Monitor Everything!

Easy Way (SAAS)

e.g. New Relic

Application Performance Management & Monitoring | New Relic

www.newrelic.com

Reader

Application Performance Management & Monitoring | New Relic

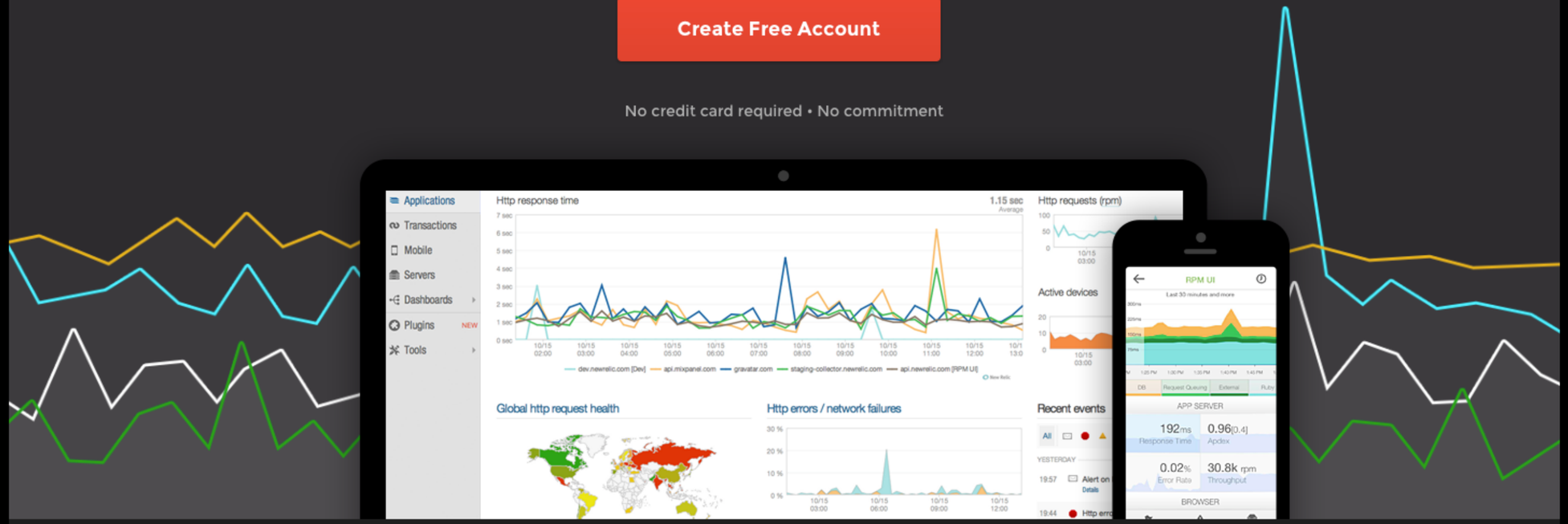
New Relic. YOU CAN MONITOR PRICING ABOUT ENTERPRISE BLOG | SIGN IN Create Free Account

