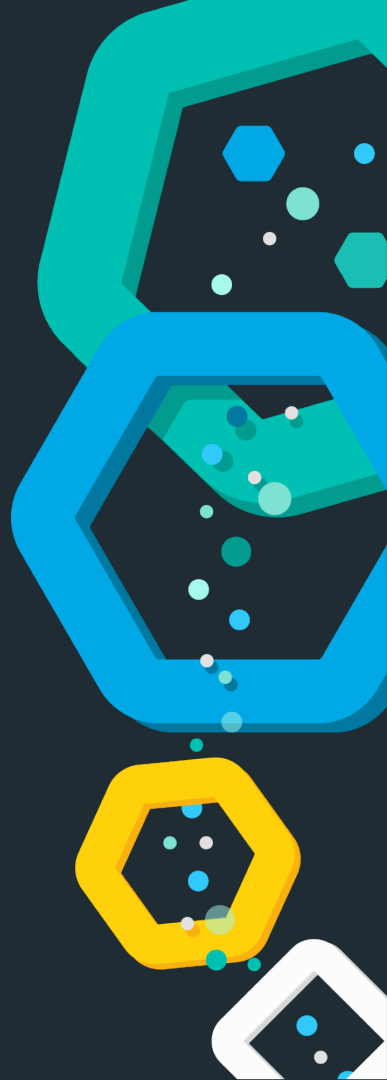
elastic

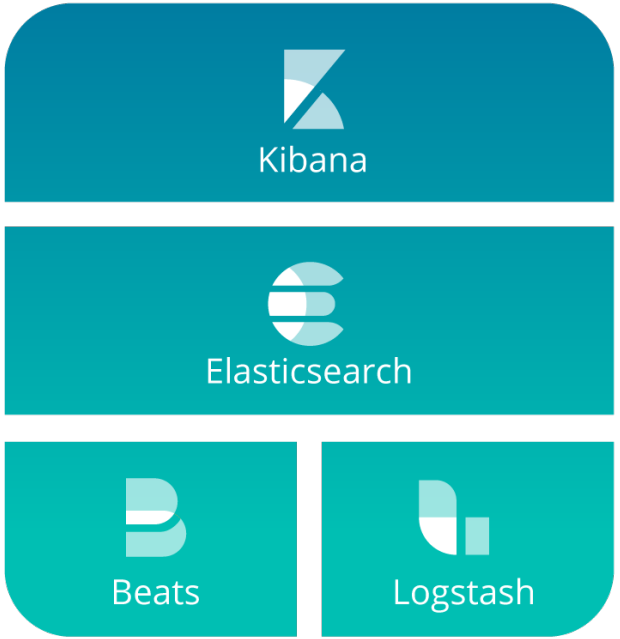
PRODUCT OVERVIEW

Elastic Stack, X-Pack, and Elastic Cloud



Elastic Stack

100% open source



elastic

X-Pack

Single install
Extensions for the Elastic Stack
Subscription pricing

Security

Alerting

Monitoring

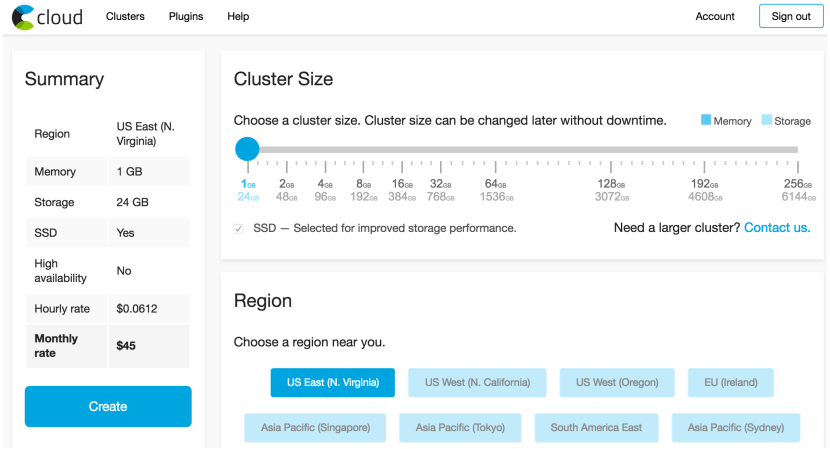
Reporting

Graph

Machine Learning

Elastic Cloud

Hosted Elasticsearch & Kibana
Includes X-Pack features
Starts at $45/mo



Available in AWS today
Available in Google Cloud Platform (soon)
Available as a private cloud/on-premise solution
(Elastic Cloud Enterprise)

