

DevOps in Real Life

- A How To

Who are we?



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Your trusted partner to manage your presence in the news and on social.

- → Brand Management
- → Media Relations
- → Crisis Communications
- → PR Reporting

Meltwater



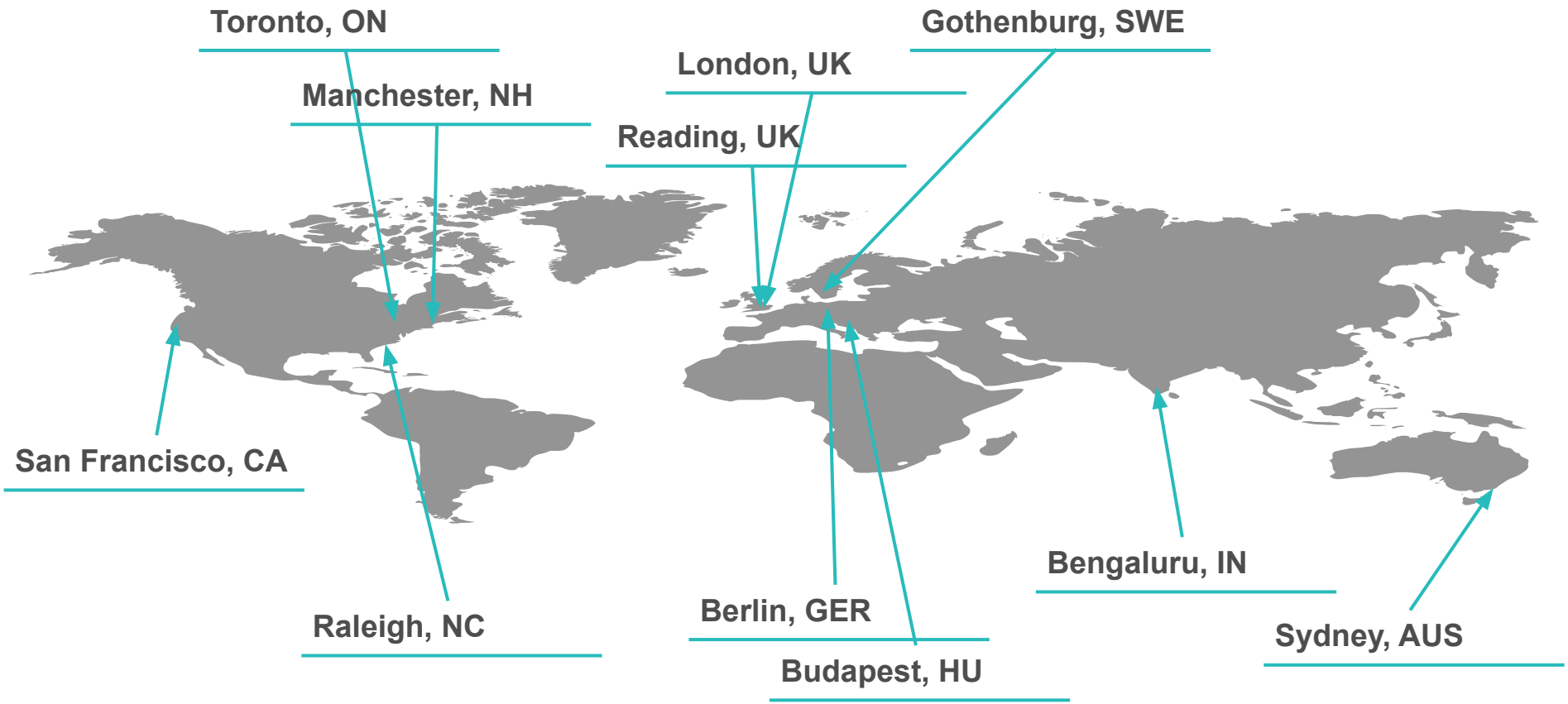
350+
ENGINEERS

50+
TEAMS

3000+ GITHUB
REPOSITORIES

2.3 PB
DATA

9 TRILLION
SEARCH
HITS


Toronto, ON
Manchester, NH
San Francisco, CA
Raleigh, NC
London, UK
Reading, UK
Gothenburg, SWE
Berlin, GER
Budapest, HU
Bengaluru, IN
Sydney, AUS

