TRENDING: Google Fi's winners & losers · New products of the week · Everest avalanche kills Google engineer · Resources/White Papers

NETWORKWORLD Most read:

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UPDATE: Amazon.com suffers outage: Nearly $5M down the drain?

Amazon.com, the major online retailer, is down for 49 minutes

By Brandon Butler | Follow

Network World | Jan 31, 2013 4:55 PM PT

Facebook
@facebook

Yesterday, as a result of a server configuration change, many people had trouble accessing our apps and services. We've now resolved the issues and our systems are recovering. We're very sorry for the inconvenience and appreciate everyone's patience.

5:24 PM · Mar 14, 2019 · Twitter Web Client

2.6K Retweets **9.8K** Likes

Quelle: https://www.evolven.com/blog/downtime-outages-and-failures-understanding-their-true-costs.html1

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Observability with Elastic

Tatjana Frank, Solutions Architect

21.05.2019

Observability?

What is Observability?

It can be defined as ...

"... a measure of how well the internal states of a system can be inferred from knowledge of its external outputs."

https://en.wikipedia.org/wiki/Control_theory → Observability is not new and comes from the system control theory!

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What is Observability?

Just a better monitoring?

No, it is much more:

- It is an approach to see the IT Landscape, running IT Services that are consumed by users/machines, as a “system” that needs to be monitored as a **whole**

- … and Observability is a Journey that needs time to develop!

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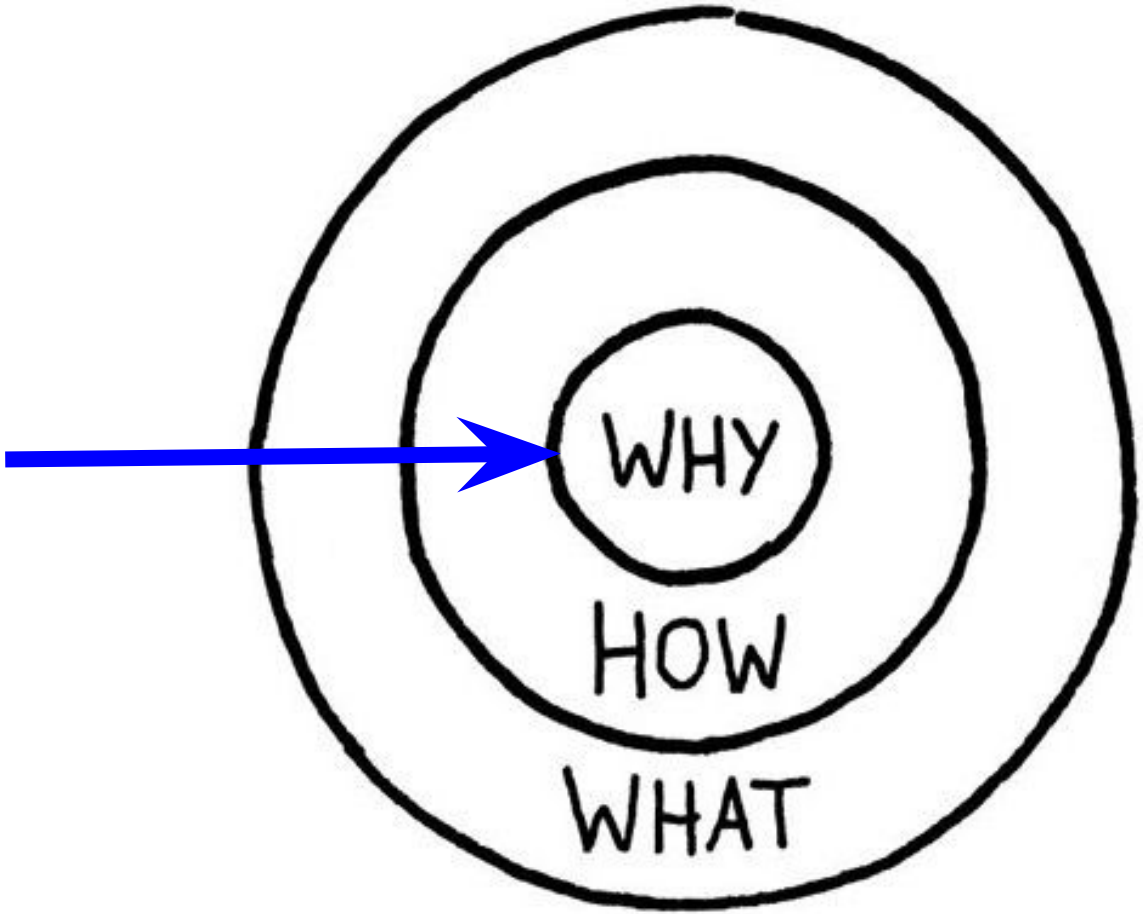
Elastic is a **search company**

