**Irksecrets API**

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# Introduction

Irksecrets is a http json service for storing one-shot secrets. It receive a “Big Secret Information” you need to storing, encrypted it with keyphase you give, and return a secret key. One time you can receive the “Big Secret Information” by using a secret key. After that, “Big Secret Information” will be deleted.

“Big Secret Information” encrypting with an implementation of symmetric (also known as “secret key”) authenticated cryptography, Fernet.

We don’t store secret key in database. If you loss secret key, data will be lost.

Limitation: “Big Secret Information” must be less than 250 000 000 symbols.

GIT: <https://github.com/sudaka/irksecrets.git>

# API

/generate

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Generate a secrete key using “Big Secret Information” and keyphase | | |
| Method | GET/POST | | |
| Parameters | bsi | “Big Secret Information” | String |
|  | kp | keyphase | String |
| Answer | secret\_key | Secret key | String or ‘’ if error |
| Example | <http://your-hostname/generate> | | |
|  | JSON params: {‘bsi’: ‘Hello’, ‘kp’: ‘first’} | | |

/secrets/{secret\_key}

|  |  |  |  |
| --- | --- | --- | --- |
| Description | Return a “Big Secret Information” by secret key | | |
| Method | GET | | |
| Parameters | No |  |  |
| Answer | bsi | “Big Secret Information” | String or ‘’ if error |
| Example | http://your-hostname/secrets/{secret\_key} | | |

# Modules:

**Main:**

Crypto.py – cryptographic algoritms

Datastore.py – DB interconnection

Irksecrets.py – uvicorn module

**Tests:**

tests\_full.py – all test

Installation