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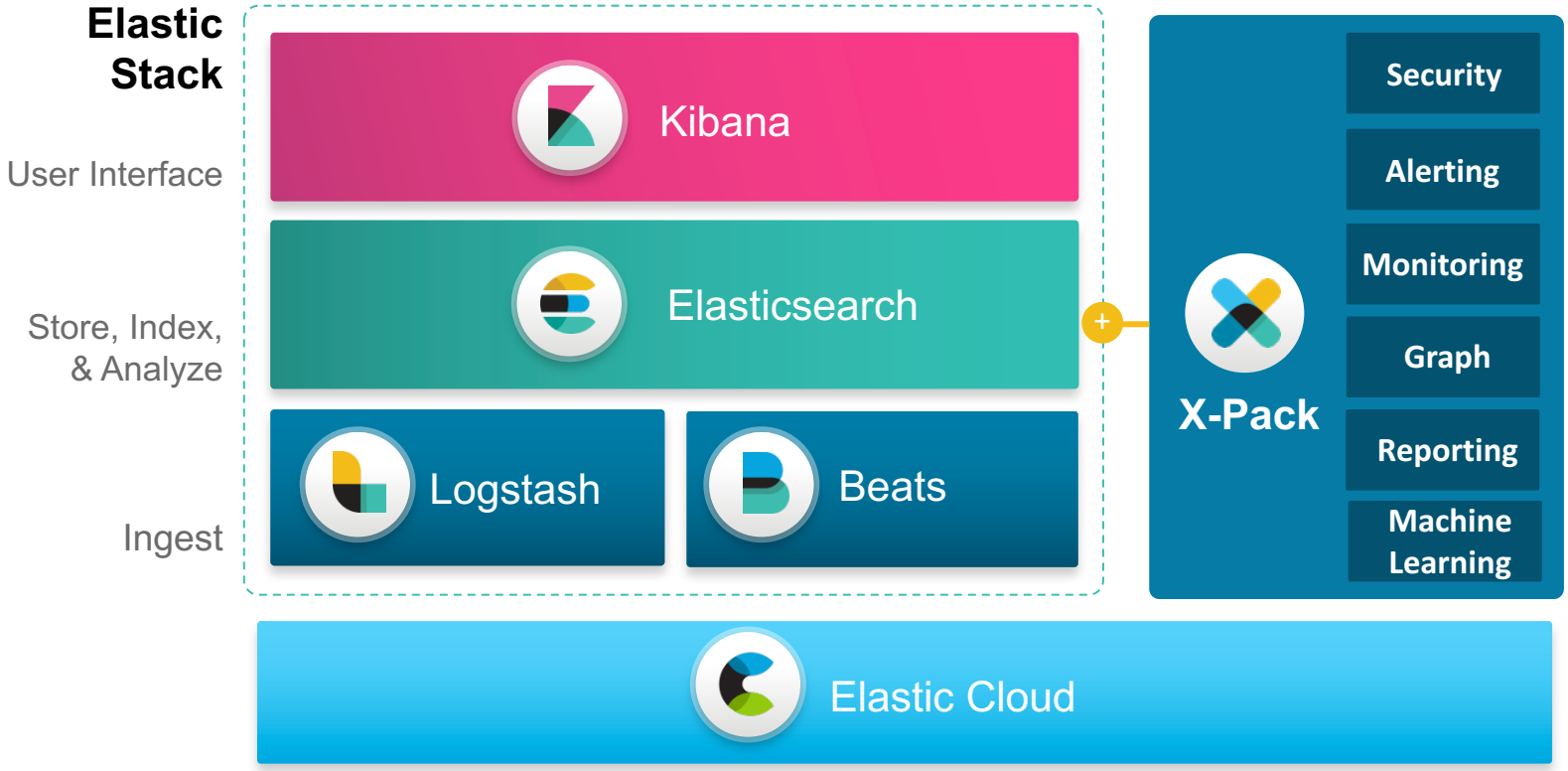
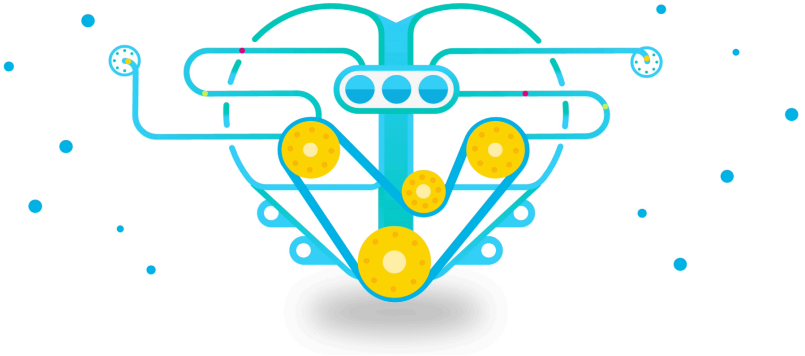
Elastic: Product Portfolio