Observability is a search use case



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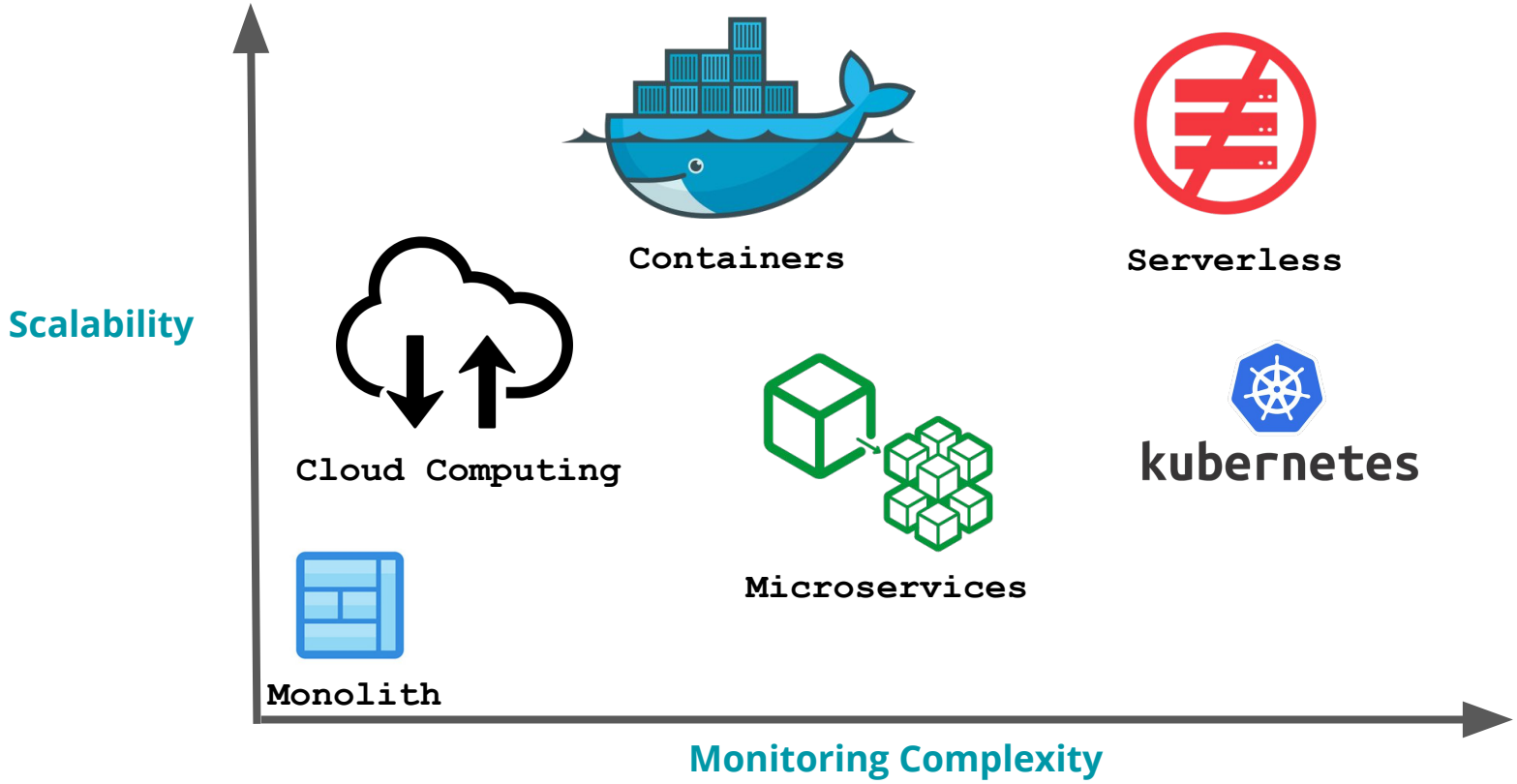
Architecture complexity



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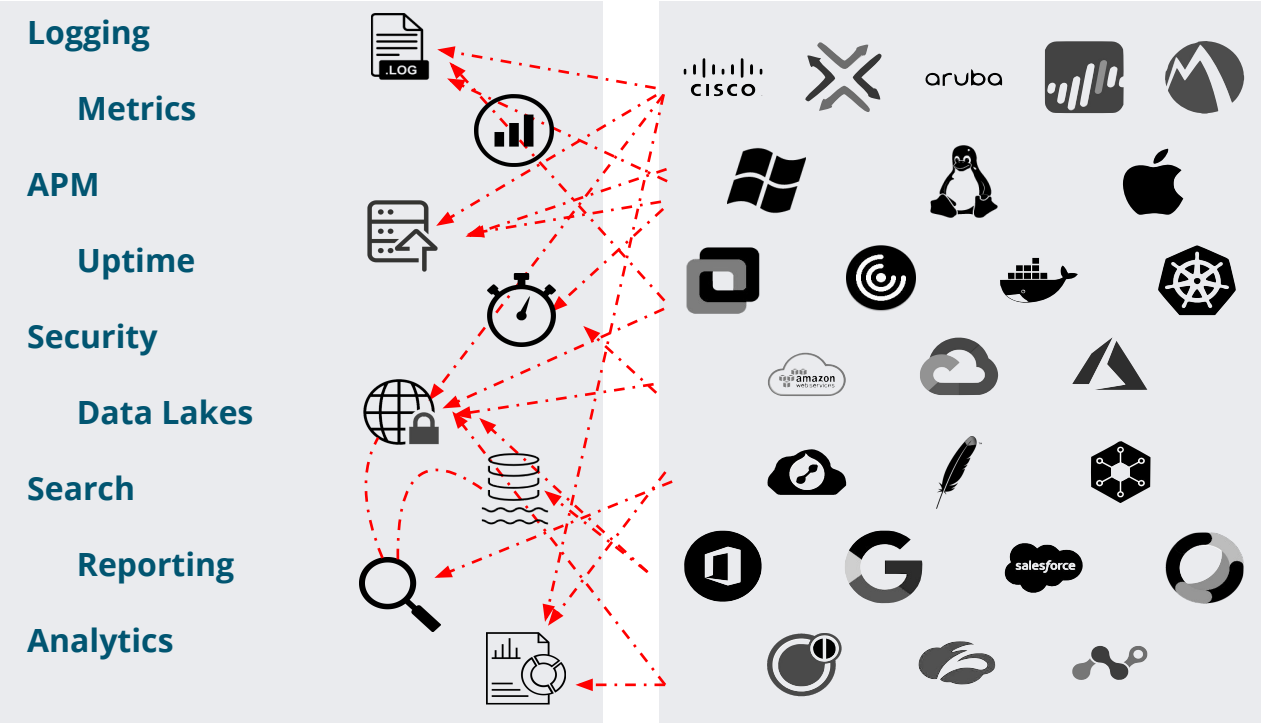
Overall complexity



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Status Quo : Siloed Collection of Tools

