

3rd-Party Software Report for **splunk-add-on-for-cisco-ucs**

This document lists the open source software and other third-party components used in splunk-add-on-for-cisco-ucs.

Any information contained in this report is subject to the terms of your FOSSA agreement and any applicable export control laws.

Generated
August 12, 2026

Revision
977da93778bc2debe5b81cac9ef5dffdeea99d07

Dependencies Details

This section shows the details for each package in splunk-add-on-for-cisco-ucs.

requests 2.31.0

pip+requests\$2.31.0

Direct

Description

Python HTTP for Humans.

Package Info

Project URL

<https://py.pi.org/project/requests/>

Package Download URL

<https://files.pythonhosted.org/packages/9d/be/10918a2eac4ae9f02f6cfe6414b7a155ccd8f7f9d4380d62fd5b955065c3/requests-2.31.0.tar.gz>

Dependency Path

requests

Declared License(s)

Apache-2.0

License Text

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

Copyright(s)

None

Discovered License(s)

None

six 1.16.0

pip+six\$1.16.0

Direct

Description

Python 2 and 3 compatibility utilities

Package Info

Project URL

<https://github.com/benjaminp/six>

Package Download URL

<https://files.pythonhosted.org/packages/71/39/171f1c67cd00715f190ba0b100d606d440a28c93c7714febeca8b79af85e/six-1.16.0.tar.gz>

Dependency Path

six

Declared License(s)

MIT

License Text

Copyright (c) 2010-2020 Benjamin Peterson

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright(s)

2010-2020 Benjamin Peterson

Discovered License(s)

None

sortedcontainers 2.4.0

pip+sortedcontainers\$2.4.0

Direct

Description

Sorted Containers -- Sorted List, Sorted Dict, Sorted Set

Package Info

Project URL

<http://www.grantjenks.com/docs/sortedcontainers/>

Package Download URL

<https://files.pythonhosted.org/packages/e8/c4/ba2f8066cceb6f23394729afe52f3bf7adec04bf9ed2c820b39e19299111/sortedcontainers-2.4.0.tar.gz>

Dependency Path

sortedcontainers, splunktaucclib > solnlib > sortedcontainers

Declared License(s)

Apache-2.0

License Text

Copyright 2014-2019 Grant Jenks

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied.

See the License for the specific language governing permissions and
limitations under the License.

Copyright(s)

2014-2019 Grant Jenks

Discovered License(s)

None

splunktaucclib 8.2.0

pip+splunktaucclib\$8.2.0

Direct

Description

None

Package Info

Project URL

<https://pypi.org/project/splunktaucclib/>

Package Download URL

<https://files.pythonhosted.org/packages/a1/c5/7dbb204b45a8c5dbb999119fbe64ae643e9fa22be8f4f21f63dbc5345862/splunktaucclib-8.2.0.tar.gz>

Dependency Path

splunktaucclib

Declared License(s)

Apache-2.0

License Text

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by

the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems,

and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.
4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:
 - (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
 - (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
 - (c) You must retain, in the Source form of any Derivative Works

that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each

Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2021 Splunk Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied.

See the License for the specific language governing permissions and
limitations under the License.

Copyright(s)

2021 Splunk Inc.

Discovered License(s)

None

certifi 2026.6.17

pip+certifi\$2026.6.17

Transitive

Description

Python package for providing Mozilla's CA Bundle.

Package Info

Project URL

<https://github.com/certifi/python-certifi>

Package Download URL

<https://files.pythonhosted.org/packages/c9/c7/424b75da314c1045981bd9777432fad05a9e0c69daa4ed7e308bbaffe405/certifi-2026.6.17.tar.gz>

Dependency Path

requests > certifi

Declared License(s)

MPL-2.0

License Text

This package contains a modified version of ca-bundle.crt:

ca-bundle.crt -- Bundle of CA Root Certificates

This is a bundle of X.509 certificates of public Certificate Authorities (CA). These were automatically extracted from Mozilla's root certificates file (certdata.txt). This file can be found in the mozilla source tree:

[https://hg.mozilla.org/mozilla-](https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt)

[central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt](https://hg.mozilla.org/mozilla-central/file/tip/security/nss/lib/ckfw/builtins/certdata.txt)

It contains the certificates in PEM format and therefore

can be directly used with curl / libcurl / php_curl, or with

an Apache+mod_ssl webserver for SSL client authentication.

Just configure this file as the SSLCACertificateFile.#

***** BEGIN LICENSE BLOCK *****

This Source Code Form is subject to the terms of the Mozilla Public License, v. 2.0. If a copy of the MPL was not distributed with this file, You can obtain one at <http://mozilla.org/MPL/2.0/>.

***** END LICENSE BLOCK *****

@(#) \$RCSfile: certdata.txt,v \$ \$Revision: 1.80 \$ \$Date: 2011/11/03

15:11:58 \$

Copyright(s)

None

Discovered License(s)

None

charset-normalizer 3.4.2

pip+charset-normalizer\$3.4.2

Transitive

Description

The Real First Universal Charset Detector. Open, modern and actively maintained alternative to Chardet.

Package Info

Project URL

<https://pypi.org/project/charset-normalizer/>

Package Download URL

https://files.pythonhosted.org/packages/e4/33/89c2ced2b67d1c2a61c19c6751aa8902d46ce3dacb23600a283619f5a12d/charset_normalizer-3.4.2.tar.gz

Dependency Path

requests > charset-normalizer

Declared License(s)

MIT

License Text

MIT License

Copyright (c) 2025 TAHRI Ahmed R.

Permission is hereby granted, free of charge, to any person obtaining a copy of this software and associated documentation files (the "Software"), to deal in the Software without restriction, including without limitation the rights to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR

IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

Copyright(s)

2025 TAHRI Ahmed R.

Discovered License(s)

None

defusedxml 0.7.1

pip+defusedxml\$0.7.1

Transitive

Description

```
=====
defusedxml -- defusing XML bombs and other exploits
===== .. image::
https://img.shields.io/pypi/v/defusedxml.svg :target:
https://pypi.org/project/defusedxml/ :alt: Latest Version .. image::
https://img.shields.io/pypi/pyversions/defusedxml.svg :target:
https://pypi.org/project/defusedxml/ :alt: Supported Python versions ..
image:: https://travis-ci.org/tiran/defusedxml.svg?branch=master :target:
https://travis-ci.org/tiran/defusedxml :alt: Travis CI .. image::
https://codecov.io/github/tiran/defusedxml/coverage.svg?branch=master
:target: https://codecov.io/github/tiran/defusedxml?branch=master :alt:
codecov .. image:: https://img.shields.io/pypi/dm/defusedxml.svg :target:
https://pypistats.org/packages/defusedxml :alt: PyPI downloads .. image::
https://img.shields.io/badge/code%20style-black-000000.svg :target:
https://github.com/psf/black :alt: Code style: black .. "It's just XML, what
could probably go wrong?" Christian Heimes <christian@python.org>
```

Synopsis ===== The results of an attack on a vulnerable XML library can be fairly dramatic. With just a few hundred **Bytes** of XML data an attacker can occupy several **Gigabytes** of memory within **seconds**. An attacker can also keep CPUs busy for a long time with a small to medium size request. Under some circumstances it is even possible to access local files on your server, to circumvent a firewall, or to abuse services to rebound attacks to third parties. The attacks use and abuse less common features of XML and its parsers. The majority of developers are unacquainted with features such as processing instructions and entity expansions that XML inherited from SGML. At best they know about `<!DOCTYPE>` from experience with HTML but they are not aware that a document type definition (DTD) can generate an HTTP request or load a file from the file system. None of the issues is new. They have been known for a long time. Billion laughs was first reported in 2003. Nevertheless some XML libraries and applications are still vulnerable and even heavy users of XML are surprised by these features. It's hard to say whom to blame for the situation. It's too short sighted to shift all blame on XML parsers and XML libraries for using insecure default settings. After all they properly implement XML specifications. Application developers must not rely that a library is always configured for security and potential harmful data by default. .. contents:: Table of Contents :depth: 2 Attack vectors ===== billion laughs / exponential entity expansion -----

