
pydebsign Documentation

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Contents:

pydebsign is a yet another library of debsign

1.1 Status

1.2 Motivation

debsign is a command of devscripts that signs a Debian *.changes* and *.dsc* file pair using GPG. The command cannot be used in environments without TTY, for example, as invoked by CI.

I had tried to use *debsign* via *subprocess* module of Python as follows, but passphrase prompt is always shown. It was the same in the case of using *gnupg-agent* and *keyring*..:

```
>>> import subprocess
>>> import shlex
>>> command0 = 'echo -e "%s\n%s\n"' % (`passphrase`, `passphrase`)
>>> command1 = '/usr/bin/debsign -k %s %s' % (`keyid`, `.changes`)
>>> process0 = subprocess.Popen(shlex.split(command0),
...                             stdin=subprocess.PIPE,
...                             stdout=subprocess.PIPE,
...                             stderr=subprocess.PIPE)
>>> process1 = subprocess.Popen(shlex.split(command1),
...                             stdin=process0.stdout,
...                             stdout=subprocess.PIPE,
...                             stderr=subprocess.PIPE)
>>> stdout, stderr = process1.communicate()
```

So, I decided to make a Python library to do the same (have behavior of *debsign*), but work as expected without TTY.

1.3 Goal

- It is enable to sign *.changes* and *.dsc* files with GPG without the input of interactive passphrase.
- It can also be used by a user can not login shell on the CI, such as Jenkins.

1.4 Requires

- Debian system, or the system derived from Debian.
 - Debian GNU/Linux Wheezy

- Debian GNU/Linux Jessie/Sid
 - Ubuntu 14.04 LTS
- Debian package as follows;
 - gnupg
 - dput
 - lintian
 - python (= python2.7) or python3
- Python packages as follows;
 - python_gnupg (as debian package is python-gnupg or python3-gnupg)
 - python_debian (as debian package is python-debian or python3-debian)
 - chardet (as debian package is python-chardet or python3-chardet)

1.5 Usage

Generic usage::

```
>>> from pydebsign import debsign
>>> debsign.debsign_process('/path/to/some.changes', passphrase='secretkey')
```

When use another GPG Keyring instead of default GPG keyring::

```
>>> from pydebsign import debsign
>>> debsign.debsign_process('/path/to/some.changes', passphrase='secretkey',
...                          keyid='keyid', gnupghome='/path/to/gpghome')
```

History

2.1 0.1.5 (2015-08-25)

- Changes Sphinx theme to sphinx_rtd_theme.
- Merge pull request #9 from mkouhei/travis-packages
- Adds execute apt-get update.
- Enabled sudo explicitly.

2.2 0.1.4 (2014-12-21)

- Unsupported Python 3.2
- Added Sphinx documents and applied Read the docs
- Migrated pep8, pyflakes, pychecker, pylint to Tox

2.3 0.1.3 (2014-05-31)

- Fixed #6 dput check local section is failed
- Unsupported Python2.6

2.4 0.1.2 (2014-05-27)

- Fixed #3 cannot decode umlaut.

2.5 0.1.1 (2014-05-26)

- Resolved the backward compatibility for python_gnupg 0.3.0 (Wheezy version).

2.6 0.1.0 (2014-05-26)

- Initial release

TODO

- Adding command line interface.

modules

Indices and tables

- `genindex`
- `modindex`
- `search`