# Kibana Overview

### Outline

- Definition and History of ELK Stack
- Kibana Essentials Visualizer
  - Discover
  - Visualize
  - Dashboard
- Workshop
- Dev Tools & X-Pack
  - Machine Learning
  - Graph

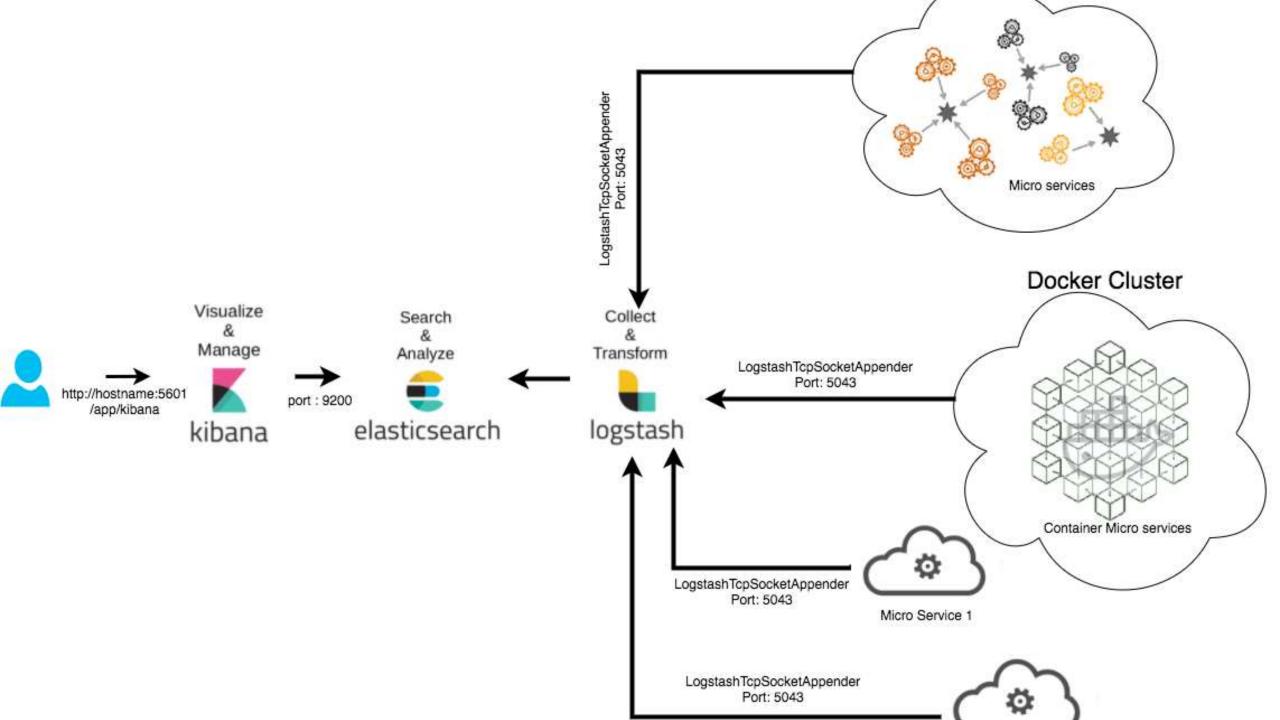
# Etymology

• 黄花 - yellow flower

• Rashid Khan, the creator of Kibana, in Swahili a hut.

