema is an implementation of JSON Schema for Python

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lib/libgss/g_dsp_name.c
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lib/libgss/g_dup_name.c
lib/libgss/g_exp_sec_context.c
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uts/common/gssapi/include/gssapi_err_generic.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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## Legrandin/pycryptodome License

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Version: 3.8.2

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Version: 7.80.0

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## 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>  
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Version: 2.5

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## libssh2 License

Version: 1.11.0

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Version: 0.5.1

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Version: 2.0.3

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Version: 0.9.18

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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: 1.2.0

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## mozilla-services/hawkauthlib License

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: 0.11.0

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

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Version: 0.10.1

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

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Version: 4.2.8P15

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Version: 1.14.3

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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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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## **pcre License**

Version: 7.6

Perl Compatible Regular Expressions

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THE BASIC LIBRARY FUNCTIONS  
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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 & " < >  
charaters to avoid possible XSS issues

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Version: 5.8.9

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## perl\_ssleay License

Version: 1.90

Perl5 interface to SSL

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Version: 1.0.22

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Version: 2.5

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Version: 2.6.1

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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

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

Apache License  
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## pycrypto License

Version: 2.6.1

Python cryptography toolkit

Copyright and licensing of the Python Cryptography Toolkit ("PyCrypto"):  
~~~~~  
Previously, the copyright and/or licensing status of the Python Cryptography

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Toolkit ("PyCrypto") had been somewhat ambiguous. The original intention of Andrew M. Kuchling and other contributors has been to dedicate PyCrypto to the public domain, but that intention was not necessarily made clear in the original disclaimer (see LEGAL/copy/LICENSE.orig).

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.)

To rectify this situation for PyCrypto 2.1, the following steps have been taken:

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2. Replacing some modules with clearly-licensed code from other sources (e.g. the DES and DES3 modules were replaced with new ones based on Tom St. Denis's public-domain LibTomCrypt library.)
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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## 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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## 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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Version: 2.5.1

Pytest plugin for measuring coverage.

The MIT License

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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

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.

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) |
|---------|--------------|------|-------|---------------------|
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|                |           |           |            |         |
|----------------|-----------|-----------|------------|---------|
| 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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Version: 0.18.2

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Version: 1.0.0

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## redis/redis License

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Version: 5.0.9

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## requests/requests License

Version: 2.25.0

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SELinux Reference policy targeted base module.

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## **snapappointments/bootstrap-select**

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version: 1.13.18

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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

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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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Version: 4.9.3

A tool for network monitoring and data acquisition

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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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Version: 1.7.4

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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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## unbit/uwsgi License

Version: 2.0.17.1

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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Version: 1.25

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

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## **user-agents License**

Version: 1.0.1

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

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Version: 10.3.10-12406962

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## 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: 1.3.24

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