App performance increases happiness

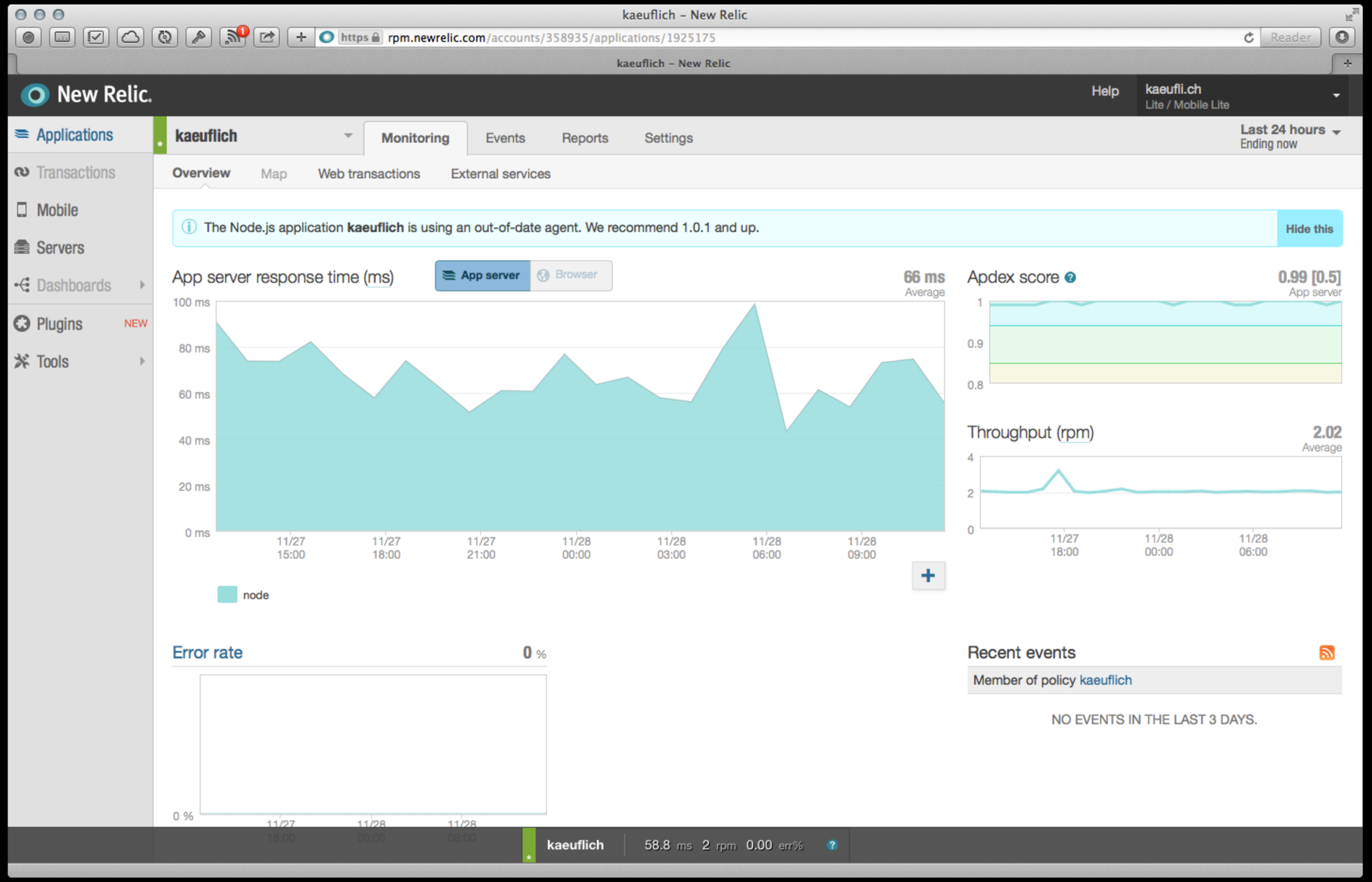
Get immediate code-level visibility and build faster, more reliable web and mobile applications.

