



# Monitoring Modern Applications Using Elastic

Melvyn Peignon  
Principal Architect, Education

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# Agenda

1 Introduction

2 Elastic: A Search Company

3 Introduction to Observability

4 Observability with Elastic

5 The Hipster Shop

1

Introduction

2

Elastic: A Search Company

3

Introduction to Observability

4

Observability with Elastic

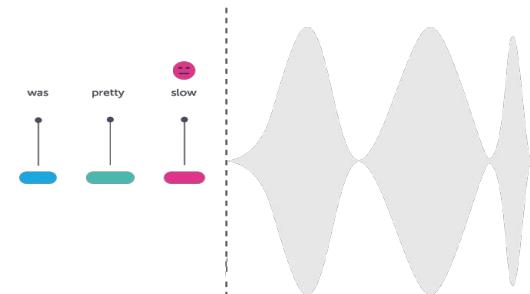
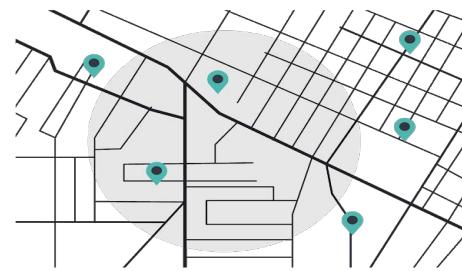
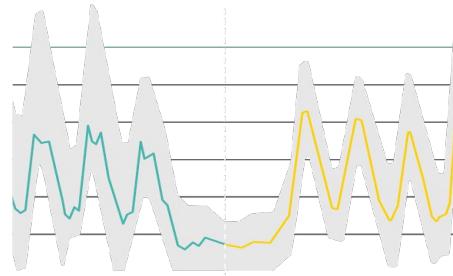
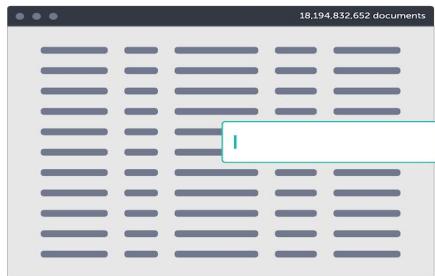
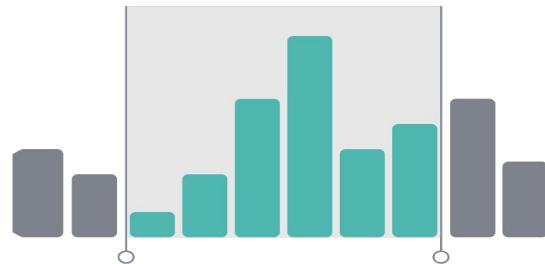
5

The Hipster Shop

# Whatever you do, search is a constant



.54 seconds | 1,000,000,000 records





# Search. Observe. Protect.

# 3 solutions

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Elastic Enterprise Search



Elastic Observability



Elastic Security



# Elastic Enterprise Search

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Workplace Search

App Search

Site Search



# Elastic Observability

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Logs

Metrics

APM

Uptime



# Elastic Security

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Endpoint      SIEM

# 3 solutions powered by 1 stack

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Elastic Enterprise Search



Elastic Observability



Elastic Security



Kibana



Elasticsearch



Beats

Logstash

**Elastic Stack**

# The Elastic Stack

Reliably and securely take data from any source, in any format, then search, analyze, and visualize it in real time.



# Elasticsearch: The Heart of the Stack

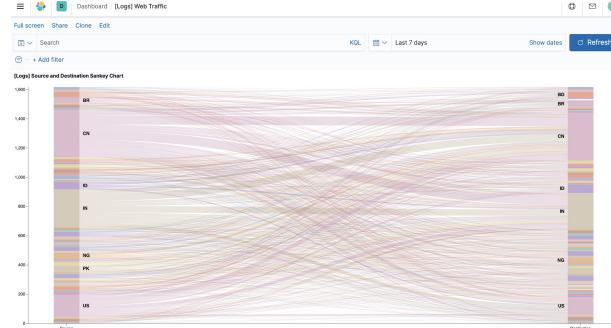
- Scalable
- Real-time
- Highly available



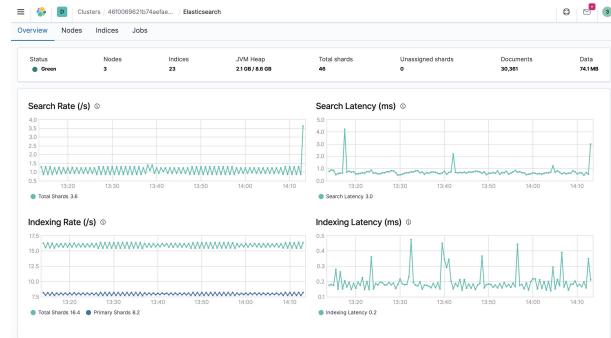
- Developer friendly
- Versatile storage
- Query & aggregations

Distributed, RESTful search and analytics engine capable of solving almost any data challenge.  
Numbers, text, geo, structured, unstructured. All data types are welcome.