elastic



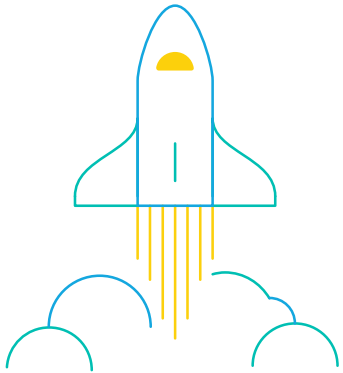
Elasticsearch

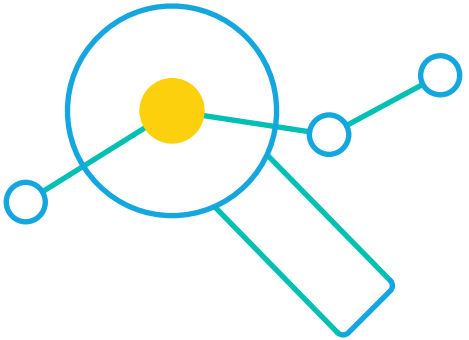
Heart of the Elastic Stack

Distributed, Scalable	**High-availability**	**Multi-tenancy**
Developer Friendly	**Real-time, Full-text Search**	**Aggregations**

Elasticsearch is…

An open source, distributed, scalable, highly available, document-oriented, RESTful, full text search engine with real-time search and analytics capabilities



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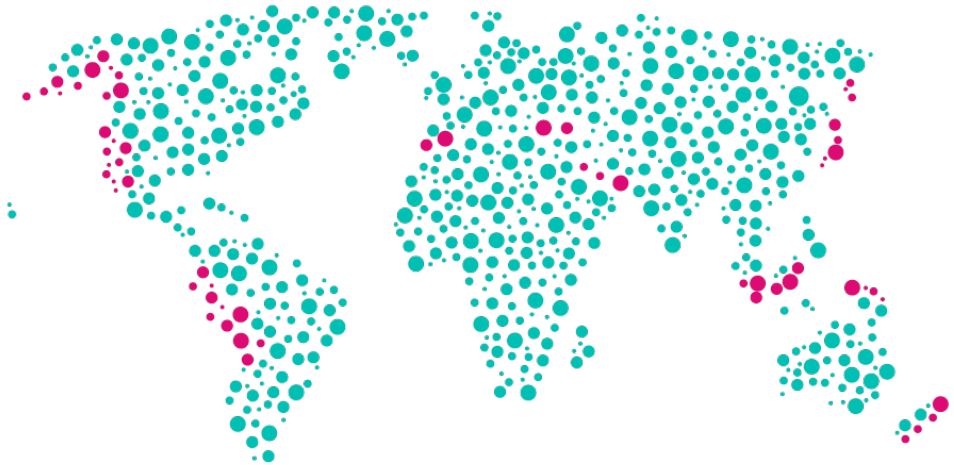
Kibana

