



An abstract graphic on the left side of the slide consists of several thick yellow circles connected by thick yellow lines, forming a network-like structure. The background is a solid teal color.

Observability with elastic

The innovation enablers

Agenda

- Introduction
- Observability using elastic – why?
- Elastic ecosystem
- Application performance monitoring
- Log centralization
- Cluster monitoring



01

Introduction

„Who the hell are you?!“

Marek Hornák

Software/Data/DevOps engineer @ ableneo

marek.hornak@ableneo.com



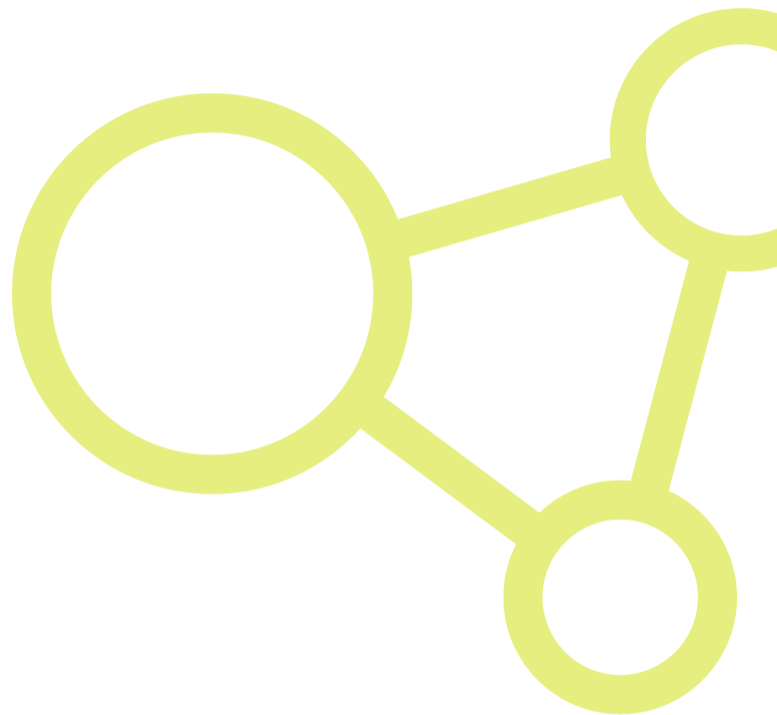
02

Observability using elastic

Why?

Why elastic stack?

- Opensource or free
- Fast and reliable
- Heavily used in world – good support
- Simple to install and operate (excluding perf. tuning :-)
- Whole ecosystem of components which play nicely together
- Most organizations already use elasticsearch





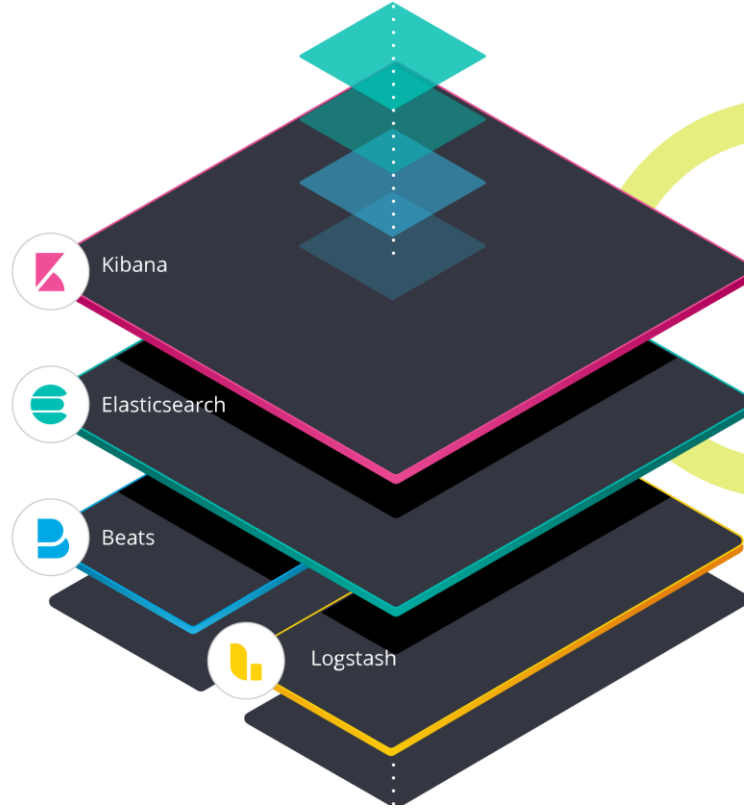
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Elastic ecosystem

How?