----- The Billion Laughs_ attack -- also known as exponential entity expansion -- uses multiple levels of nested entities. The original example uses 9 levels of 10 expansions in each level to expand the string lol to a string of 3×10^9 bytes, hence the name "billion laughs". The resulting string occupies 3 GB (2.79 GiB) of memory; intermediate strings require additional memory. Because most parsers don't cache the intermediate step for every expansion it is repeated over and over again. It increases the CPU load even more. An XML document of just a few hundred bytes can disrupt all services on a machine within seconds. Example XML::
<!DOCTYPE xmlbomb [<!ENTITY a "1234567890" > <!ENTITY b
"&a;&a;&a;&a;&a;&a;&a;&a;"> <!ENTITY c "&b;&b;&b;&b;&b;&b;&b;&b;">
<!ENTITY d "&c;&c;&c;&c;&c;&c;&c;&c;">]> <bomb>&d;</bomb> quadratic
blowup entity expansion ----- A quadratic blowup attack
is similar to a Billion Laughs_ attack; it abuses entity expansion, too. Instead of nested entities it repeats one large entity with a couple of thousand chars over and over again. The attack isn't as efficient as the exponential case but it avoids triggering countermeasures of parsers against heavily nested entities. Some parsers limit the depth and breadth of a single entity but not the total amount of expanded text throughout an entire XML document. A medium-sized XML document with a couple of hundred kilobytes can require a couple of hundred MB to several GB of memory. When the attack is combined with some level of nested expansion an attacker is able to achieve a higher ratio of success. :: <!DOCTYPE bomb [<!ENTITY a "xxxxxxx... a

couple of ten thousand chars">]> <bomb>&a;&a;&a;... repeat</bomb>

external entity expansion (remote) ----- Entity declarations can contain more than just text for replacement. They can also point to external resources by public identifiers or system identifiers. System identifiers are standard URIs. When the URI is a URL (e.g. a http://locator) some parsers download the resource from the remote location and embed them into the XML document verbatim. Simple example of a parsed external entity:: <!DOCTYPE external [<!ENTITY ee SYSTEM "http://www.python.org/some.xml">]> <root>ⅇ</root>

The case of parsed external entities works only for valid XML content. The XML standard also supports unparsed external entities with a NData declaration. External entity expansion opens the door to plenty of exploits. An attacker can abuse a vulnerable XML library and application to rebound and forward network requests with the IP address of the server. It highly depends on the parser and the application what kind of exploit is possible. For example: *

- * An attacker can circumvent firewalls and gain access to restricted resources as all the requests are made from an internal and trustworthy IP address, not from the outside.
- * An attacker can abuse a service to attack, spy on or DoS your servers but also third party services. The attack is disguised with the IP address of the server and the attacker is able to utilize the high bandwidth of a big machine.
- * An attacker can exhaust additional resources on the machine, e.g. with requests to a service that doesn't respond or responds with very large files.
- * An attacker may gain knowledge, when, how often and from which IP address an XML document is accessed.
- * An attacker could send mail from inside your network if the URL handler supports smtp://URLs.

external entity expansion (local file) ----- External entities with references to local files are a sub-case of external entity expansion. It's listed as an extra attack because it deserves extra attention. Some XML libraries such as lxml disable network access by default but still allow entity expansion with local file access by default. Local files are either referenced with a file://URL or by a file path (either relative or absolute). An attacker may be able to access and download all files that can be read by the application process. This may include critical configuration files, too. ::

<!DOCTYPE external [<!ENTITY ee SYSTEM "file:///PATH/TO/simple.xml">]> <root>ⅇ</root>

DTD retrieval ----- This case is similar to external entity expansion, too. Some XML libraries like Python's xml.dom.pulldom retrieve document type definitions from remote or local locations. Several attack scenarios from the external entity case apply to this issue as well. ::

<?xml version="1.0" encoding="utf-8"?> <!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN" "http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd"> <html> <head/> <body>text</body> </html>

Python XML Libraries =====

.. csv-table:: vulnerabilities and features	:header:	"kind", "sax", "etree", "minidom", "pulldom", "xmlrpc", "lxml", "genshi"	:widths:	24, 7, 8, 8, 7, 8, 8, 8
---	----------	--	----------	-------------------------

```

:stub-columns: 0 "billion laughs", "***True**", "***True**", "***True**", "***True**",
***True**", "False (1)", "False (5)" "quadratic blowup", "***True**", "***True**",
***True**", "***True**", "***True**", "***True**", "False (5)" "external entity
expansion (remote)", "***True**", "False (3)", "False (4)", "***True**", "false", "False
(1)", "False (5)" "external entity expansion (local file)", "***True**", "False (3)",
"False (4)", "***True**", "false", "***True**", "False (5)" "DTD retrieval", "***True**",
"False", "False", "***True**", "false", "False (1)", "False" "gzip bomb", "False",
"False", "False", "False", "***True**", "***partly** (2)", "False" "xpath support (7)",
"False", "False", "False", "False", "False", "***True**", "False" "xsl(t) support (7)",
"False", "False", "False", "False", "False", "***True**", "False" "xinclude support
(7)", "False", "***True** (6)", "False", "False", "False", "***True** (6)", "***True**" "C
library", "expat", "expat", "expat", "expat", "expat", "libxml2", "expat" 1. Lxml is
protected against billion laughs attacks and doesn't do network lookups by
default. 2. libxml2 and lxml are not directly vulnerable to gzip decompression
bombs but they don't protect you against them either. 3. xml.etree doesn't
expand entities and raises a ParserError when an entity occurs. 4. minidom
doesn't expand entities and simply returns the unexpanded entity verbatim. 5.
genshi.input of genshi 0.6 doesn't support entity expansion and raises a
ParserError when an entity occurs. 6. Library has (limited) XInclude support
but requires an additional step to process inclusion. 7. These are features
but they may introduce exploitable holes, see Other things to consider_
Settings in standard library ----- xml.sax.handler Features
..... feature_external_ges (http://xml.org/sax/features/external-general-entities) disables external entity expansion
feature_external_pes (http://xml.org/sax/features/external-parameter-entities) the option is
ignored and doesn't modify any functionality DOM
xml.dom.xmlbuilder.Options ..... external_parameter_entities
ignored external_general_entities ignored external_dtd_subset ignored
entities unsure defusedxml ===== The defusedxml package_
(defusedxml on PyPI_) contains several Python-only workarounds and fixes
for denial of service and other vulnerabilities in Python's XML libraries. In
order to benefit from the protection you just have to import and use the
listed functions / classes from the right defusedxml module instead of the
original module. Merely defusedxml.xmlrpc_ is implemented as monkey
patch. Instead of: >>> from xml.etree.ElementTree import parse >>> et =
parse(xmlfile) alter code to: >>> from defusedxml.ElementTree import parse
>>> et = parse(xmlfile) Additionally the package has an **untested** function
to monkey patch all stdlib modules with defusedxml.defuse_stdlib(). All
functions and parser classes accept three additional keyword arguments.
They return either the same objects as the original functions or compatible
subclasses. forbid_dtd (default: False) disallow XML with a <!DOCTYPE>`
processing instruction and raise a *DTDForbidden* exception when a DTD
processing instruction is found. forbid_entities (default: True) disallow XML
with <!ENTITY>>`declarations inside the DTD and raise an *EntitiesForbidden*

