What's new in Elastic APM? A whole lot!

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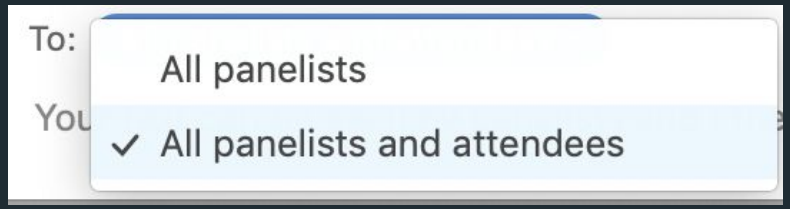
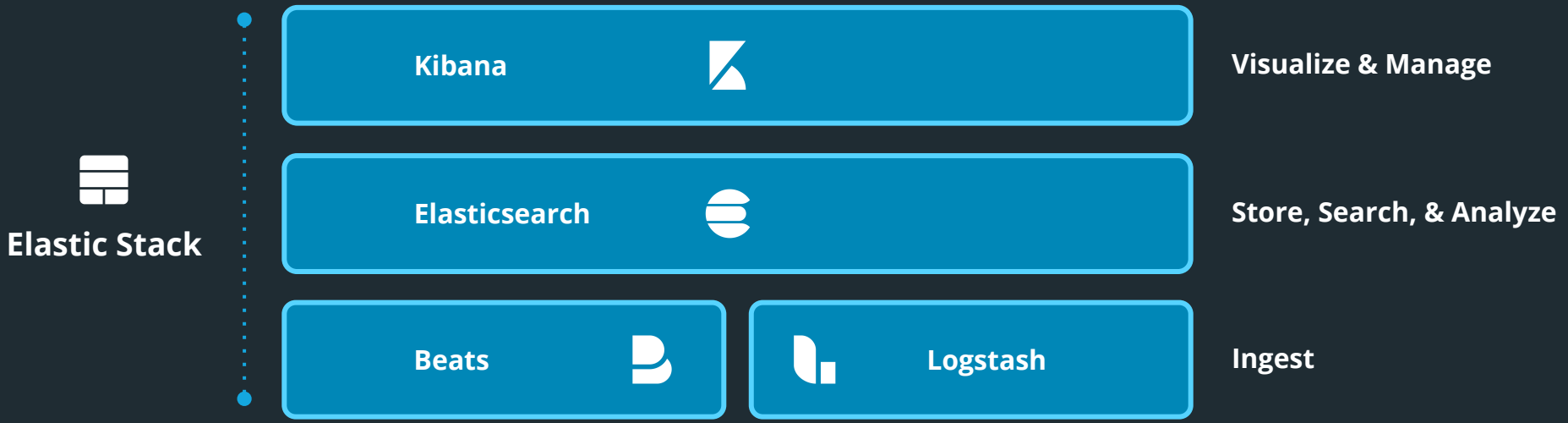
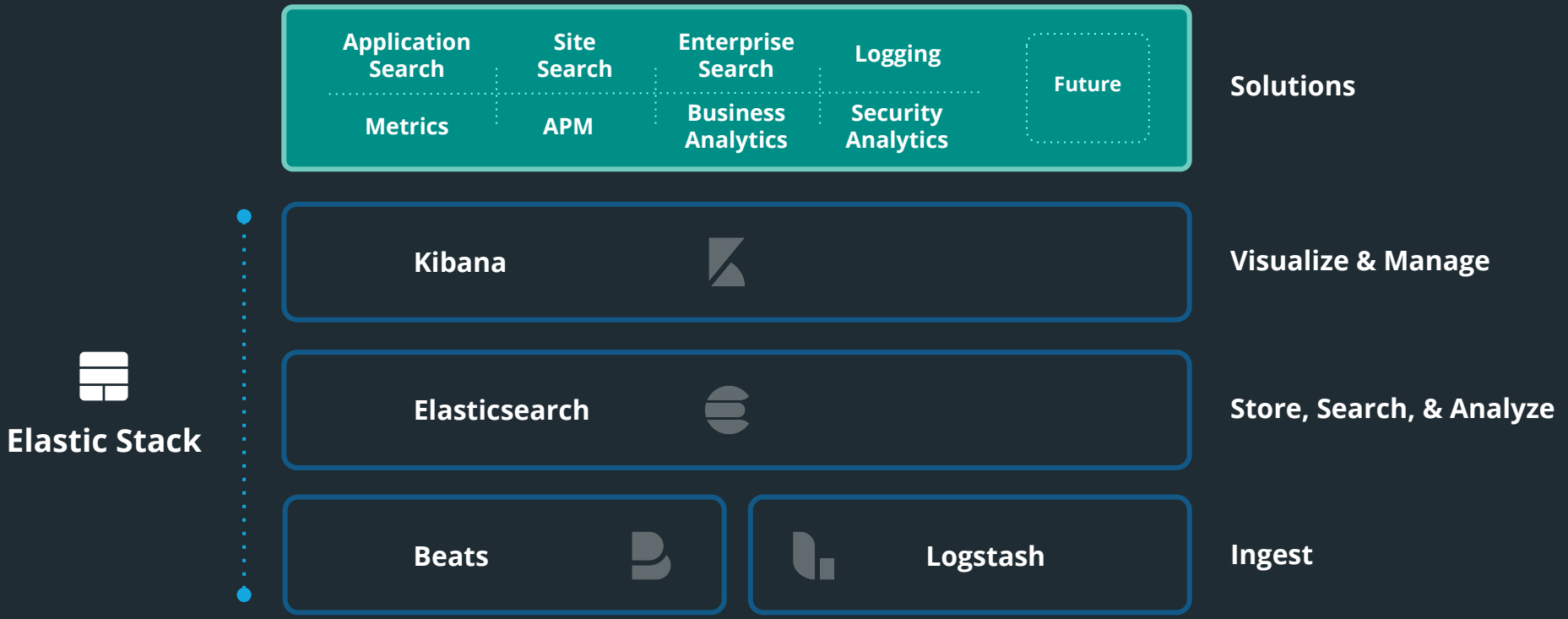
Housekeeping & Logistics