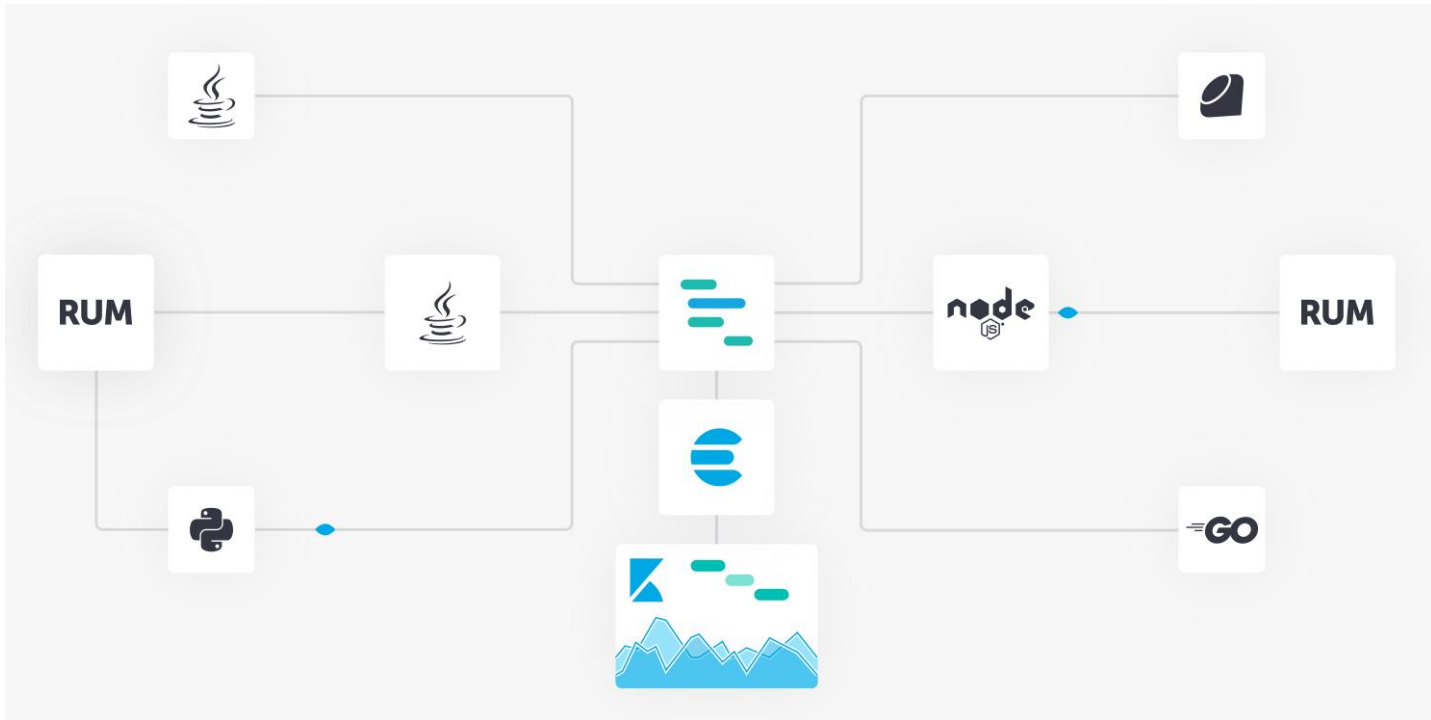


ELK stack





ELK stack with APM





04

Elastic APM

App insights in elastic

Elastic APM

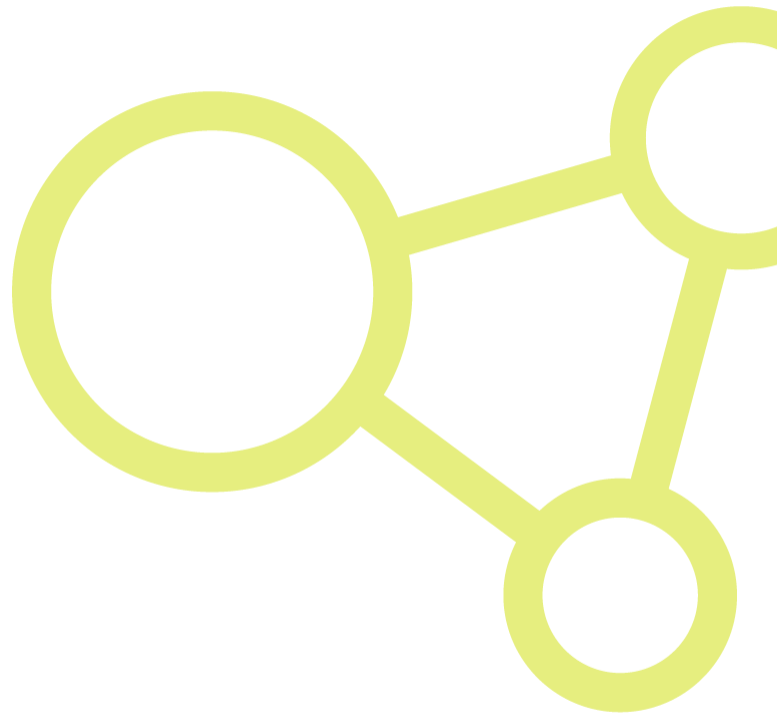
- Monitoring of distributed apps
- Transactions – from first request to last response
- Spans – are part of transaction – single action duration
 - DB query, REST call, code block...
- Kibana APM UI



Elastic APM

Supported technologies:

- Java
- Node.js
- Django
- Rails
- Go





