
Store factory for simplekv

Feb 25, 2020

Contents

1	Overview	3
1.1	Store factory for simplekv	3
2	Reference	7
2.1	storefact	7
3	Contributing	9
3.1	Bug reports	9
3.2	Documentation improvements	9
3.3	Feature requests and feedback	9
3.4	Development	10
4	Authors	11
5	Release Notes	13
6	Indices and tables	15

Contents:

1.1 Store factory for simplekv

A factory for [simplekv](#)-Store-based storage classes. Takes configuration values and returns a [simplekv](#)-Store.

This allows one to easily deploy a blob-based store in production, but test with a filesystem-based store in development. The following [simplekv](#)-Stores are supported in storefact:

- DictStore
- RedisStore
- FilesystemStore
- BotoStore (Amazon S3)
- AzureBlockBlobStorage

Storefact is released as open source under the 3-clause BSD license.

1.1.1 Installation

```
pip install storefact
```

1.1.2 Usage

There are two possibilities to use storefact.

- 1) Use a dictionary with configuration data (e.g. loaded from an ini file)

```
from storefact import get_store

params = {
    'account_name': 'test',
    'account_key': 'XXXsome_azure_account_keyXXX',
    'container': 'my-azure-container',
}
store = get_store('azure', **params)
store.put(u'key', b'value')
assert store.get(u'key') == b'value'
```

- 2) Use an URL to specify the configuration

```
from storefact import get_store_from_url, get_store

store = get_store_from_url('azure://test:XXXsome_azure_account_keyXXX@my-azure-
↪container')
store.put(u'key', b'value')
assert store.get(u'key') == b'value'
```

URL and store types:

- In memory: `memory://` and `hmemory://`.
- Redis: `redis://[[password@]host[:port]][/db]` and `hredis://[[password@]host[:port]][/db]`
- Filesystem: `fs://` and `hfs://`
- Amazon S3: `s3://access_key:secret_key@endpoint/bucket[?create_if_missing=true]` and `hs3://access_key:secret_key@endpoint/bucket[?create_if_missing=true]`
- **Azure Blob Storage (`azure://` and `hazure://`):**
 - with storage account key: `azure://account_name:account_key@container[?create_if_missing=true][?max_connections=2]`
 - with SAS token: `azure://account_name:shared_access_signature@container?use_sas&create_if_missing=false[?max_connections=2&socket_timeout=(20,100)]`
 - with SAS and additional parameters: `azure://account_name:shared_access_signature@container?use_sas&create_if_missing=false[?max_connections=2&socket_timeout=(20,100)][?max_block_size=4*1024*1024&max_single_put_size=64*1024*1024]`

Storage URLs starting with a `h` indicate extended allowed characters. This allows the usage of slashes and spaces in blob names. URL options with `[]` are optional and the `[]` need to be removed.

1.1.3 Documentation

The documentation can be found on [readthedocs](#).

1.1.4 Development

To run the all tests run:

tox

CHAPTER 2

Reference

2.1 storefact

Contributions are welcome, and they are greatly appreciated! Every little bit helps, and credit will always be given.

3.1 Bug reports

When reporting a bug please include:

- Your operating system name and version.
- Any details about your local setup that might be helpful in troubleshooting.
- Detailed steps to reproduce the bug.

3.2 Documentation improvements

Store factory for simplekv could always use more documentation, whether as part of the official Store factory for simplekv docs, in docstrings, or even on the web in blog posts, articles, and such.

3.3 Feature requests and feedback

If you are proposing a feature:

- Explain in detail how it would work.
- Keep the scope as narrow as possible, to make it easier to implement.
- Remember that this is a volunteer-driven project, and that contributions are welcome :)

3.4 Development

3.4.1 Pull Request Guidelines

If you need some code review or feedback while you're developing the code just make the pull request.

For merging, you should:

1. Include passing tests (run `tox`).
2. Update documentation when there's new API, functionality etc.
3. Add a note to `CHANGELOG.rst` about the changes.
4. Add yourself to `AUTHORS.rst`.

3.4.2 Tips

To run a subset of tests:

```
tox -e envname -- py.test -k test_myfeature
```

To run all the test environments in *parallel* (you need to `pip install detox`):

```
detox
```

CHAPTER 4

Authors

- Felix Marcinowski - felix.marczinowski@blue-yonder.com
- Cornelius Riemenschneider - cornelius.riemenschneider@blue-yonder.com

CHAPTER 5

Release Notes

CHAPTER 6

Indices and tables

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