DEVELOPERS ←|→ OPERATIONS



Photo by Meredith Petrick on Unsplash



Photo by Jay Heike on Unsplash

DEVELOPERS ←|→ OPERATIONS

DEVELOPERS →← OPERATIONS

DEVOPS

EMPOWERING TEAMS



Photo by Miguel Bruna on Unsplash

SCARY

“Deliver innovative features catered to the customers needs”

DOCUMENT

NETWORK

LOAD BALANCER

SECURITY

MONITORING

LOGGING

CONTINUOUS INTEGRATION

STAGING

PRODUCTION

WRITE BUSINESS LOGIC

INTRODUCING THE PLATFORM TEAM



Photo by Susan Holt Simpson on Unsplash

SO YOU JUST CHANGED NAME OF THE OPS TEAM TO PLATFORM TEAM?

WHERE ARE YOUR BOUNDARIES OF RESPONSIBILITY?

PLATFORM

KUBERNETES

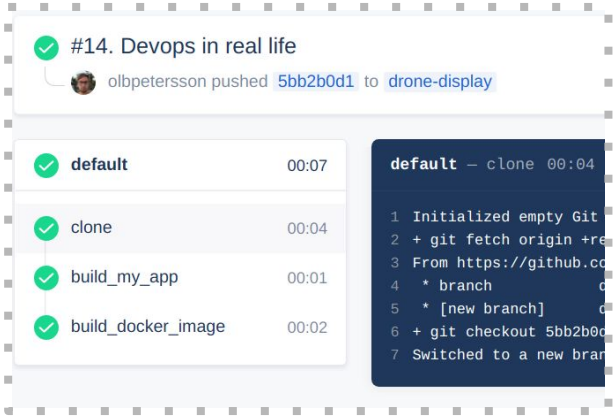
PLATFORM

CONTINUOUS INTEGRATION

KUBERNETES

PLATFORM

CONTINUOUS INTEGRATION



