

Real-Time TLC

Drew Raines
Elasticsearch

Drew

Elasticsearch.com



Think different.

Key/value

Key/value

(Super!)Columns

(Super!)Columns

Map/Reduce

Map/Reduce

Schema

Schema



Real-time

High-capacity

Dynamic

High-capacity
Dynamic
Real-time



Events



Rich Hickey @richhickey

a new kind of database

27 Feb 12

[Collapse](#) [Reply](#) [Retweet](#) [Favorite](#) [More](#)

46

RETWEETS

4

FAVORITES



DapperWest

7:38 PM - 27 Feb 12 · Details



2003 Tom moves to San Francisco

2012 Tom moves to NYC

<i>name</i>	<i>location</i>	<i>previous</i>
Tom	NYC	SF

<i>name</i>	<i>location</i>	<i>moved</i>
Tom	SF	2003
Tom	NYC	2012

JASON
STATHAM

RYAN
PHILLIPPE

WESLEY
SNIPES

UN FILM SIGNÉ ET RÉALISÉ PAR TONY GIGLIO
CHAOS

Une seule règle : éliminer l'adversaire

MOBIUS
www.tfdistribution.fr

TFD

2003 Tom moves to San Francisco

2009 Betty moves to NYC

2012 Tom marries Betty

2012 Tom moves to NYC



High-capacity
Dynamic
Real-time



elasticsearch



#hdrdata

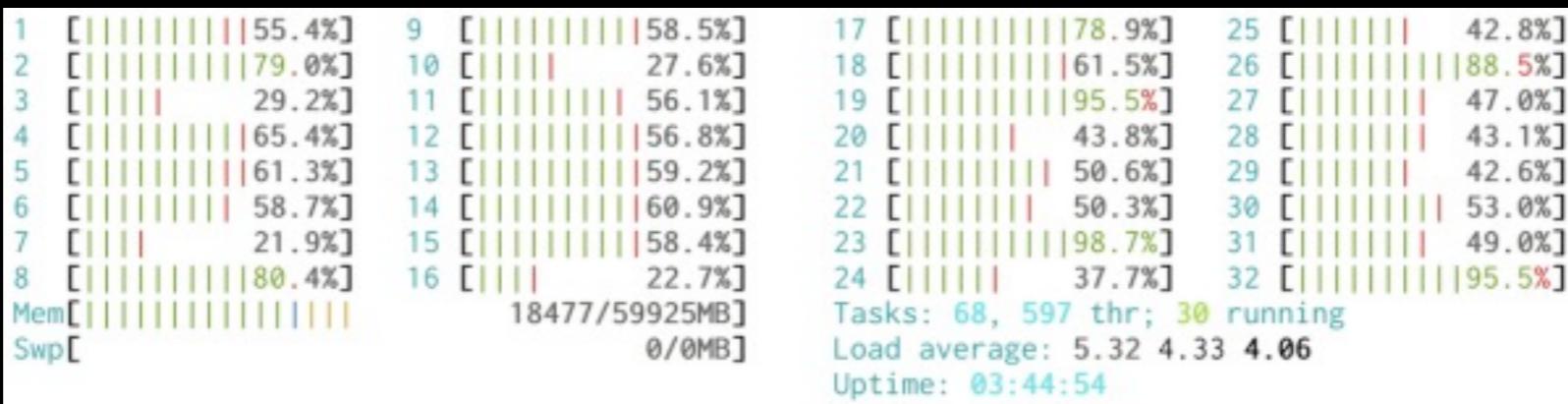
persistent
persistence

schema-less -ish

fast

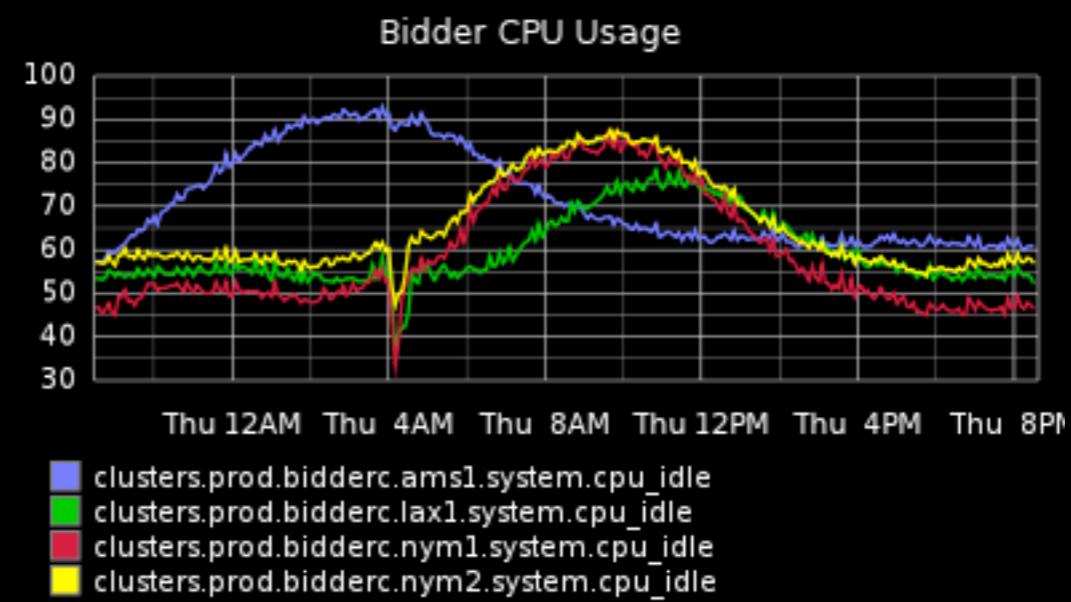
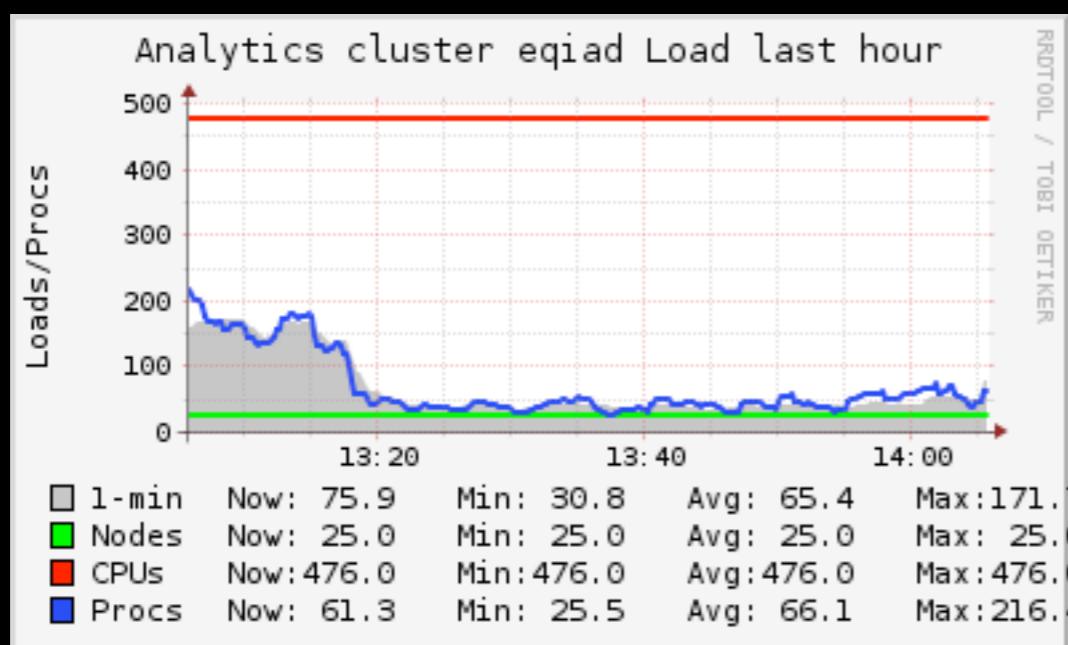
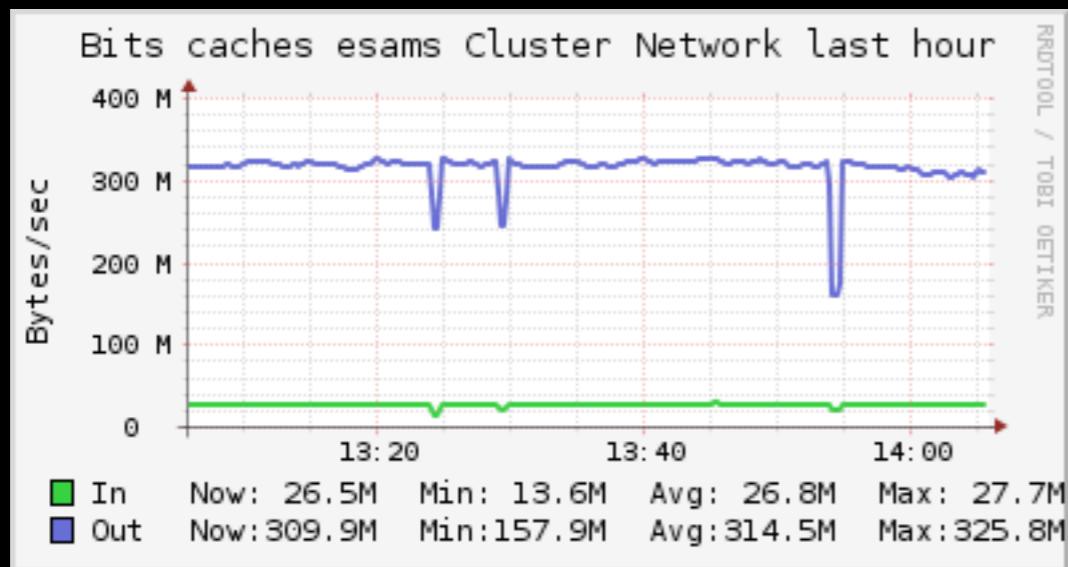