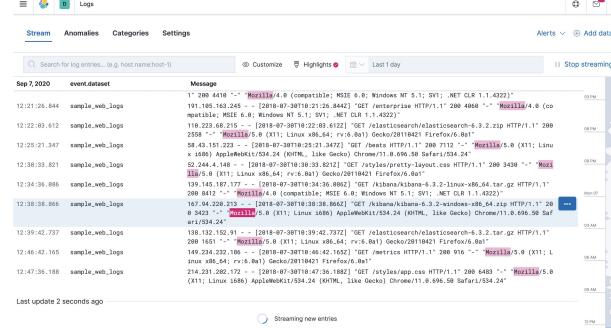
# Kibana: The Window to the Stack



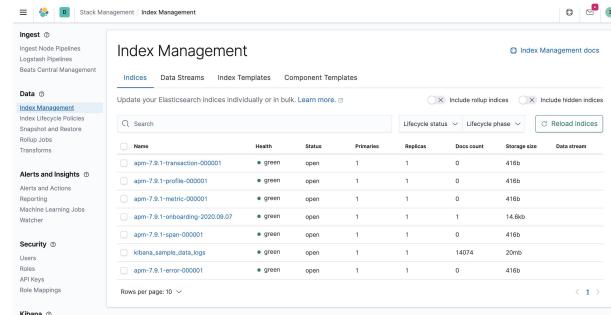
## Visualize



## Monitor



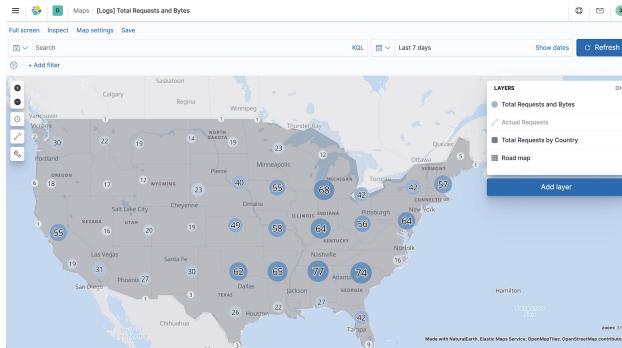
## Search



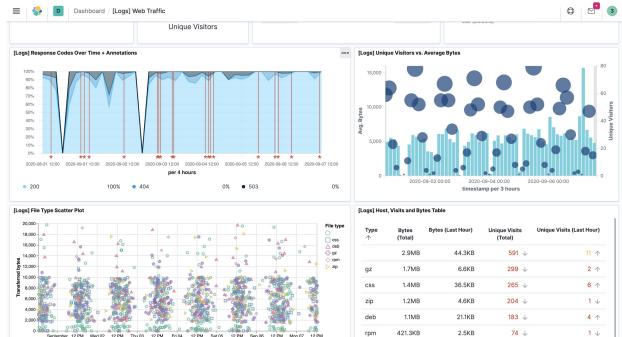
## Manage



# And There is More...



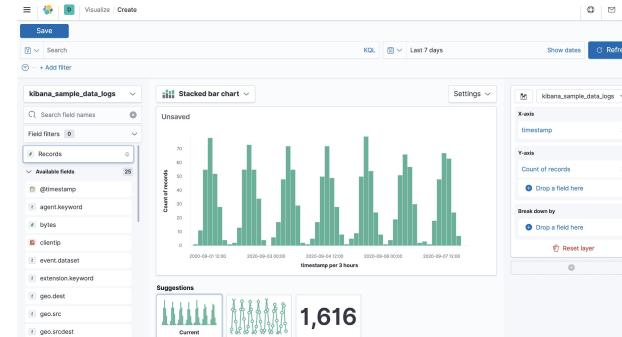
## Maps



## Dashboards



## Canvas



## Lens

# Deploy anywhere.

3 solutions



Elastic Enterprise Search



Elastic Observability



Elastic Security

Powered by  
the stack

Kibana

Elasticsearch

Beats

Logstash

Deployed  
anywhere



Elastic Cloud



Elastic Cloud  
Enterprise



Elastic Cloud  
on Kubernetes

SaaS

Orchestration

# Deploy anywhere.

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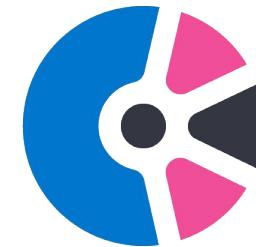
Elastic Cloud

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SaaS



Elastic Cloud  
Enterprise



Elastic Cloud on  
Kubernetes

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Orchestration

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Elastic: A Search Company

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The Hipster Shop

# Observability

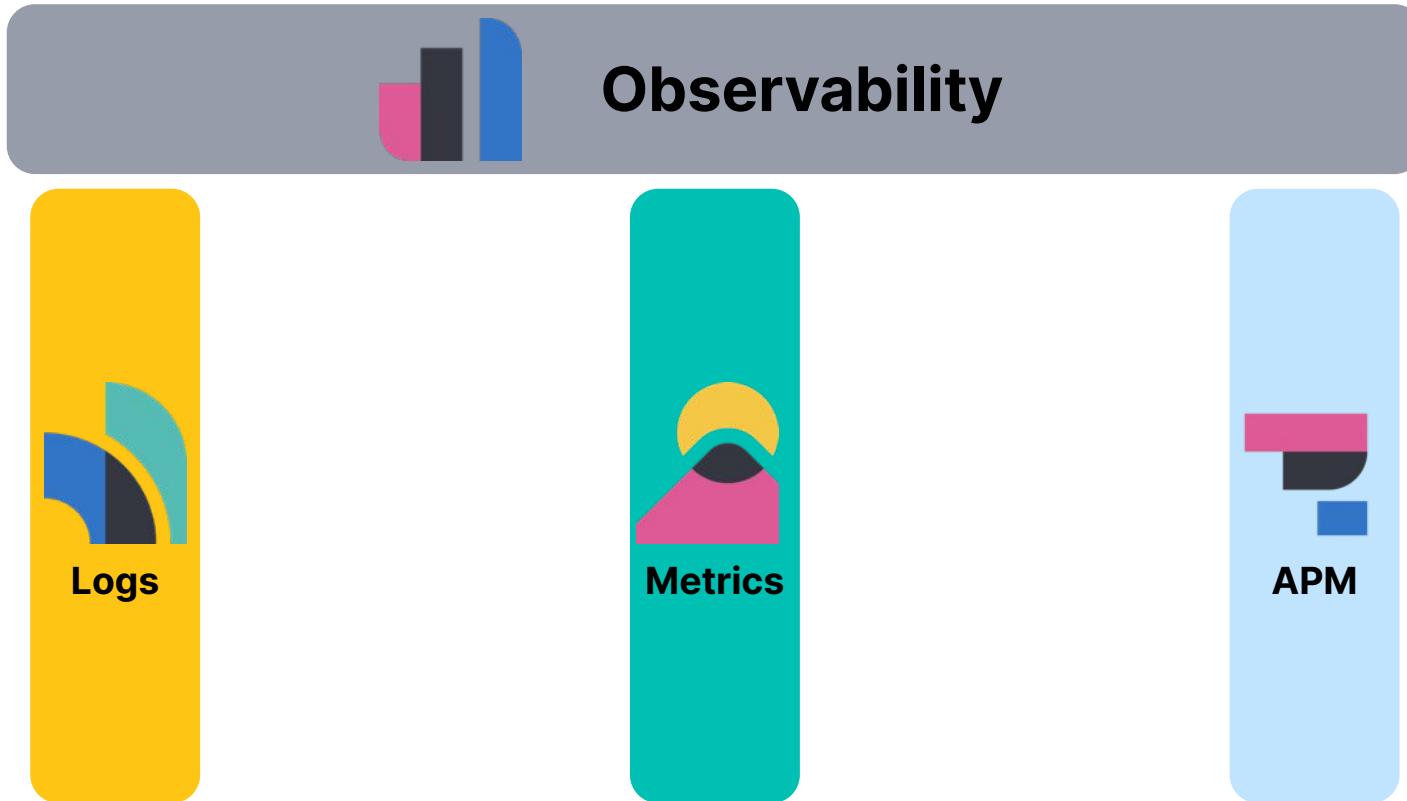
- **Not a technology...** Observability is an attribute of a system
  - Like high availability, stability and usability, SLA compliance
- **Detect and Debug**
  - Errors
  - Service downtime
  - Slow responses
- **Centralized, granular view of information**
  - Application traces
  - Event logs
  - Resource information

# Observability...

... is a Search Use Case

- **Fewer** higher-level well defined meaningful metrics based on correlated data that indicates the health of the ecosystem
- **Automated** anomaly detection for real-time discovery and alerting on important events
- **Ability to transition** from high level to deep dive and correlate relevant data at speed and scale to effectively answer the “what” and “why”