```

exception when an entity is declared. forbid_external (default: True) disallow any access to remote or local resources in external entities or DTD and raising an **ExternalReferenceForbidden** exception when a DTD or entity references an external resource. defusedxml (package) -----
DefusedXmlException, DTDForbidden, EntitiesForbidden, ExternalReferenceForbidden, NotSupportedError defuse_stdlib()
(*experimental*) defusedxml.cElementTree ----- ****NOTE****
`defusedxml.cElementTree` is deprecated and will be removed in a future release. Import from `defusedxml.ElementTree` instead. parse(), iterparse(), fromstring(), XMLParser defusedxml.ElementTree ----- parse(), iterparse(), fromstring(), XMLParser defusedxml.expatreader ----- create_parser(), DefusedExpatParser defusedxml.sax ----- parse(), parseString(), make_parser() defusedxml.expatbuilder ----- parse(), parseString(), DefusedExpatBuilder, DefusedExpatBuilderNS defusedxml.minidom ----- parse(), parseString() defusedxml.pulldom ----- parse(), parseString() defusedxml.xmlrpc ----- The fix is implemented as monkey patch for the stdlib's xmlrpc package (3.x) or xmlrpclib module (2.x). The function monkey_patch() enables the fixes, unmonkey_patch() removes the patch and puts the code in its former state. The monkey patch protects against XML related attacks as well as decompression bombs and excessively large requests or responses. The default setting is 30 MB for requests, responses and gzip decompression. You can modify the default by changing the module variable MAX_DATA: A value of -1 disables the limit. defusedxml.lxml ----- ****DEPRECATED****
The module is deprecated and will be removed in a future release. The module acts as an **example** how you could protect code that uses lxml.etree. It implements a custom Element class that filters out Entity instances, a custom parser factory and a thread local storage for parser instances. It also has a check_docinfo() function which inspects a tree for internal or external DTDs and entity declarations. In order to check for entities lxml > 3.0 is required. parse(), fromstring() RestrictedElement, GlobalParserTLS, getDefaultParser(), check_docinfo() defusedexpat
===== The `defusedexpat` package_ (defusedexpat on PyPI_) comes with binary extensions and a modified expat_ library instead of the standard expat parser_. It's basically a stand-alone version of the patches for Python's standard library C extensions. Modifications in expat ----- new definitions:: XML_BOMB_PROTECTION
XML_DEFAULT_MAX_ENTITY_INDIRECTIONS
XML_DEFAULT_MAX_ENTITY_EXPANSIONS XML_DEFAULT_RESET_DTD new XML_FeatureEnum members:: XML_FEATURE_MAX_ENTITY_INDIRECTIONS XML_FEATURE_MAX_ENTITY_EXPANSIONS XML_FEATURE_IGNORE_DTD new XML_Error members:: XML_ERROR_ENTITY_INDIRECTIONS
XML_ERROR_ENTITY_EXPANSION new API functions:: int XML_GetFeature(XML_Parser parser, enum XML_FeatureEnum feature, long

*value); int XML_SetFeature(XML_Parser parser, enum XML_FeatureEnum feature, long value); int XML_GetFeatureDefault(enum XML_FeatureEnum feature, long *value); int XML_SetFeatureDefault(enum XML_FeatureEnum feature, long value); XML_FEATURE_MAX_ENTITY_INDIRECTIONS Limit the amount of indirections that are allowed to occur during the expansion of a nested entity. A counter starts when an entity reference is encountered. It resets after the entity is fully expanded. The limit protects the parser against exponential entity expansion attacks (aka billion laughs attack). When the limit is exceeded the parser stops and fails with

XML_ERROR_ENTITY_INDIRECTIONS: A value of 0 disables the protection.

Supported range 0 .. UINT_MAX Default 40

XML_FEATURE_MAX_ENTITY_EXPANSIONS Limit the total length of all entity expansions throughout the entire document. The lengths of all entities are accumulated in a parser variable. The setting protects against quadratic blowup attacks (lots of expansions of a large entity declaration). When the sum of all entities exceeds the limit, the parser stops and fails with

XML_ERROR_ENTITY_EXPANSION: A value of 0 disables the protection.

Supported range 0 .. UINT_MAX Default 8 MiB XML_FEATURE_RESET_DTD

Reset all DTD information after the <!DOCTYPE> block has been parsed.

When the flag is set (default: false) all DTD information after the endDoctypeDeclHandler has been called. The flag can be set inside the endDoctypeDeclHandler. Without DTD information any entity reference in the document body leads to XML_ERROR_UNDEFINED_ENTITY: Supported range

0, 1 Default 0 How to avoid XML vulnerabilities

===== Best practices ----- * Don't allow DTDs * Don't expand entities * Don't resolve externals * Limit parse depth * Limit total input size * Limit parse time * Favor a SAX or iterparse-like parser for potential large data * Validate and properly quote arguments to XSL transformations and XPath queries * Don't use XPath expression from untrusted sources * Don't apply XSL transformations that come from untrusted sources (based on Brad Hill's Attacking XML Security_) Other things to consider

===== XML, XML parsers and processing libraries have more features and possible issue that could lead to DoS vulnerabilities or security exploits in applications. I have compiled an incomplete list of theoretical issues that need further research and more attention. The list is deliberately pessimistic and a bit paranoid, too. It contains things that might go wrong under daffy circumstances. attribute blowup / hash collision attack ----- XML parsers may use an algorithm with quadratic runtime $O(n^2)$ to handle attributes and namespaces. If it uses hash tables (dictionaries) to store attributes and namespaces the implementation may be vulnerable to hash collision attacks, thus reducing the performance to $O(n^2)$ again. In either case an attacker is able to forge a denial of service attack with an XML document that contains thousands upon thousands of attributes in a single node. I haven't

researched yet if expat, pyexpat or libxml2 are vulnerable. decompression bomb ----- The issue of decompression bombs (aka ZIP bomb_) apply to all XML libraries that can parse compressed XML stream like gzipped HTTP streams or LZMA-ed files. For an attacker it can reduce the amount of transmitted data by three magnitudes or more. Gzip is able to compress 1 GiB zeros to roughly 1 MB, lzma is even better:: \$ dd if=/dev/zero bs=1M count=1024 | gzip > zeros.gz \$ dd if=/dev/zero bs=1M count=1024 | lzma -z > zeros.xy \$ ls -sh zeros.* 1020K zeros.gz 148K zeros.xy None of Python's standard XML libraries decompress streams except for lxmlrcplib. The module is vulnerable <<https://bugs.python.org/issue16043>> to decompression bombs. lxml can load and process compressed data through libxml2 transparently. libxml2 can handle even very large blobs of compressed data efficiently without using too much memory. But it doesn't protect applications from decompression bombs. A carefully written SAX or iterparse-like approach can be safe. Processing Instruction ----- PI_'s like:: <?xml-stylesheet type="text/xsl" href="style.xsl"?> may impose more threats for XML processing. It depends if and how a processor handles processing instructions. The issue of URL retrieval with network or local file access apply to processing instructions, too. Other DTD features ----- DTD_ has more features like <!NOTATION>. I haven't researched how these features may be a security threat. XPath ----- XPath statements may introduce DoS vulnerabilities. Code should never execute queries from untrusted sources. An attacker may also be able to create an XML document that makes certain XPath queries costly or resource hungry. XPath injection attacks ----- XPath injection attacks pretty much work like SQL injection attacks. Arguments to XPath queries must be quoted and validated properly, especially when they are taken from the user. The page Avoid the dangers of XPath injection_ list some ramifications of XPath injections. Python's standard library doesn't have XPath support. Lxml supports parameterized XPath queries which does proper quoting. You just have to use its xpath() method correctly:: # DON'T >>> tree.xpath("/tag[@id='%s']" % value) # instead do >>> tree.xpath("/tag[@id=\$tagid]", tagid=name) XInclude ----- XML Inclusion_ is another way to load and include external files:: <root xmlns:xi="http://www.w3.org/2001/XInclude"> <xi:include href="filename.txt" parse="text" /> </root> This feature should be disabled when XML files from an untrusted source are processed. Some Python XML libraries and libxml2 support XInclude but don't have an option to sandbox inclusion and limit it to allowed directories. XMLSchema location ----- A validating XML parser may download schema files from the information in a xsi:schemaLocation attribute. :: <ead xmlns="urn:isbn:1-931666-22-9" xmlns:xsi="http://www.w3.org/2001/XMLSchema-instance" xsi:schemaLocation="urn:isbn:1-931666-22-9 http://www.loc.gov/ead/ead.xsd"> </ead> XSL Transformation -----

You should keep in mind that XSLT is a Turing complete language. Never process XSLT code from unknown or untrusted source! XSLT processors may allow you to interact with external resources in ways you can't even imagine. Some processors even support extensions that allow read/write access to file system, access to JRE objects or scripting with Jython.