KUBERNETES

PLATFORM

CONTINUOUS INTEGRATION

Dockerfile

```
COPY app /
npm build
```

KUBERNETES

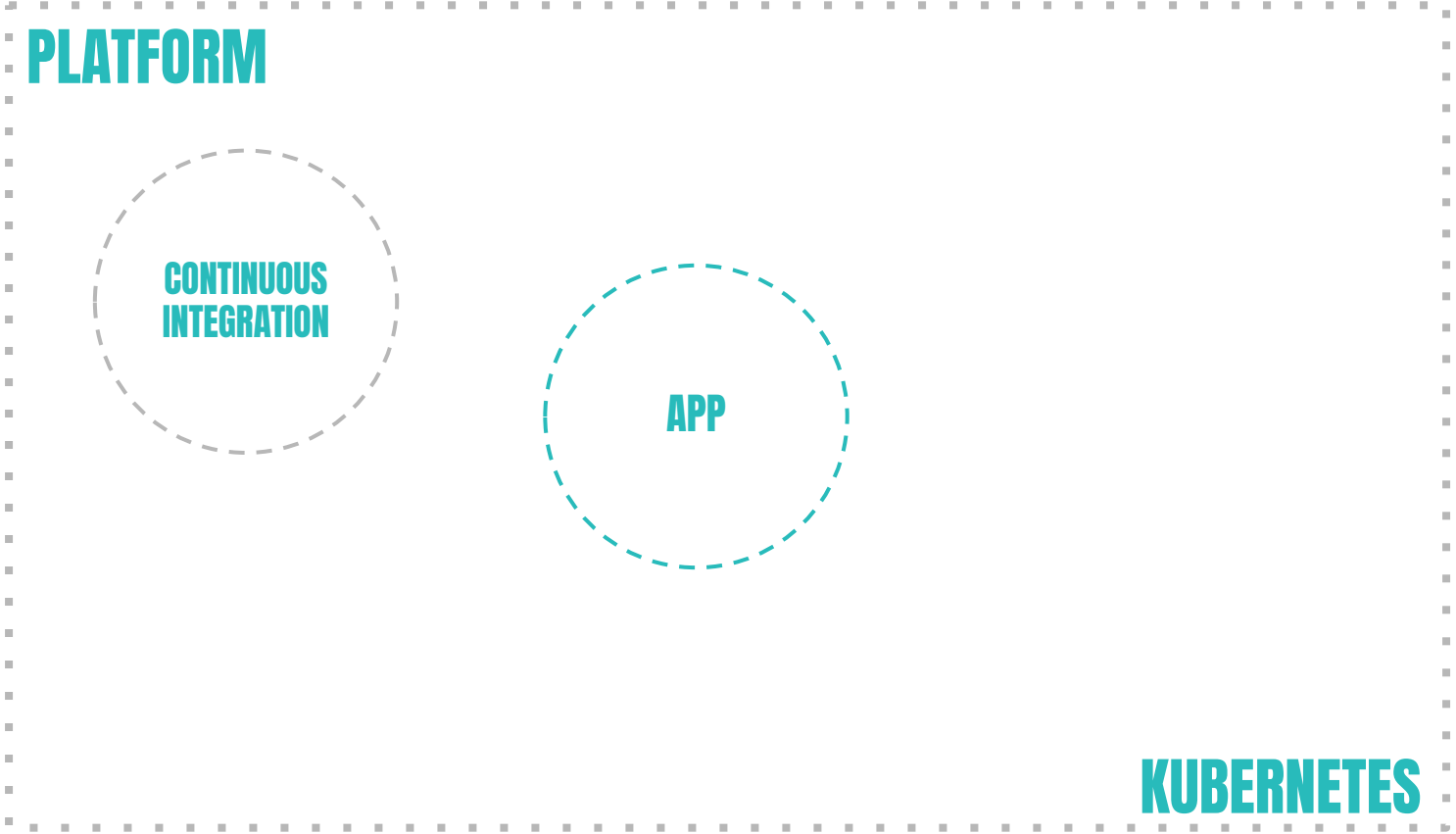
PLATFORM

CONTINUOUS INTEGRATION

Dockerfile

```
COPY app.jar /
Java -jar app.jar
--port 8080
```

KUBERNETES

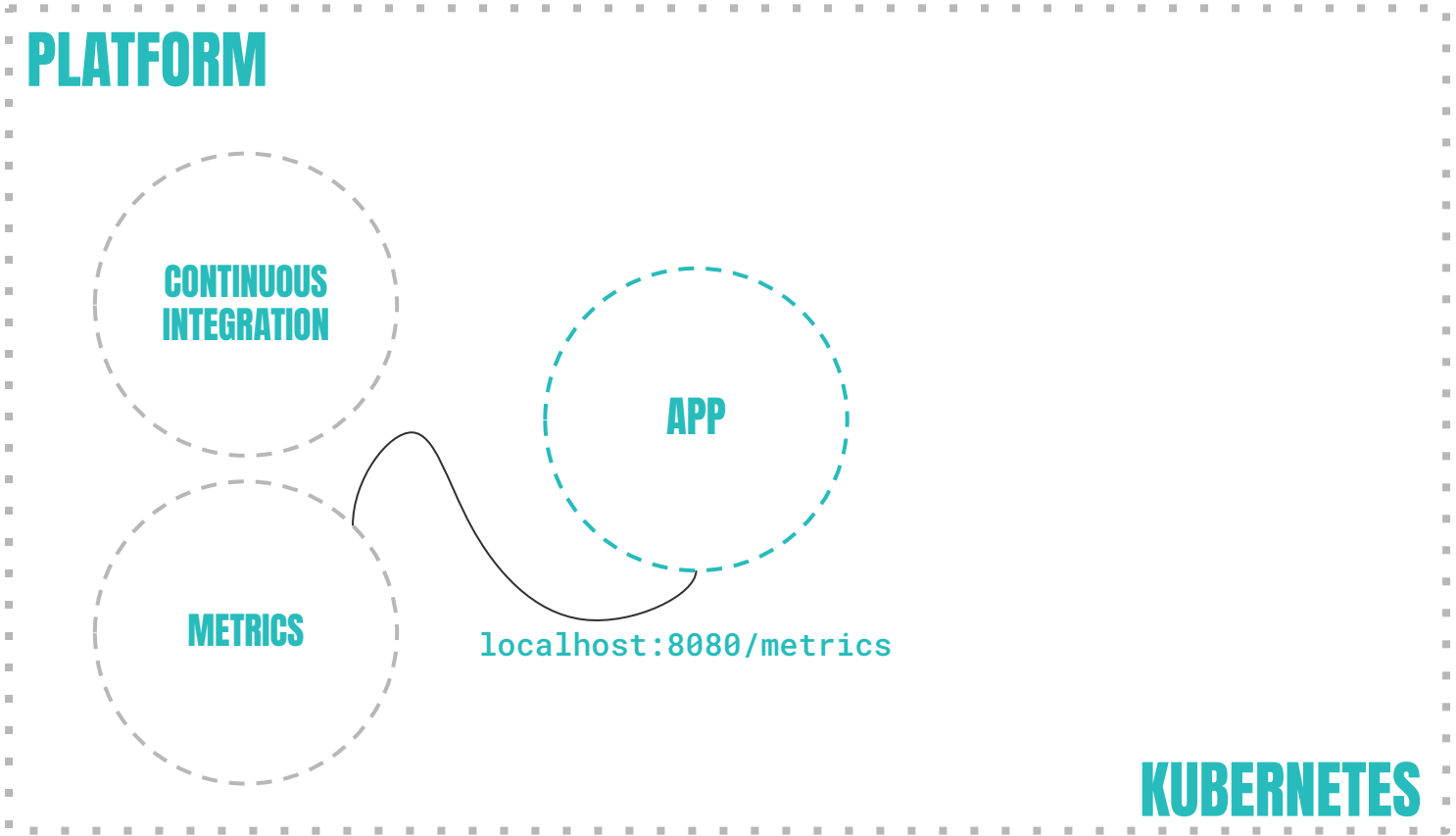

PLATFORM
CONTINUOUS INTEGRATION
APP
KUBERNETES

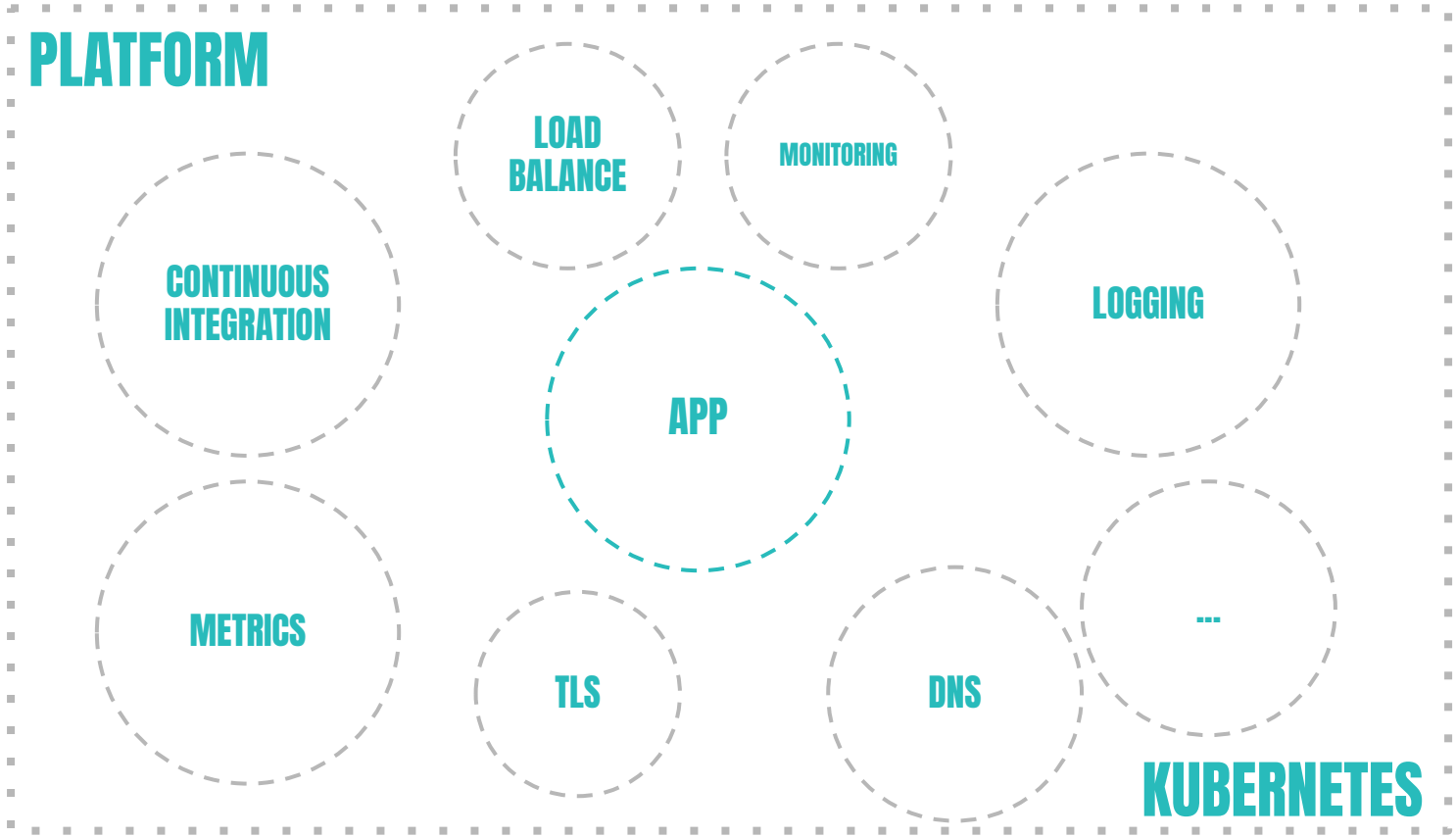