- Attendees are automatically muted when joining Zoom
- Q&A will be at the end of the webinar
  - Ask questions for us in the Zoom chat during the webinar
  - Set chat settings **To: All panelists and attendees**



  - Ask more questions on our discuss forum: **discuss.elastic.co**
- **Recording** will be available after the webinar and emailed to all registrants


Elastic Stack
Kibana
Visualize & Manage
Elasticsearch
Store, Search, & Analyze
Beats
Logstash
Ingest


Application Search
Site Search
Enterprise Search
Logging
Metrics
APM
Business Analytics
Security Analytics
Future
Solutions
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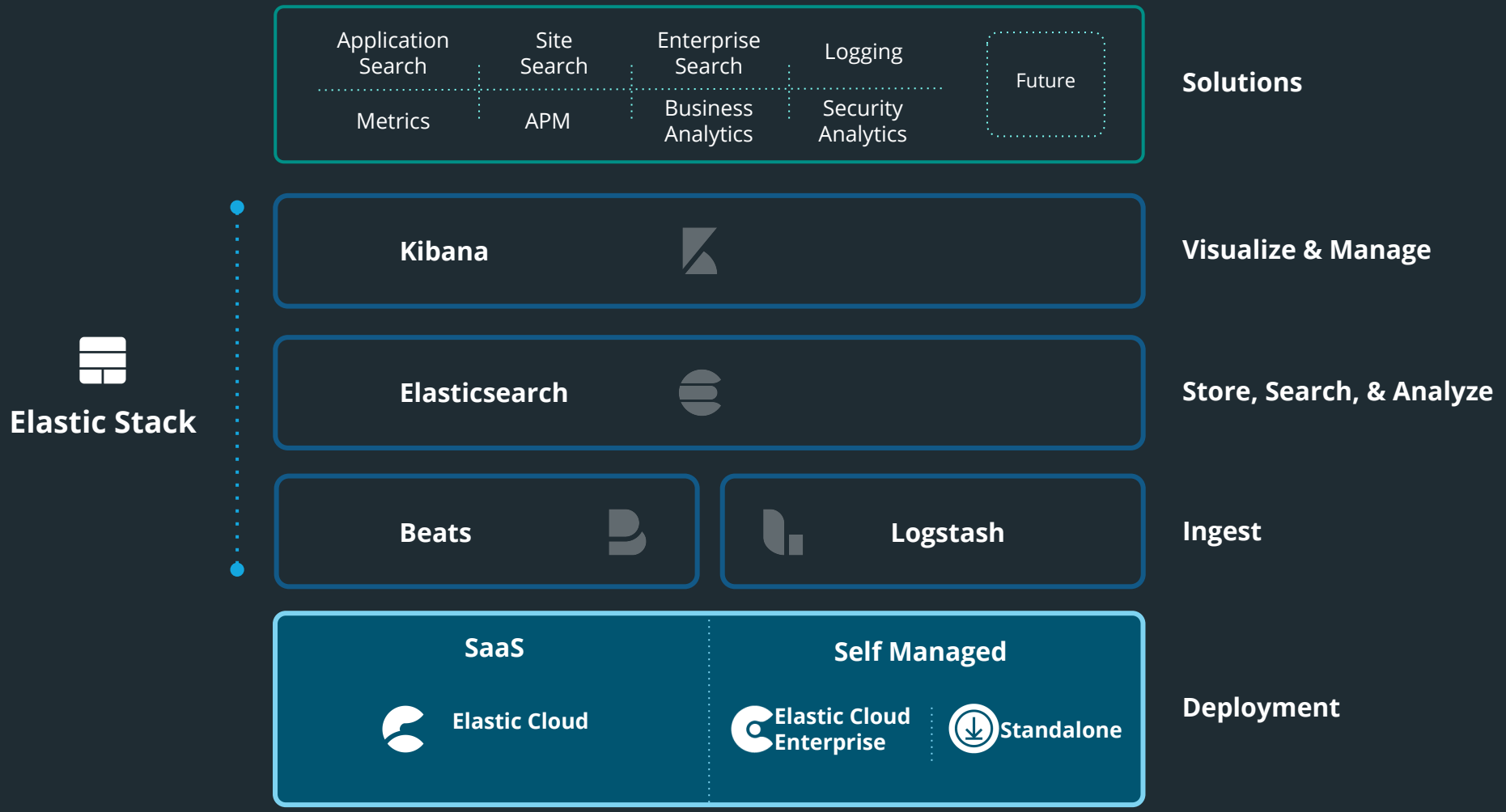
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SaaS
Elastic Cloud
Self Managed
Elastic Cloud Enterprise
Standalone
Deployment