Example from Attacking XML Security_ for Xalan-J: `<xsl:stylesheet version="1.0" xmlns:xsl="http://www.w3.org/1999/XSL/Transform" xmlns:rt="http://xml.apache.org/xalan/java/java.lang.Runtime" xmlns:ob="http://xml.apache.org/xalan/java/java.lang.Object" exclude-result-prefixes=" rt ob"> <xsl:template match="/"> <xsl:variable name="runtimeObject" select="rt.getRuntime()"/> <xsl:variable name="command" select="rt.exec($runtimeObject, 'c:\Windows\system32\cmd.exe')/> <xsl:variable name="commandAsString" select="ob.toString($command)"/> <xsl:value-of select="$commandAsString"/> </xsl:template> </xsl:stylesheet>` Related CVEs ===== CVE-2013-1664 Unrestricted entity expansion induces DoS vulnerabilities in Python XML libraries (XML bomb) CVE-2013-1665 External entity expansion in Python XML libraries inflicts potential security flaws and DoS vulnerabilities Other languages / frameworks ===== Several other programming languages and frameworks are vulnerable as well. A couple of them are affected by the fact that libxml2 up to 2.9.0 has no protection against quadratic blowup attacks. Most of them have potential dangerous default settings for entity expansion and external entities, too.

Perl ---- Perl's XML::Simple is vulnerable to quadratic entity expansion and external entity expansion (both local and remote). Ruby ---- Ruby's REXML document parser is vulnerable to entity expansion attacks (both quadratic and exponential) but it doesn't do external entity expansion by default. In order to counteract entity expansion you have to disable the feature::

REXML::Document.entity_expansion_limit = 0 libxml-ruby and hpriocot don't expand entities in their default configuration. PHP --- PHP's SimpleXML API is vulnerable to quadratic entity expansion and loads entities from local and remote resources. The option LIBXML_NONET`disables network access but still allows local file access. LIBXML\_NOENT`seems to have no effect on entity expansion in PHP 5.4.6. C# / .NET / Mono ----- Information in XML DoS and Defenses (MSDN)_ suggest that .NET is vulnerable with its default settings. The article contains code snippets how to create a secure XML reader::

```
XmlReaderSettings settings = new XmlReaderSettings();
settings.ProhibitDtd = false; settings.MaxCharactersFromEntities = 1024;
settings.XmlResolver = null; XmlReader reader = XmlReader.Create(stream,
settings);
```

Java ---- Untested. The documentation of Xerces and its Xerces SecurityMananger_ sounds like Xerces is also vulnerable to billion laugh attacks with its default settings. It also does entity resolving when an `org.xml.sax.EntityResolver` is configured. I'm not yet sure about the default

setting here. Java specialists suggest to have a custom builder factory::

```

DocumentBuilderFactory builderFactory =
DocumentBuilderFactory.newInstance();
builderFactory.setXIncludeAware(False);
builderFactory.setExpandEntityReferences(False);
builderFactory.setFeature(XMLConstants.FEATURE_SECURE_PROCESSING,
True); # either
builderFactory.setFeature("http://apache.org/xml/features/disallow-
doctype-decl", True); # or if you need DTDs
builderFactory.setFeature("http://xml.org/sax/features/external-general-
entities", False);
builderFactory.setFeature("http://xml.org/sax/features/external-parameter-
entities", False);
builderFactory.setFeature("http://apache.org/xml/features/nonvalidating/load-
external-dtd", False);
builderFactory.setFeature("http://apache.org/xml/features/nonvalidating/load-
dtd-grammar", False);

```

TODO ==== * DOM: Use `xml.dom.xmlbuilder` options for entity handling * SAX: take `feature_external_ges` and `feature_external_pes` (?) into account * test experimental monkey patching of `stdlib` modules *

improve documentation License ===== Copyright (c) 2013-2017 by Christian Heimes <christian@python.org> Licensed to PSF under a Contributor Agreement. See <https://www.python.org/psf/license> for licensing details. Acknowledgements ===== Brett Cannon (Python Core developer) review and code cleanup Antoine Pitrou (Python Core developer) code review Aaron Patterson, Ben Murphy and Michael Koziarski (Ruby community) Many thanks to Aaron, Ben and Michael from the Ruby community for their report and assistance. Thierry Carrez (OpenStack) Many thanks to Thierry for his report to the Python Security Response Team on behalf of the OpenStack security team. Carl Meyer (Django) Many thanks to Carl for his report to PSRT on behalf of the Django security team. Daniel Veillard (libxml2) Many thanks to Daniel for his insight and assistance with libxml2. semantics GmbH (<https://www.semantics.de/>) Many thanks to my employer semantics for letting me work on the issue during working hours as part of semantics's open source initiative. References ===== * XML DoS and Defenses (MSDN)_ * Billion Laughs_ on Wikipedia * ZIP bomb_ on Wikipedia * Configure SAX parsers for secure processing_ * Testing for XML Injection_ .. _defusedxml package: <https://github.com/tiran/defusedxml> .. _defusedxml on PyPI: <https://pypi.python.org/pypi/defusedxml> .. _defusedexpat package: <https://github.com/tiran/defusedexpat> .. _defusedexpat on PyPI: <https://pypi.python.org/pypi/defusedexpat> .. _modified expat: <https://github.com/tiran/expat> .. _expat parser: <http://expat.sourceforge.net/> .. _Attacking XML Security: <https://www.isecpartners.com/media/12976/iSEC-HILL-Attacking-XML-Security-bh07.pdf> .. _Billion Laughs:

