

# Ivanti Connect Secure Attributions

## 9.1R18.7

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### IdentityPython/pyjwkes License

Version: 1.4.0

Python implementation of JWT, JWE, JWS and JWK

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### Martiusweb/asyncstes License

Version: 0.13.0

asyncstes 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.

### **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-netfow-v9-softfow3 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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The Universal Character Encoding Detector

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Version: 6.2.5

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Version: 0.11.1

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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

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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:

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

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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

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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 loup 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

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calculator with variables.

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

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requests. To contact me about bugs and/or new features, please send email to [dave@dabeaz.com](mailto:dave@dabeaz.com).

-- Dave

### **dashea/reqness-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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Dirk-jan

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## **eliben/pycparser License**

Version: 2.17.0

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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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Python ASN.1 types and codec implementation

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Version: 1

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Version: 1.1.24

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Version: 1.2.2

gevent is coroutine-based Python networking library that provides a high-level synchronous API on top of the libev event loop

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Version: 8.70

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### **gnu/bash License**

Version: 4.1.2-15

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## google-authenticator License

Version: 11dd97a

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

Base32 implementation by google authenticator

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Version: 0.9.22

Python package to create and decode network packets

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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

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## **jbardin/scp License**

Version: 0.13.2

This is the protocol as referenced from the openssh scp program

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

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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: 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: 1.8.2

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Version: 0.5.1

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Version: 0.9.18

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### **makamaka/JSON License**

Version: 4.02

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

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

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

Version: 1.3.0

This is Python module for reading MaxMind DB files.

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## maxmind/GeoIP2-python License

Version: 2.8.0

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

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Version: 1.2.0

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

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Version: 0.1.1

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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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When a program is linked with a library, whether statically or using a shared library, the combination of the two is legally speaking a combined work, a derivative of the original library. The ordinary General Public License therefore permits such linking only if the entire combination fits its criteria of freedom. The Lesser General Public License permits more lax criteria for linking other code with the library.

We call this license the "Lesser" General Public License because it does Less to protect the user's freedom than the ordinary General Public License. It also provides other free software developers Less of an advantage over competing non-free programs. These disadvantages are the reason we use the ordinary General Public License for many libraries. However, the Lesser license provides advantages in certain special circumstances.

For example, on rare occasions, there may be a special need to encourage the widest possible use of a certain library, so that it becomes a de-facto standard. To achieve this, non-free programs must be allowed to use the library. A more frequent case is that a free library does the same job as widely used non-free libraries. In this case, there is little to gain by limiting the free library to free software only, so we use the Lesser General Public License.

In other cases, permission to use a particular library in non-free programs enables a greater number of people to use a large body of free software. For example, permission to use the GNU C Library in non-free programs enables many more people to use the whole GNU operating system, as well as its variant, the GNU/Linux operating system.

Although the Lesser General Public License is Less protective of the users' freedom, it does ensure that the user of a program that is linked with the Library has the freedom and the wherewithal to run that program using a modified version of the Library.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, whereas the latter must be combined with the library in order to run.

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Each licensee is addressed as "you".

A "library" means a collection of software functions and/or data prepared so as to be conveniently linked with application programs (which use some of those functions and data) to form executables.

The "Library", below, refers to any such software library or work which has been distributed under these terms. A "work based on the Library" means either the Library or any derivative work under copyright law: that is to say, a work containing the Library or a portion of it, either verbatim or with modifications and/or translated straightforwardly into another language. (Hereinafter, translation is included without limitation in the term "modification".)

"Source code" for a work means the preferred form of the work for making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the

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scripts used to control compilation and installation of the library.

Activities other than copying, distribution and modification are not covered by this License; they are outside its scope. The act of running a program using the Library is not restricted, and output from such a program is covered only if its contents constitute a work based on the Library (independent of the use of the Library in a tool for writing it). Whether that is true depends on what the Library does and what the program that uses the Library does.

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You may charge a fee for the physical act of transferring a copy, and you may at your option offer warranty protection in exchange for a fee.

2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
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- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square

roots has a purpose that is entirely well-defined independent of the application. Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

These requirements apply to the modified work as a whole. If identifiable sections of that work are not derived from the Library, and can be reasonably considered independent and separate works in themselves, then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

In addition, mere aggregation of another work not based on the Library with the Library (or with a work based on the Library) on a volume of a storage or distribution medium does not bring the other work under the scope of this License.

3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

Once this change is made in a given copy, it is irreversible for that copy, so the ordinary GNU General Public License applies to all subsequent copies and derivative works made from that copy.