# The Three Pillars of Observability



# The Three Pillars of Observability

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Elastic Observability



Elastic Logs



Elastic Metrics



Elastic APM

# Extra Pillars of Observability

- **Machine Learning**
  - Collection alone is not enough
  - ML detects anomalies in observability data
  - Triggers alerts to make these actionable
- **Uptime Monitoring**
  - Provides indicators of service availability
  - ML detects anomalies in observability data
  - Triggers alerts to make these actionable

# From a Siloed Collection of Tools...

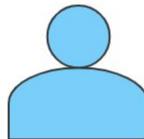
Development Team



**APM Tool**

Real User Monitoring  
Txn Perf Monitoring  
Distributed Tracing

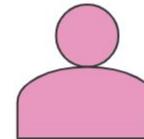
Ops: Monitoring Team



**Uptime Tool**

Uptime  
Response Time

Ops:Monitoring Team



**Metrics Tool**

Container Metrics  
Host Metrics  
Database Metrics  
Network Metrics  
Storage Metrics

Ops: Logging Team



**Logs Tool**

Web Logs  
App Logs  
Database Logs  
Container Logs

# From a 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 Metrics  
Network Metrics  
Storage Metrics

Ops: Logging Team

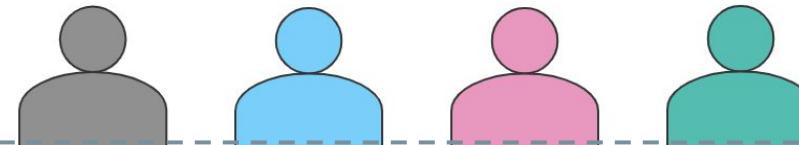


**Logs Tool**

Web Logs  
App Logs  
Database Logs  
Container Logs

# ... to a Single Pane of Glass

Dev & Ops Teams



## APM Data

Real User Monitoring  
Txn Perf Monitoring  
Distributed Tracing

## Uptime Data

Uptime  
Response Time

## Metrics Data

Container Metrics  
Component Metrics  
Host & Network Metrics  
Database & Storage Metrics

## Log Data

Web Logs  
App Logs / Database Logs  
Container Logs  
PaaS Component Logs

Kibana



Elasticsearch



# ... to a Single Pane of Glass

## Dev & Ops Team



### APM Data

Real User Monitoring  
Txn Perf Monitoring  
Distributed Tracing

### Uptime Data

Uptime  
Response Time

### Metrics Data

Container Metrics  
Component Metrics  
Host & Network Metrics  
Database & Storage Metrics

### Logs Data

Web Logs  
App Logs / Database Logs  
Container Logs  
PaaS Component Logs

Kibana

Elasticsearch

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The Hipster Shop

# Key Features for Observability

- Ingest**
  - Rich ecosystem of connectors
  - Extensible framework to process data
  - Developer friendly APIs
- Exploration**
  - Turnkey Solution UIs
  - Out of the box Dashboards
  - Live Presentations
- Analytics**
  - Anomaly detection
  - Trending and Forecasting
  - Flexible Alerting Tools

 <b>ActiveMQ logs</b> Collect ActiveMQ logs with Filebeat.	 <b>Apache logs</b> Collect and parse access and error logs created by the Apache HTTP server.	 <b>AWS Cloudwatch logs</b> Collect Cloudwatch logs with Functionbeat.	 <b>AWS S3 based logs</b> Collect AWS logs from S3 bucket with Filebeat.
 <b>Azure logs</b> Collects Azure activity and audit related logs.	 <b>Elasticsearch logs</b> Collect and parse logs created by Elasticsearch.	 <b>IBM MQ logs</b> Collect IBM MQ logs with Filebeat.	 <b>IIS logs</b> Collect and parse access and error logs created by the IIS HTTP server.
 <b>Kafka logs</b> Collect and parse logs created by Kafka.	 <b>Logstash logs</b> Collect and parse debug and slow logs created by Logstash itself.	 <b>MySQL logs</b> Collect and parse error and slow logs created by MySQL.	 <b>NATS logs</b> Collect and parse logs created by Nats.
 <b>Nginx logs</b> Collect and parse access and error logs created by the Nginx HTTP server.	 <b>PostgreSQL logs</b> Collect and parse error and slow logs created by PostgreSQL.	 <b>Redis logs</b> Collect and parse error and slow logs created by Redis.	 <b>System logs</b> Collect and parse logs written by the local Syslog server.

# Ingest

# More and More Integrations...

- The **Elastic Stack** comes with a lot of modules to easily ingest data
- Agents can easily be deployed to collect, **metrics, logs and security** related data
- The agent ships data using **Elastic Common Schema** allowing for a better analysis
- Elastic Fleet** allows for a better management of the different agents

 <b>ActiveMQ logs</b> Collect ActiveMQ logs with Filebeat.	 <b>Apache logs</b> Collect and parse access and error logs created by the Apache HTTP server.	 <b>AWS Cloudwatch logs</b> Collect Cloudwatch logs with Functionbeat.	 <b>AWS S3 based logs</b> Collect AWS logs from S3 bucket with Filebeat.
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# Ingesting Data

## Applications

Web apps,  
servers, APIs,  
logs4j, ...

## Containers & Cloud

Docker, K8, AWS,  
Azure, ...

## Networking

Netflow, PCAP,  
HTTP, TCP, UDP,  
TLS, ...

## IoT

Sensors, robots,  
connected cars

## Platform Infrastructure

Windows, Linux,  
proxies, ...

## Data Store & Streams

DB, Kafka, Spark,  
Hive, ...

## Messaging & Alerting

Slack, Nagios,  
email, ...

## Raw Documents

PDF, XLS, PPT, ...