SaaS

Elastic Cloud

Elasticsearch Service

Elastic Site Search Service

Elastic App Search Service

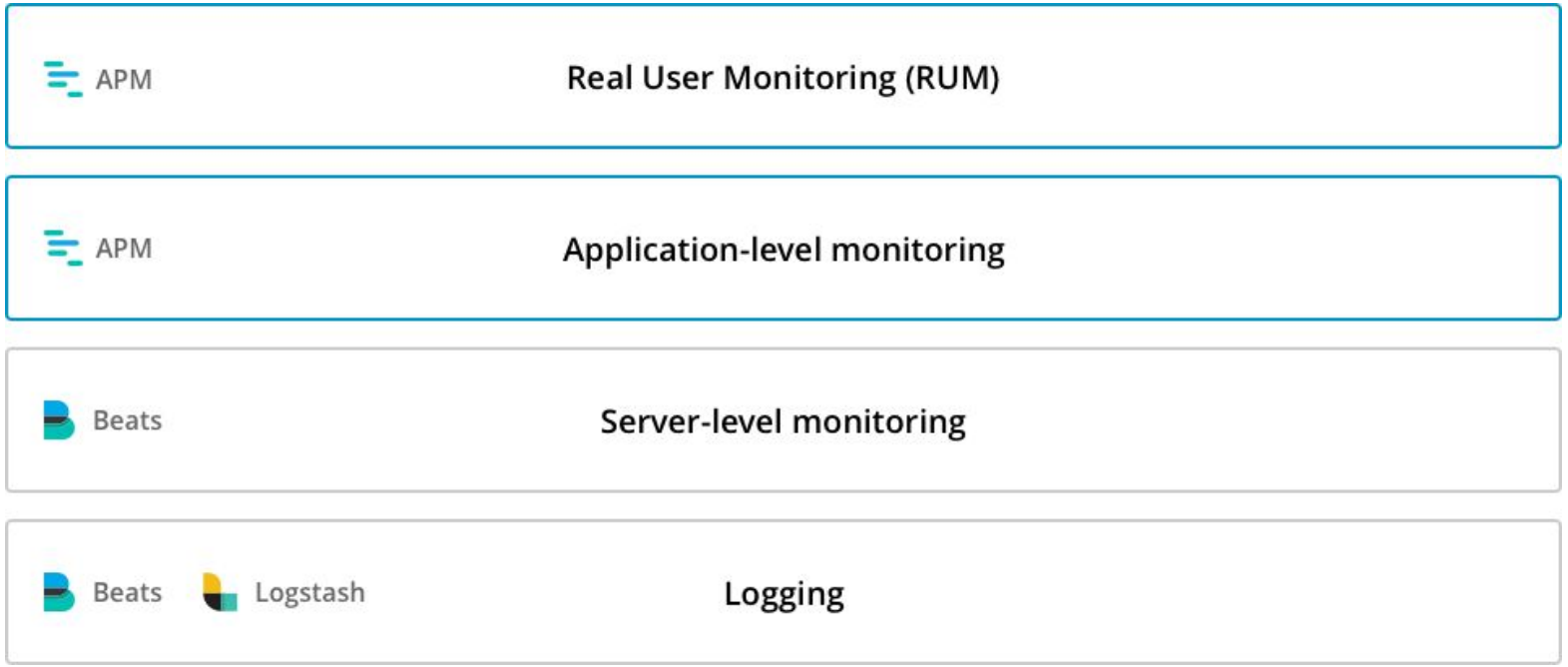
Self Managed

Elastic Cloud Enterprise

Standalone

Monitoring with Elastic

Full-stack observability integrated behind a single pane of glass



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Application Performance Monitoring (APM)

- **End-to-end visibility**
  - Distributed Tracing. Visualize bottlenecks and how services interact including frontend application
- **Plug and play experience**
  - Out of the box instrumentation of database queries, cache, external requests, etc. for multiple language support: Java, Go, Python, Node.js, Ruby, .NET
- **Correlation with logs and metrics solutions**
  - Integration with log, metrics and application data for deeper troubleshooting
- **Error analysis**
  - Grouped exception tracking

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Themes

Integrations: Unified Logs, Metrics, APM, and Uptime

One-click UI integrations between the monitoring solutions

Even more agent support

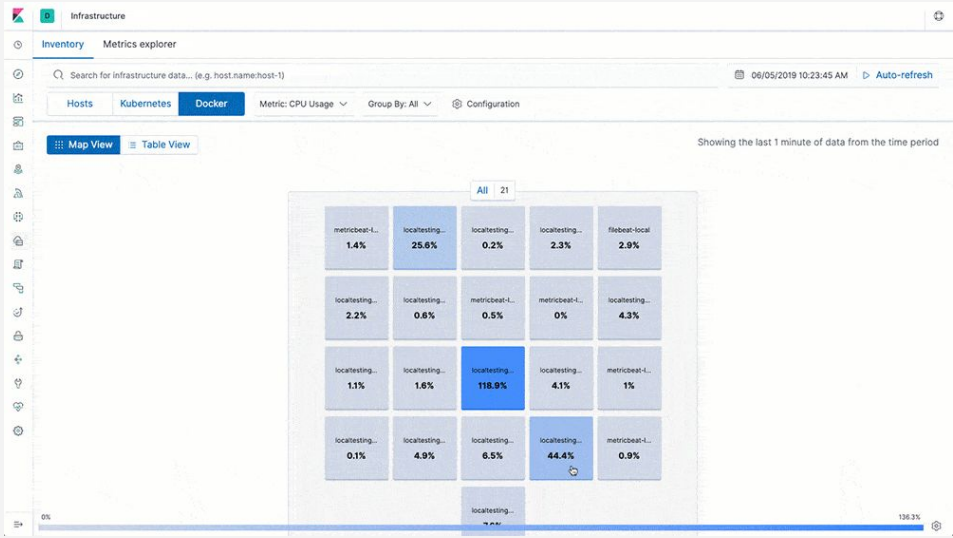
Support for .NET, RUM SPA, more Java frameworks for more turnkey APM & distributed tracing

Troubleshooting capabilities

Aggregate Service Breakdown charts, Agent runtime metrics, related errors in distributed tracing UI, GeoIP & User Agent pipelines