Development Team

APM Tool

Real User Monitoring
Txn Perf Monitoring
Distributed Tracing

Ops: Monitoring Team

Uptime Tool

Uptime
Response Time

Ops:Monitoring Team

Metrics Tool

Container Metrics
Host Metrics
Database Metics
Network Metrics
Storage Metrics

Ops: Logging Team

Logs Tool

Web Logs
App Logs
Database Logs
Container Logs

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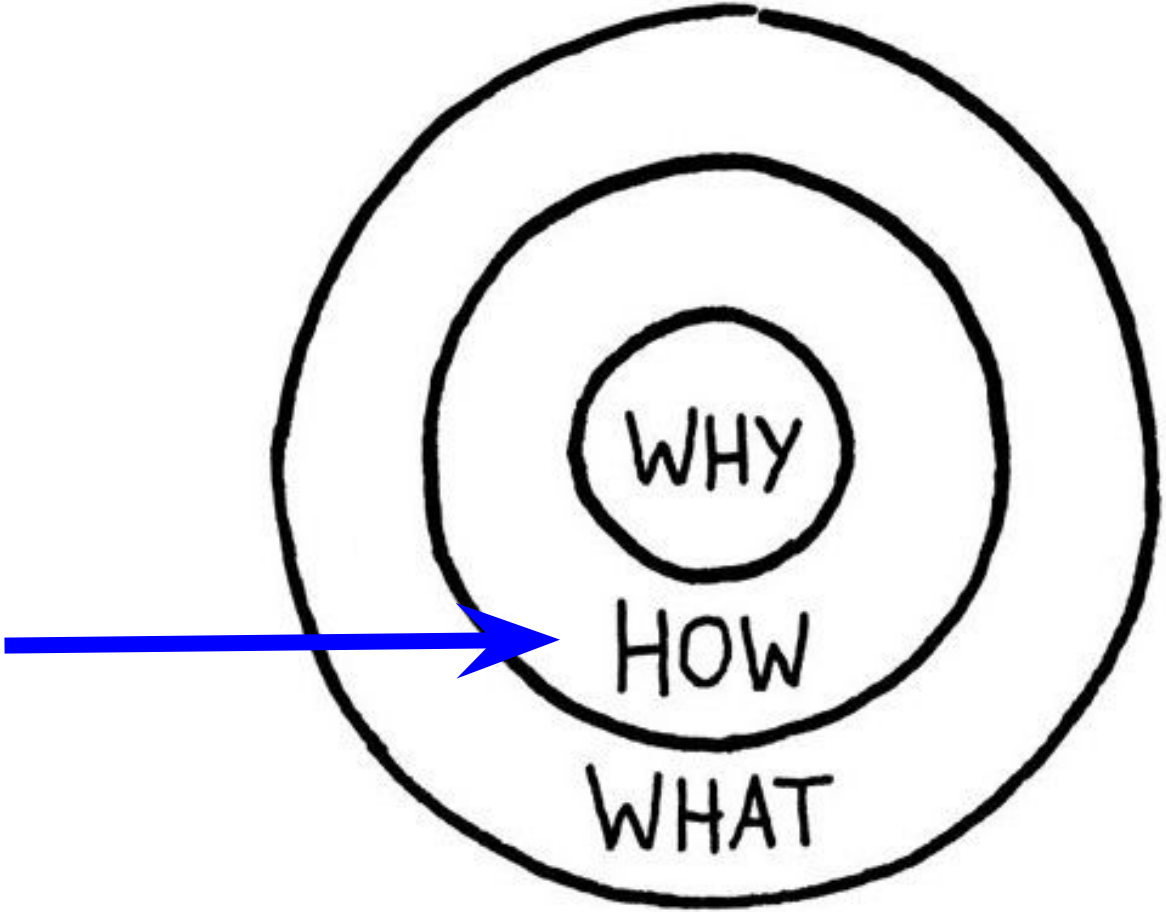

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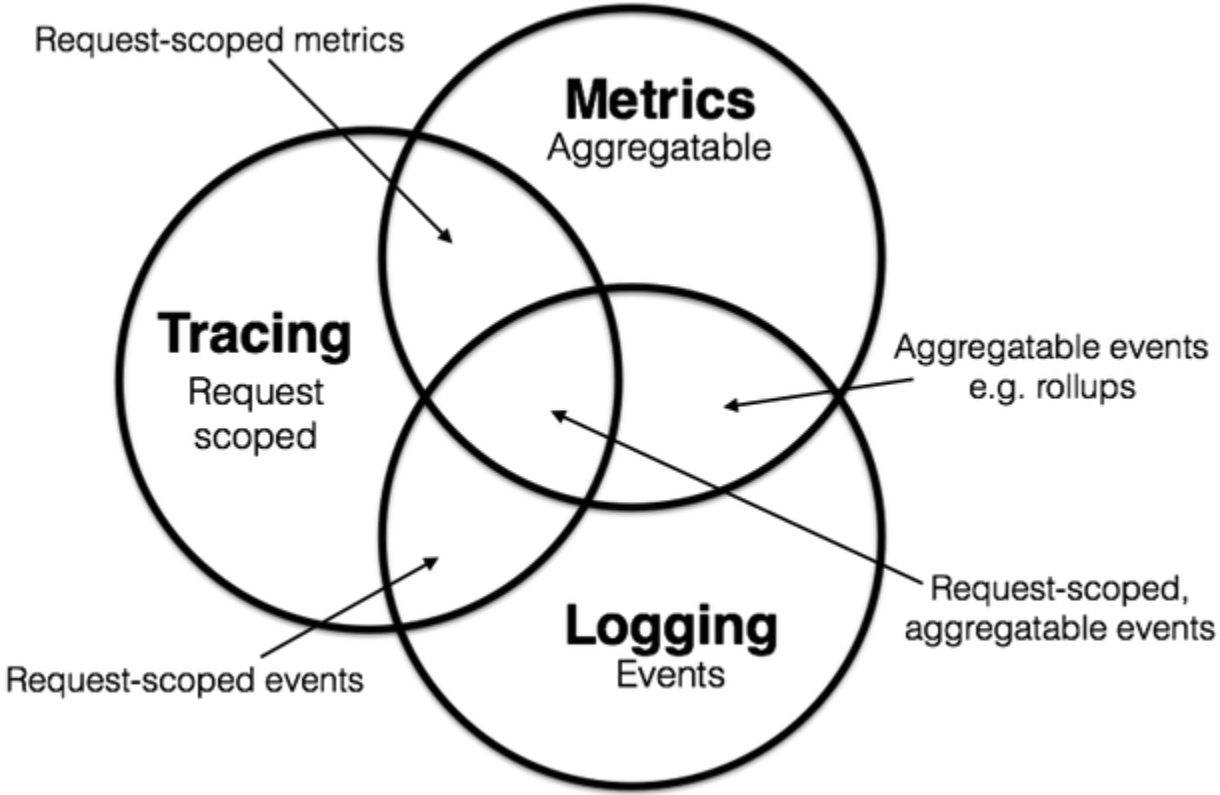
3 Pillars of Observability : Logging, Metrics and APM