<https://en.wikipedia.org/wiki/BillionLaughs> .. _XML DoS and Defenses (MSDN): <https://msdn.microsoft.com/en-us/magazine/ee335713.aspx> .. _ZIP bomb: https://en.wikipedia.org/wiki/Zip_bomb .. _DTD: https://en.wikipedia.org/wiki/Document_Type_Definition .. _PI: https://en.wikipedia.org/wiki/Processing_Instruction .. _Avoid the dangers of XPath injection: <http://www.ibm.com/developerworks/xml/library/x-xpathinjection/index.html> .. _Configure SAX parsers for secure processing: <http://www.ibm.com/developerworks/xml/library/x-tipcfsx/index.html> .. _Testing for XML Injection: [https://www.owasp.org/index.php/Testing_for_XML_Injection_\(OWASP-DV-008\)](https://www.owasp.org/index.php/Testing_for_XML_Injection_(OWASP-DV-008)) .. _Xerces SecurityManager: <https://xerces.apache.org/xerces2-j/javadocs/xerces2/org/apache/xerces/util/SecurityManager.html> .. _XML Inclusion: https://www.w3.org/TR/xinclude/#include_element Changelog
===== defusedxml 0.7.1 ----- *Release date: 08-Mar-2021* -
Fix regression `defusedxml.ElementTree.ParseError`(#63)` The `ParseError`` exception is now the same class object as `xml.etree.ElementTree.ParseError`` again. defusedxml 0.7.0 ----- *Release date: 4-Mar-2021* - No
changes defusedxml 0.7.0rc2 ----- *Release date: 12-Jan-2021* -
Re-add and deprecate `defusedxml.cElementTree`` - Use GitHub Actions instead of TravisCI - Restore `ElementTree`` attribute of `xml.etree`` module after
patching defusedxml 0.7.0rc1 ----- *Release date: 04-May-2020* -
Add support for Python 3.9 - `defusedxml.cElementTree`` is not available with Python 3.9. - Python 2 is deprecated. Support for Python 2 will be removed in 0.8.0. defusedxml 0.6.0 ----- *Release date: 17-Apr-2019* - Increase
test coverage. - Add badges to README. defusedxml 0.6.0rc1 -----
Release date: 14-Apr-2019 - Test on Python 3.7 stable and 3.8-dev - Drop
support for Python 3.4 - No longer pass `*html*` argument to `XMLParse`. It has
been deprecated and ignored for a long time. The `DefusedXMLParser` still
takes a `html` argument. A deprecation warning is issued when the argument is
`False` and a `TypeError` when it's `True`. - defusedxml now fails early when
`pyexpat` stdlib module is not available or broken. -
defusedxml.ElementTree.__all__ now lists `ParseError` as public attribute. - The
defusedxml.ElementTree and defusedxml.cElementTree modules had a typo
and used `XMLParse` instead of `XMLParser` as an alias for `DefusedXMLParser`.
Both the old and fixed name are now available. defusedxml 0.5.0 -----
Release date: 07-Feb-2017 - No changes defusedxml 0.5.0rc1 -----
---- *Release date: 28-Jan-2017* - Add compatibility with Python 3.6 - Drop
support for Python 2.6, 3.1, 3.2, 3.3 - Fix lxml tests (`XMLSyntaxError:`
Detected an entity reference loop) defusedxml 0.4.1 ----- *Release
date: 28-Mar-2013* - Add more demo exploits, e.g. `python_external.py` and
Xalan XSLT demos. - Improved documentation. defusedxml 0.4 -----
Release date: 25-Feb-2013 - As per <http://seclists.org/oss-sec/2013/q1/340> please REJECT CVE-2013-0278, CVE-2013-0279 and
CVE-2013-0280 and use CVE-2013-1664, CVE-2013-1665 for

OpenStack/etc. - Add missing parser_list argument to sax.make_parser(). The argument is ignored, though. (thanks to Florian Apolloner) - Add demo exploit for external entity attack on Python's SAX parser, XML-RPC and WebDAV.

defusedxml 0.3 ----- *Release date: 19-Feb-2013* - Improve documentation

defusedxml 0.2 ----- *Release date: 15-Feb-2013* - Rename ExternalEntitiesForbidden to ExternalReferenceForbidden - Rename defusedxml.lxml.check_dtd() to check_docinfo() - Unify argument names in callbacks - Add arguments and formatted representation to exceptions - Add forbid_external argument to all functions and classes - More tests - LOTS of documentation - Add example code for other languages (Ruby, Perl, PHP) and parsers (Genshi) - Add protection against XML and gzip attacks to xmlrpclib

defusedxml 0.1 ----- *Release date: 08-Feb-2013* - Initial and internal release for PSRT review

Package Info

Project URL

<https://github.com/tiran/defusedxml>

Package Download URL

<https://files.pythonhosted.org/packages/0f/d5/c66da9b79e5bdb124974bfe172b4daf3c984ebd9c2a06e2b8a4dc7331c72/defusedxml-0.7.1.tar.gz>

Dependency Path

splunktaucclib > defusedxml, splunktaucclib > solnlib > defusedxml

Declared License(s)

None

Discovered License(s)

PSF-2.0

License Text

PYTHON SOFTWARE FOUNDATION LICENSE VERSION 2

1. This LICENSE AGREEMENT is between the Python Software Foundation ("PSF"), and the Individual or Organization ("Licensee") accessing and otherwise using this software ("Python") in source or binary form and

its associated documentation.

2. Subject to the terms and conditions of this License Agreement, PSF hereby grants Licensee a nonexclusive, royalty-free, world-wide license to reproduce, analyze, test, perform and/or display publicly, prepare derivative works, distribute, and otherwise use Python alone or in any derivative version, provided, however, that PSF's License Agreement and PSF's notice of copyright, i.e., "Copyright (c) 2001, 2002, 2003, 2004, 2005, 2006, 2007, 2008 Python Software Foundation;

All Rights Reserved" are retained in Python alone or in any derivative version prepared by Licensee.

3. In the event Licensee prepares a derivative work that is based on or incorporates Python or any part thereof, and wants to make the derivative work available to others as provided herein, then Licensee hereby agrees to include in any such work a brief summary of the changes made to Python.

4. PSF is making Python available to Licensee on an "AS IS" basis. PSF MAKES NO REPRESENTATIONS OR WARRANTIES, EXPRESS OR IMPLIED. BY WAY OF EXAMPLE, BUT NOT LIMITATION, PSF MAKES NO AND DISCLAIMS ANY REPRESENTATION OR WARRANTY OF MERCHANTABILITY OR FITNESS FOR ANY PARTICULAR PURPOSE OR THAT THE USE OF PYTHON WILL NOT INFRINGE ANY THIRD PARTY RIGHTS.

5. PSF SHALL NOT BE LIABLE TO LICENSEE OR ANY OTHER USERS OF PYTHON FOR ANY INCIDENTAL, SPECIAL, OR CONSEQUENTIAL DAMAGES OR LOSS AS A RESULT OF MODIFYING, DISTRIBUTING, OR OTHERWISE USING PYTHON, OR ANY DERIVATIVE THEREOF, EVEN IF ADVISED OF THE POSSIBILITY THEREOF.

6. This License Agreement will automatically terminate upon a material breach of its terms and conditions.

7. Nothing in this License Agreement shall be deemed to create any relationship of agency, partnership, or joint venture between PSF and Licensee. This License Agreement does not grant permission to use PSF trademarks or trade name in a trademark sense to endorse or promote products or services of Licensee, or any third party.

8. By copying, installing or otherwise using Python, Licensee agrees to be bound by the terms and conditions of this License Agreement.

Copyright(s)

i.e., "Copyright (c)

idna 3.10

pip+idna\$3.10

Transitive

Description

Internationalized Domain Names in Applications (IDNA)

Package Info

Project URL

<https://pypi.org/project/idna/>

Package Download URL

<https://files.pythonhosted.org/packages/f1/70/7703c29685631f5a7590aa73f1f1d3fa9a380e654b86af429e0934a32f7d/idna-3.10.tar.gz>

Dependency Path

requests > idna

Declared License(s)

None

Discovered License(s)

BSD-3-Clause

License Text

BSD 3-Clause License

Copyright (c) 2013-2024, Kim Davies and contributors.
All rights reserved.

Redistribution and use in source and binary forms, with or without modification, are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of the copyright holder nor the names of its contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY THE COPYRIGHT HOLDERS AND CONTRIBUTORS
"AS IS" AND ANY EXPRESS OR IMPLIED WARRANTIES, INCLUDING, BUT NOT
LIMITED TO, THE IMPLIED WARRANTIES OF MERCHANTABILITY AND
FITNESS FOR
A PARTICULAR PURPOSE ARE DISCLAIMED. IN NO EVENT SHALL THE
COPYRIGHT
HOLDER OR CONTRIBUTORS BE LIABLE FOR ANY DIRECT, INDIRECT,
INCIDENTAL,
SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES (INCLUDING, BUT
NOT LIMITED
TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS OF USE,
DATA, OR
PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON ANY
THEORY OF
LIABILITY, WHETHER IN CONTRACT, STRICT LIABILITY, OR TORT (INCLUDING
NEGLIGENCE OR OTHERWISE) ARISING IN ANY WAY OUT OF THE USE OF
THIS
SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF SUCH DAMAGE.

Copyright(s)

2013-2024 Kim Davies and contributors.

pip+pysocks\$1.7.1

Transitive

Description

A Python SOCKS client module. See <https://github.com/Anorov/PySocks> for more information.