## Build Your Own

## Metrics

## Documents

## Logs

## Alerts

## Messages

## Tickets

## Scripts

Ingest  
Integrations



The  
Elastic  
Stack

# Ingesting Log Files

☰ D Machine Learning / Data Visualizer / File

Overview Anomaly Detection Data Frame Analytics **Data Visualizer** Settings

nginx.log

### File contents

First 999 lines

```
1 83.149.9.216 - - [17/May/2015:10:05:03 +0000] "GET /presentations/logstash-monitorama-2013/images/kibana-search.png HTTP/1.1" 200 203023 "http://semicomplete.com/presentations /logstash-monitorama-2013/" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_9_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/32.0.1700.77 Safari/537.36" "-"
2 83.149.9.216 - - [17/May/2015:10:05:43 +0000] "GET /presentations/logstash-monitorama-2013/images/kibana-dashboard3.png HTTP/1.1" 200 171717 "http://semicomplete.com /presentations/logstash-monitorama-2013/" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_9_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/32.0.1700.77 Safari/537.36" "-"
3 83.149.9.216 - - [17/May/2015:10:05:47 +0000] "GET /presentations/logstash-monitorama-2013/plugin/highlight/highlight.js HTTP/1.1" 200 26185 "http://semicomplete.com /presentations/logstash-monitorama-2013/" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_9_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/32.0.1700.77 Safari/537.36" "-"
4 83.149.9.216 - - [17/May/2015:10:05:11 +0000] "GET /presentations/logstash-monitorama-2013/plugin/zoom-js/zoom.js HTTP/1.1" 200 7697 "http://semicomplete.com/presentations /logstash-monitorama-2013/" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_9_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/32.0.1700.77 Safari/537.36" "-"
5 83.149.9.216 - - [17/May/2015:10:05:07 +0000] "GET /presentations/logstash-monitorama-2013/plugin/notes/notes.js HTTP/1.1" 200 2892 "http://semicomplete.com/presentations /logstash-monitorama-2013/" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_9_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/32.0.1700.77 Safari/537.36" "-"
6 83.149.9.216 - - [17/May/2015:10:05:34 +0000] "GET /presentations/logstash-monitorama-2013/images/sad-medic.png HTTP/1.1" 200 430406 "http://semicomplete.com/presentations /logstash-monitorama-2013/" "Mozilla/5.0 (Macintosh; Intel Mac OS X 10_9_1) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/32.0.1700.77 Safari/537.36" "-"
7 92.140.0.216 - - [17/May/2015:10:05:57 +0000] "GET /presentations/logstash-monitorama-2013/ccc/Fonte/Dashboards.html HTTP/1.1" 200 20720 "http://semicomplete.com/presentations /logstash-monitorama-2013/" "Mozilla/5.0 (Windows NT 6.1; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/32.0.1700.77 Safari/537.36" "-"
```

### Summary

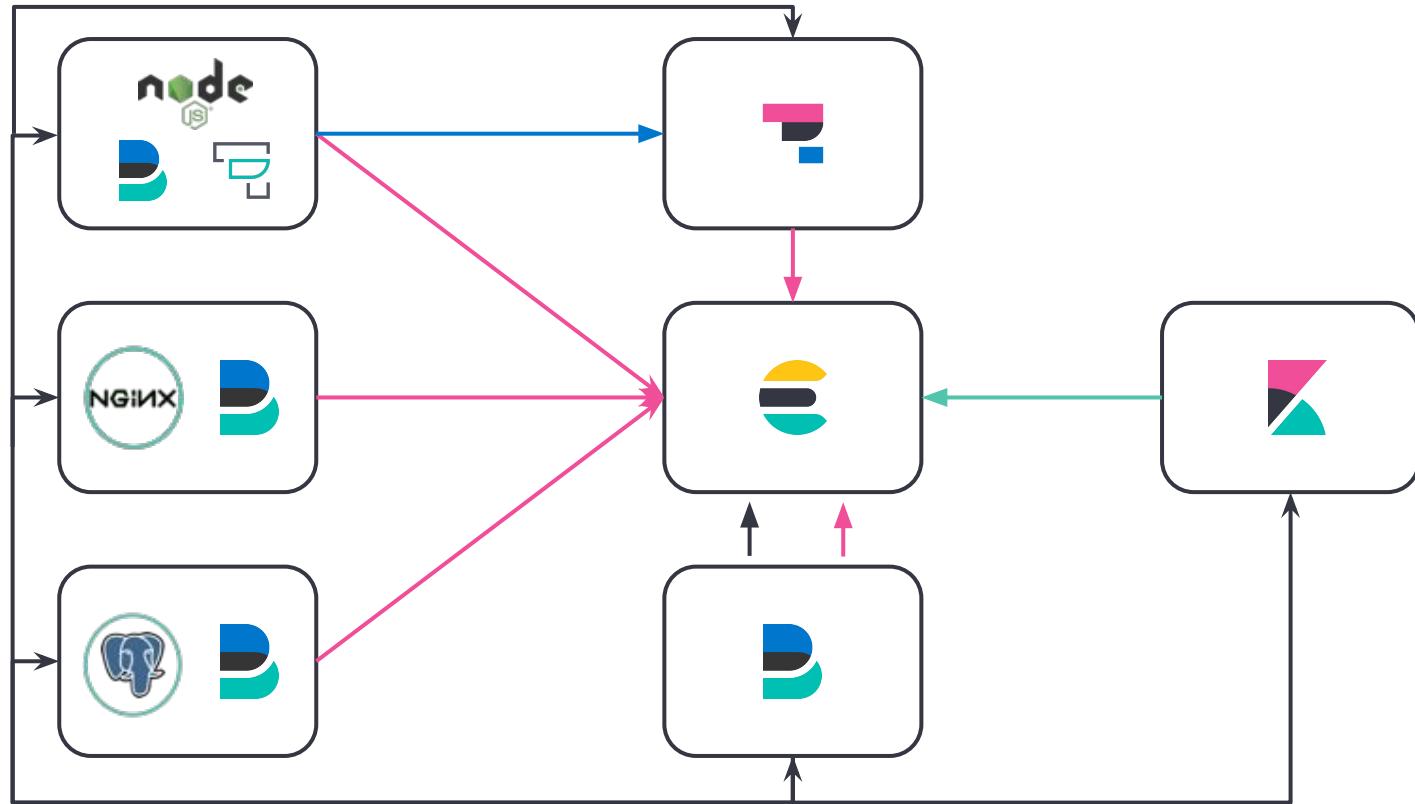
Number of lines analyzed	999
Format	semi_structured_text
Grok pattern	%{COMBINEDAPACHELOG}
Time field	timestamp
Time format	dd/MMM/yyyy:HH:mm:ss XX

[Open in browser](#) [Analyze](#) [Visualize](#)