Window into the Elastic Stack



Visualize and analyze	**Geospatial**	**Customize and Share Reports**
Graph Exploration	**UX to secure and manage the Elastic Stack**	**Build Custom Apps**

elastic

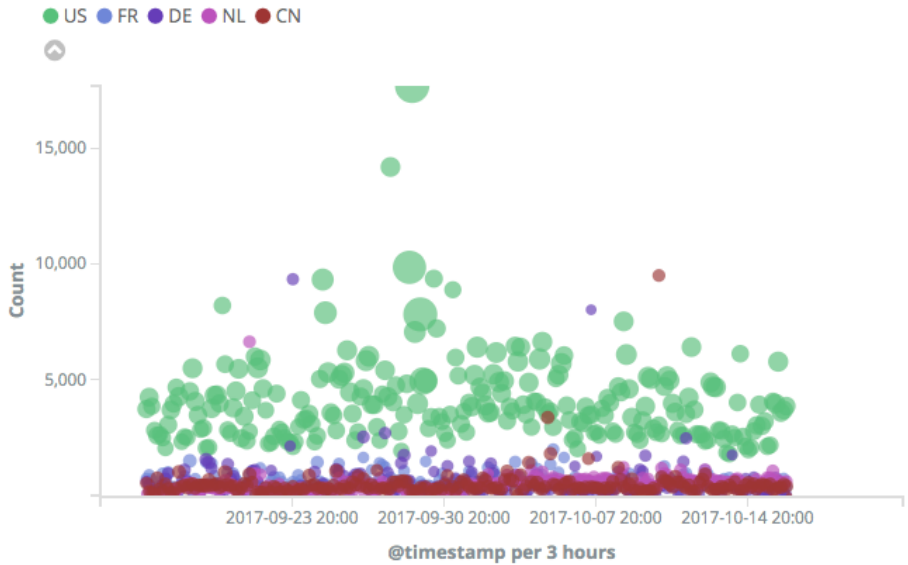
Apache - Total Visitors

2,317,838

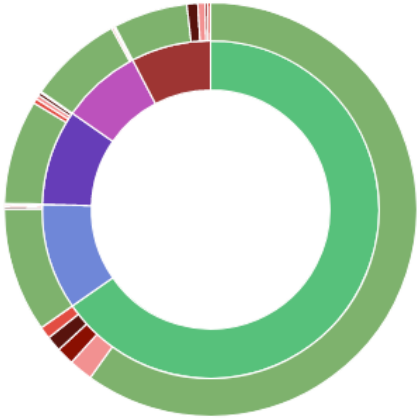
Apache - Unique Visitors

29,740

Apache - Bytes and Count



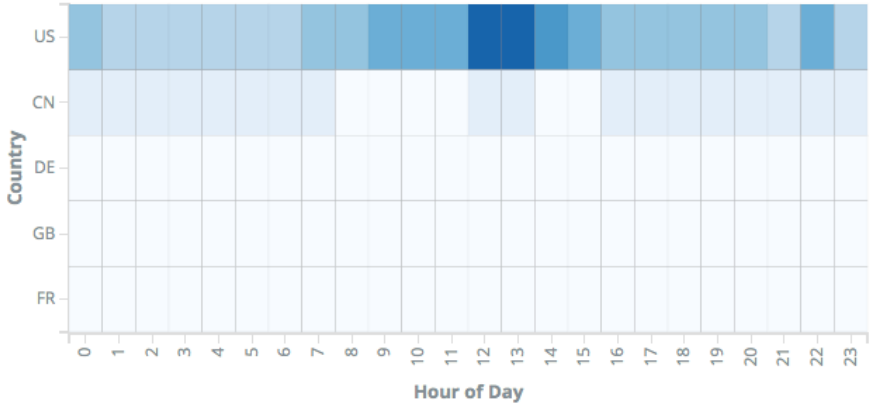
Apache - Country and Status



Apache - Unique Visitor...