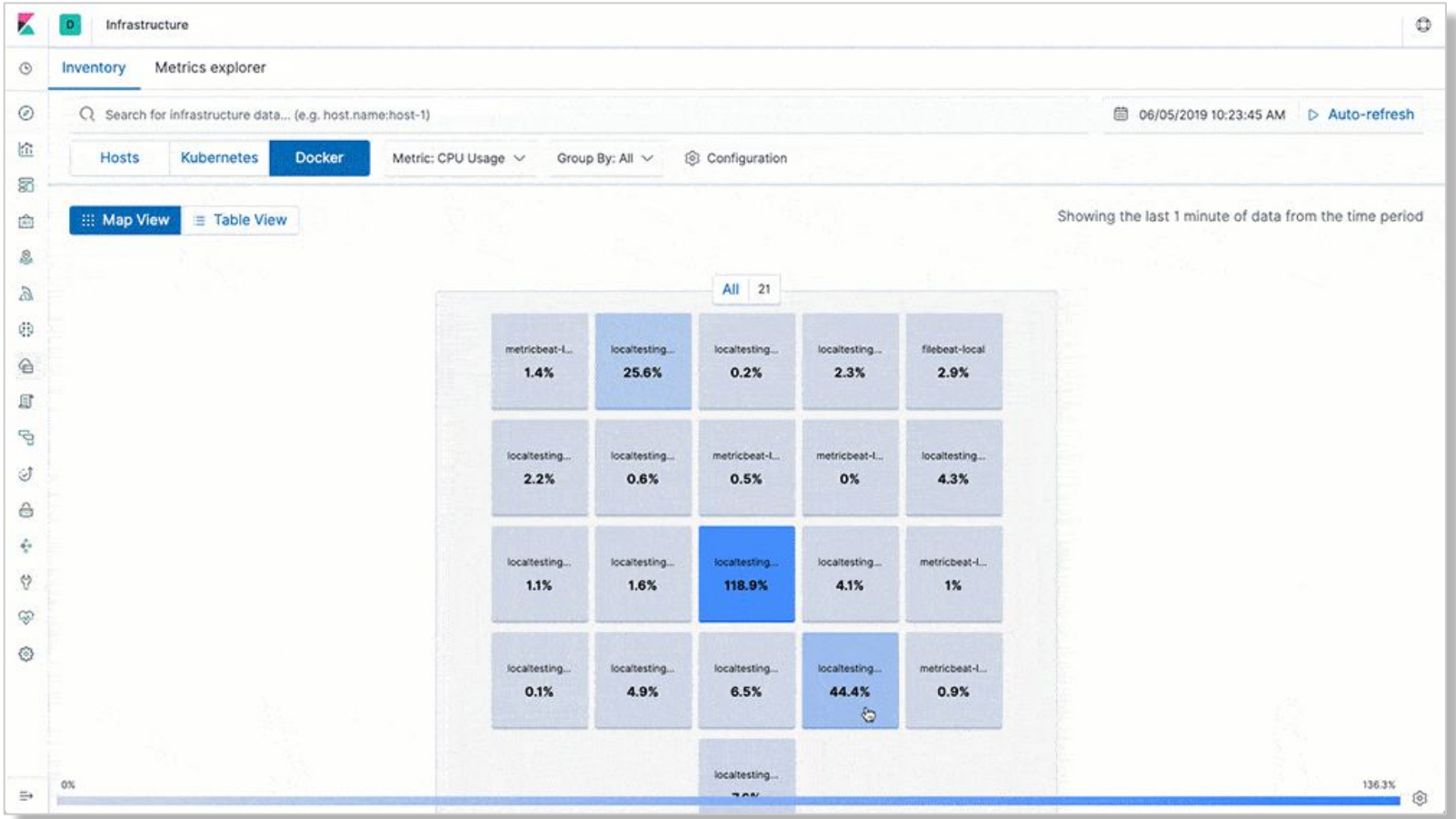
Improved administration options

Support for ILM, Sample Rate configuration from Kibana, andEnvironment Support



Unified visibility across logs, metrics, APM, uptime

One-click integrations between APM, logs and metrics



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Strengthening APM integrations

Agent Updates

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.NET APM Agent

Framework Support

ASP.NET Core 2.x+

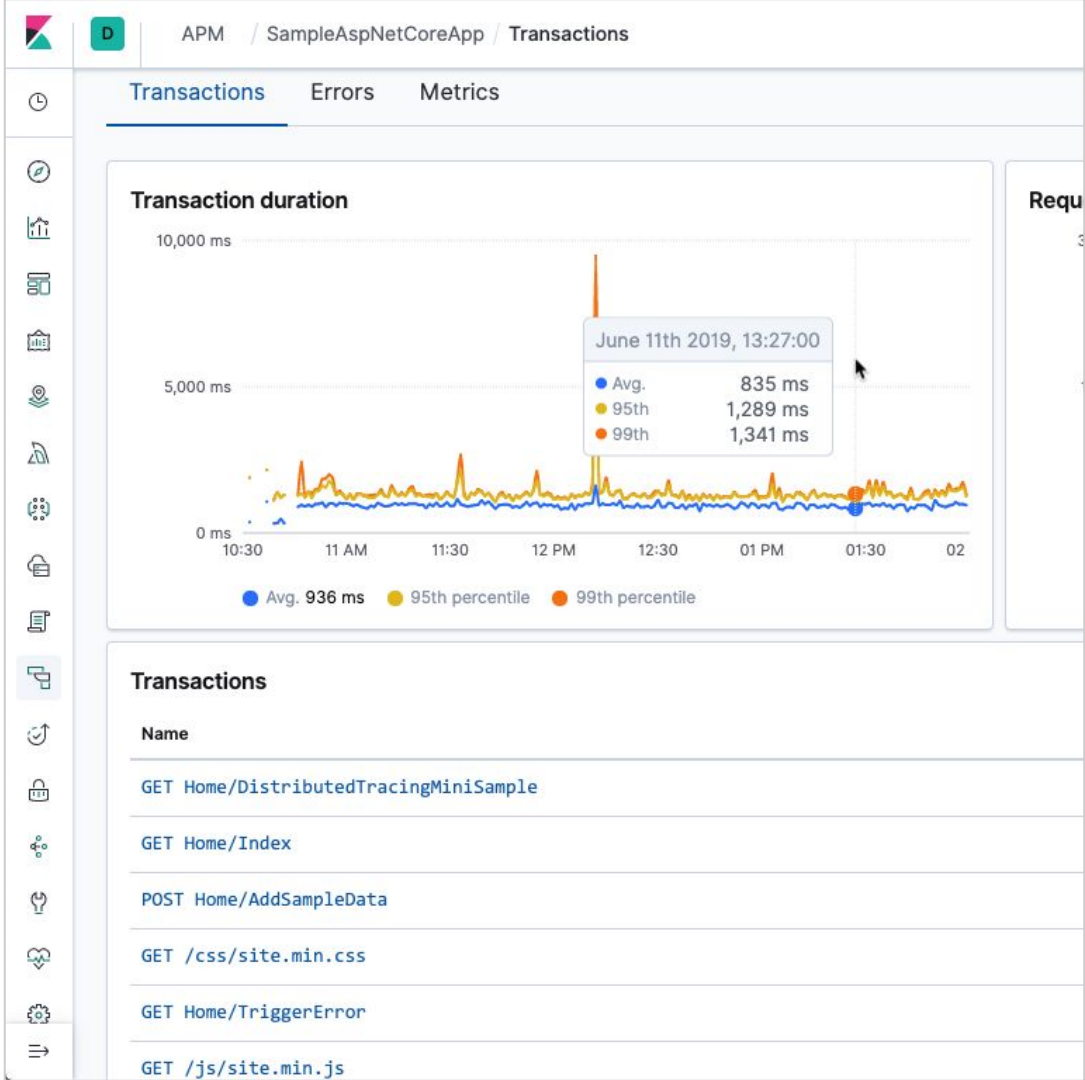
ASP.NET Core is the open-source version of ASP.NET, that runs on macOS, Linux, and Windows