**Import** Cancel

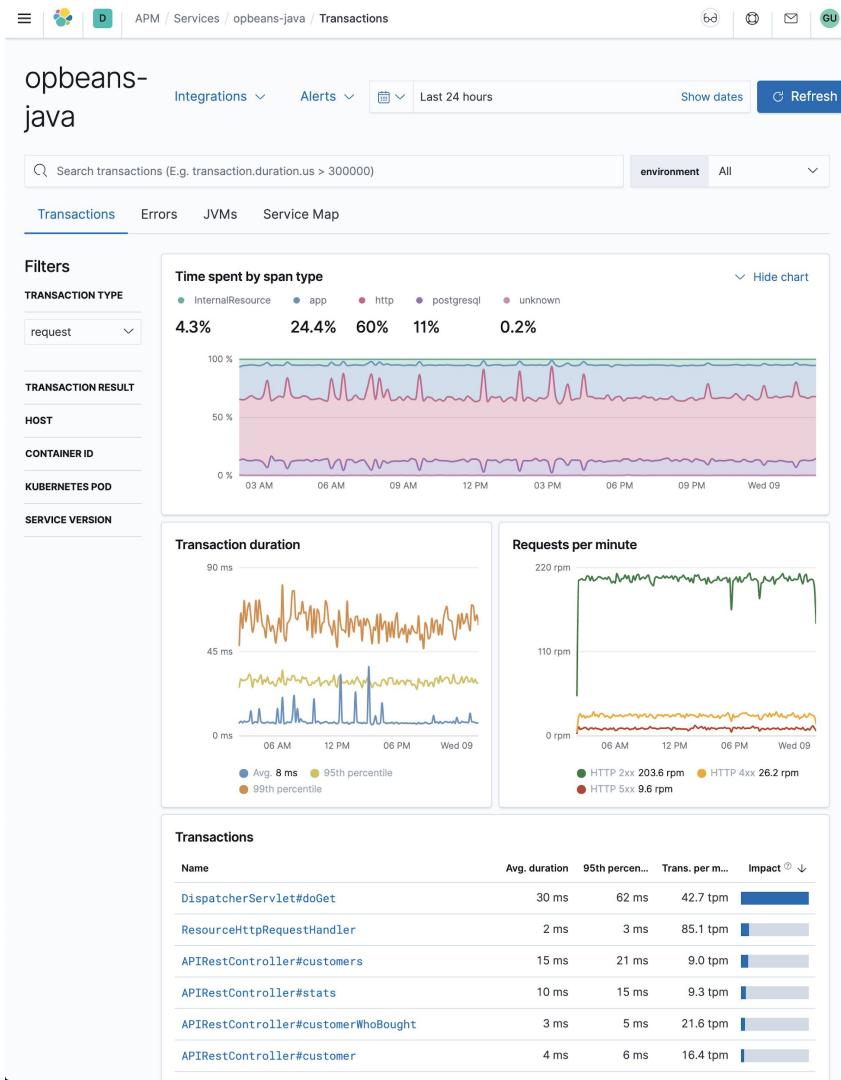
 elastic

# Ingesting Data using Agents



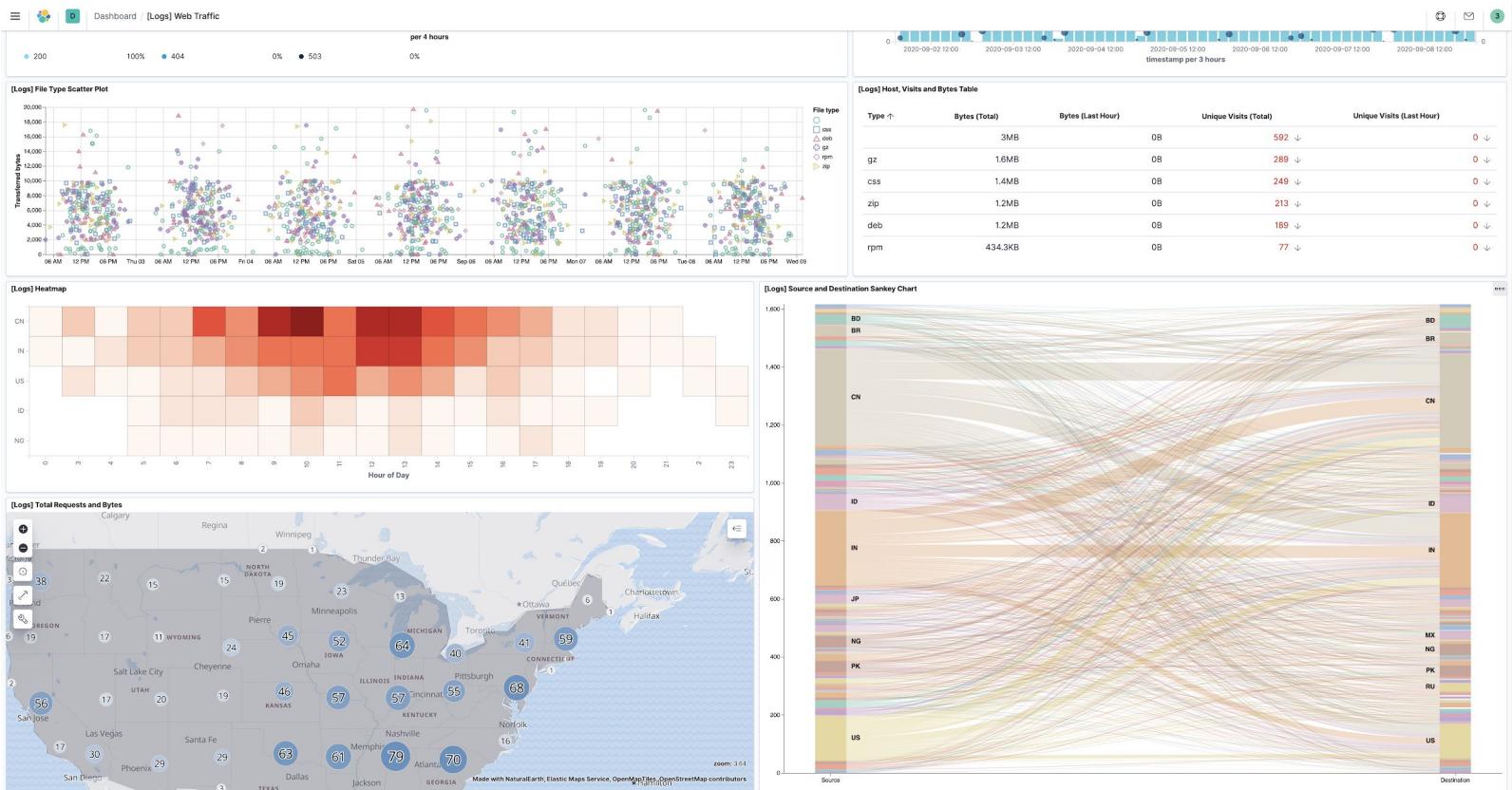
# Ingesting APM Data

- **Many languages are supported:** Java, GO, Node, Python, Ruby and more on the way
- **Real User Monitoring (RUM):** To monitor user interaction with clients like browsers
- **Just another index**  
All the data are stored in Elasticsearch for an easy correlation with the other observability data