fast



Metrics

ganglia.sourceforge.net
graphite.wikidot.com
github.com/etsy/statsd



CPU

Zoom In Zoom Out | ● query1 (1608) gauges.cpu.all.cpu.total total per 1m | (1608 hits)



Load (One Min Avg)

Zoom In Zoom Out | ● query1 (1608) gauges.load.one total per 5m | (1608 hits)



cores

core0
Zoom In Zoom Out | ● query1 (1608)
gauges.cpu.core.cpu0.total total per 5m |
(1608 hits)



cores

core1
Zoom In Zoom Out | ● query1 (1608)
gauges.cpu.core.cpu1.total total per 5m |
(1608 hits)



Rate Send

Zoom In Zoom Out | ● query1 (1608) gauges.net.send total per 1m | (1608 hits)



Rate Receive

Zoom In Zoom Out | ● query1 (1608) gauges.net.receive total per 1m | (1608 hits)



cores

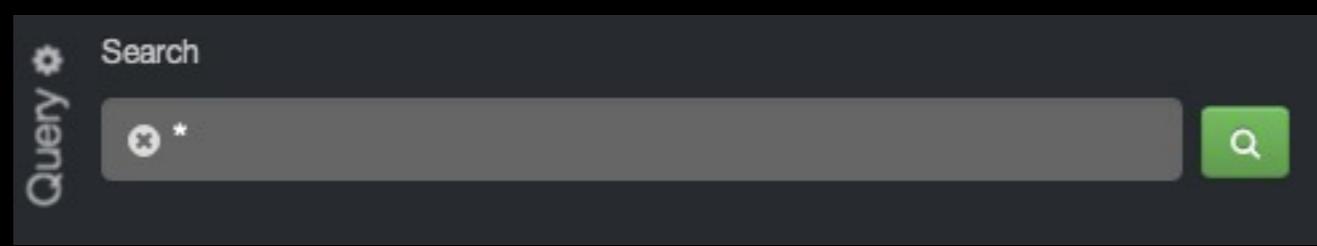
core2
Zoom In Zoom Out | ● query1 (1608)
gauges.cpu.core.cpu2.total total per 5m |
(1608 hits)



cores

core3
Zoom In Zoom Out | ● query1 (1608)
gauges.cpu.core.cpu3.total total per 5m |
(1608 hits)





```
% git clone git://github.com/elasticsearch/kibana.git
% cd kibana
% npm install -g http-server \
    # or python -m SimpleHTTPServer
% http-server
Starting up http-server, serving ./ on port: 8080
Hit CTRL-C to stop the server
% open http://localhost:8080
```

bin/elasticsearch -f

@drewr

elasticsearch.com

elasticsearch.org

github.com/elasticsearch

three.kibana.org

demo.kibana.org