
Python Snowflake Documentation

Release 0.1

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October 02, 2015

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A library that provides snowflake features to python, including Client & Server.

This is extend of <https://github.com/koblas/pysnowflake> with Client adding.

Installation

```
pip install pysnowflake
```

Run server

```
snowflake_start_server [--dc=DC_ID] [--worker=WORKER_ID] [--host=ADDRESS] [--port=PORT]
```

With configuration default value:

1. dc (int, 2 bit): be searched in environment *PSF_DC* first, if not found, get the 0 value.
2. worker (int, 8 bit): be searched in environment *PSF_WORKER* first, if not found, get the 0 value.
3. address (domain, inet): default is *localhost*.
4. port (int): default is *8910*.

APIs

All APIs through http *GET* method.

API Path	Description
/	Get/Generate the ID
/stats	Get the information and statistic for this worker

How to use?

```
# just import and use it
import snowflake.client

# One time only initialization
>>> snowflake.client.setup(host, port)
# Then get the ID whenever you need
>>> snowflake.client.get_guid()
3631957913783762945
# See the stats if you want
>>> snowflake.client.get_stats()
{
    'dc': 0,
    'worker': 0,
    'timestamp': 1416207853020, # current timestamp for this worker
    'last_timestamp': 1416207845161, # the last timestamp that generated ID on
    'sequence': 12, # the sequence number for last timestamp
    'sequence_overload': 1, # the number of times that the sequence is overflow
    'errors': 1, # the number of times that clock went backward
}
```