

logstash



“logstash is a tool for managing events and logs.
You can use it to **collect logs, parse them, and store them** for later use (like, for searching).”

- <http://logstash.net>

collect logs

37 inputs

amqp, drupal_dblog, elasticsearch, eventlog, exec,
file, ganglia, gelf, gemfire, generator, graphite, heroku,
imap, irc, log4j, lumberjack, pipe, rabbitmq, redis, relp,
s3, snmptrap, sqlite, sqs, stdin, stomp, syslog, tcp,
twitter, udp, unix, varnishlog, websocket, wmi, xmpp,
zenoss, zeromq,

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twitter, udp, unix, varnishlog, websocket, wmi, xmpp,
zenoss, zeromq,

Demo... 
(or how to slip on a banana)

Use redis as input...

```
input {  
  redis {  
    data_type => 'list'  
    host => '127.0.0.1'  
    threads => 2  
    db => 6  
    key => 'logstash:bunyan'  
    type => 'bunyan'  
  }  
}
```


Demo

(or how to juggle chainsaws)



parse logs

39 filters

advisor, alter, anonymize, checksum, cidr, cipher, clone, csv, date, dns, drop, environment, extractnumbers, gelfify, geoip, grep, grok, grokdiscovery, json, json_encode, kv, metaevent, metrics, multiline, mutate, noop, prune, railsparallelrequest, range, ruby, sleep, split, syslog_pri, translate, urldecode, useragent, uuid, xml, zeromq

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```
filter {  
  if [response][a] =~ /Linux/ {  
    mutate {  
      add_field => ['os', 'Linux']  
    }  
  }  
}
```

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```

```
filter {  
  grok {  
    type => "nginx-access"  
    pattern => "%{COMBINEDAPACHELOG}"  
  }  
}
```



```
filter {
  grok {
    type => "couchdb"
    match => "\[%{DAY:day_of_week}, %{MONTHDAY:day} %
%{MONTH:month} %{YEAR:year} %{TIME} %{WORD:timezone}\]
\[%{WORD:level}\] \[\\<%{INT:process}\\.%{INT:pid}\\.%
%{INT:pid2}\\>\\] %{IP:client} - - %{WORD:method} %
%{URIPATHPARAM:request} %{WORD:http_status_code}"
  }
}
```

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store logs

51 outputs

amqp, boundary, circonus, cloudwatch, datadog,
datadog_metrics, elasticsearch, elasticsearch_http,
elasticsearch_river, email, exec, file, ganglia, gelf, gemfire,
google_cloud_storage, graphite, graphtastic, hipchat, http,
irc, jira, juggernaut, librato, loggly, lumberjack,
metriccatcher, mongodb, nagios, nagios_nasca, null,
opentsdb, pagerduty, pipe, rabbitmq, redis, riak, riemann,
s3, sns, sqs, statsd, stdout, stomp, syslog, tcp, udp,
websocket, xmpp, zabbix, zeromq

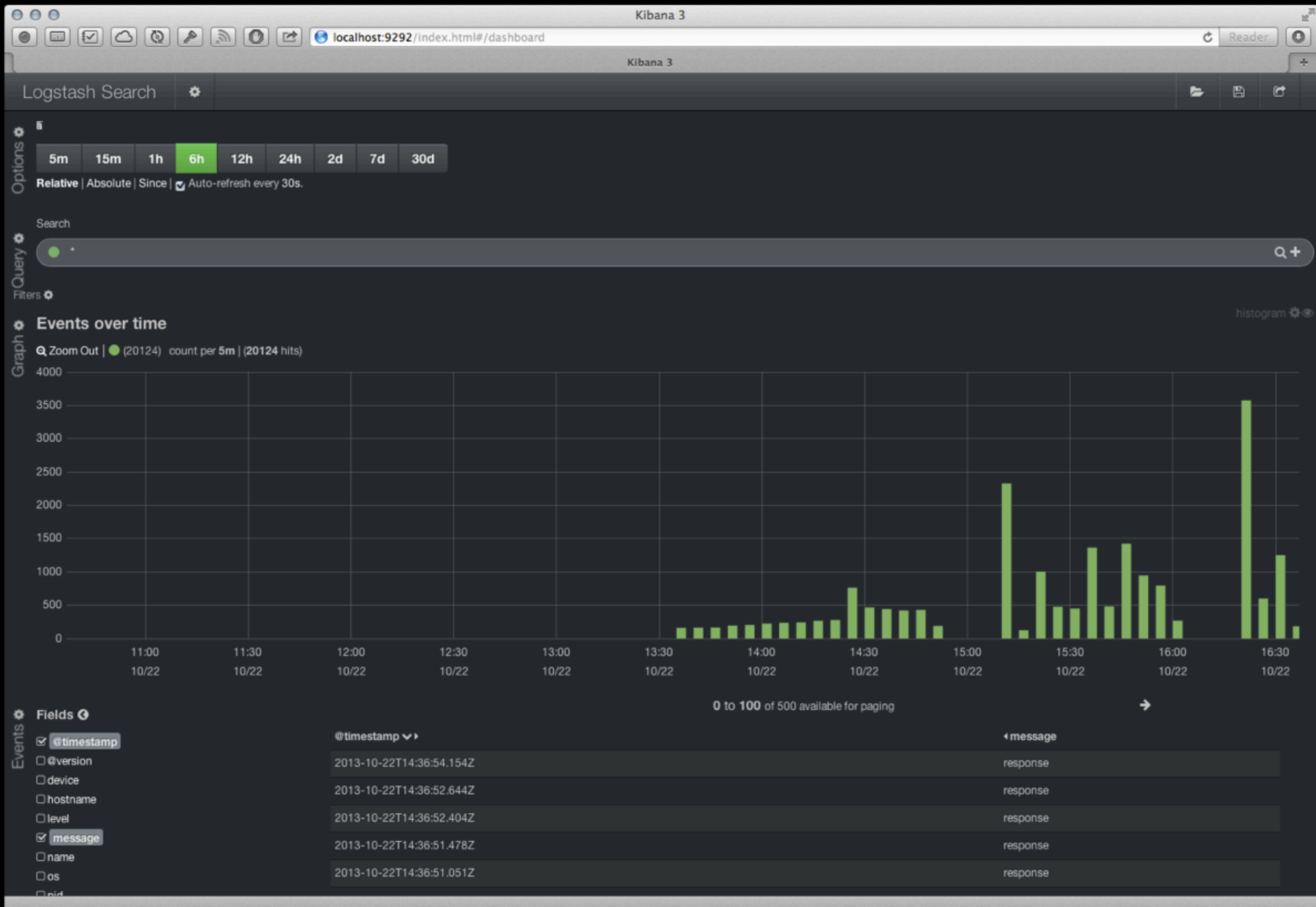
Fully searchable

Build your own Dashboards

All Open Source

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opentsdb, pagerduty, pipe, rabbitmq, redis, riak, riemann,
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websocket, xmpp, zabbix, zeromq



Demo



(or how to catch a liger)

Mechanics

Written in ruby.

Bundled in Java.

WTF!?

It just works.

Author

Jordan Sissel

(former Czar of Logging at DreamHost)

Watch one of his talks!

[http://www.youtube.com/watch?
v=RuUFnog29M4](http://www.youtube.com/watch?v=RuUFnog29M4)



Use logstash!

Image Credits:

Banana designed by 42 from The Noun Project

Lion designed by m. turan ercan from The Noun Project