Create Free Account

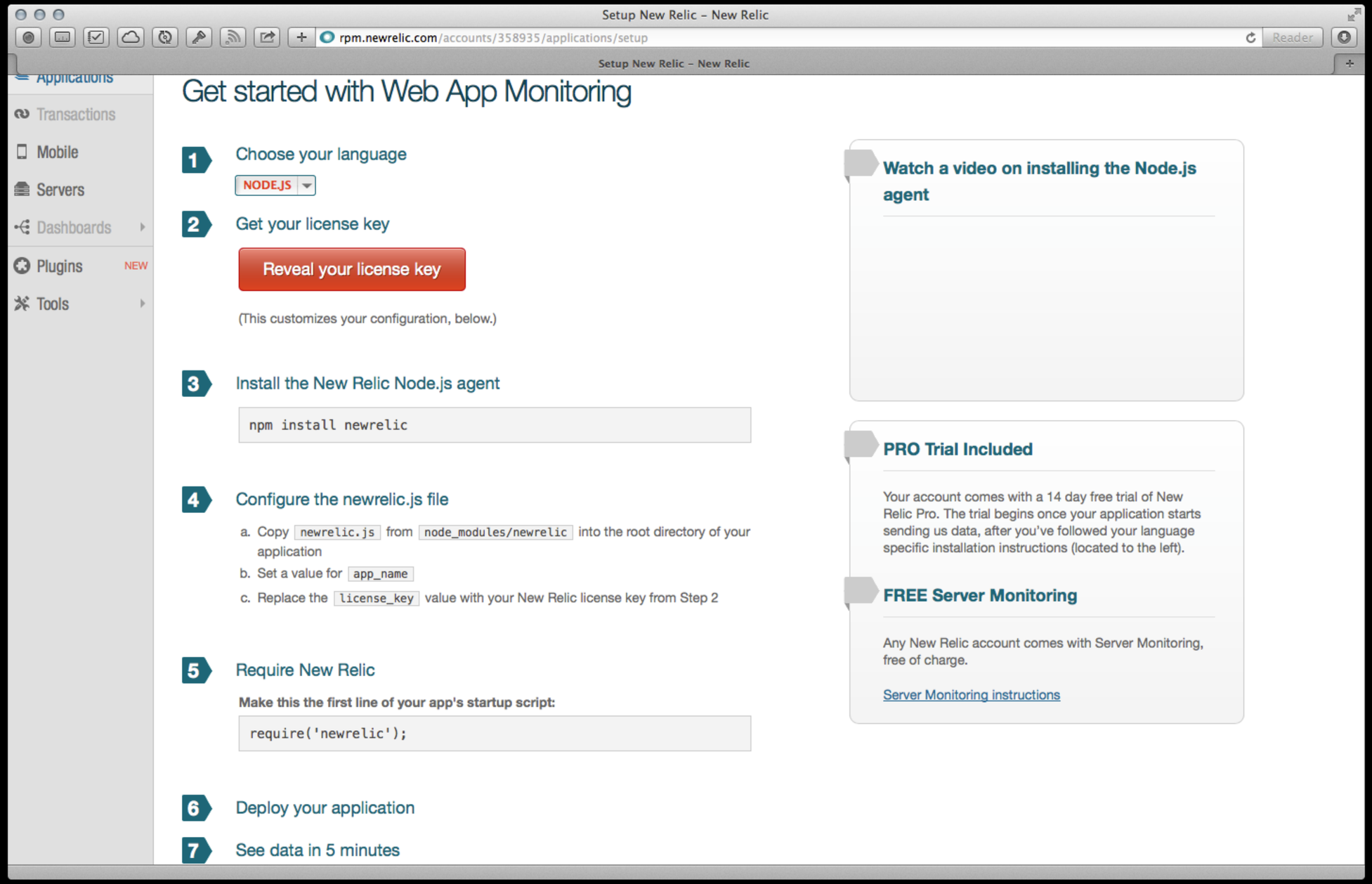
No credit card required • No commitment



WHAT'S NEW


kaeuflich – New Relic
https rpm.newrelic.com/accounts/358935/applications/1925175
Reader
kaeuflich – New Relic
New Relic.
Help
kaeufli.ch
Lite / Mobile Lite
Applications
Transactions
Mobile
Servers
Dashboards
Plugins
NEW
Tools
kaeuflich
Monitoring
Events
Reports
Settings
Last 24 hours
Ending now
Overview
Map
Web transactions
External services
The Node.js application kaeuflich is using an out-of-date agent. We recommend 1.0.1 and up.
Hide this
App server response time (ms)
App server
Browser
66 ms
Average
100 ms
80 ms
60 ms
40 ms
20 ms
0 ms
11/27 15:00
11/27 18:00
11/27 21:00
11/28 00:00
11/28 03:00
11/28 06:00
11/28 09:00
node
Apdex score
0.99 [0.5]
App server
1
0.9
0.8
Throughput (rpm)
2.02
Average
4
2
0
11/27 18:00
11/28 00:00
11/28 06:00
Error rate
0 %
0 %
11/27 18:00
11/28 00:00
11/28 06:00
Recent events
Member of policy kaeuflich
NO EVENTS IN THE LAST 3 DAYS.
kaeuflich
58.8 ms
2 rpm
0.00 err%

How to install?