Package Info

Project URL

<https://github.com/Anorov/PySocks>

Package Download URL

<https://files.pythonhosted.org/packages/bd/11/293dd436aea955d45fc4e8a35b6ae7270f5b8e00b53cf6c024c83b657a11/PySocks-1.7.1.tar.gz>

Dependency Path

splunktaucclib > pysocks

Declared License(s)

BSD-3-Clause

License Text

Copyright 2006 Dan-Haim. All rights reserved.

Redistribution and use in source and binary forms, with or without modification,

are permitted provided that the following conditions are met:

1. Redistributions of source code must retain the above copyright notice, this list of conditions and the following disclaimer.
2. Redistributions in binary form must reproduce the above copyright notice, this list of conditions and the following disclaimer in the documentation and/or other materials provided with the distribution.
3. Neither the name of Dan Haim nor the names of his contributors may be used to endorse or promote products derived from this software without specific prior written permission.

THIS SOFTWARE IS PROVIDED BY DAN HAIM "AS IS" AND ANY EXPRESS OR

IMPLIED
WARRANTIES, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES
OF
MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE ARE
DISCLAIMED. IN NO
EVENT SHALL DAN HAIM OR HIS CONTRIBUTORS BE LIABLE FOR ANY
DIRECT, INDIRECT,
INCIDENTAL, SPECIAL, EXEMPLARY, OR CONSEQUENTIAL DAMAGES
(INCLUDING, BUT NOT
LIMITED TO, PROCUREMENT OF SUBSTITUTE GOODS OR SERVICES; LOSS
OF USE, DATA
OR PROFITS; OR BUSINESS INTERRUPTION) HOWEVER CAUSED AND ON
ANY THEORY OF
LIABILITY, OR TORT (INCLUDING NEGLIGENCE OR OTHERWISE) ARISING IN
ANY WAY OUT
OF THE USE OF THIS SOFTWARE, EVEN IF ADVISED OF THE POSSIBILITY OF
SUCH DAMAGE.

Copyright(s)

2006 Dan-Haim. All rights reserved.

Discovered License(s)

Apache-2.0

License Text

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/> TERMS AND CONDITIONS FOR USE,
REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the

outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and

may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability. END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software
distributed under the License is distributed on an "AS IS" BASIS,
WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or
implied.

See the License for the specific language governing permissions and
limitations under the License.

Copyright(s)

None

solnlib 6.3.0

pip+solnlib\$6.3.0

Transitive

Description

The Splunk Software Development Kit for Splunk Solutions

Package Info

Project URL

<https://github.com/splunk/addonfactory-solutions-library-python>

Package Download URL

<https://files.pythonhosted.org/packages/ec/74/1cd51974c8574cf5c06c380c97028c04fd831dd5b4da2655aacbcde9dfd4/solnlib-6.3.0.tar.gz>

Dependency Path

splunktaucclib > solnlib

Declared License(s)

Apache-2.0

License Text

Apache License
Version 2.0, January 2004
<http://www.apache.org/licenses/>

TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.
3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable

by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions.
Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.
9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer,

and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright 2021 Splunk Inc.

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

Copyright(s)

2021 Splunk Inc.

Discovered License(s)

None

splunk-sdk 2.1.0

pip+splunk-sdk\$2.1.0

Transitive

Description

None

Package Info

Project URL

<http://github.com/splunk/splunk-sdk-python>

Package Download URL

<https://files.pythonhosted.org/packages/2c/89/31974e00319b750a5a126717d286e8addb683554454fed1ae6c86977cbcf/splunk-sdk-2.1.0.tar.gz>

Dependency Path

splunktaucclib > solnlib > splunk-sdk, splunktaucclib > splunk-sdk

Declared License(s)

Apache-2.0

License Text

Apache License

Version 2.0, January 2004

<http://www.apache.org/licenses/> TERMS AND CONDITIONS FOR USE,
REPRODUCTION, AND DISTRIBUTION

1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a

Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

(a) You must give any other recipients of the Work or Derivative Works a copy of this License; and

(b) You must cause any modified files to carry prominent notices stating that You changed the files; and

(c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and

(d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and do not

modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.

6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.

7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.

8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill, work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to

indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability. END OF TERMS AND CONDITIONS

APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "[]" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright [yyyy] [name of copyright owner]

Licensed under the Apache License, Version 2.0 (the "License");
you may not use this file except in compliance with the License.

You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

Copyright(s)

2011-2015 Splunk, Inc.

Discovered License(s)

None

urllib3 1.26.20

pip+urllib3\$1.26.20

Transitive

Description

```
<h1 align="center"> ![urllib3]
(https://github.com/urllib3/urllib3/raw/main/docs/_static/banner_github.svg)
</h1> <p align="center"> <a href="https://pypi.org/project/urllib3"></a> <a href="https://pypi.org/project/urllib3"></a> <a href="https://discord.gg/urllib3"></a> <a href="https://github.com/urllib3/urllib3/actions?query=workflow%3ACI"></a> <a href="https://github.com/urllib3/urllib3/actions?query=workflow%3ACI"></a> <a href="https://urllib3.readthedocs.io"></a> <br> <a href="https://deps.dev/pypi/urllib3"></a> <a href="https://slsa.dev"></a> <a href="https://bestpractices.coreinfrastructure.org/projects/6227"></a> </p>

urllib3 is a powerful, \*user-friendly\* HTTP client for Python. Much of the Python ecosystem already uses urllib3 and you should too. urllib3 brings many critical features that are missing from the Python standard libraries: - Thread safety. - Connection pooling. - Client-side SSL/TLS verification. - File uploads with multipart encoding. - Helpers for retrying requests and dealing with HTTP redirects. - Support for gzip, deflate, brotli, and zstd encoding. - Proxy support for HTTP and SOCKS. - 100% test coverage. urllib3 is powerful and easy to use: `python3 >>> import urllib3 >>> resp = urllib3.request("GET", "http://httpbin.org/robots.txt") >>> resp.status 200 >>> resp.data b"User-agent: *\nDisallow: /deny\n" `## Installing urllib3 can be installed with [pip](https://pip.pypa.io): bash $ python -m pip install urllib3 Alternatively, you can grab the latest source code from [GitHub](https://github.com/urllib3/urllib3): bash $ git clone https://github.com/urllib3/urllib3.git $ cd urllib3 $ pip install . `## Documentation urllib3 has usage and reference documentation at [urllib3.readthedocs.io](https://urllib3.readthedocs.io). ## Community urllib3 has a [community Discord channel](https://discord.gg/urllib3) for asking questions and collaborating with other contributors. Drop by and say hello 🙌 ## Contributing urllib3 happily accepts contributions. Please see our [contributing documentation](https://urllib3.readthedocs.io/en/latest/contributing.html) for some tips on getting started. ## Security Disclosures To report a security vulnerability, please use the [Tidelift security contact](https://tidelift.com/security). Tidelift will coordinate the fix and disclosure with maintainers. ## Maintainers`

- [@sethmlarson](https://github.com/sethmlarson) (Seth M. Larson) -  
[@pquentin](https://github.com/pquentin) (Quentin Pradet) - [@illia-v]  
(https://github.com/illia-v) (Illia Volochii) - [@theacodes]  
(https://github.com/theacodes) (Thea Flowers) - [@haikuginger]  
(https://github.com/haikuginger) (Jess Shapiro) - [@lukasa]  
(https://github.com/lukasa) (Cory Benfield) - [@sigmavirus24]  
(https://github.com/sigmavirus24) (Ian Stapleton Cordasco) - [@shazow]  
(https://github.com/shazow) (Andrey Petrov) 🙌 ## Sponsorship If your  
company benefits from this library, please consider [sponsoring its  
development](https://urllib3.readthedocs.io/en/latest/sponsors.html). ##  
For Enterprise Professional support for urllib3 is available as part of the  
[Tidelift Subscription][1]. Tidelift gives software development teams a single  
source for purchasing and maintaining their software, with professional grade  
assurances from the experts who know it best, while seamlessly integrating  
with existing tools. [1]: https://tidelift.com/subscription/pkg/pypi-urllib3?  
utm\_source=pypi-urllib3&utm\_medium=referral&utm\_campaign=readme

## Package Info

---

### Project URL

<https://pypi.org/project/urllib3/>

### Package Download URL

<https://files.pythonhosted.org/packages/e4/e8/6ff5e6bc22095cfc59b6ea711b687e2b7ed4bdb373f7eeec370a97d7392f/urllib3-1.26.20.tar.gz>

### Dependency Path

requests > urllib3, splunktaucclib > urllib3

## Declared License(s)

---

MIT

### License Text

MIT License

Copyright (c) 2008-2020 Andrey Petrov and contributors (see  
CONTRIBUTORS.txt)

Permission is hereby granted, free of charge, to any person obtaining a copy  
of this software and associated documentation files (the "Software"), to deal  
in the Software without restriction, including without limitation the rights

to use, copy, modify, merge, publish, distribute, sublicense, and/or sell copies of the Software, and to permit persons to whom the Software is furnished to do so, subject to the following conditions:

The above copyright notice and this permission notice shall be included in all copies or substantial portions of the Software.

THE SOFTWARE IS PROVIDED "AS IS", WITHOUT WARRANTY OF ANY KIND, EXPRESS OR IMPLIED, INCLUDING BUT NOT LIMITED TO THE WARRANTIES OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE AND NONINFRINGEMENT. IN NO EVENT SHALL THE AUTHORS OR COPYRIGHT HOLDERS BE LIABLE FOR ANY CLAIM, DAMAGES OR OTHER LIABILITY, WHETHER IN AN ACTION OF CONTRACT, TORT OR OTHERWISE, ARISING FROM, OUT OF OR IN CONNECTION WITH THE SOFTWARE OR THE USE OR OTHER DEALINGS IN THE SOFTWARE.

#### Copyright(s)

2008-2020 Andrey Petrov and contributors (see CONTRIBUTORS.txt)

#### Discovered License(s)

---

None

#### deprecation 2.1.0

pip+deprecation\$2.1.0

Transitive

---

#### Description

---

deprecation ===== .. image::  
https://readthedocs.org/projects/deprecation/badge/?version=latest  
:target: http://deprecation.readthedocs.io/en/latest/ :alt: Documentation  
Status .. image:: https://travis-ci.org/briancurtin/deprecation.svg?  
branch=master :target: https://travis-ci.org/briancurtin/deprecation .. image::  
https://codecov.io/gh/briancurtin/deprecation/branch/master/graph/badge.svg  
:target: https://codecov.io/gh/briancurtin/deprecation The `deprecation`

library provides a `@deprecated` decorator and a `@fail_if_not_removed` decorator for your tests. Together, the two enable the automation of several things:

1. The docstring of a deprecated method gets the deprecation details appended to the end of it. If you generate your API docs direct from your source, you don't need to worry about writing your own notification. You also don't need to worry about forgetting to write it. It's done for you.
2. Rather than having code live on forever because you only deprecated it but never actually moved on from it, you can have your tests tell you when it's time to remove the code. The `@deprecated` decorator can be told when it's time to entirely remove the code, which causes `@fail_if_not_removed` to raise an `AssertionError`, causing either your unittest or `pytest` tests to fail. See <http://deprecation.readthedocs.io/> for the full documentation.

Installation