# Exploration

# Out of the Box Dashboards



# Logs

- 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
- Highlighting

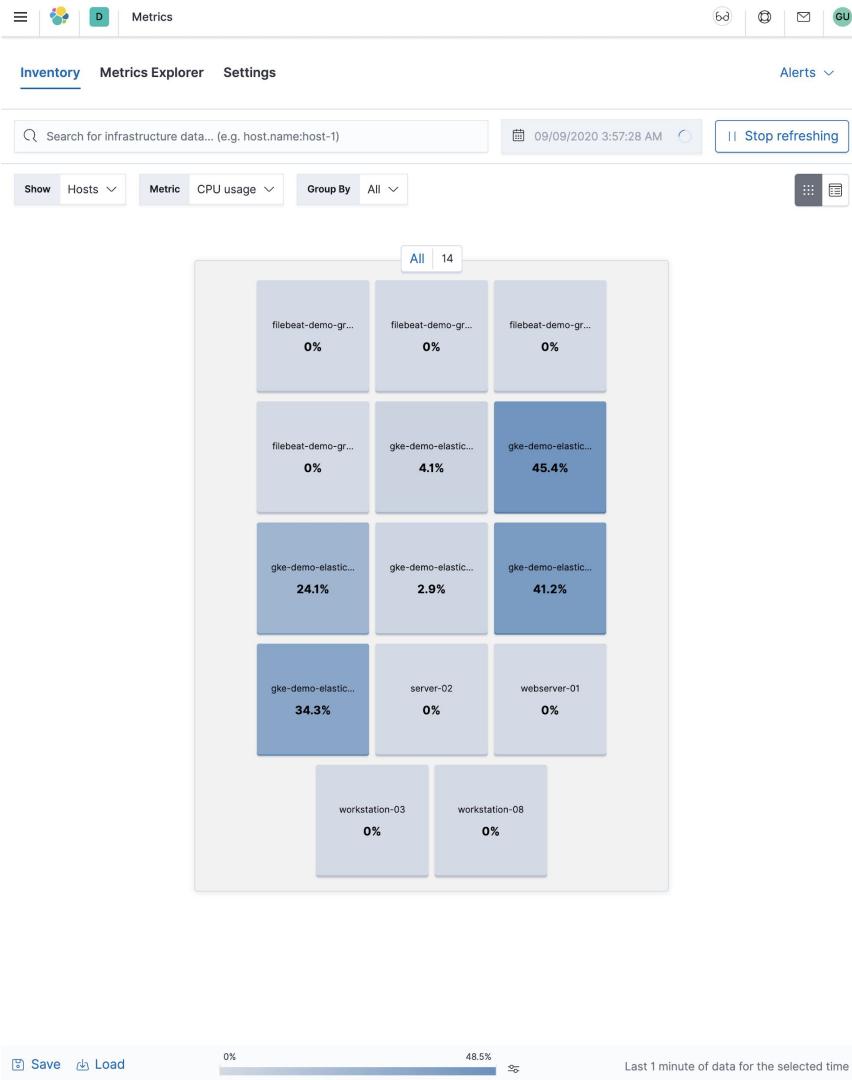
The screenshot shows a log viewer interface with the following features:

- Header:** Stream, Anomalies, Categories, Settings, Alerts, Add data.
- Search Bar:** Search for log, Customize, Highlights, Last 1 day, Show dates, Stream live.
- Log List:** Shows log entries from Sep 8, 2020, to Sep 9, 2020, for the dataset "sample\_web\_logs". Each entry includes a timestamp, source, message, and a detailed log entry.
- Timeline:** A vertical timeline on the right side indicates the progression of time from 05 AM to 03 AM the next day, with horizontal dashed lines connecting the log entries.
- Bottom Status:** Showing entries until Sep 9, 02:00:00 and Stream live button.

Date	Source	Message
Sep 8, 2020	sample_web_logs	19:49:14.276 [2018-07-31T17:49:14.276Z] "GET /styles/app.css HTTP/1.1" 200 6555 "-" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 20:15:35.899 [2018-07-31T18:15:35.899Z] "GET /elasticsearch/elasticsearch-6.3.2.zip HTTP/1.1" 200 3780 "-" "Mozilla/5.0 (X11; Linux i686) AppleWebKit/534.24 (KHTML, like Gecko) Chrome/11.0.696.58 Safari/534.24" 20:48:06.504 [2018-07-31T18:48:06.504Z] "GET /apm HTTP/1.1" 200 8908 "-" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 20:50:13.109 [2018-07-31T18:50:13.109Z] "GET /beats/metricbeat-metricbeat-6.3.2-amd64.deb HTTP/1.1" 200 8259 "-" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 21:24:10.011 [2018-07-31T19:24:10.011Z] "GET /beats/metricbeat HTTP/1.1" 200 9576 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:6.0a1) Gecko/20110421 Firefox/6.0a1" 21:38:30.801 [2018-07-31T19:38:30.801Z] "GET /kibana/kibana-6.3.2-linux-x86_64.tar.gz HTTP/1.1" 200 9137 "-" "Mozilla/5.0 (X11; Linux i686) AppleWebKit/534.24 (KHTML, like Gecko) Chrome/11.0.696.58 Safari/534.24" 21:55:43.848 [2018-07-31T19:55:43.848Z] "GET /beats HTTP/1.1" 200 1952 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:6.0a1) Gecko/20110421 Firefox/6.0a1" 22:22:11.757 [2018-07-31T20:22:11.757Z] "GET /elasticsearch HTTP/1.1" 200 2534 "-" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 22:28:58.664 [2018-07-31T20:28:58.664Z] "GET /styles/ad-blocker.css HTTP/1.1" 200 2814 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:6.0a1) Gecko/20110421 Firefox/6.0a1" 22:54:05.123 [2018-07-31T20:54:05.123Z] "GET /elasticsearch HTTP/1.1" 200 2574 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:6.0a1) Gecko/20110421 Firefox/6.0a1"
Sep 9, 2020	sample_web_logs	01:20:38.558 [2018-07-31T23:20:38.558Z] "GET /pm-server/app-server-6.3.2-amd64.deb HTTP/1.1" 200 7676 "-" "Mozilla/4.0 (compatible; MSIE 6.0; Windows NT 5.1; SV1; .NET CLR 1.1.4322)" 02:00:00.000 [2018-08-01T00:00:00.000Z] "GET /beats/filebeat-filebeat-6.3.2-linux-x86_64.tar.gz HTTP/1.1" 200 5193 "-" "Mozilla/5.0 (X11; Linux i686) AppleWebKit/534.24 (KHTML, like Gecko) Chrome/11.0.696.58 Safari/534.24" 02:00:00.000 [2018-08-01T00:00:00.000Z] "GET /kibana/kibana-6.3.2-linux-x86_64.tar.gz HTTP/1.1" 200 5621 "-" "Mozilla/5.0 (X11; Linux x86_64; rv:6.0a1) Gecko/20110421 Firefox/6.0a1"

