

# HANDS-ON INTRODUCTION TO ELASTICSEARCH

EMANUIL TOLEV  
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elastic

COMMUNITY ENGINEER



## Elasticsearch

Elasticsearch is a distributed, JSON-based search and analytics engine.

[Learn more](#)



## Kibana

Kibana is the window into the Elastic Stack. Explore your data and manage the stack.

[Learn more](#)



## Beats

Beats is a platform for lightweight shippers that send data from edge machines.

[Learn more](#)



## Logstash

Logstash is a dynamic data collection pipeline with an extensible plugin ecosystem.

[Learn more](#)

# HOW BIG IS YOUR JUPYTER NOTEBOOK?

# HOW LONG IS A PIECE OF STRING...

**ELASTICSEARCH SCALES  
HORIZONTALLY – YOU CAN  
ADD MORE PIECES**

# USE IN PRODUCTION

- SEARCH (ONLINE SHOP FRONT, ADMIN TOOLING, RECOMMENDATION SYSTEMS, ...)
  - ANALYTICS (BUSINESS METRICS)
- WEB APP MONITORING: "LOGGING, METRICS, TRACES"
  - INTERACTIVE DASHBOARDING
- UNSUPERVISED LEARNING FOR ANOMALY DETECTION (PAID! BUT GOOD)
  - NOW SECURITY TOO

# THE SEARCH EXPERIENCE

- IT'S MORE THAN A BACK-END TO INSTALL AND CONNECT TO
  - FULL-STACK VIEW: GREAT UX IS THE GOAL
    - RELEVANCE, RANKING, SPEED
- OF COURSE YOU DO ALSO NEED A BACK-END :)



# TODAY

- > SETUP AND CONNECT
- > INDEX (PUT DATA IN)
- > QUERY (GET DATA OUT – SEARCH AND AGGREGATE)
- > USE KIBANA TO CREATE A FEW VISUALISATIONS
  - > ET VOILA!

# HTTPS://GITHUB.COM/EMANUIL-TOLEV/ES-HANDS-ON-INTRO

- > FOR THOSE WHO HAVEN'T DONE IT YET, DOCKER-COMPOSE UP AND THEN RUN ./BUILD.SH TO INJECT SAMPLE DATA
- > FOLLOW DEMO-CONSOLE.TXT IN HTTP://LOCALHOST:5601/APP/KIBANA#/DEV\_TOOLS/CONSOLE
  - > LATER WE'LL PLAY WITH KIBANA, THE VIS GUI!

THE CRUX OF THIS IS THAT YOU LEARN HOW

# QUESTIONS?

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