```
===== :: pip install deprecation Usage ===== :: import deprecation
@deprecation.deprecated(deprecated_in="1.0", removed_in="2.0",
current_version=__version__, details="Use the bar function instead") def foo():
"""Do some stuff""" return 1 ...but doesn't Python ignore DeprecationWarning?
===== Yes, by default since 2.7—and for good reason [#]_ —and this works fine with that.
```

1. It often makes sense for you to run your tests with a `-W` flag or the `PYTHONWARNINGS` environment variable so you catch warnings in development and handle them appropriately. The warnings raised by this library show up there, as they're subclasses of the built-in `DeprecationWarning`. See the Command Line <https://docs.python.org/2/using/cmdline.html#cmdoption-W> and Environment Variable <https://docs.python.org/2/using/cmdline.html#envvar-PYTHONWARNINGS> documentation for more details.
2. Even if you don't enable those things, the behavior of this library remains the same. The docstrings will still be updated and the tests will still fail when they need to. You'll get the benefits regardless of what Python cares about.

`DeprecationWarning`: ---- .. [#] Exposing application users to `DeprecationWarning`'s that are emitted by lower-level code needlessly involves end-users in "how things are done." It often leads to users raising issues about warnings they're presented, which on one hand is done rightfully so, as it's been presented to them as some sort of issue to resolve. However, at the same time, the warning could be well known and planned for. From either side, loud `DeprecationWarning`'s can be seen as noise that isn't necessary outside of development.

## Package Info

---

Project URL

<http://deprecation.readthedocs.io/>

#### Package Download URL

<https://files.pythonhosted.org/packages/5a/d3/8ae2869247df154b64c1884d7346d412fed0c49df84db635aab2d1c40e62/deprecation-2.1.0.tar.gz>

#### Dependency Path

splunktaucclib > solnlib > splunk-sdk > deprecation, splunktaucclib > splunk-sdk > deprecation

#### Declared License(s)

---

**Apache-2.0**

#### License Text

Apache License  
Version 2.0, January 2004  
<http://www.apache.org/licenses/>

#### TERMS AND CONDITIONS FOR USE, REPRODUCTION, AND DISTRIBUTION

##### 1. Definitions.

"License" shall mean the terms and conditions for use, reproduction, and distribution as defined by Sections 1 through 9 of this document.

"Licensor" shall mean the copyright owner or entity authorized by the copyright owner that is granting the License.

"Legal Entity" shall mean the union of the acting entity and all other entities that control, are controlled by, or are under common control with that entity. For the purposes of this definition, "control" means (i) the power, direct or indirect, to cause the direction or management of such entity, whether by contract or otherwise, or (ii) ownership of fifty percent (50%) or more of the outstanding shares, or (iii) beneficial ownership of such entity.

"You" (or "Your") shall mean an individual or Legal Entity exercising permissions granted by this License.

"Source" form shall mean the preferred form for making modifications, including but not limited to software source code, documentation source, and configuration files.

"Object" form shall mean any form resulting from mechanical transformation or translation of a Source form, including but not limited to compiled object code, generated documentation, and conversions to other media types.

"Work" shall mean the work of authorship, whether in Source or Object form, made available under the License, as indicated by a copyright notice that is included in or attached to the work (an example is provided in the Appendix below).

"Derivative Works" shall mean any work, whether in Source or Object form, that is based on (or derived from) the Work and for which the editorial revisions, annotations, elaborations, or other modifications represent, as a whole, an original work of authorship. For the purposes of this License, Derivative Works shall not include works that remain separable from, or merely link (or bind by name) to the interfaces of, the Work and Derivative Works thereof.

"Contribution" shall mean any work of authorship, including the original version of the Work and any modifications or additions to that Work or Derivative Works thereof, that is intentionally submitted to Licensor for inclusion in the Work by the copyright owner or by an individual or Legal Entity authorized to submit on behalf of the copyright owner. For the purposes of this definition, "submitted" means any form of electronic, verbal, or written communication sent to the Licensor or its representatives, including but not limited to communication on electronic mailing lists, source code control systems, and issue tracking systems that are managed by, or on behalf of, the Licensor for the purpose of discussing and improving the Work, but excluding communication that is conspicuously marked or otherwise designated in writing by the copyright owner as "Not a Contribution."

"Contributor" shall mean Licensor and any individual or Legal Entity on behalf of whom a Contribution has been received by Licensor and subsequently incorporated within the Work.

2. Grant of Copyright License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable copyright license to reproduce, prepare Derivative Works of, publicly display, publicly perform, sublicense, and distribute the Work and such Derivative Works in Source or Object form.

3. Grant of Patent License. Subject to the terms and conditions of this License, each Contributor hereby grants to You a perpetual, worldwide, non-exclusive, no-charge, royalty-free, irrevocable (except as stated in this section) patent license to make, have made, use, offer to sell, sell, import, and otherwise transfer the Work, where such license applies only to those patent claims licensable by such Contributor that are necessarily infringed by their Contribution(s) alone or by combination of their Contribution(s) with the Work to which such Contribution(s) was submitted. If You institute patent litigation against any entity (including a cross-claim or counterclaim in a lawsuit) alleging that the Work or a Contribution incorporated within the Work constitutes direct or contributory patent infringement, then any patent licenses granted to You under this License for that Work shall terminate as of the date such litigation is filed.

4. Redistribution. You may reproduce and distribute copies of the Work or Derivative Works thereof in any medium, with or without modifications, and in Source or Object form, provided that You meet the following conditions:

- (a) You must give any other recipients of the Work or Derivative Works a copy of this License; and
- (b) You must cause any modified files to carry prominent notices stating that You changed the files; and
- (c) You must retain, in the Source form of any Derivative Works that You distribute, all copyright, patent, trademark, and attribution notices from the Source form of the Work, excluding those notices that do not pertain to any part of the Derivative Works; and
- (d) If the Work includes a "NOTICE" text file as part of its distribution, then any Derivative Works that You distribute must include a readable copy of the attribution notices contained within such NOTICE file, excluding those notices that do not pertain to any part of the Derivative Works, in at least one of the following places: within a NOTICE text file distributed as part of the Derivative Works; within the Source form or documentation, if provided along with the Derivative Works; or, within a display generated by the Derivative Works, if and wherever such third-party notices normally appear. The contents of the NOTICE file are for informational purposes only and

