

Elastic Search

About Me

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- Work for Sonos

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FREE



Easily auto sync your contacts between Constant Contact and your CRM.

Integrating your Customer Relationship Management tool—or CRM—saves you time by auto-synching contacts for free. You'll be able to segment your lists by product interest, sales cycle, or purchase history for more targeted and effective emails. Learn more in our app [MarketPlace](#).

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Where
intelligence ignites connections.™

play video



HiFi SOUND MEETS ROCK-SOLID WIRELESS

Deep, richly textured sound. No skips, delays or drops. Perfect sync in every room.

The Sonos family of products is in a category of its own.
— CNET





elasticsearch

flexible and powerful open source, distributed real-time search and analytics engine for the cloud

cool. bonsai cool

Objective

- We'll cover the basics of Elastic Search
- Demo centric - more interesting to see it in action

Who Uses It?



github

GitHub searches 20TB of data using Elasticsearch, including 1.3 billion files and 130 billion lines of code.



foursquare

Searching 50 million venues in real time? Foursquare does it every day using Elasticsearch.



stumbleupon

Elasticsearch is mission critical to StumbleUpon, delivering millions of recommendations to their community ever day.



fog creek

Elasticsearch powers Fog Creek Software's instant search for 30 million requests per month across 40 billion lines of code.

Features

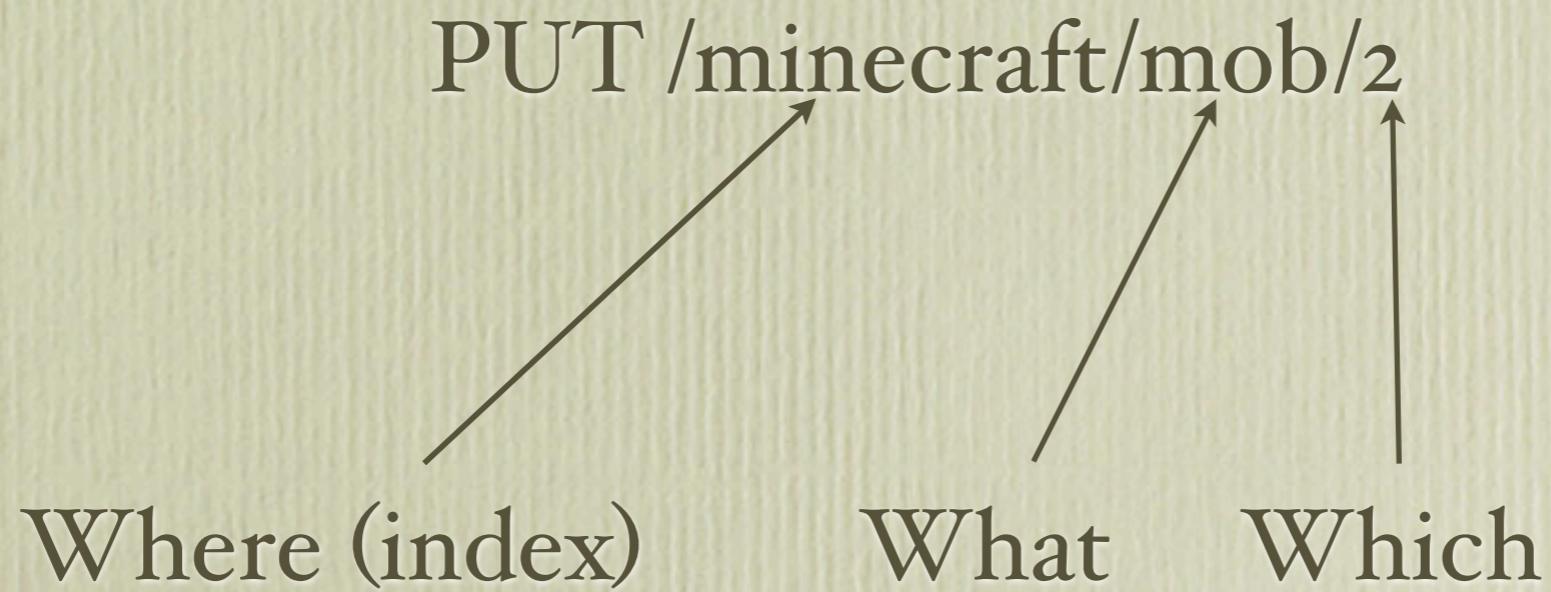
- Real time data
- Distributed
- High Availability
- Multi-tenant
- Full text search
- Schema Free
- RESTful API
- Built on top of Lucene
- Open source (apache 2)
- Easy to set up and use

See <http://www.elasticsearch.org/overview/>

Installation And Setup

Adding Data

Breaking Down The URL



Retrieving Data

Deleting Data

Search

Updating Data

Paging Through Results

Multiple Indices

Mappings

REMEMBER!

Fields: Can Be Added

Cannot Be Changed!

Can't change field type

Field Definitions

Mappings are the field definitions

GET minecraft/mob/_mapping

Field Types

Dynamically Detected

“quoted” : string

“2013-07-17” : date

I7 : long (default), byte, short, integer

Whole numbers: long, short, integer, byte

3.14: float

Floats: float, double

true / false : boolean

Booleans

{ json: “notation” } : object

Objects

`["foo","bar"]`

Nothing special. Anything can have multi values

Filters & Queries

Filters

Exact Match

Fast

Cacheable

Queries

Heavier Than Filters

Full Text Search

Not Cacheable

Score For Relevancy

Use Lucene Syntax

Combine Filters And Queries

Clustering

Clustering

./bin/elasticsearch -f

http://localhost:9200/_cluster/health?pretty

next tab

./bin/elasticsearch -f

http://localhost:9200/_cluster/health?pretty

Then kill one

Analyzers

Use Lucene Analyzers

- WhitespaceAnalyzer
- SimpleAnalyzer
- StopAnalyzer
- KeywordAnalyzer
- StandardAnalyzer

WhitespaceAnalyzer
Splits Tokens At Whitespace

SimpleAnalyzer
Divides text at nonletter characters and lowercases

StopAnalyzer
Divides Text at nonletter characters, lowercases and removes stop words

KeywordAnalyzer
Treats entire text as a single token

StandardAnalyzer
Tokenized based on a sophisticated grammar. recognizes email addresses, acronyms, alphanumerics. Also lowercases and removes stop words

Create Your Own

Plugins

Two Types

- Java
 - Enhance functionality
- Site
 - Don't change functionality
 - Served up by built-in webserver

Site Plugin

A web front end for an ElasticSearch cluster

<https://github.com/mobz/elasticsearch-head>

ElasticHQ

Another awesome plugin

<http://www.elastichq.org/gettingstarted.html>

[http://www.elasticsearch.org/guide/
reference/modules/plugins/](http://www.elasticsearch.org/guide/reference/modules/plugins/)

List of plugins

THANK YOU!