Setup New Relic – New Relic
rpm.newrelic.com/accounts/358935/applications/setup
Reader
Setup New Relic – New Relic
Applications
Transactions
Mobile
Servers
Dashboards
Plugins
NEW
Tools
Get started with Web App Monitoring
1
Choose your language
NODE.JS
2
Get your license key
Reveal your license key
(This customizes your configuration, below.)
3
Install the New Relic Node.js agent
npm install newrelic
4
Configure the newrelic.js file
a. Copy newrelic.js from node_modules/newrelic into the root directory of your application
b. Set a value for app_name
c. Replace the license_key value with your New Relic license key from Step 2
5
Require New Relic
Make this the first line of your app's startup script:
require('newrelic');
6
Deploy your application
7
See data in 5 minutes
Watch a video on installing the Node.js agent
PRO Trial Included
Your account comes with a 14 day free trial of New Relic Pro. The trial begins once your application starts sending us data, after you've followed your language specific installation instructions (located to the left).
FREE Server Monitoring
Any New Relic account comes with Server Monitoring, free of charge.
Server Monitoring instructions

Downsides 👎

- No RUM-Testing for node.js yet
- Only gives you basic metrics
- Free account only gives you 24h data retention
- Data is somewhere in the US

Upsides 👍🏻

- It’s free
- It’s better than nothing to see what’s happening
- Send email if app is unreachable
- Plugins for different applications (databases, proxies, etc.)

Detailed Way

using graphite/statsd

Graphite?

What?

Store numeric time-series data

Render graphs of this data

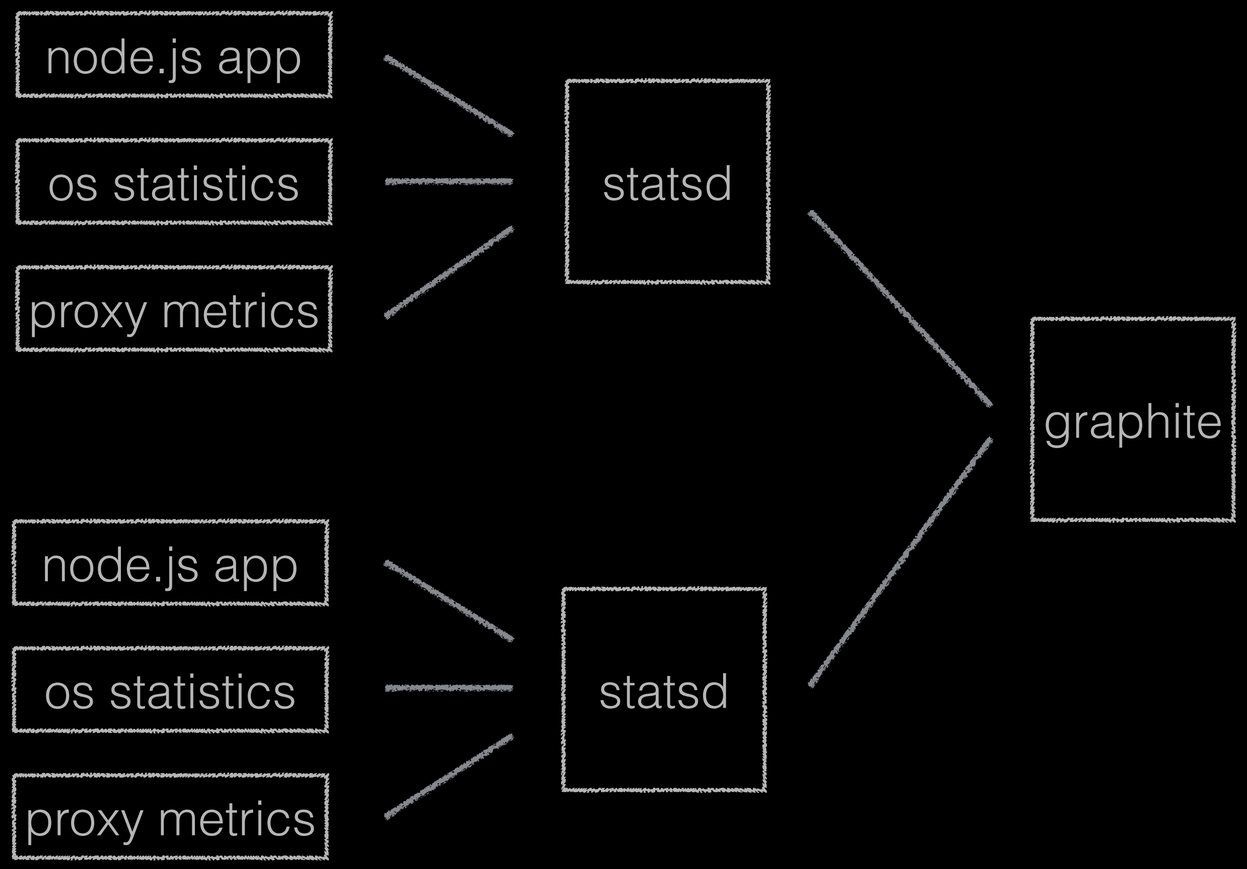
Statsd?