Entity Framework Core 2.x+

Open-source, cross-platform version of Entity Framework, to support development of data-oriented software applications

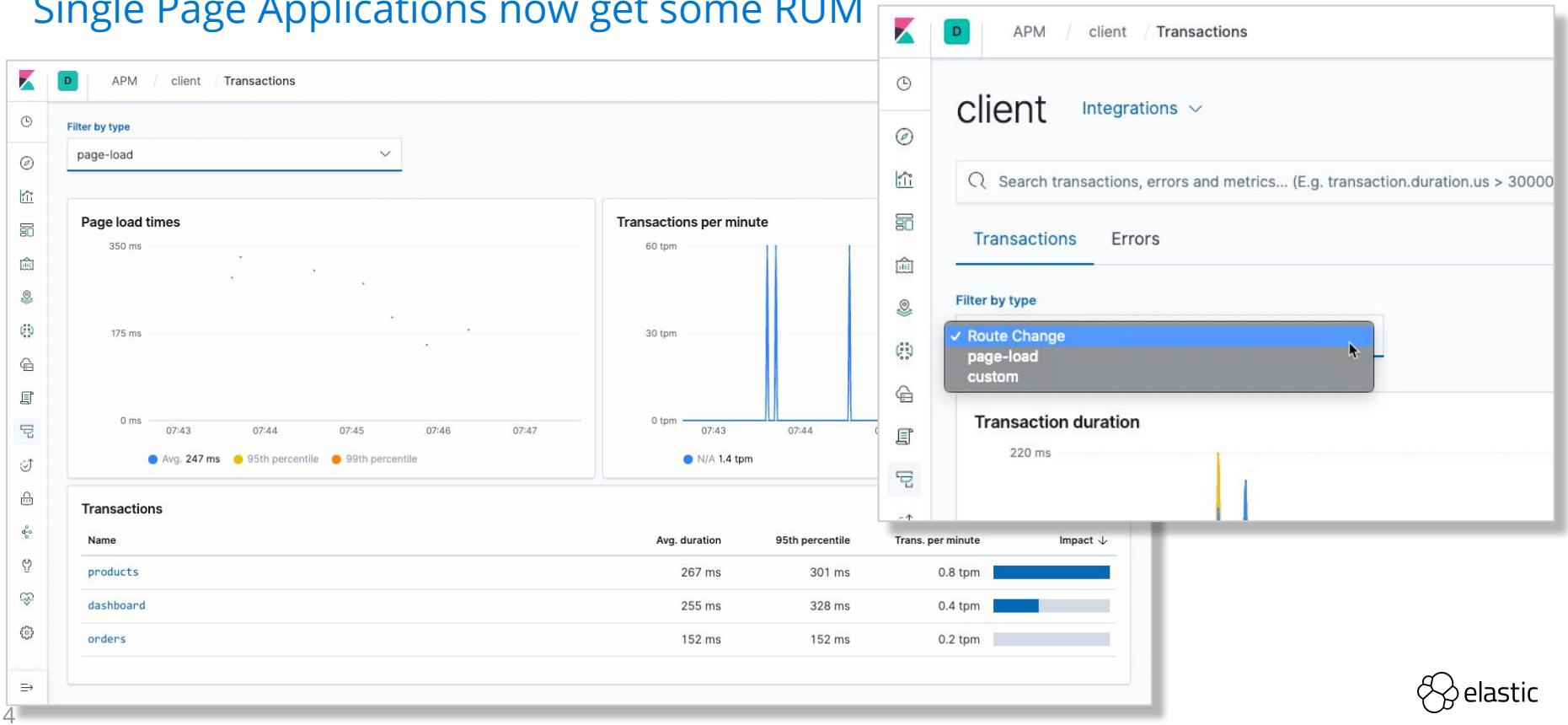
Public Agent API

For other frameworks



RUM Agent - React SPA support

Single Page Applications now get some RUM



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Additional troubleshooting capabilities

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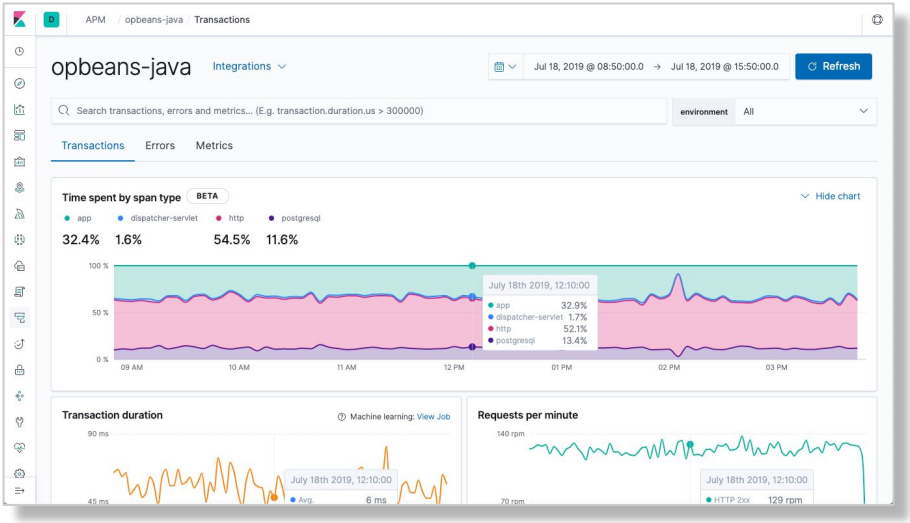
Aggregate Service Breakdown Charts