This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or

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derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under the terms of Sections 1 and 2 above on a

medium customarily used for software interchange.

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

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

However, linking a "work that uses the Library" with the Library creates an executable that is a derivative of the Library (because it contains portions of the Library), rather than a "work that uses the library". The executable is therefore covered by this License. Section 6 states terms for distribution of such executables.

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

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

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

6. As an exception to the Sections above, you may also combine or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

a) Accompany the work with the complete corresponding machine-readable source code for the Library including whatever changes were used in the work (which must be distributed under Sections 1 and 2 above); and, if the work is an executable linked

with the Library, with the complete machine-readable "work that uses the Library", as object code and/or source code, so that the user can modify the Library and then relink to produce a modified executable containing the modified Library. (It is understood that the user who changes the contents of definitions files in the Library will not necessarily be able to recompile the application to use the modified definitions.)

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

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

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

e) Verify that the user has already received a copy of

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these materials or that you have already sent this user a copy.

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

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

7. You may place library facilities that are a work based on the Library side-by-side in a single library together with other library facilities not covered by this License, and distribute such a combined library, provided that the separate distribution of the work based on the Library and of the other library facilities is otherwise permitted, and provided that you do these two things:

- a) Accompany the combined library with a copy of the same work based on the Library, uncombined with any other library facilities. This must be distributed under the terms of the Sections above.
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, 1 April 1990  
Ty Coon,

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all there is

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Preamble

The licenses for most software are designed to take away your freedom to share and change it. By contrast, the GNU General Public Licenses are intended to guarantee your freedom to share and change free software--to make sure the software is free for all its users.

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When we speak of free software, we are referring to freedom, not price. Our General Public Licenses are designed to make sure that you have

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the freedom to distribute copies of free software (and charge for this service if you wish), that you receive source code or can get it if you want it, that you can change the software or use pieces of it in new free programs; and that you know you can do these things.

To protect your rights, we need to make restrictions that forbid anyone to deny you these rights or to ask you to surrender the rights. These restrictions translate to certain responsibilities for you if you distribute copies of the library, or if you modify it.

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Our method of protecting your rights has two steps: (1) copyright the library, and (2) offer you this license which gives you legal permission to copy, distribute and/or modify the library.

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Most GNU software, including some libraries, is covered by the ordinary GNU General Public License, which was designed for utility programs. This license, the GNU Library General Public License, applies to certain designated libraries. This license is quite different from the ordinary one; be sure to read it in full, and don't assume that anything in it is the same as in the ordinary license.

The reason we have a separate public license for some libraries is that they blur the distinction we usually make between modifying or adding to a program and simply using it. Linking a program with a library, without changing the library, is in some sense simply using the library, and is analogous to running a utility program or application program. However,

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in a textual and legal sense, the linked executable is a combined work, a derivative of the original library, and the ordinary General Public License treats it as such.

Because of this blurred distinction, using the ordinary General Public License for libraries did not effectively promote software sharing, because most developers did not use the libraries. We concluded that weaker conditions might promote sharing better.

However, unrestricted linking of non-free programs would deprive the users of those programs of all benefit from the free status of the libraries themselves. This Library General Public License is intended to permit developers of non-free programs to use free libraries, while preserving your freedom as a user of such programs to change the free libraries that are incorporated in them. (We have not seen how to achieve this as regards changes in header files, but we have achieved it as regards changes in the actual functions of the Library.) The hope is that this will lead to faster development of free libraries.

The precise terms and conditions for copying, distribution and modification follow. Pay close attention to the difference between a "work based on the library" and a "work that uses the library". The former contains code derived from the library, while the latter only works together with the library.

Note that it is possible for a library to be covered by the ordinary General Public License rather than by this special one.

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making modifications to it. For a library, complete source code means all the source code for all modules it contains, plus any associated interface definition files, plus the scripts used to control compilation and installation of the library.

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2. You may modify your copy or copies of the Library or any portion of it, thus forming a work based on the Library, and copy and distribute such modifications or work under the terms of Section 1 above, provided that you also meet all of these conditions:

- a) The modified work must itself be a software library.
- b) You must cause the files modified to carry prominent notices stating that you changed the files and the date of any change.
- c) You must cause the whole of the work to be licensed at no charge to all third parties under the terms of this License.
- d) If a facility in the modified Library refers to a function or a table of data to be supplied by an application program that uses the facility, other than as an argument passed when the facility is invoked, then you must make a good faith effort to ensure that, in the event an application does not supply such function or table, the facility still operates, and performs whatever part of its purpose remains meaningful.

