



Pivotal.

Visualizing Distributed Trace with Zipkin

Distributed Trace Visualization

- Part of distributed trace solution requires ability to visualize traces out of log streams
 - Aggregation of logs or log streams
 - Ability to filter
 - Ability to drill down into details of logged requests, including source machines where logs generated*

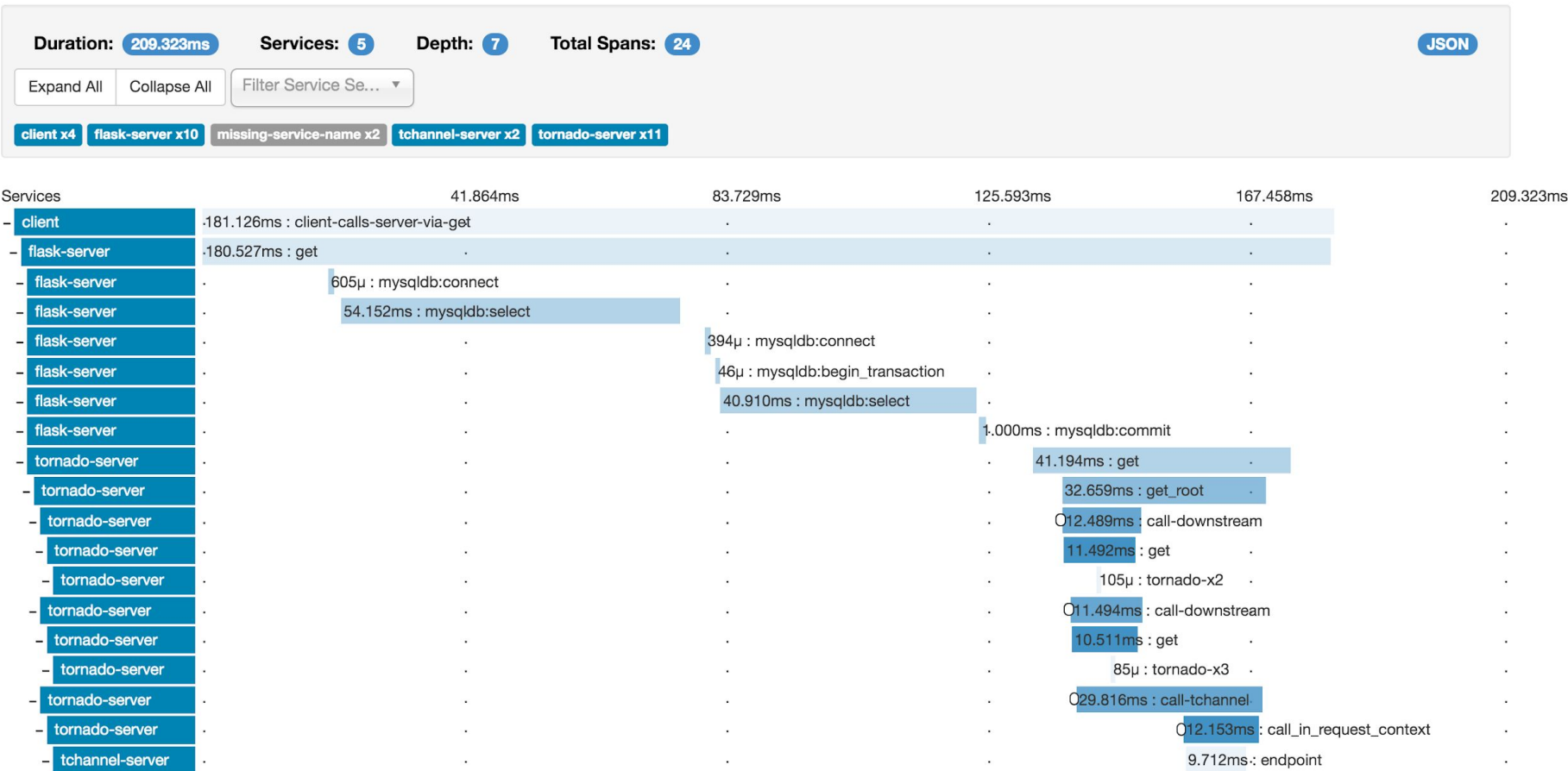
Distributed Trace Visualization Solutions

- Many solutions:
 - Zipkin
 - Splunk
 - Dynatrace
 - New Relic
 - PCF Metrics
 - Elasticsearch, Kibana

Zipkin

- Based on Google Dapper:
<https://research.google.com/pubs/pub36356.html>
- Large selection of language bindings:
https://zipkin.io/pages/existing_instrumentations

Zipkin - Distributed Trace Visualization



Zipkin - Running It

- Standalone: <https://zipkin.io/pages/quickstart>
- Running as Springboot App:
 - HTTP:
https://cloud.spring.io/spring-cloud-static/spring-cloud-sleuth/2.1.2.RELEASE/single/spring-cloud-sleuth.html#_sleuth_with_zipkin_via_http
 - Streaming (required in Cloud Foundry environments):
https://cloud.spring.io/spring-cloud-static/spring-cloud-sleuth/2.1.2.RELEASE/single/spring-cloud-sleuth.html#_sleuth_with_zipkin_over_rabbitmq_or_kafka