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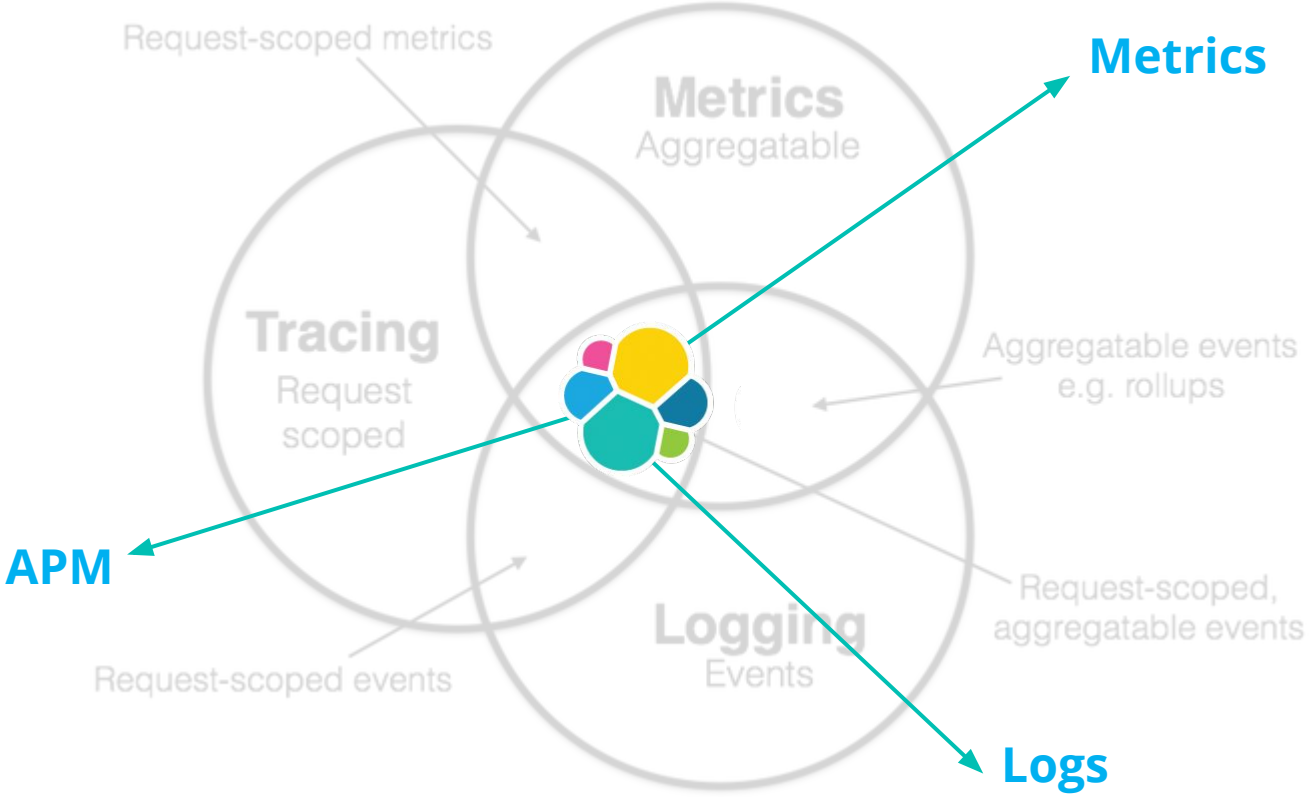

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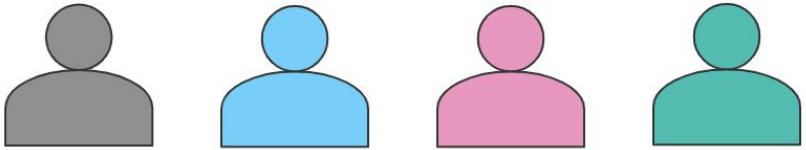
Elastic Approach to Observability

Dev & Ops Teams



APM Data	Uptime Data	Metrics Data	Log Data
Real User Monitoring Txn Perf Monitoring Distributed Tracing	Uptime Response Time	Container Metrics Component Metrics Host & Network Metrics Database & Storage Metrics	Web Logs App Logs / Database Logs Container Logs PaaS Component Logs

Kibana

Elasticsearch

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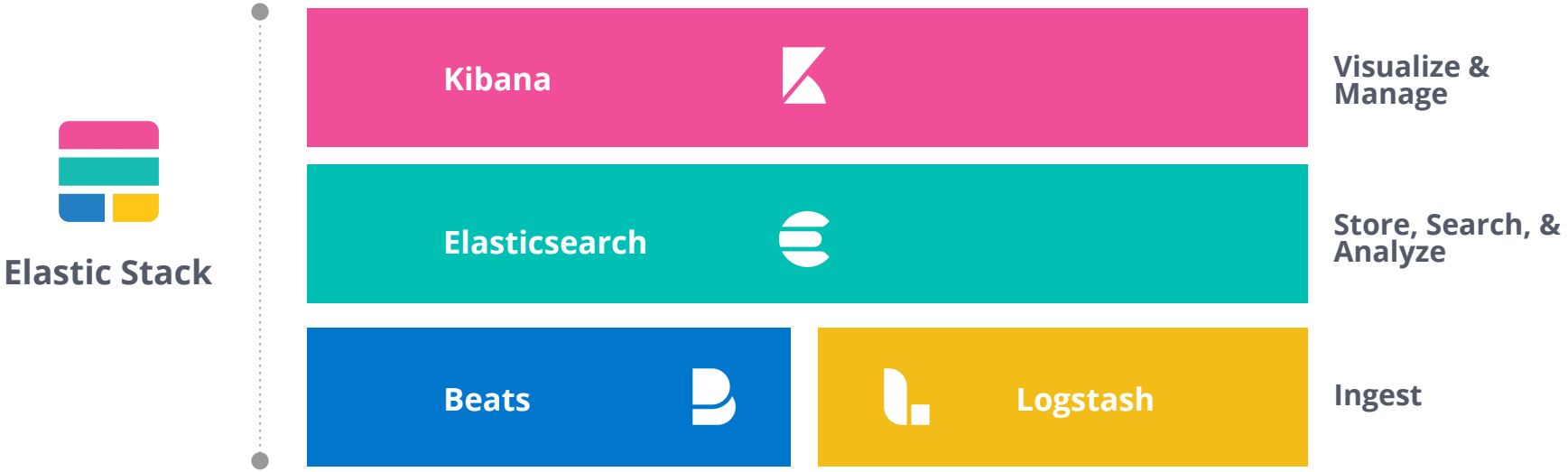
Elastic **Stack**