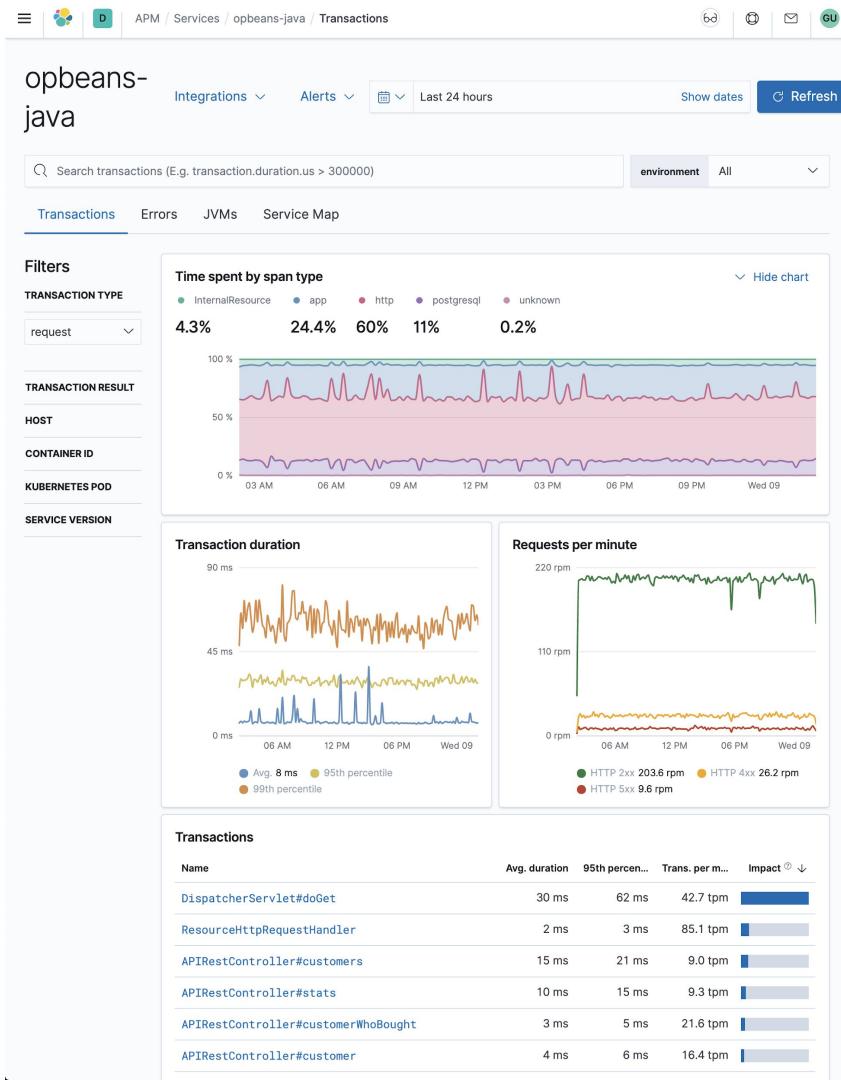
# Infrastructure metrics

- Bird eye view of the monitored infrastructure
- Ability to group the infrastructure based on criteria like geo localisation, type of infrastructure monitored etc...
- Create visualizations out of the collected metrics



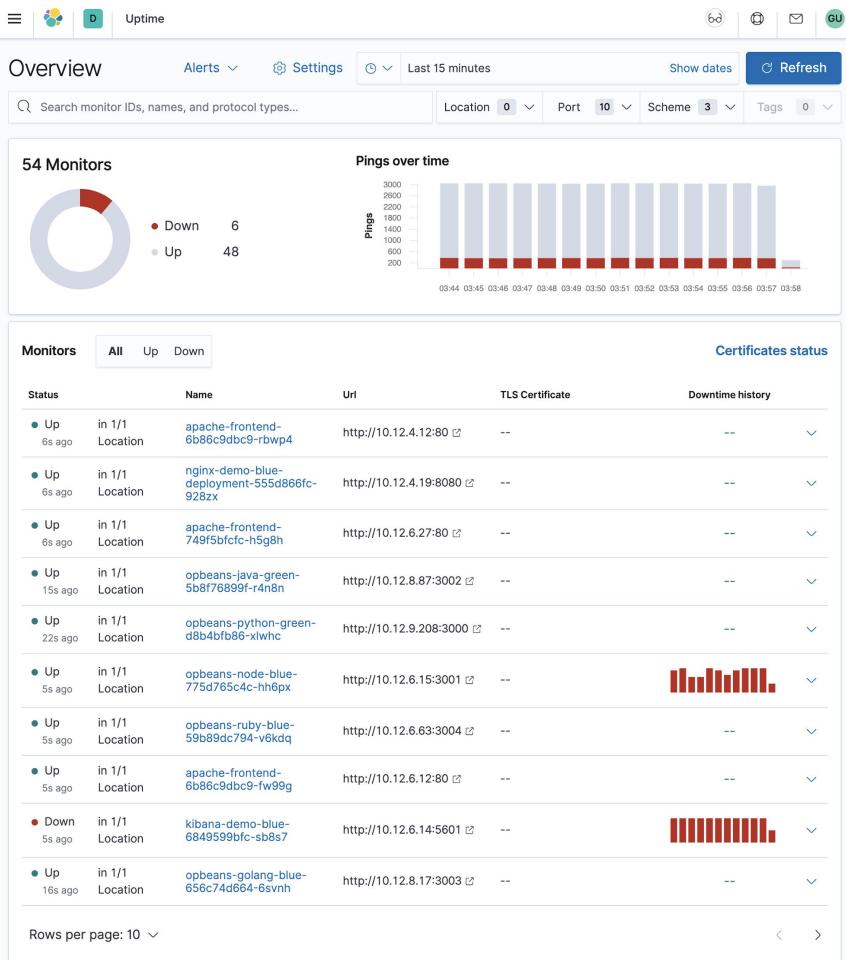
# APM

- View of all the transactions happening in the many different applications
- Transactions duration over time
- Requests per minutes over time
- A service map to see all the instrumented services in your applications



# Uptime

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



# Analytics

# Machine Learning

- Automated anomaly detection
- Continuous (online) model
- Forecasting
- Population outliers
- Classification

Machine Learning / Anomaly Detection / Job Management

Overview Anomaly Detection Data Frame Analytics Data Visualizer

Job Management Anomaly Explorer Single Metric Viewer Settings

30 seconds

### Anomaly detection jobs

Active ML nodes: 3 Total jobs: 10 Open jobs: 10 Closed jobs: 0 Active datafeeds: 5 Refresh Create job

ID	Description	Processed records	Memory status	Job state	Datafeed state	Latest timestamp	Actions
high_event_duration	Nginx Access Logs: Detect high event duration	33,552,811	ok	opened	stopped	2020-09-07 10:29:59	
high_event_duration_pop	Nginx Access Logs: Detect high event duration in population	29,761,117	ok	opened	stopped	2020-09-02 12:59:59	
high_timeouts	Nginx Access Logs: Detect unusual timeouts - high 504s	0	ok	opened	started		
high_timeouts_pop	Nginx Access Logs: Detect unusual timeouts - high 504s in population	0	ok	opened	started		
low_request_rate_ecs	HTTP Access Logs: Detect low request rates (ECS)	3,445	ok	opened	started	2020-09-04 12:14:59	
opbeans-node-request-high_mean_response_time	Detect anomalies in high mean of transaction duration	0	ok	opened	started		
source_ip_request_rate_ecs	HTTP Access Logs: Detect unusual source IPs - high request rates (ECS)	34,982,404	soft_limit	opened	started	2020-09-09 03:59:59	
source_ip_url_count_ecs	HTTP Access Logs: Detect unusual source IPs - high distinct count of URLs (ECS)	30,399,540	soft_limit	opened	stopped	2020-09-03 07:09:59	
status_code_rate_ecs	HTTP Access Logs: Detect unusual status code rates (ECS)	30,522,349	ok	opened	stopped	2020-09-03 12:14:59	
visitor_rate_ecs	HTTP Access Logs: Detect unusual visitor rates (ECS)	3,144	ok	opened	stopped	2020-09-01 08:59:59	

