django-logstream Documentation

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Introduction

Logging of python is great and the intagracion of django with python logging, it is also very good. But sometimes we have to run multiple instances (processes) and want to save the logs without having problems with files opened by multiple processes.

`django-logstream` solves this problem. It runs as a service (separate process) that receives logs of different instances, thus allowing multiple processes to the log stored in one file without any problem.

Currently, `django-logstream` ZeroMQ used for interprocess communication and now with integrated encryption!

Features currently implemented:

- alias for receive multiple streams.
- logrotate by time interval.
- encription and hash of all messages.

Features implemented in future:

- size logrotate option.
- rabbitmq backend. (not prioritary)
- redis backend. (not prioritary)

CHAPTER 2

How-To install

```
pip install django-logstream
```

How-To setup logstream daemon

As a first step, we add `LOGSTREAM_STORAGE_PATH` to the `settings.py`. This will tell the server where they host all the logs.

Add `django_logstream.server` to `INSTALLED_APPS` list.

And as the last step, we start the service with: `python2 manage.py logstreamd`.

Other configuration options:

LOGSTREAM_BIND_ADDR ZeroMQ path for bind address. Default: `ipc:///tmp/logstream_receiver`

LOGSTREAM_SECURE_MODE Put logstream to secure mode. In this mode only accepts encrypted and validated with sha1 hash messages. Default: False

LOGSTREAM_LOGROTATE_INTERVAL Set a interval in minutes for logrotate of logs. Default: 60

How-To setup logstream client

As the first and only step, configure your logging in django settings.py.

This is an posible example:

```python
LOGGING = {
    'handlers': {
        'logstream': {
            'level': 'DEBUG',
            'class': 'django_logstream.client.handlers.threaded.ZeroMQHandler',
            'alias': 'myfirsttest',
            'address': 'ipc:///tmp/logstream_receiver', # this is a default
            'encrypt': True # default is False
        }
    },
    'loggers': {
        'yourlogger': {
            'level': 'DEBUG',
            'handler': ['logstream'],
            'propagate': False,
        }
    }
}
```