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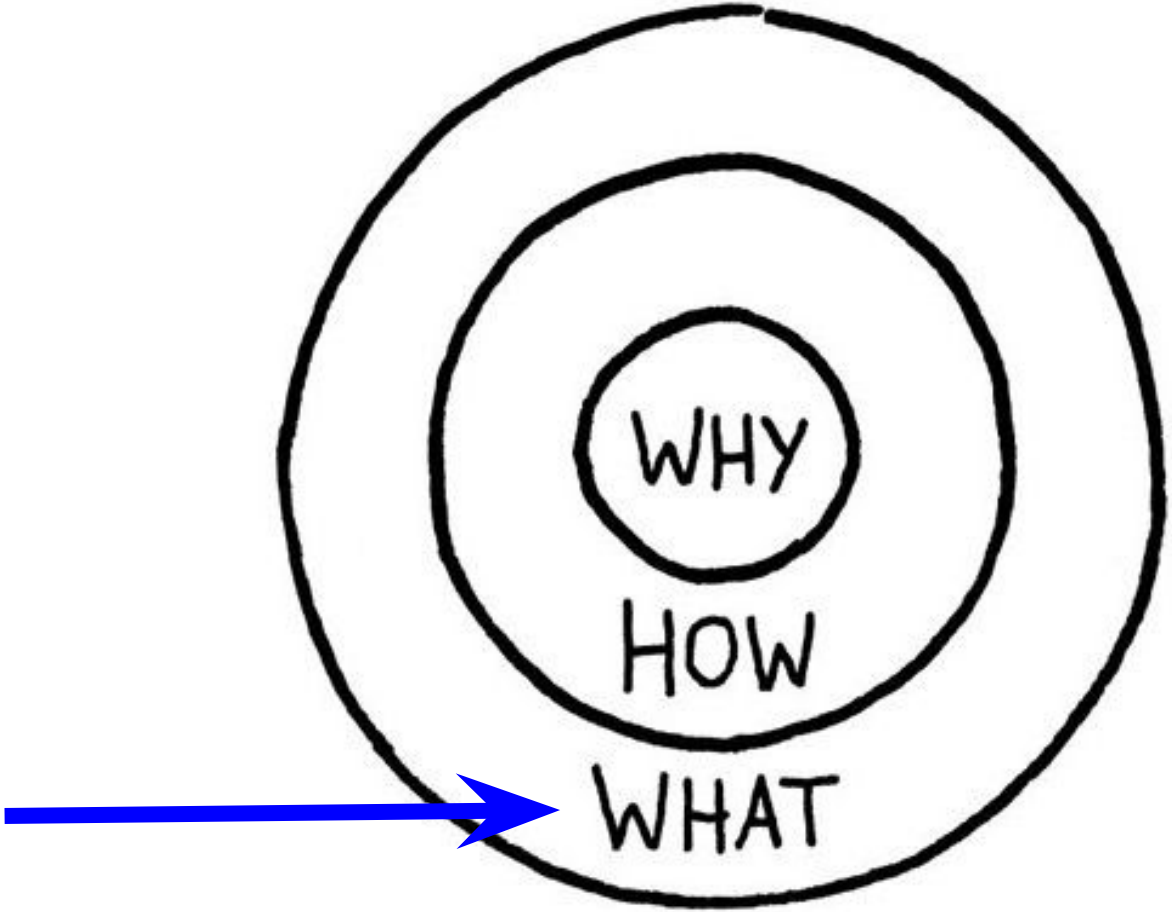

