

graphite & monitoring

monitoring solutions

- system monitoring
- application monitoring
- marketing
- anything

monitoring solutions

- system monitoring
 - nagios and forks (icinga, opsview...)
 - munin
 - ganglia
 - others...

monitoring solutions

- application monitoring
 - new relic
 - sentry (for exceptions)

monitoring solutions

- marketing (customer count, costs etc)
 - librato metrics
 - mixpanel

monitoring solutions

- monitoring everything (arbitrary metrics)
 - graphite
 - opentsdb (<http://opentsdb.net/>)
 - kairosdb (<https://code.google.com/p/kairosdb/>)
 - roll your own :)
 - rrdtool (<http://oss.oetiker.ch/rrdtool/>)
 - your own rrd

so wtf is rrd ?

- round robin database
- algorithm

so wtf is rrd ?

seconds

20140208-05:06:01: 12

20140208-05:06:02: 80

20140208-05:06:03: 9

....

20140208-05:07:00: 30

so wtf is rrd ?

minutes

20140208-05:06: 12

round(from seconds 05:06:00,05:06:59)

20140208-06:00: 90

so wtf is rrd ?

hours

20140208-05: 12

round(from minutes 05:06,05:06)

20140208-06: ...

graphite

- don't re-invent the wheel
- monitor everything
- graphing something

```
echo "somewhere.somemetric 12 20140801" |  
nc graphiteserver 2003
```

graphite install

tips:

- * DON'T install it in virtualenv
- * use ubuntu

instructions:

github...

demo

lets do something useful

```
$ curl -o /dev/null -m 5 -s -w "app.frontpage.time_total %{time_total}\n" http://localhost:9001
```

```
$ curl -o /dev/null -m 5 -s -w "app.frontpage.time_total %{time_total} `date +%s`\n" http://localhost:9001 | nc localhost 2003
```

```
$ while true; do curl -o /dev/null -m 5 -s -w "app.frontpage.time_total %{time_total} `date +%s`\n" http://localhost:9001 | nc localhost 2003; sleep 5; done
```

add another metric

```
$ while true; do  
{ curl -o /dev/null -m 5 -s -w "app.frontpage.time_total %{time_total} `date +%  
s`\n" http://localhost:9001 &&  
curl -o /dev/null -m 5 -s -w "app.articlepage.time_total %{time_total} `date +%  
s`\n" http://localhost:9001/show/foo_99999; } | nc localhost 2003; sleep 5; done
```

add more - logster

tails logs

```
$ sudo logster --dry-run --output=graphite --  
graphite-host=localhost:2003 MongoDBParser  
/var/log/mongodb/mongodb.log
```

statsd - time it

install

- git clone
- npm i
- cp configExample.js config.js
- ./bin/statsd config.js
- pip install statsd (<http://statsd.readthedocs.org/>)

statsd - time your functions

```
import statsd  
statsd = StatsClient(host='127.0.0.1',  
                     port=8125)
```

```
@statsd.timer('index')
```

or use timer at your own, (<http://statsd.readthedocs.org/en/latest/timing.html>)

statsd - counters

Counters are the most basic and default type. They are treated as a count of a type of event per second, and are, in [Graphite](#), typically averaged over one minute. That is, when looking at a graph, you are usually seeing the average number of events per second during a one-minute period.

```
import statsd

statsd = StatsClient(host='127.0.0.1',
                     port=8125)

statsd.incr('index_pageview')
```

Questions ?