DEMO

Elastic APM



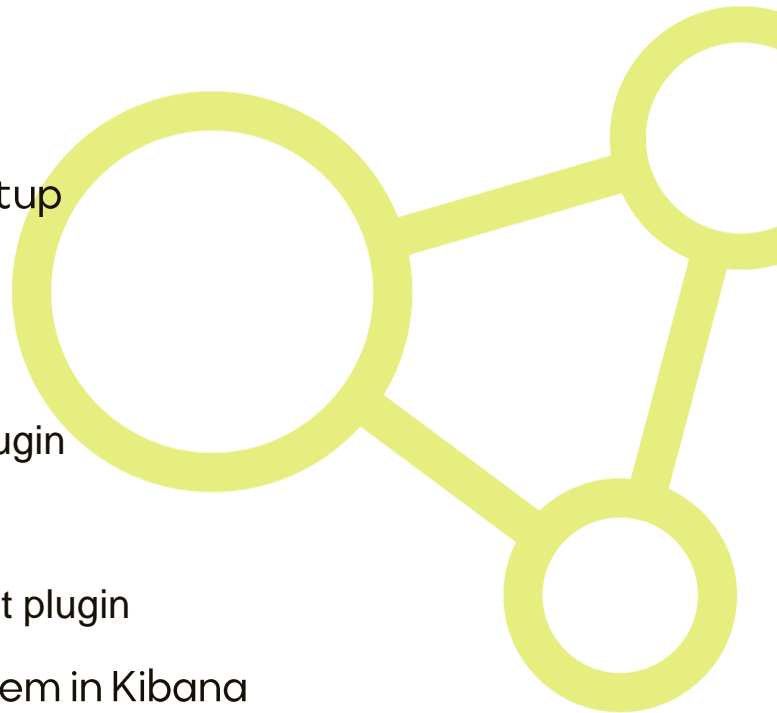
05

Log centralization

Logs in microservice era

Log centralization

- Use commercial service like logz.io – easy to setup
- Or send logs into elasticsearch – flexibility
- Deprecated approach:
 - Log4j socket appender + Logstash log4j input plugin
- Recommended approach:
 - Log to file, use Filebeat and Logstash beats input plugin
- Parse & enrich logs in Logstash and search in them in Kibana