City	Count of Unique Clients
Beijing	569
Ashburn	397
Redmond	383
Chicago	379
London	248
Los Angeles	232

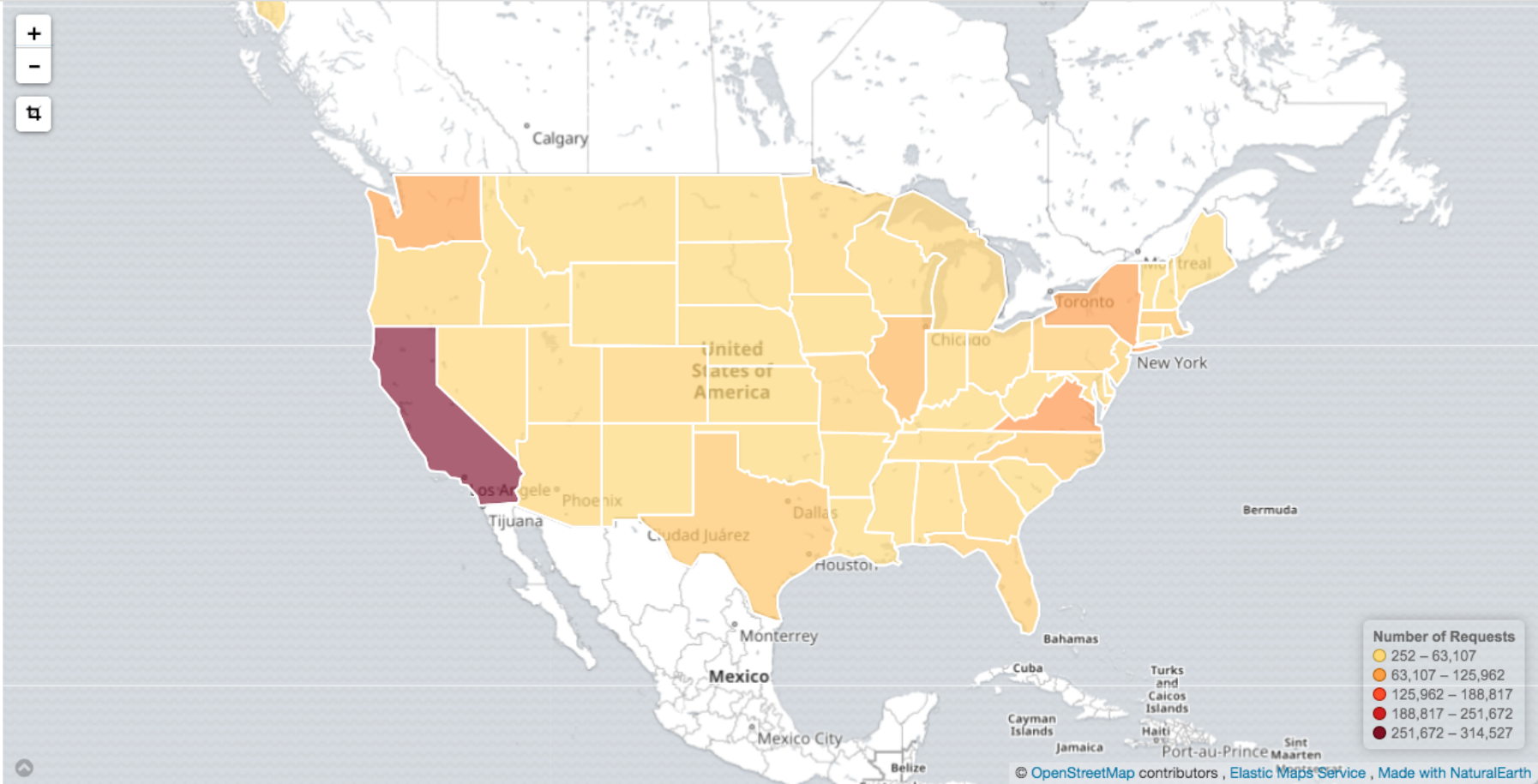
Apache - Country traffic by hour



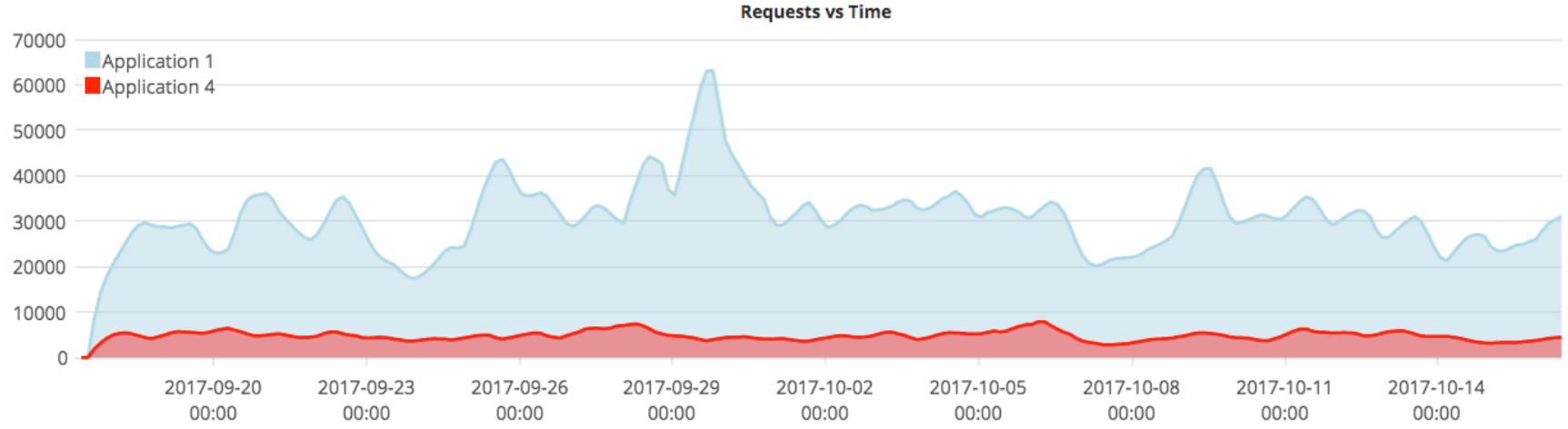
Apache - Top OS small