PLATFORM

CONTINUOUS INTEGRATION



KUBERNETES


PLATFORM
CONTINUOUS INTEGRATION
APP
METRICS
localhost:8080/metrics
KUBERNETES


PLATFORM
LOAD BALANCE
MONITORING
CONTINUOUS INTEGRATION
LOGGING
APP
METRICS
TLS
DNS
...
KUBERNETES

CONVENTIONS

DOCUMENT

NETWORK

LOAD BALANCER

SECURITY

MONITORING

LOGGING

CONTINUOUS INTEGRATION

STAGING

PRODUCTION

WRITE BUSINESS LOGIC


WRITE
BUSINESS
LOGIC

BUY VS BUILD

AUTONOMY

PLATFORM DELIVERS A PRODUCT

CONTAINER ORCHESTRATION
AS A SERVICE



kubernetes

CLUSTER MANAGEMENT



kubernetes

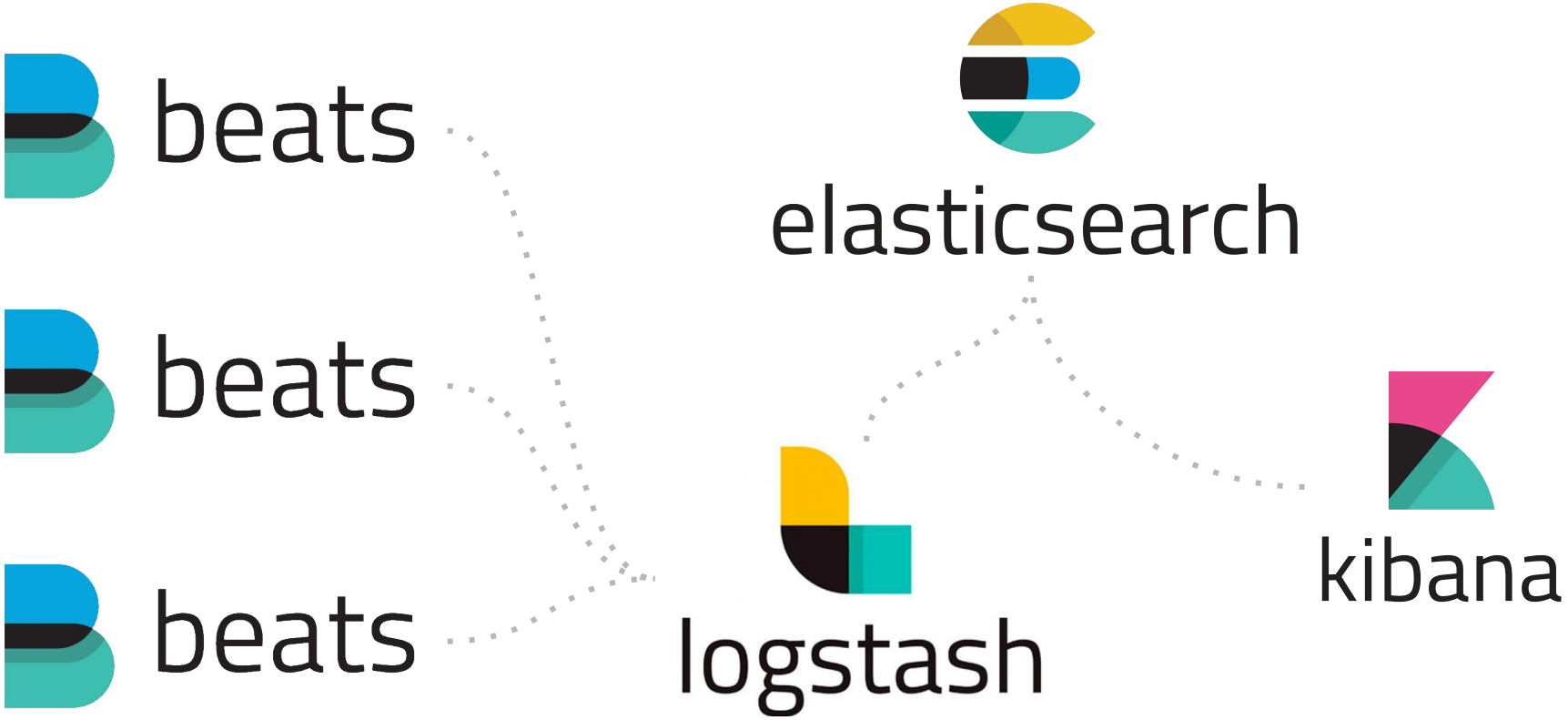
2 TEAMS

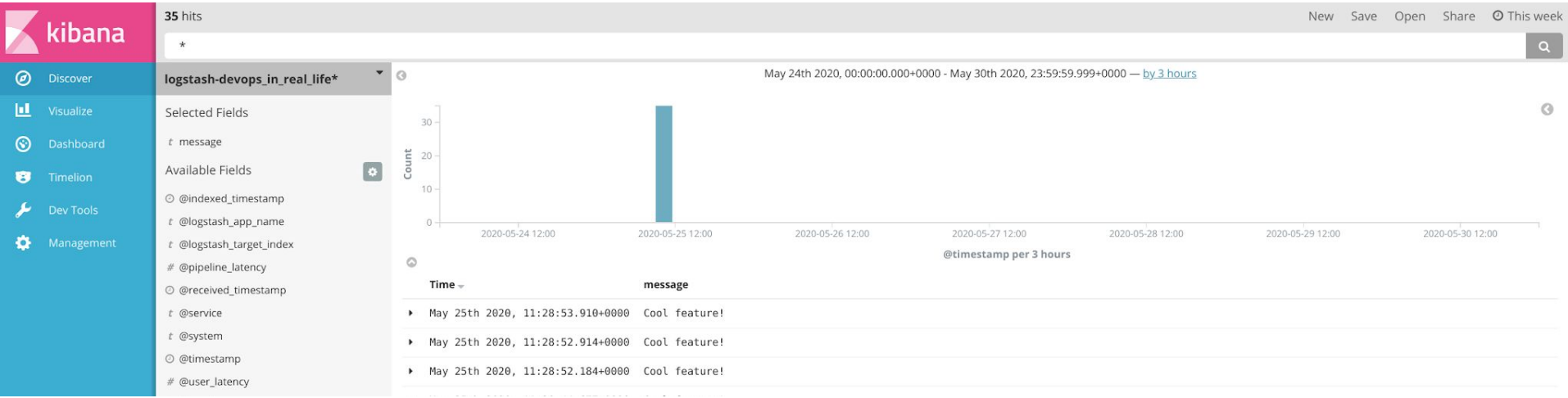
<10 SERVICES

10-20 NODES

~6 NAMESPACES

AUTOMAGICAL LOGS HARVESTING


beats
beats
beats
elasticsearch
logstash