DEMO

Filebeat + Logstash parsing



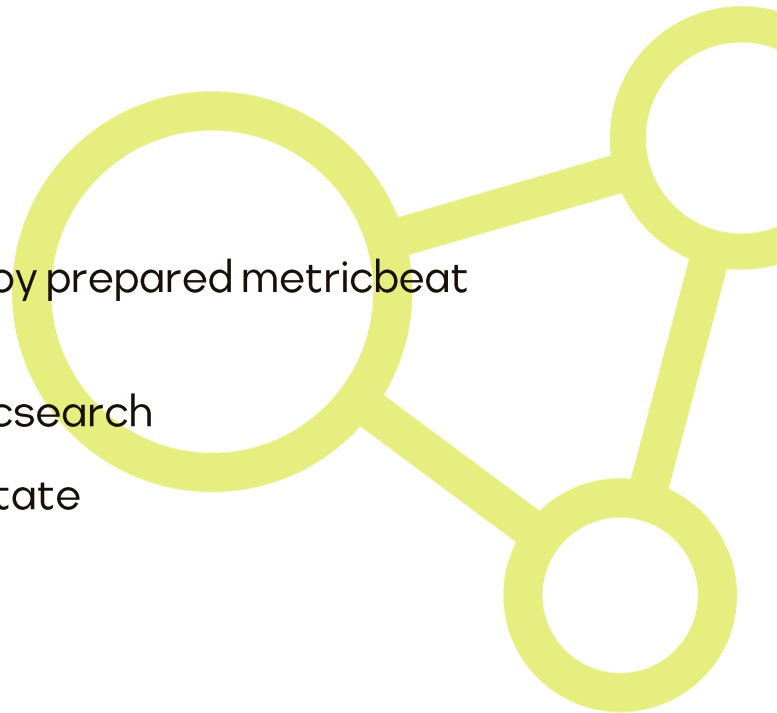
06

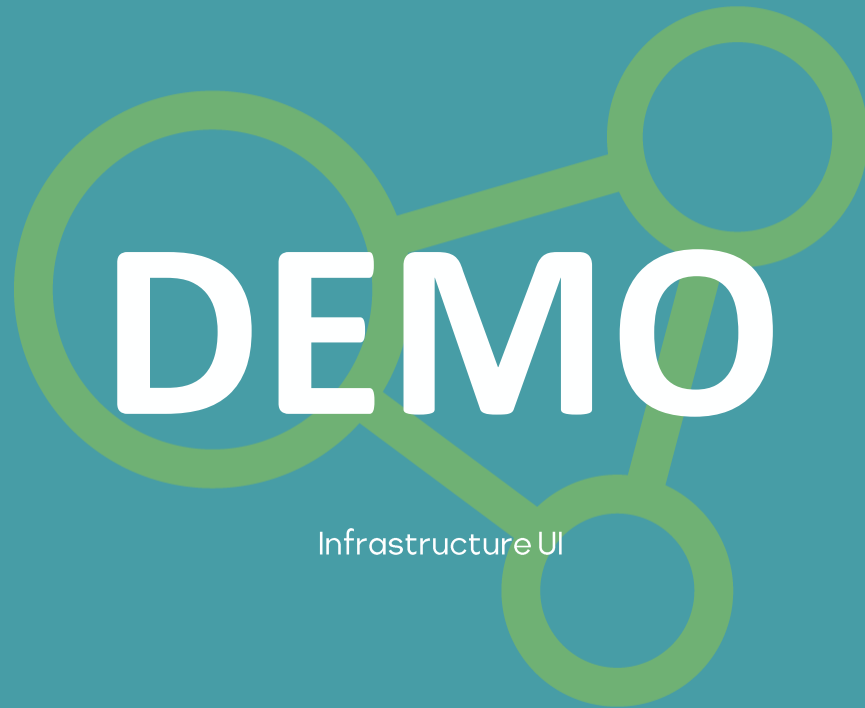
Cluster monitoring

Logs in microservice era

Cluster monitoring

- Metricbeats
- Kubernetes support – easy to install – just deploy prepared metricbeat deployment
- Metricbeats will then send statistics into elasticsearch
- Infrastructure UI in Kibana to visualize cluster state





DEMO

Infrastructure UI



07

Questions & Your problems



Thank you



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The innovation enablers