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Operational Monitoring

Unify Logs + Metrics + APM

Ingest

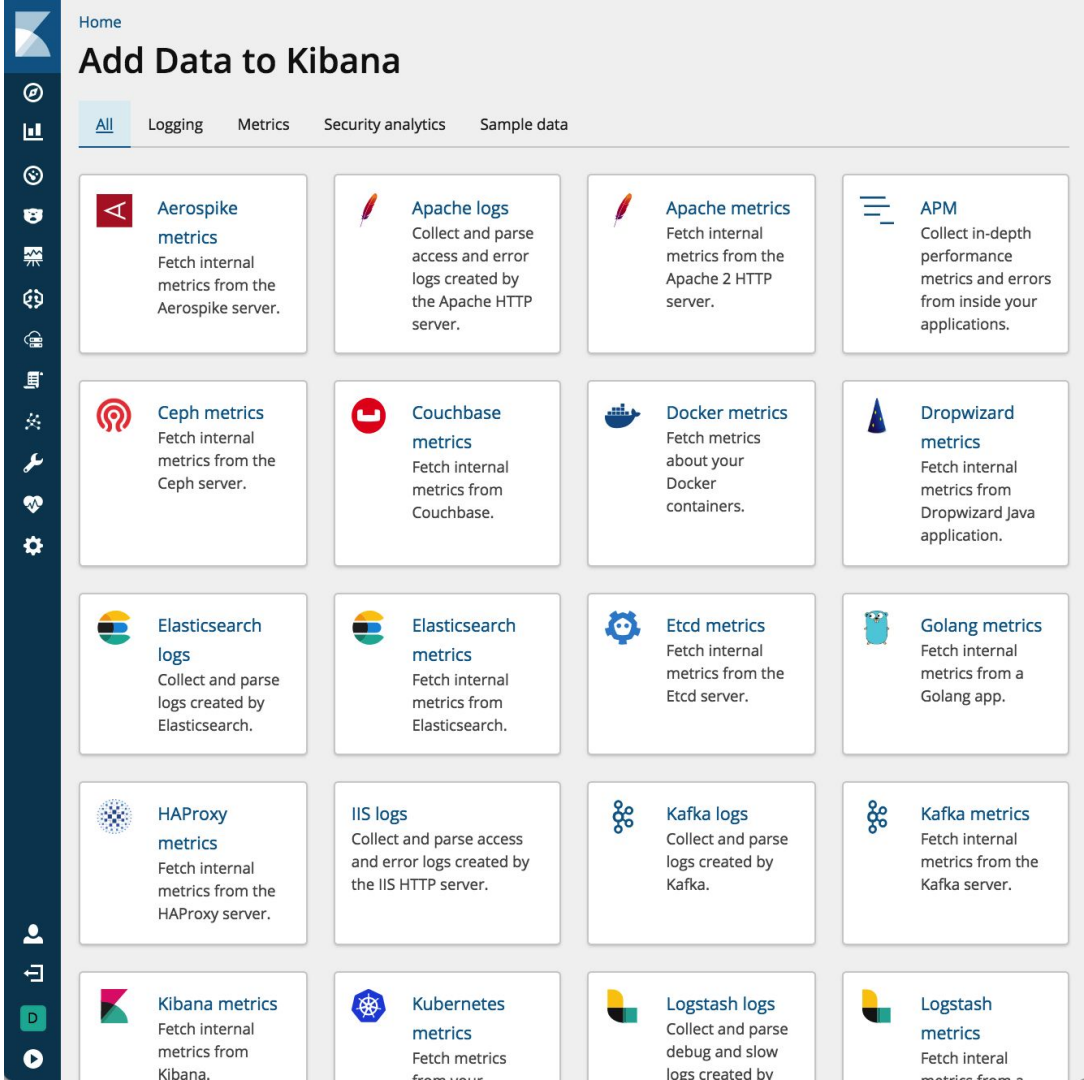
Rich ecosystem of connectors
Extensible ingest pipelines
Developer friendly APIs

Exploration

Turnkey solution UIs
OOTB dashboards
Live presentations

Analytics

Anomaly detection
Trending & forecasting
Flexible alerting tools



Logs Solution

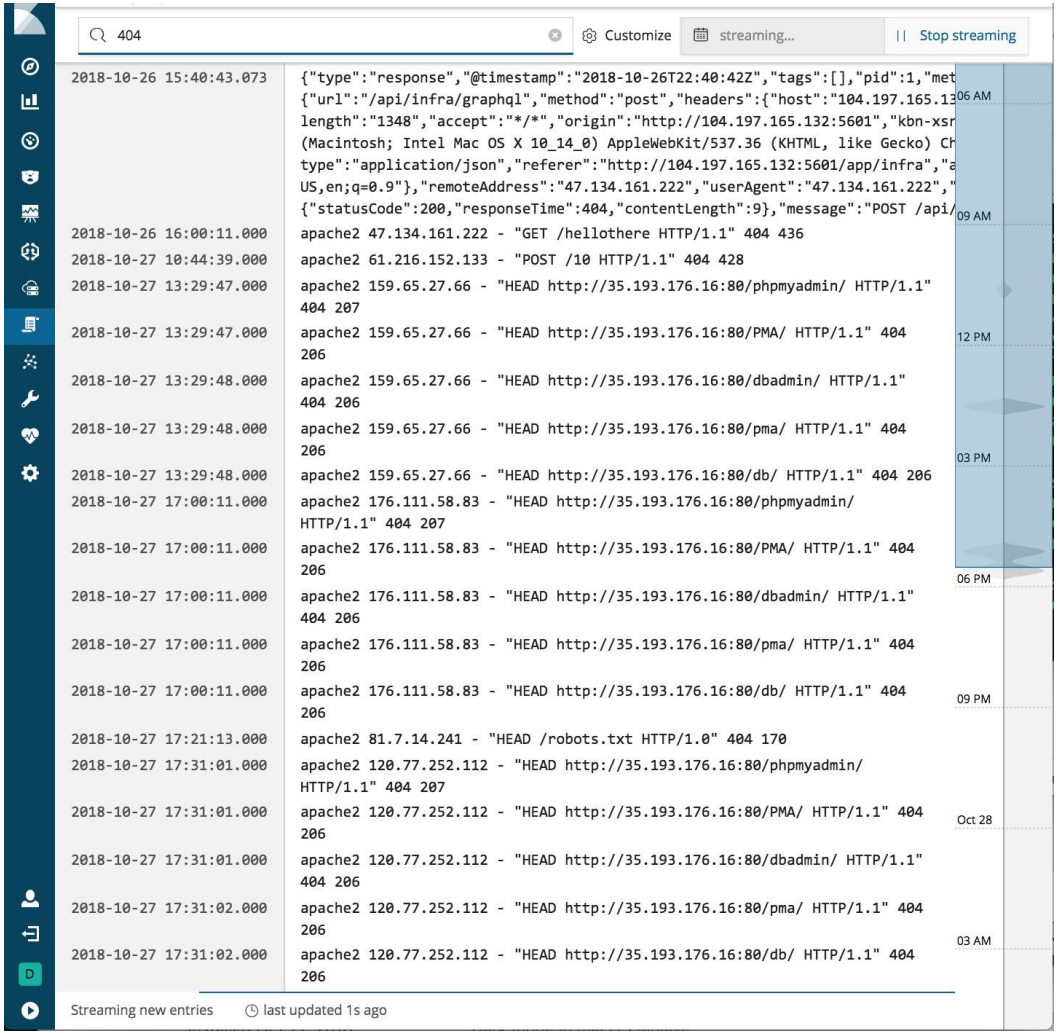
Compact log viewer optimized for live log event troubleshooting