Rows per page: 10 < 1 >

# Alerting

- Highly available
- Notifications can be send via email, Slack, PagerDuty to a webhook
- Integrate with the stack, machine learning, monitoring and reports generation

The screenshot shows the Stack Management / Alerts interface. On the left, there's a sidebar with links for Elasticsearch, Kibana, Logstash, Beats, Security, and Machine Learning. The main area is titled "Alerts and Actions" and shows a table of detected conditions. The "Create alert" dialog is open on the right, allowing users to set a name, check intervals, and log thresholds. It also provides options to select an action type (Email, Index, Jira, PagerDuty, ServiceNow, Slack, or Webhook) and includes a "now" button.

**Alerts and Actions**  
Detect conditions using alerts, and take actions.

**Create alert** (BETA)

**Name:** Workshop **Tags (optional):**

**Check every:** 1 minute **Notify every:** 1 minute

**Log threshold:**

**WHEN** more than 75 log entries  
**WITH** log.level IS error  
**FOR THE LAST** 15 minutes

**Add condition**

**Actions:**

Select an action type

**Email** **Index** **Jira** **PagerDuty**

**ServiceNow** **Slack** **Webhook**

**now**

**Cancel** **Save**

Name	Tags
Elastic, Linux, __internal_rule_id: 5417bb-d3df-4784-818-12d7e034fee3, __internal_immut: e:true	
Elastic, Linux, __internal_rule_id: 8a1226-5720-439c-9c20-e0029eb6194, __internal_immut: e:true	
Elastic, Linux, __internal_rule_id: bf20a-46bc-4a8bae5-5cd1422785, __internal_immut: e:true	
Elastic, Linux, __internal_rule_id: f22dab-84e8-4095-e-acd1d31670b, __internal_immut: e:true	
Elastic, Windows __internal_rule_id: b4c719-f2bd-41a9-bd1f-4ce83c2ea, __internal_immut: e:true	
Elastic, Windows __internal_rule_id: 31bbe2-6db4-4941-80a5-8270db72eb61, __internal_immut: e:true	
Elastic, Windows __internal_rule_id: 31bbe2-6db4-4941-80a5-8270db72eb61, __internal_immut: e:true	

1

Introduction

2

Elastic: A Search Company

3

Introduction to Observability

4

Observability with Elastic

5

The Hipster Shop

# Presentation of the Application

# An Ecommerce Business

- Every eCommerce business rely mostly on its ability to sell to thrive
- The business success of Hipster is directly connected to the experience and quality of their digital store. The revenue is directly impacted by the quality of the store
- The IT team is accountable to the eCommerce business unit
  - To avoid customer impacting issues
  - Resolving these issues
- Hipster needs an Observability solution, and they are using Elastic

# An Ecommerce Business

## The Hipster Shop

Hipster Shop

USD View Cart (0)

### One-stop for Hipster Fashion & Style Online

Tired of mainstream fashion ideas, popular trends and societal norms? This line of lifestyle products will help you catch up with the hipster trend and express your personal style. Start shopping hip and vintage items now!



Vintage Typewriter

Buy USD 67.98



Vintage Camera Lens

Buy USD 12.48



Home Barista Kit

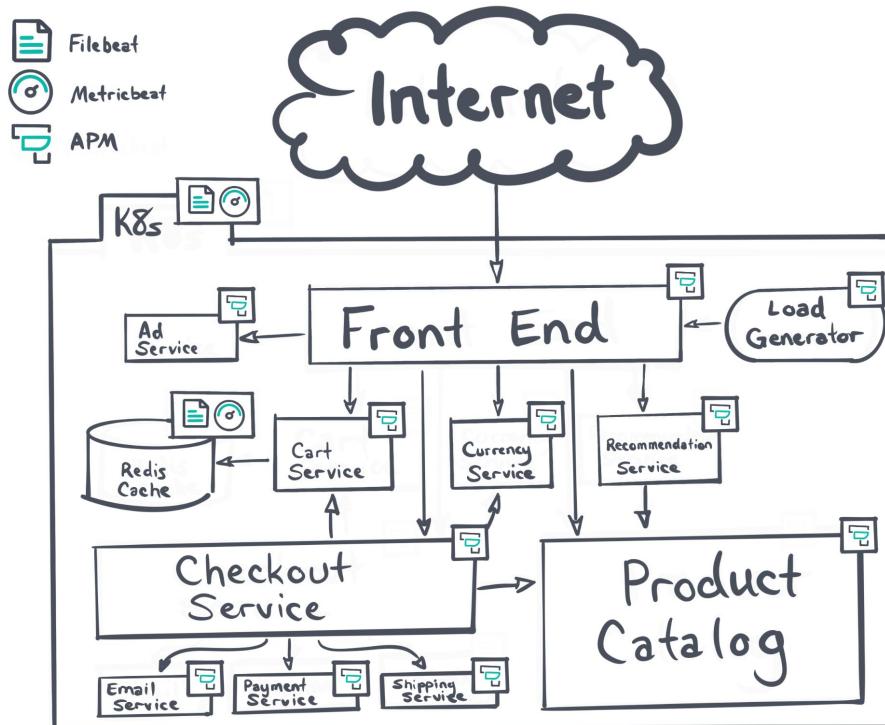
Buy USD 123.99





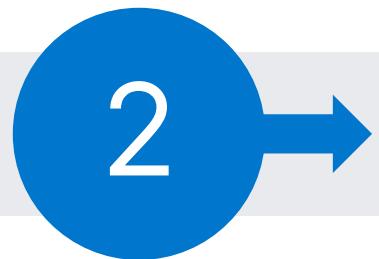
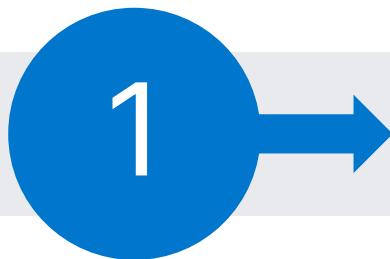


# Hipster Architecture



# Demo

# What's Next



## Hands-on labs

Watch for lab instructions sent via an email from

[Elastic Training](#)

## Start free

Build your skills with free on-demand training

[elastic.co/training/free](https://elastic.co/training/free)

## Go deeper

Prepare for certification with the Observability

Engineer training

[elastic.co/training](https://elastic.co/training)

# Thank You!