### What is behind Kibana?





### Heart of ELK stack: Elasticsearch

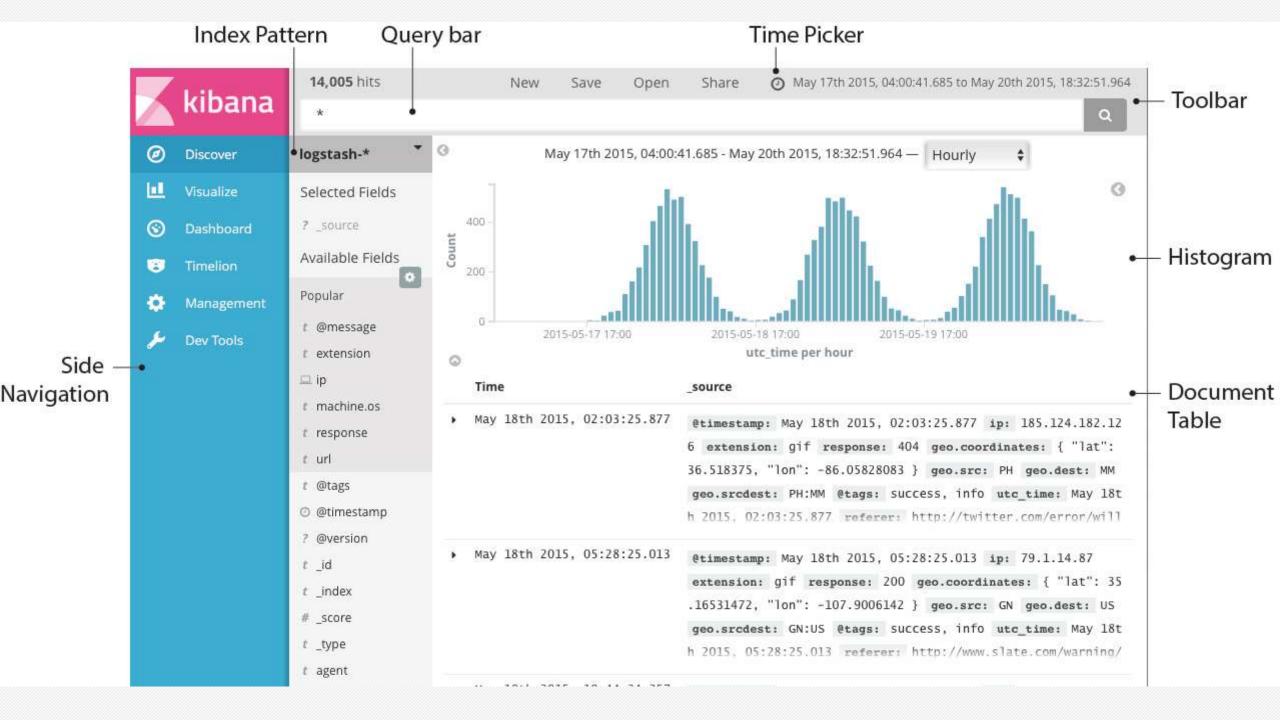


- Based on Apache Lucene
- Shay Banon, Compass to Elasticsearch, released in 2010
- In 2012 Elastic was founded in Amsterdam
- RESTful search and analytics engine



### Kibana essentials

- Discover
- Visualizer
- Dashboard



### Discover

- Query bar Lucene query syntax
- Filter Elasticsearch Query DSL

- Discover
- Visualize
- O Dashboard
- Timelion
- Machine Learning
- 6 Grap
- ONE SERVICE
- ▶ Dev Tools
- Monitorin
- Manageme