(For example, a function in a library to compute square roots has a purpose that is entirely well-defined independent of the application.

Therefore, Subsection 2d requires that any application-supplied function or table used by this function must be optional: if the application does not supply it, the square root function must still compute square roots.)

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then this License, and its terms, do not apply to those sections when you distribute them as separate works. But when you distribute the same sections as part of a whole which is a work based on the Library, the distribution of the whole must be on the terms of this License, whose permissions for other licensees extend to the entire whole, and thus to each and every part regardless of who wrote it.

Thus, it is not the intent of this section to claim rights or contest your rights to work written entirely by you; rather, the intent is to exercise the right to control the distribution of derivative or collective works based on the Library.

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3. You may opt to apply the terms of the ordinary GNU General Public License instead of this License to a given copy of the Library. To do this, you must alter all the notices that refer to this License, so that they refer to the ordinary GNU General Public License, version 2, instead of to this License. (If a newer version than version 2 of the ordinary GNU General Public License has appeared, then you can specify that version instead if you wish.) Do not make any other change in these notices.

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This option is useful when you wish to copy part of the code of the Library into a program that is not a library.

4. You may copy and distribute the Library (or a portion or derivative of it, under Section 2) in object code or executable form under the terms of Sections 1 and 2 above provided that you accompany it with the complete corresponding machine-readable source code, which must be distributed under

the terms of Sections 1 and 2 above on a medium customarily used for software interchange.

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

5. A program that contains no derivative of any portion of the Library, but is designed to work with the Library by being compiled or linked with it, is called

a "work that uses the Library". Such a work, in isolation, is not a derivative work of the Library, and therefore falls outside the scope of this License.

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

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

6. As an exception to the Sections above, you may also compile or link a "work that uses the Library" with the Library to produce a work containing portions of the Library, and distribute that work under terms of your choice, provided that the terms permit modification of the work for the customer's own use and reverse engineering for debugging such modifications.

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

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

be able

to recompile the application to use the modified definitions.)

- b) Accompany the work with a written offer, valid for at least three years, to give the same user the materials specified in Subsection 6a, above, for a charge no more than the cost of performing this distribution.
- c) If distribution of the work is made by offering access to copy from a designated place, offer equivalent access to copy the above specified materials from the same place.
- d) Verify that the user has already received a copy of these materials or that you have already sent this user a copy.

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

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

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Version: 0.11.0

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

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## **pallets/jinja License**

Version: 3.0.3

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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## pallets/markupsafe License

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

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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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Perl Compatible Regular Expressions

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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

## phihag/ipaddress License

Version: 1.0.22

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Version: 0.1.9

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Version: 2.1.4

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Version: 19.1.0

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## pycrypto License

Version: 2.6.1

Python cryptography toolkit

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Version: 2.5.1

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Version: 3.6.2

Python interpreter for Python based applications

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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

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Python was created in the early 1990s by Guido van Rossum at Stichting Mathematisch Centrum (CWI, see <http://www.cwi.nl>) in the Netherlands as a successor of a language called ABC. Guido remains Python's principal author, although it includes

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many contributions from others.

In 1995, Guido continued his work on Python at the Corporation for National Research Initiatives (CNRI, see <http://www.cnri.reston.va.us>) in Reston, Virginia where he released several versions of the software.

In May 2000, Guido and the Python core development team moved to BeOpen.com to form the BeOpen PythonLabs team. In October of the same year, the PythonLabs team moved to Digital Creations (now Zope Corporation, see <http://www.zope.com>). In 2001, the Python Software Foundation (PSF, see <http://www.python.org/psf/>) was formed, a non-profit organization created specifically to own Python-related Intellectual Property. Zope Corporation is a sponsoring member of the PSF.

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|----------------|--------------|-----------|------------|---------------------|
| 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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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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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: 1.9.1

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

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### **the-tcpdump-group/tcpdump License**

Version: 4.9.3

A tool for network monitoring and data acquisition

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## 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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Version: 1.5.6

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## **ua-parser License**

Version: 0.7.1

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Version: 2.0.9

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program, if necessary. Here is a sample; alter the names:

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, 1 April 1989  
Ty Coon, President of Vice

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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.

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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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## zeromq License

Version: 4.0.5

Zeromq is a high-performance asynchronous messaging library, aimed at use in scalable distributed or concurrent applications. It provides a message queue, but unlike message-oriented middleware, a ØMQ system can run without a dedicated message broker.

## zeromq/pyzmq License

Version: 15.2.0

PyZMQ is the Python bindings for ZeroMQ

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