Birds-eye view of where your app spends time

- Identify performance bottlenecks by visualizing aggregate time spent in app code, database or external call
- Automatically collected
- Available in Beta for all agents (except .NET and Ruby)



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Agent Runtime Metrics

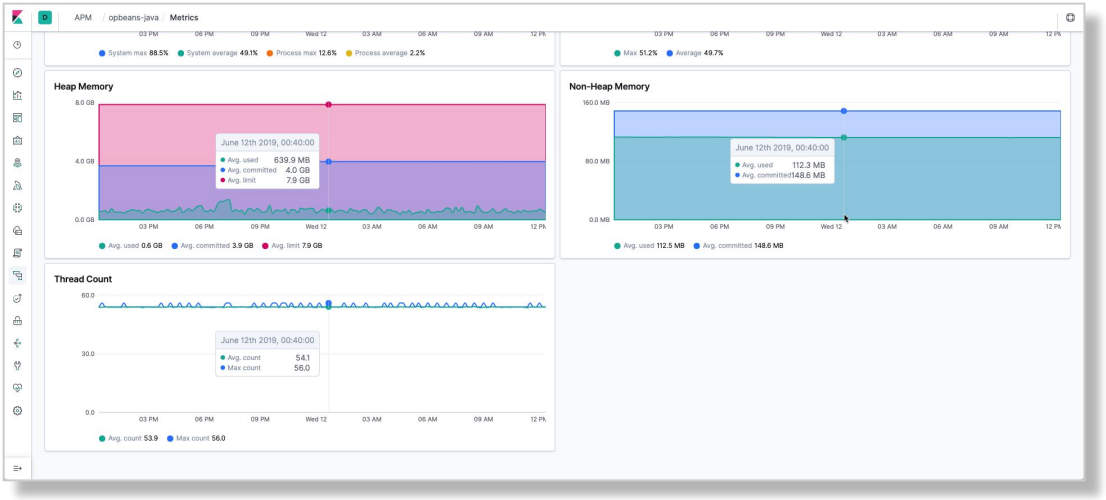
Finding performance issues with application runtime

Metrics collected:

Vary by agent, such as:

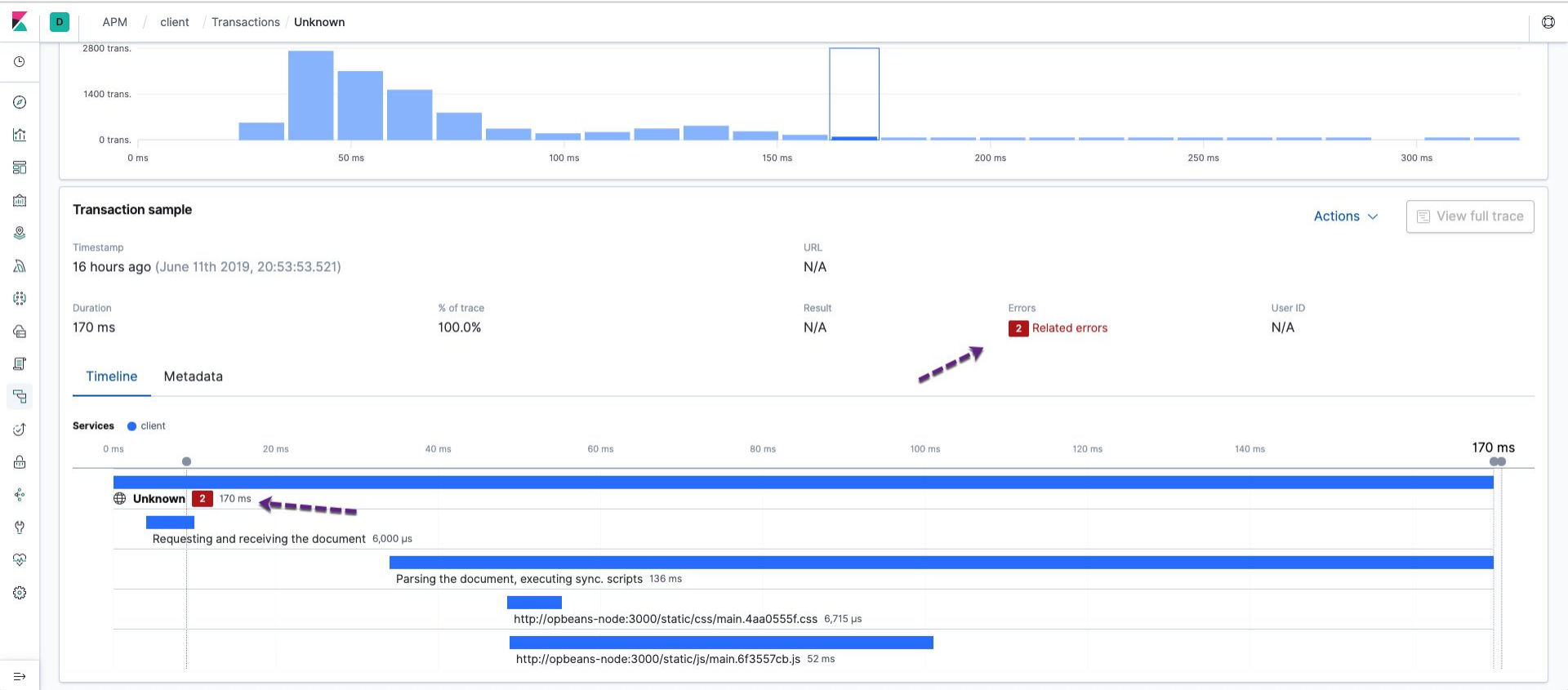
- Garbage Collection
- Memory Usage
- Thread Count
- File Handles
- CPU

