sprockets.mixins.sentry

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Contents

1 Installation 3

2 Requirements 5

3 API Documentation 7

4 Examples 9

5 Version History 11

6 Issues 13

7 Source 15

8 License 17

Python Module Index 19

A RequestHandler mixin for sending exceptions to Sentry

CHAPTER 1

Installation

`sprockets.mixins.sentry` is available on the Python Package Index and can be installed via `pip` or `easy_install`:

```
pip install sprockets.mixins.sentry
```

CHAPTER 2

Requirements

- raven
- tornado

CHAPTER 3

API Documentation

mixins.sentry

A RequestHandler mixin for sending exceptions to Sentry

class `sprockets.mixins.sentry.`**`SanitizeEmailsProcessor`**(*client*)

Remove all email addresses from the payload sent to sentry.

class `sprockets.mixins.sentry.`**`SentryMixin`**(**args*, ***kwargs*)

Report unexpected exceptions to Sentry.

Mix this in over a `tornado.web.RequestHandler` to report unhandled exceptions to Sentry so that you can figure out what went wrong. In order to use this mix-in, all that you have to do is define the **SENTRY_DSN** environment variable that contains your projects Sentry DSN. Whenever a request comes it and the environment variable is set, this mix-in will create a new `raven.base.Client` instance and make it available via the *`sentry_client`* property.

If an exception is caught by `_handle_request_exception()`, then it will be reported to Sentry in all it's glory.

`sentry_client`

The `raven.base.Client` instance or `None` if sentry reporting is disabled. You can modify attributes of the client as required for your application – for example, you can add new modules by adding to `self.sentry_client.include_paths`.

`sentry_extra`

A `dict` of extra information to pass to sentry when an exception is reported.

`sentry_tags`

A `dict` of tag and value pairs to associated with any reported exceptions.

`sprockets.mixins.sentry.`**`get_client`**(*application*)

Retrieve the sentry client for *application*.

Parameters **`application`** (*`tornado.web.Application`*) – application to retrieve the sentry client for.

Returns a `raven.base.Client` instance or `None`

Return type raven.base.Client

`sprockets.mixins.sentry.install`(*application*, ***kwargs*)

Call this to install a sentry client into a Tornado application.

Parameters

- **application** (*tornado.web.Application*) – the application to install the client into.
- **kwargs** – keyword parameters to pass to the `raven.base.Client` initializer.

Returns `True` if the client was installed by this call and `False` otherwise.

This function should be called to initialize the Sentry client for your application. It will be called automatically with the default parameters by *SentryMixin* if you do not call it during the creation of your application. You should install the client explicitly so that you can set at least the following properties:

- **include_paths** list of python modules to include in tracebacks. This function ensures that `raven`, `sprockets`, `sys`, and `tornado` are included but you probably want to include additional packages.
- **release** the version of the application that is running

See the raven documentation for additional information.

CHAPTER 4

Examples

The following application will report errors to sentry if you export the `SENTRY_DSN` environment variable and make a request to http://localhost:8000/whatever provided that *whatever* is not an integer.

```
import sys
import signal

from tornado import ioloop, web

from sprockets.mixins import sentry


class Handler(sentry.SentryMixin, web.RequestHandler):

    def initialize(self, **kwargs):
        tags = kwargs.pop('tags', dict())
        super(Handler, self).initialize(**kwargs)
        self.sentry_tags.update(tags)

    def get(self, status_code):
        self.set_status(int(status_code))


def make_application(app_tags):
    application = web.Application([web.url(r'/(\S+)', Handler)])
    sentry.install(application, include_paths=[__name__], tags=app_tags)
    return application


def stop(signo, frame):
    iol = ioloop.IOLoop.current()
    iol.add_callback_from_signal(iol.stop)


if __name__ == '__main__':
```

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```
    app_tags = {}
    for arg in sys.argv[1:]:
        name, _, value = arg.partition('=')
        app_tags[name] = value

    signal.signal(signal.SIGINT, stop)
    app = make_application(app_tags)
    app.listen(8000)
    ioloop.IOLoop.current().start()
```

CHAPTER 5

Version History

- 1.2.0
  - Extend raven pin so that we can use python 3.7
  - Advertise python 3.7 support
  - Drop python 3.4 from support matrix
  - Remove unused import of urllib.parse
- 1.1.2
  - Add email sanitization processor
- 1.1.1
  - Fix password scrubbing in URLs.
  - Remove support for python 2.6, 3.2, and 3.3
- 1.1.0
  - Move raven client initialization into `sprockets.mixins.sentry.install`
  - Add support for setting raven.Client options when calling `install` on the application.
  - The sentry "environment" is set to the `$ENVIRONMENT` environment variable if it is set.
- 1.0.0
  - Work around getsentry/raven-python#735
- 0.4.0 (16-Dec-2015)
  - Ignore web.Finish exceptions
- 0.3.0 (13-Jul-2015)
  - Add `sprockets.mixins.sentry.SentryMixin.sentry_extra`
  - Add `sprockets.mixins.sentry.SentryMixin.sentry_tags`
  - Improve module reporting in Sentry messages

  - Improved documentation
- 0.2.0 (22-Jun-2015)
  - Stop reporting `tornado.web.HTTPError`
- 0.1.0 (13-May-2015)
  - Initial public release

CHAPTER 6

Issues

Please report any issues to the Github project at https://github.com/sprockets/sprockets.mixins.sentry/issues

CHAPTER 7

Source

`sprockets.mixins.sentry` source is available on Github at https://github.com/sprockets/sprockets.mixins.sentry

CHAPTER 8

License

`sprockets.mixins.sentry` is released under the 3-Clause BSD license.

Python Module Index

S

sprockets.mixins.sentry, 7

Index

E

environment variable
    SENTRY_DSN, 9

G

get_client() (in module sprockets.mixins.sentry), 7

I

install() (in module sprockets.mixins.sentry), 8

S

SanitizeEmailsProcessor (class in sprockets.mixins.sentry), 7
sentry_client (sprockets.mixins.sentry.SentryMixin attribute), 7
SENTRY_DSN, 9
sentry_extra (sprockets.mixins.sentry.SentryMixin attribute), 7
sentry_tags (sprockets.mixins.sentry.SentryMixin attribute), 7
SentryMixin (class in sprockets.mixins.sentry), 7
sprockets.mixins.sentry (module), 7