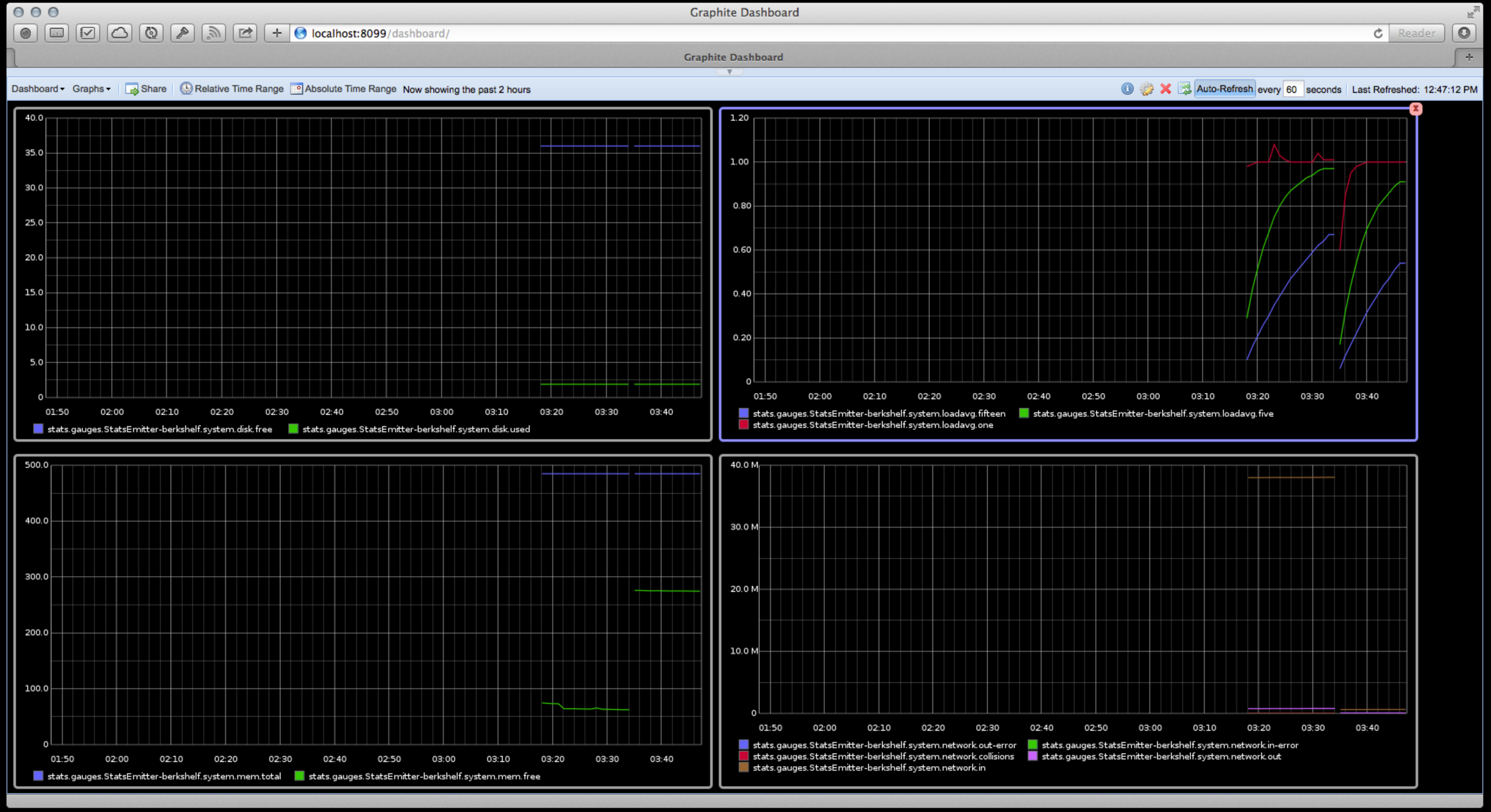
What? More?