APM-contrib repo has dashboards for all agents



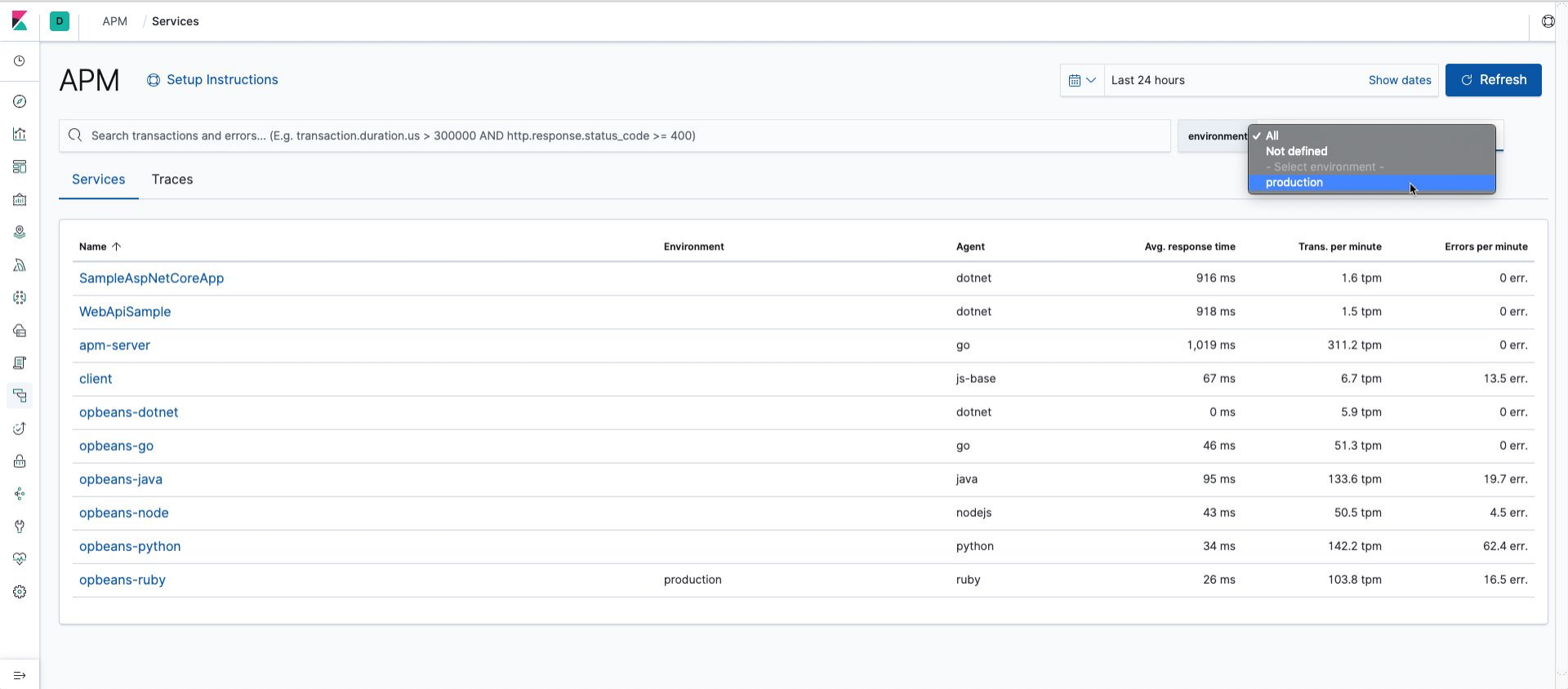
APM App Updates

"Related errors" on transaction view



APM App Updates

Environment Support for easy navigation between environments



Improved administration options

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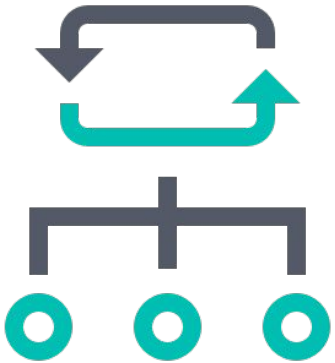
ILM support

- Automatically manage indices over time
- Editable in Kibana
- Multiple ways to get started
  - ILM default policy
  - Manual ILM



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Default APM ILM Policy

Info is available on docs

Event type	Hot	Warm
Errors & Spans	Rollover: `max_size: 50gb`, `max_age: 1 day`, `priority: 100`	`min_age: 7 days`, readonly, `priority: 50`
Transactions & Metrics	Rollover: `max_size: 50gb`, `max_age: 7 days`, `priority: 100`	`min_age: 31 days`, readonly, `priority: 50`

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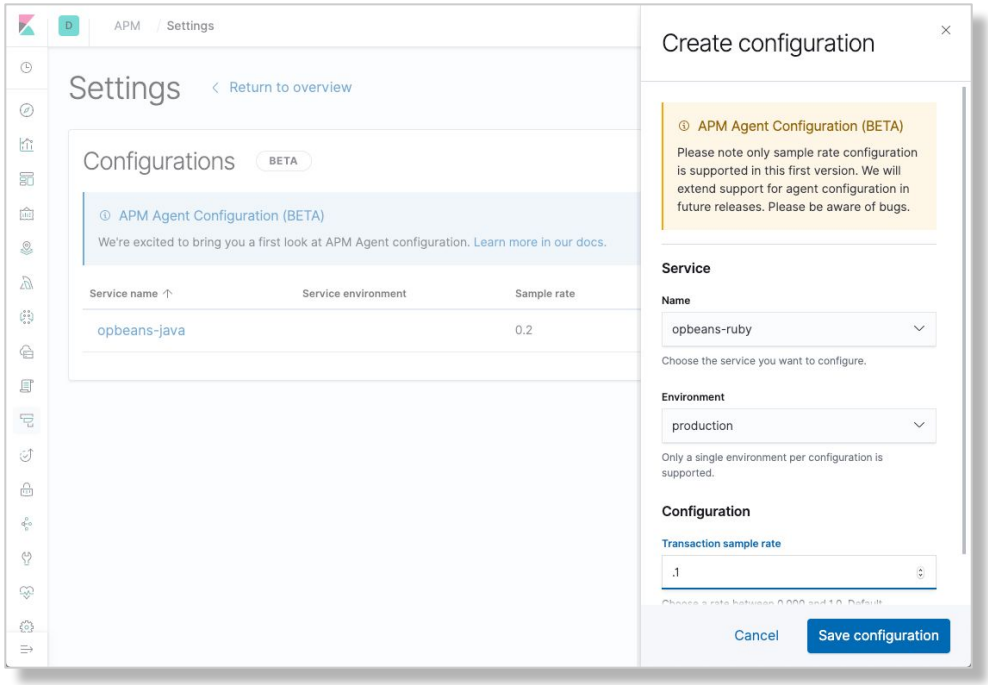
Agent Configuration right from Kibana!