Console-like display

Live log streaming (like tail -f)

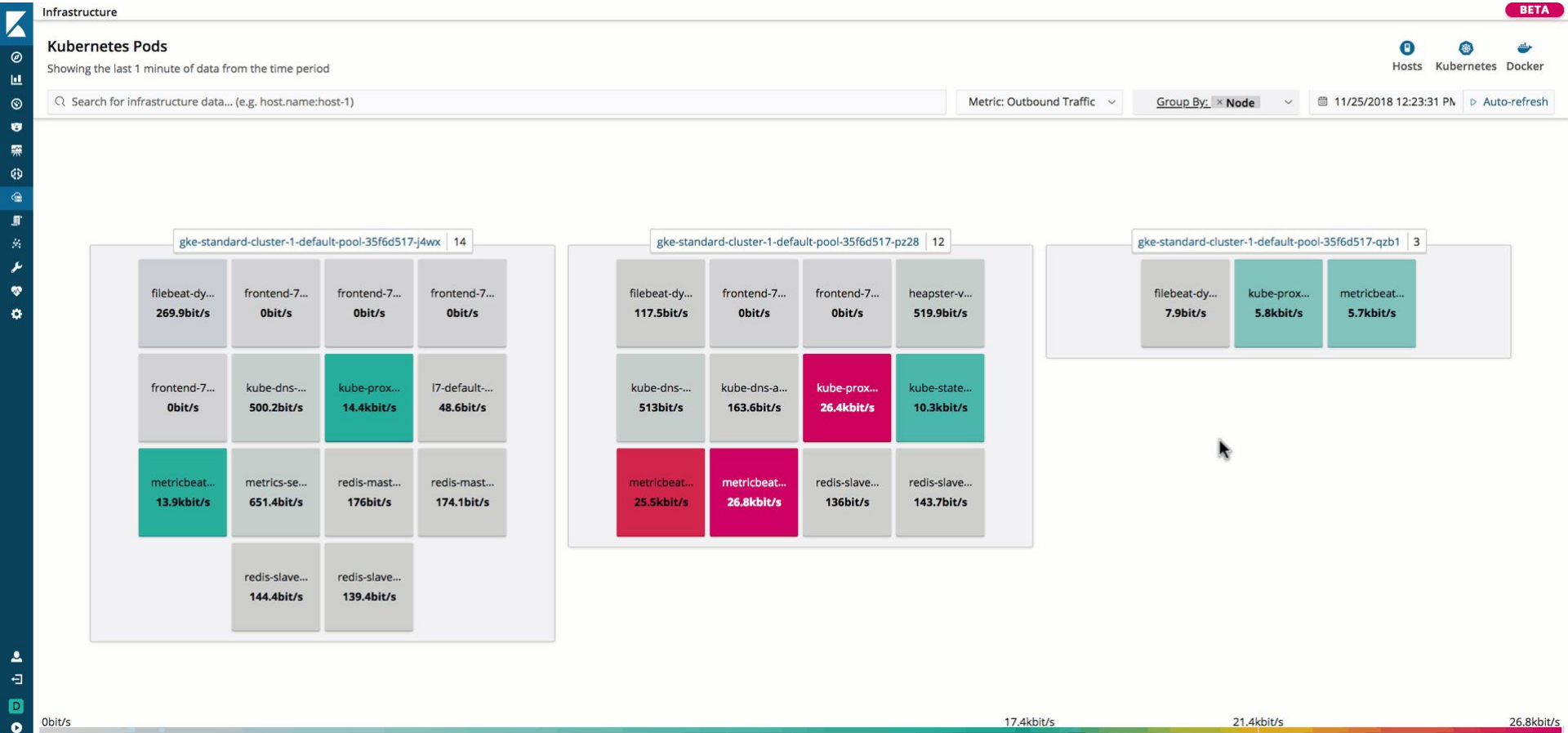
Infinite scroll for historical logs

Ad hoc and structured search



Infrastructure Metrics

Unify your infrastructure monitoring (logs, metrics, and traces) in one place



APM

Unify Logs + Metrics + APM

Open Source

Language & Agents

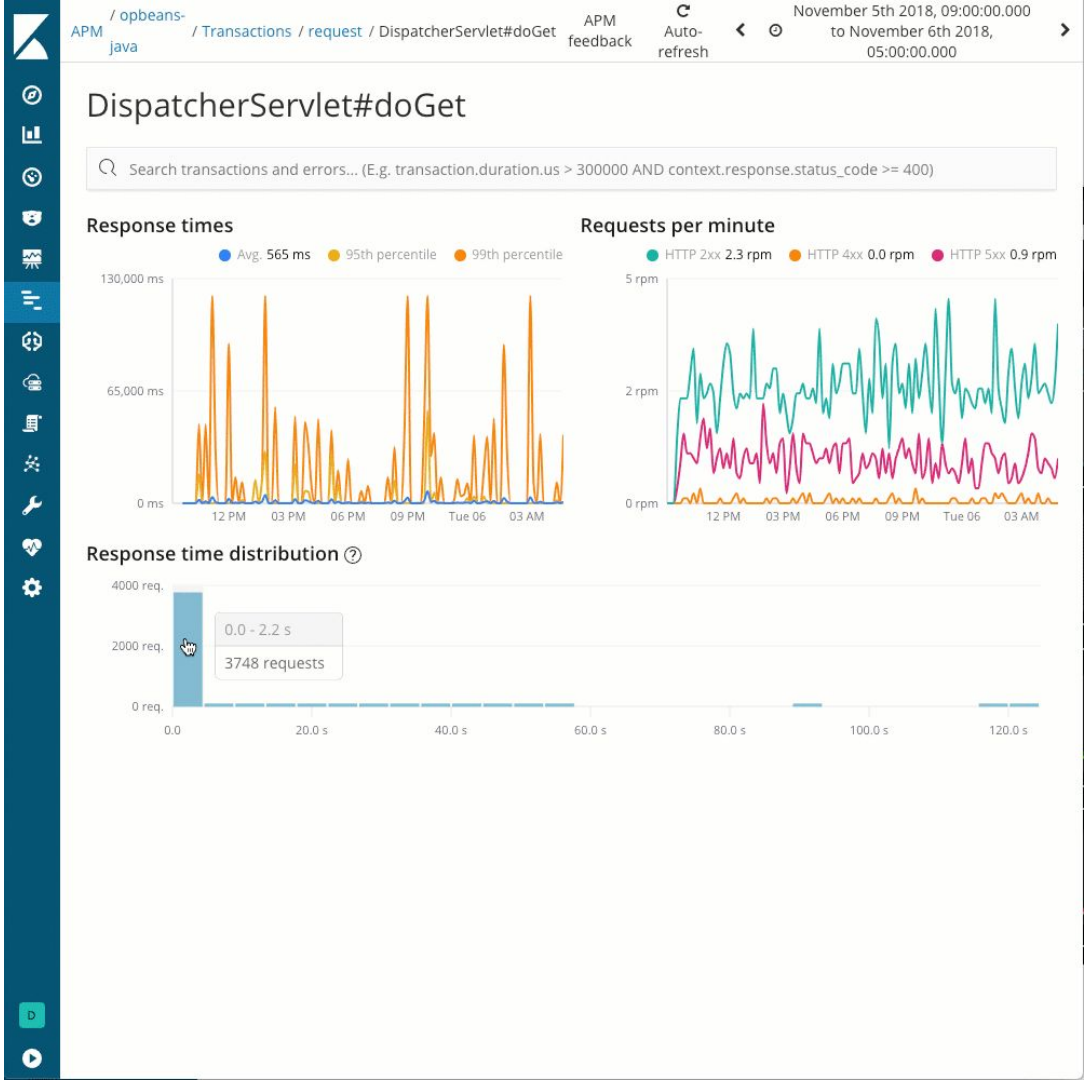
Java, Go, RUM, Node, Python, Ruby, and more on the way.

Dedicated UIs