#### Select visualization type

Q. Search visualization types...

#### **Basic Charts**













#### Data









#### Maps

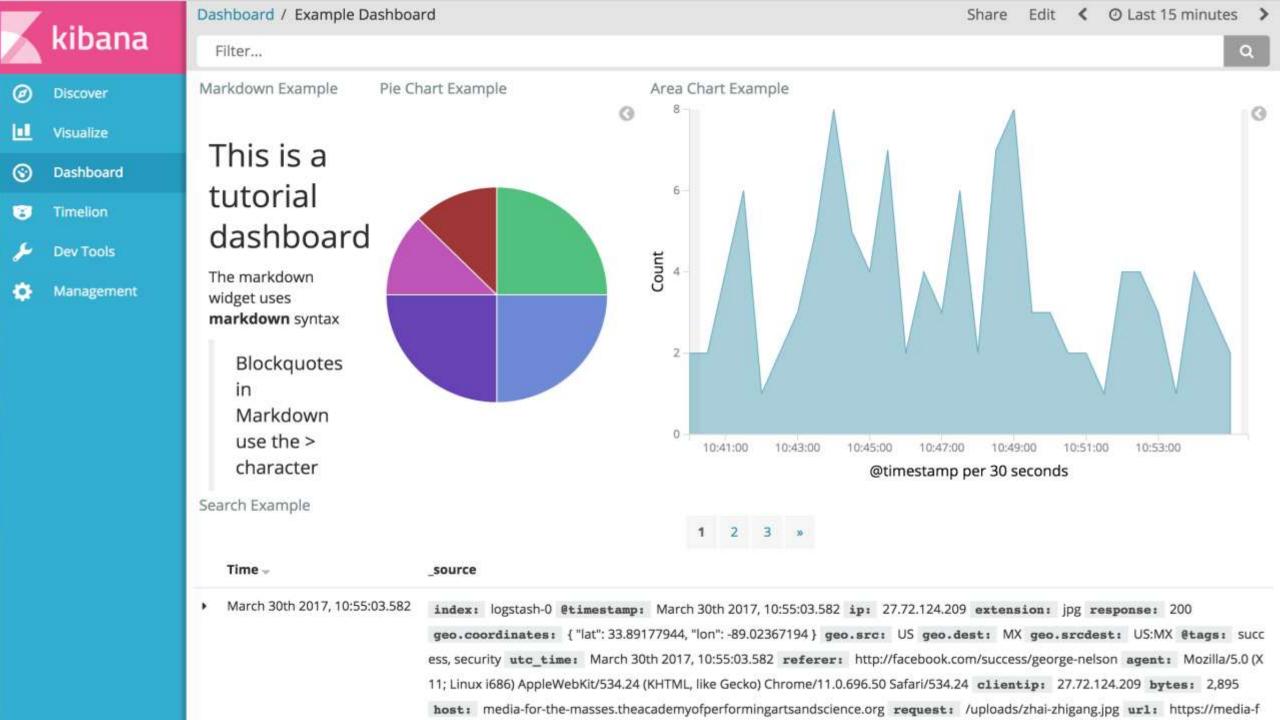




#### Time Series









## Let's try it out!

- Example of Visualize & Dashboard
- Little exercise.

## Dev Tools

- Console
- Search Profiler

### X-Pack beyond Essentials

- Security
- Monitoring
- Alerting and Notification
- Reporting
- Graph
- Machine Learning

#### Time series analysis Zoom: auto 12h 1d 1w 2w (aggregation interval: 30m) 20,000,000 19,000,000 18,000,000 17,000,000 16,000,000 15,000,000 14,000,000 Thu 13 06 AM 12 PM 06 PM Fri 14 06 AM 12 PM 06 PM Sat 15 06 AM Wed 29 Mon 03 Fri 07 Apr 09 Mon 17 Fri 31 April Wed 05 Tue 11 hu 13 Sat 15

#### Anomalies

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Severity threshold: A warning	- Interval: Auto -					
time ‡	max severity \$	detector \$	actual =	typical 🗢	description $\updownarrow$	job ID 🌣
<ul> <li>April 14th 2017, 06:00</li> </ul>	▲ 95	sum(total) (total-request)	14432600	16609200	◆ 1.2x lower	total-request
<ul> <li>April 14th 2017, 07:00</li> </ul>	▲ 83	sum(total) (total-request)	14310100	16421500	◆ 1.1x lower	total-request
<ul> <li>April 14th 2017, 08:00</li> </ul>	▲ 24	sum(total) (total-request)	13909700	15499400	◆ 1.1x lower	total-request
<ul> <li>April 13th 2017, 12:00</li> </ul>	▲1	sum(total) (total-request)	13615600	14113400	◆ Unusually low	total-request
<ul> <li>April 14th 2017, 15:00</li> </ul>	▲<1	sum(total) (total-request)	16659900	15863700	↑ 1.1x higher	total-request

New

Save

Open De

Delete

Discover

Visualize

Dashboard

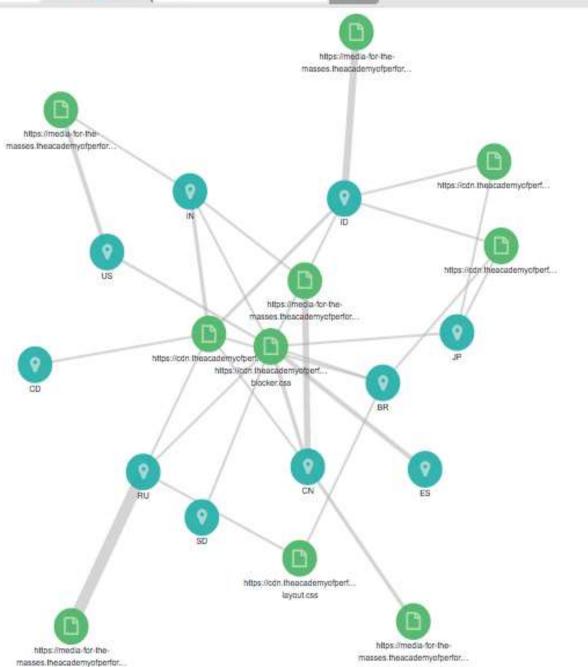
Graph

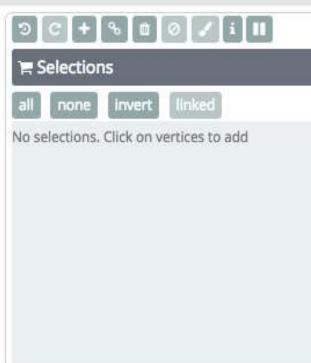
Monitoring

Timelion

Management

**Dev Tools** 





# Thank you!

- Don't spend time reading books about Kibana
- Use official documentation in elastic.co
- Be careful with data!