Sample rate configuration

- Per-agent sample rate config
  - 0 - 1.0
  - Default is 1.0
- Environment Selector
  - Allows different rates for services in different envs
- **Errors** are *always* captured no matter sample rate



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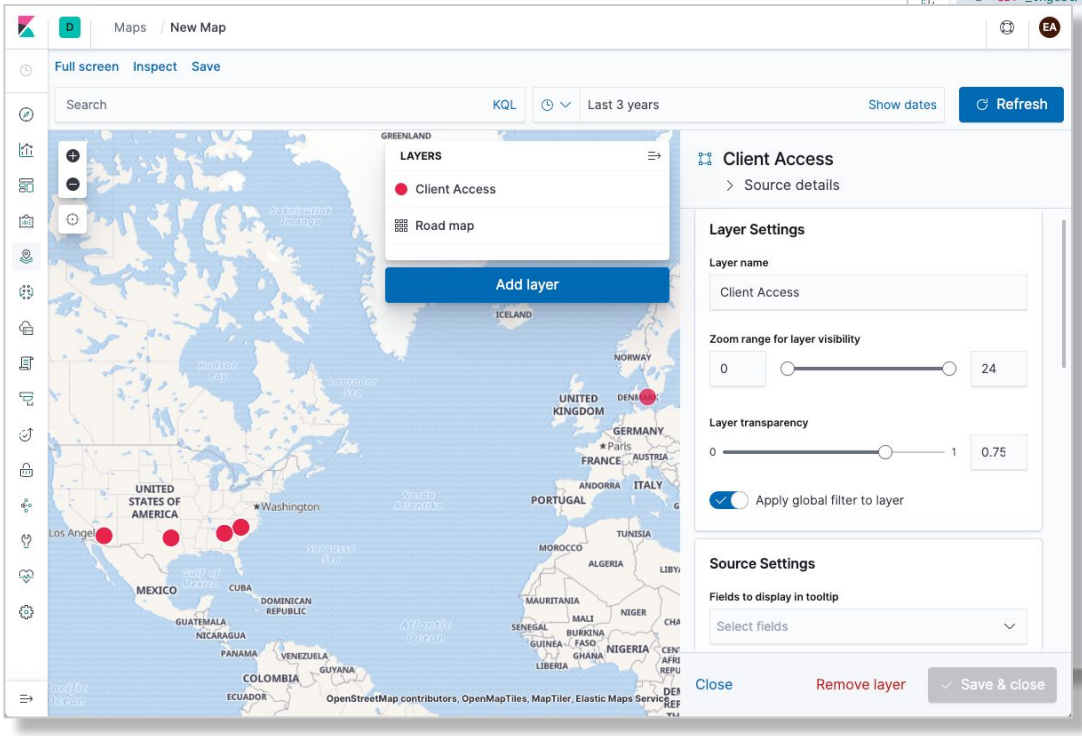
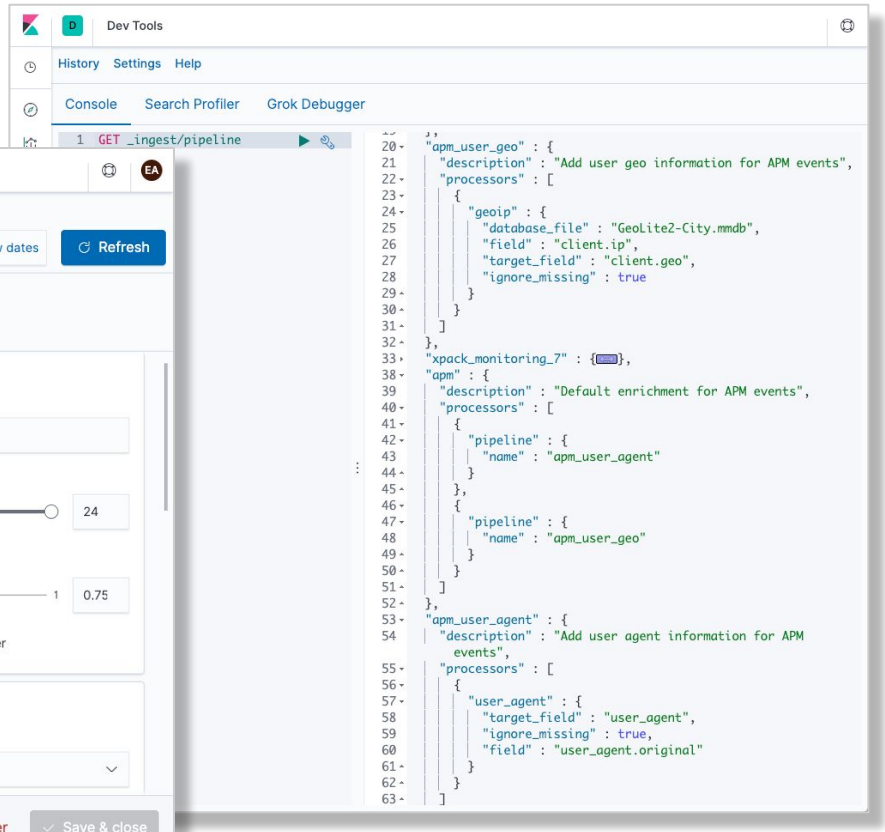
GeoIP & User Agent pipelines

Enabled by default





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Tour Time!

Thank You

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Questions?