Streamline APM workflows
Distributed tracing

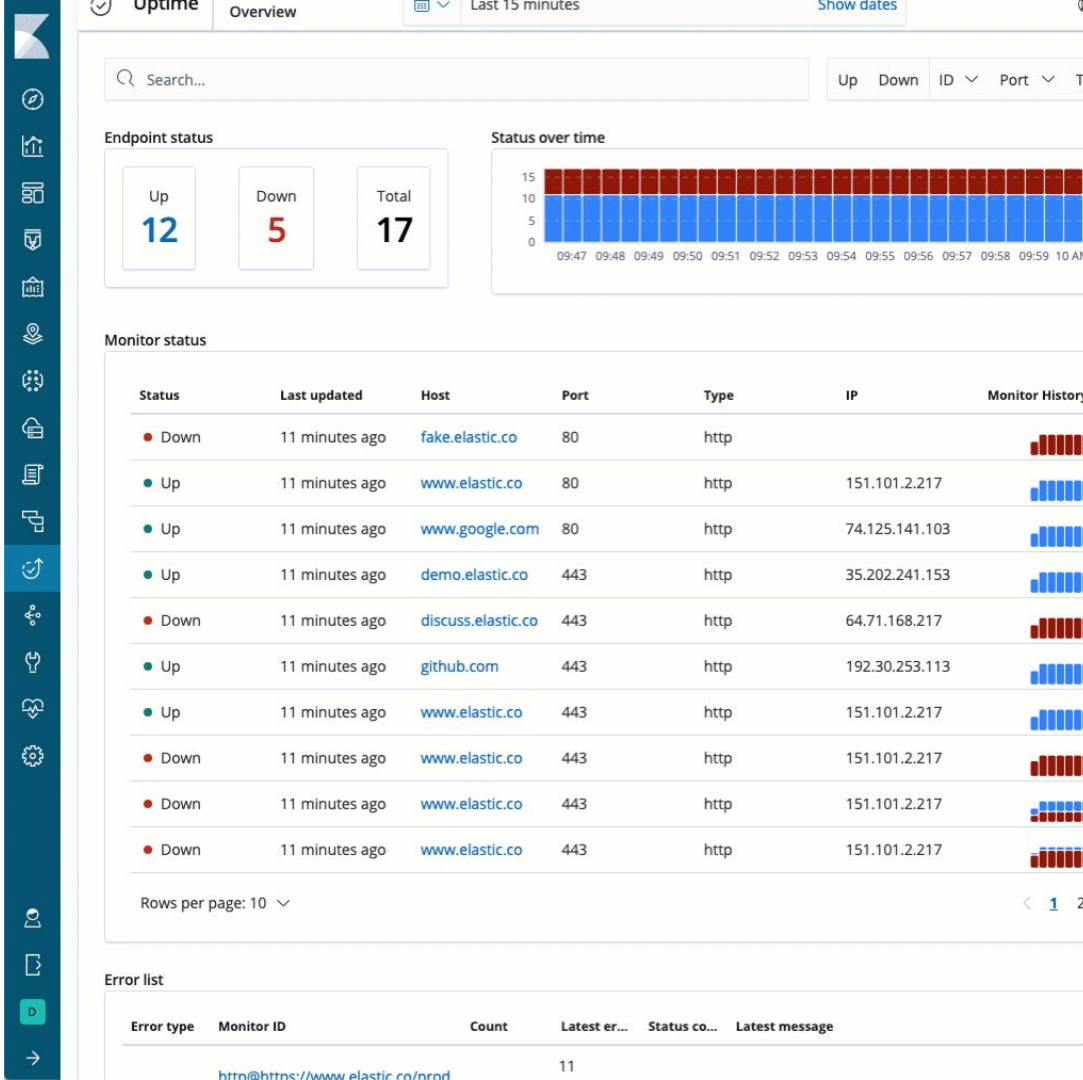
Just Another Index

Correlate with other data
Leverage all stack features



Elastic Uptime Solution

- UI for Heartbeat data
- Track the availability of key systems
- Check response codes, text content, and headers
- Verify TCP services availability and correctness
- Check API availability and correctness



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Thank you!

Demo