PyAC Documentation

Release 0.6.0

juga

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Autocrypt Level 1 implementation using PGPy. Initially part of py-autocrypt, which uses GnuPG.
A more extensive online documentation is available in Read the docs. The documentation source is in this repository.
CHAPTER 2

Installation

See Installation and Running
You can download this project in either zip or tar formats.
You can also clone the project with Git by running:

git clone https://github.com/juga0/pyac
Bugs and features

If you wish to signal a bug or report a feature request, please fill-in an issue on the pyac issue tracker.
Current status

WIP, still not recommended for end users. Testers welcomed.

See TODO
License

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CHAPTER 7

Acknowledgments

Autocrypt

7.1 Installation

7.1.1 Installation for developers

It is recommended to install pyac in a python virtual environment. Check https://virtualenv.pypa.io/en/latest/installation.html. In Debian:

```bash
sudo apt install python-virtualenv
```

Create a virtual environment:

```bash
mkdir ~/.virtualenvs
virtualenv ~/.virtualenvs/pyacenv
source ~/.virtualenvs/pyacenv/bin/activate
```

Get the sources:

```bash
git clone https://github.com/juga0/pyac
```

Install it:

```bash
pip install -e .
```

7.2 Running

An updated command line usage description can be obtained with:
autocrypt -h

At the time of writing the output is:


optional arguments:
  -h, --help            show this help message and exit
  --version             show program's version number and exit
  -d, --debug           Set logging level to debug
  -m PGPHOME, --pgphome PGPHOME Path to Autocrypt home, ~/.pyac by default
  -l, --list            List account and peers
  -n NEWACCOUNT, --newaccount NEWACCOUNT Email address for the new account. It will also generate new OpenPGP keys.
  -r NEWPEER, --newpeer NEWPEER Email address for the new peer.
  -a, --genac           Generate Autocrypt Email. Use -f, -t, -s, -b, or the defaults will be use
  -g, --genag           Generate Autocrypt Gossip Email
  -u, --genas           Generate Autocrypt Setup Email
  -p PASSPHRASE, --passphrase PASSPHRASE Passphrase to generate an Autocrypt Setup Email
  -c, --genasc          Generate Autocrypt Setup Code
  -f FROMH, --fromh FROMH Email sender address and OpenPGP UID
  -t TO, --to TO        Email recipient addresses separate by comma
  -s SUBJECT, --subject SUBJECT Subject for the Autocrypt Email
  -b BODY, --body BODY  Body for the Autocrypt Email
  -e PE, --pe PE        prefer-encrypt for the Autocrypt Email
  -i INPUT, --input INPUT Path to the Email to parse, by default: /home/user/_my/code/mailencrypt-related/pyac/tests/data/example-simple-autocrypt-pyac.eml
  -o OUTPUT, --output OUTPUT Path to store the Autocrypt Email, by default: /tmp/output.eml

An useful argument when reporting bugs is -d.
7.3 Diagrams

7.3.1 Package diagram

7.4 PyAC Python API Reference

7.4.1 autocrypt package

autocrypt.acmime module

class autocrypt.acmime.MIMEApplicationACSetupPayload(_data, _subtype='autocrypt-setup', _encoder=encode_noop, **_params)

Bases: email.mime.application.MIMEApplication

Class for generating application/autocrypt-setup MIME documents.

class autocrypt.acmime.MIMEMultipartACSetup(_data=None, _subtype='mixed', boundary=None, **_params)

Bases: email.mime.multipart.MIMEMultipart

Base class for MIME multipart/mixed including application/autocrypt-setup.
class autocrypt.acmime.MIMETextACSetupDescription(_data='This message contains all information to transfer your Autocrypt settings along with your secret key securely from your original device. To set up your new device for Autocrypt, please follow the instructions that should be presented by your new device. You can keep this message and use it as a backup for your secret key. If you want to do this, you should write down the Setup Code and store it securely.', _subtype='plain'))

Bases: email.mime.text.MIMEText

Class for generating text/plain MIME documents.

autocrypt.conflog module

Logging configuration.

autocrypt.constants module

autocrypt.test_data module

autocrypt.crypto module

autocrypt.message module

7.5 TODO

• [ ] Implement recommendations

7.6 Indices and tables

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