Aggregate time-series data…

…and send it to graphite in intervals

Example Architecture




Graphite Dashboard
localhost:8099/dashboard/
Reader
Graphite Dashboard
Dashboard
Graphs
Share
Relative Time Range
Absolute Time Range
Now showing the past 2 hours
Auto-Refresh
every 60 seconds
Last Refreshed: 12:47:12 PM
40.0
35.0
30.0
25.0
20.0
15.0
10.0
5.0
0
01:50
02:00
02:10
02:20
02:30
02:40
02:50
03:00
03:10
03:20
03:30
03:40
stats.gauges.StatsEmitter-berkshelf.system.disk.free
stats.gauges.StatsEmitter-berkshelf.system.disk.used
1.20
1.00
0.80
0.60
0.40
0.20
0
stats.gauges.StatsEmitter-berkshelf.system.loadavg.fifteen
stats.gauges.StatsEmitter-berkshelf.system.loadavg.five
stats.gauges.StatsEmitter-berkshelf.system.loadavg.one
500.0
400.0
300.0
200.0
100.0
0
stats.gauges.StatsEmitter-berkshelf.system.mem.total
stats.gauges.StatsEmitter-berkshelf.system.mem.free
40.0 M
30.0 M
20.0 M
10.0 M
0
stats.gauges.StatsEmitter-berkshelf.system.network.out-error
stats.gauges.StatsEmitter-berkshelf.system.network.in-error
stats.gauges.StatsEmitter-berkshelf.system.network.collisions
stats.gauges.StatsEmitter-berkshelf.system.network.out
stats.gauges.StatsEmitter-berkshelf.system.network.in

Demo

Downsides 👎🏻

- You have to do it…

Upsides 👍🏻

- You can graph the world… and more!

Further reading

- http://codeascraft.com/2011/02/15/measure-anything-measure-everything/
- http://statsd.readthedocs.org/en/latest/
- https://graphite.readthedocs.org/en/latest/
- https://npmjs.org/package/node-statsd
- http://blog.pkhamre.com/2012/07/24/understanding-statsd-and-graphite/
- https://github.com/jondot/graphene