kibana

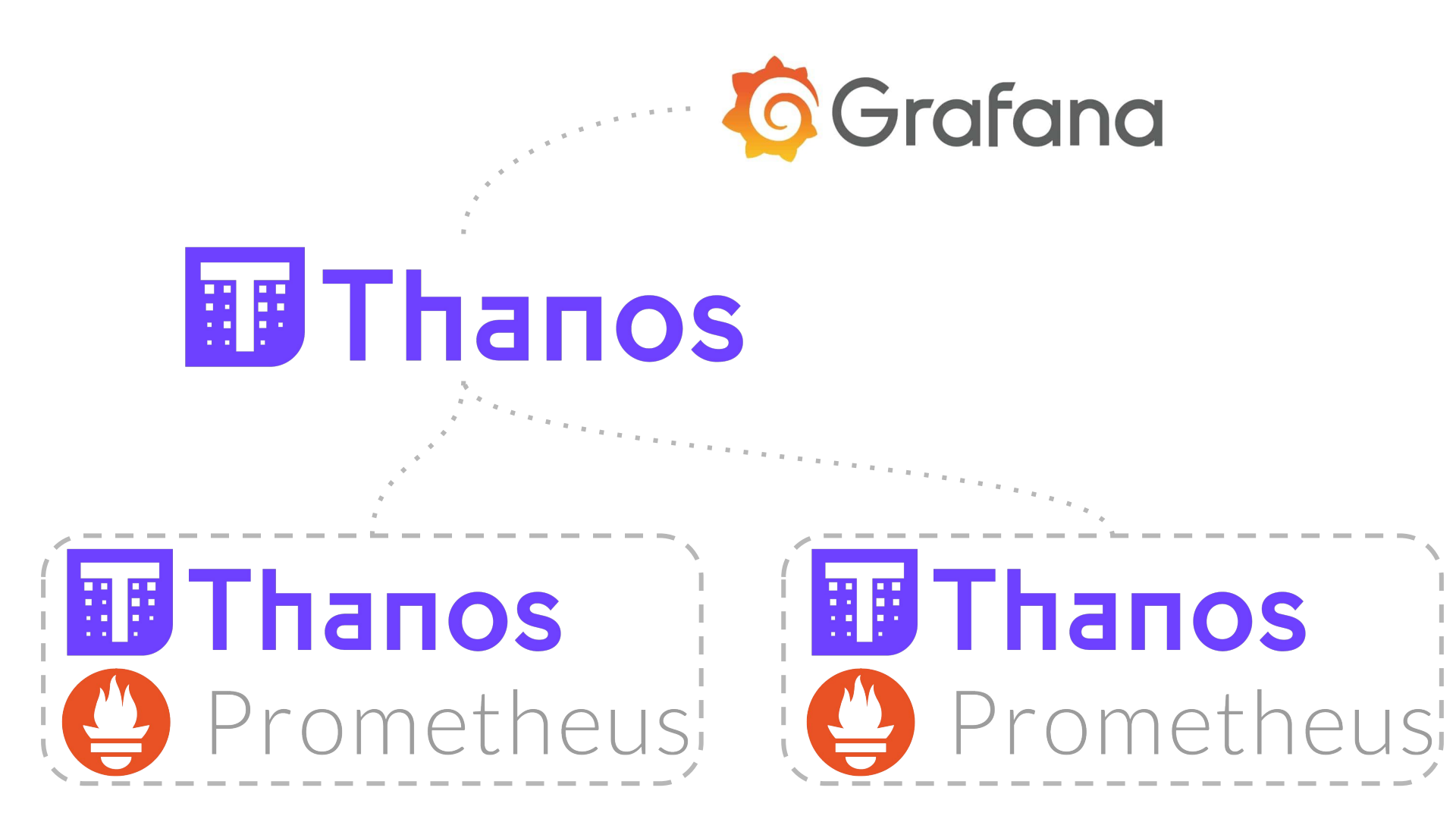


240 TB

~300k logs/s

32 days

AUTOMAGICAL METRICS HARVESTING

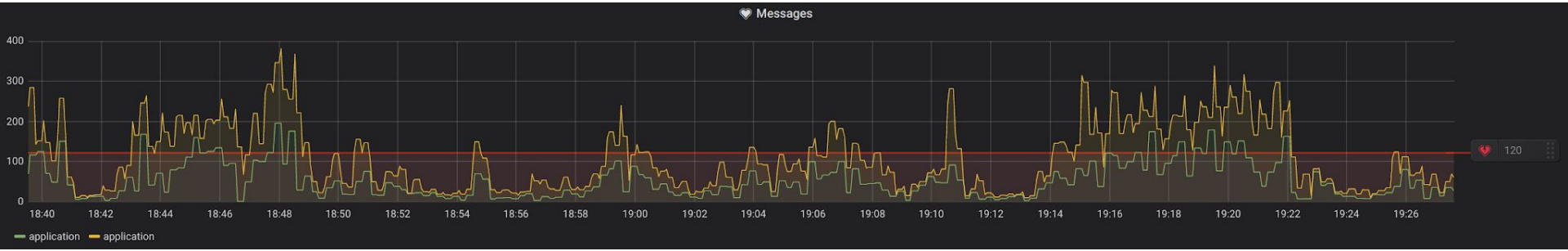

Grafana
Thanos
Thanos
Prometheus
Thanos
Prometheus


Grafana


Thanos


Thanos
Prometheus


Thanos
Prometheus


Messages
400
300
200
100
0
18:40
18:42
18:44
18:46
18:48
18:50
18:52
18:54
18:56
18:58
19:00
19:02
19:04
19:06
19:08
19:10
19:12
19:14
19:16
19:18
19:20
19:22
19:24
19:26
120
application
application



kubernetes

~30 TEAMS

1100 SERVICES

300-400 NODES

~100 NAMESPACES

COLLABORATION

CONTINUOUS IMPROVEMENT

LESSONS LEARNED

CULTURE

PLEASE TELL US YOUR STORY

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QUESTIONS?

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