do not modify the License. You may add Your own attribution notices within Derivative Works that You distribute, alongside or as an addendum to the NOTICE text from the Work, provided that such additional attribution notices cannot be construed as modifying the License.

You may add Your own copyright statement to Your modifications and may provide additional or different license terms and conditions for use, reproduction, or distribution of Your modifications, or for any such Derivative Works as a whole, provided Your use, reproduction, and distribution of the Work otherwise complies with the conditions stated in this License.

5. Submission of Contributions. Unless You explicitly state otherwise, any Contribution intentionally submitted for inclusion in the Work by You to the Licensor shall be under the terms and conditions of this License, without any additional terms or conditions. Notwithstanding the above, nothing herein shall supersede or modify the terms of any separate license agreement you may have executed with Licensor regarding such Contributions.
6. Trademarks. This License does not grant permission to use the trade names, trademarks, service marks, or product names of the Licensor, except as required for reasonable and customary use in describing the origin of the Work and reproducing the content of the NOTICE file.
7. Disclaimer of Warranty. Unless required by applicable law or agreed to in writing, Licensor provides the Work (and each Contributor provides its Contributions) on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied, including, without limitation, any warranties or conditions of TITLE, NON-INFRINGEMENT, MERCHANTABILITY, or FITNESS FOR A PARTICULAR PURPOSE. You are solely responsible for determining the appropriateness of using or redistributing the Work and assume any risks associated with Your exercise of permissions under this License.
8. Limitation of Liability. In no event and under no legal theory, whether in tort (including negligence), contract, or otherwise, unless required by applicable law (such as deliberate and grossly negligent acts) or agreed to in writing, shall any Contributor be liable to You for damages, including any direct, indirect, special, incidental, or consequential damages of any character arising as a result of this License or out of the use or inability to use the Work (including but not limited to damages for loss of goodwill,

work stoppage, computer failure or malfunction, or any and all other commercial damages or losses), even if such Contributor has been advised of the possibility of such damages.

9. Accepting Warranty or Additional Liability. While redistributing the Work or Derivative Works thereof, You may choose to offer, and charge a fee for, acceptance of support, warranty, indemnity, or other liability obligations and/or rights consistent with this License. However, in accepting such obligations, You may act only on Your own behalf and on Your sole responsibility, not on behalf of any other Contributor, and only if You agree to indemnify, defend, and hold each Contributor harmless for any liability incurred by, or claims asserted against, such Contributor by reason of your accepting any such warranty or additional liability.

## END OF TERMS AND CONDITIONS

### APPENDIX: How to apply the Apache License to your work.

To apply the Apache License to your work, attach the following boilerplate notice, with the fields enclosed by brackets "{}" replaced with your own identifying information. (Don't include the brackets!) The text should be enclosed in the appropriate comment syntax for the file format. We also recommend that a file or class name and description of purpose be included on the same "printed page" as the copyright notice for easier identification within third-party archives.

Copyright {yyyy} {name of copyright owner}

Licensed under the Apache License, Version 2.0 (the "License");  
you may not use this file except in compliance with the License.  
You may obtain a copy of the License at

<http://www.apache.org/licenses/LICENSE-2.0>

Unless required by applicable law or agreed to in writing, software distributed under the License is distributed on an "AS IS" BASIS, WITHOUT WARRANTIES OR CONDITIONS OF ANY KIND, either express or implied.

See the License for the specific language governing permissions and limitations under the License.

Copyright(s)

yyyy} {name of copyright owner}

## Discovered License(s)

---

None

## packaging 26.2

pip+packaging\$26.2

Transitive

---

## Description

---

packaging ===== .. start-intro Reusable core utilities for various Python Packaging interoperability specifications  
<<https://packaging.python.org/specifications/>>\_. This library provides utilities that implement the interoperability specifications which have clearly one correct behaviour (eg: :pep:440) or benefit greatly from having a single shared implementation (eg: :pep:425). .. end-intro The `packaging` project includes the following: version handling, specifiers, markers, requirements, tags, utilities. Documentation ----- The `documentation` provides information and the API for the following: - Version Handling - Specifiers - Markers - Requirements - Tags - Utilities Installation ----- Use `pip` to install these utilities:: `pip install packaging` The `packaging` library uses calendar-based versioning (YY.N). Discussion ----- If you run into bugs, you can file them in our issue tracker\_. You can also join `#pypa` on Freenode to ask questions or get involved. .. \_documentation: <https://packaging.pypa.io/> .. \_issue tracker: <https://github.com/pypa/packaging/issues> Code of Conduct - ----- Everyone interacting in the packaging project's codebases, issue trackers, chat rooms, and mailing lists is expected to follow the PSF Code of Conduct\_. .. \_PSF Code of Conduct: [https://github.com/pypa/.github/blob/main/CODE\\_OF\\_CONDUCT.md](https://github.com/pypa/.github/blob/main/CODE_OF_CONDUCT.md) Contributing ----- The `CONTRIBUTING.rst` file outlines how to contribute to this project as well as how to report a potential security issue. The documentation for this project also covers information about `project development`\_ and `security`\_. .. \_project development: <https://packaging.pypa.io/en/latest/development/> .. \_security: <https://packaging.pypa.io/en/latest/security/> Project History ----- Please review the `CHANGELOG.rst` file or the Changelog documentation\_ for recent changes and project history. .. \_Changelog documentation: <https://packaging.pypa.io/en/latest/changelog/>

## Package Info

---

Project URL

<https://pypi.org/project/packaging/>

Package Download URL

<https://files.pythonhosted.org/packages/d7/f1/e7a6dd94a8d4a5626c03e4e99c87f241ba9e350cd9e6d75123f992427270/packaging-26.2.tar.gz>

Dependency Path

splunktaucclib > solnlib > splunk-sdk > deprecation > packaging,  
splunktaucclib > splunk-sdk > deprecation > packaging

## Declared License(s)

---

Apache-2.0

License Text

This software is made available under the terms of \*either\* of the licenses found in LICENSE.APACHE or LICENSE.BSD. Contributions to this software is made under the terms of \*both\* these licenses.

Copyright(s)

None

## Discovered License(s)

---

None