apache2.access.geoip.country_iso_code:US Uses lucene query syntax

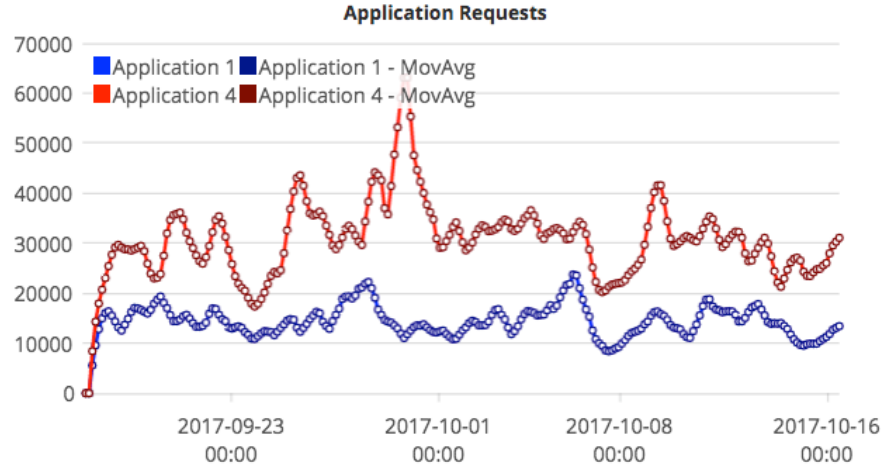
apache2.access.geoip.country_iso_code: "US" Add a filter + Actions



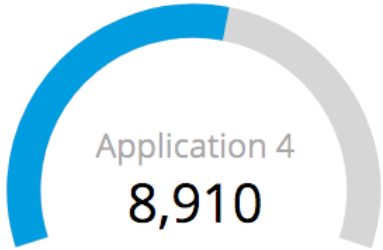
TS - Req v Time



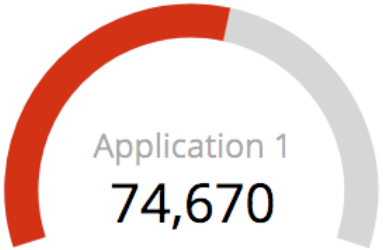
TS - App Requests

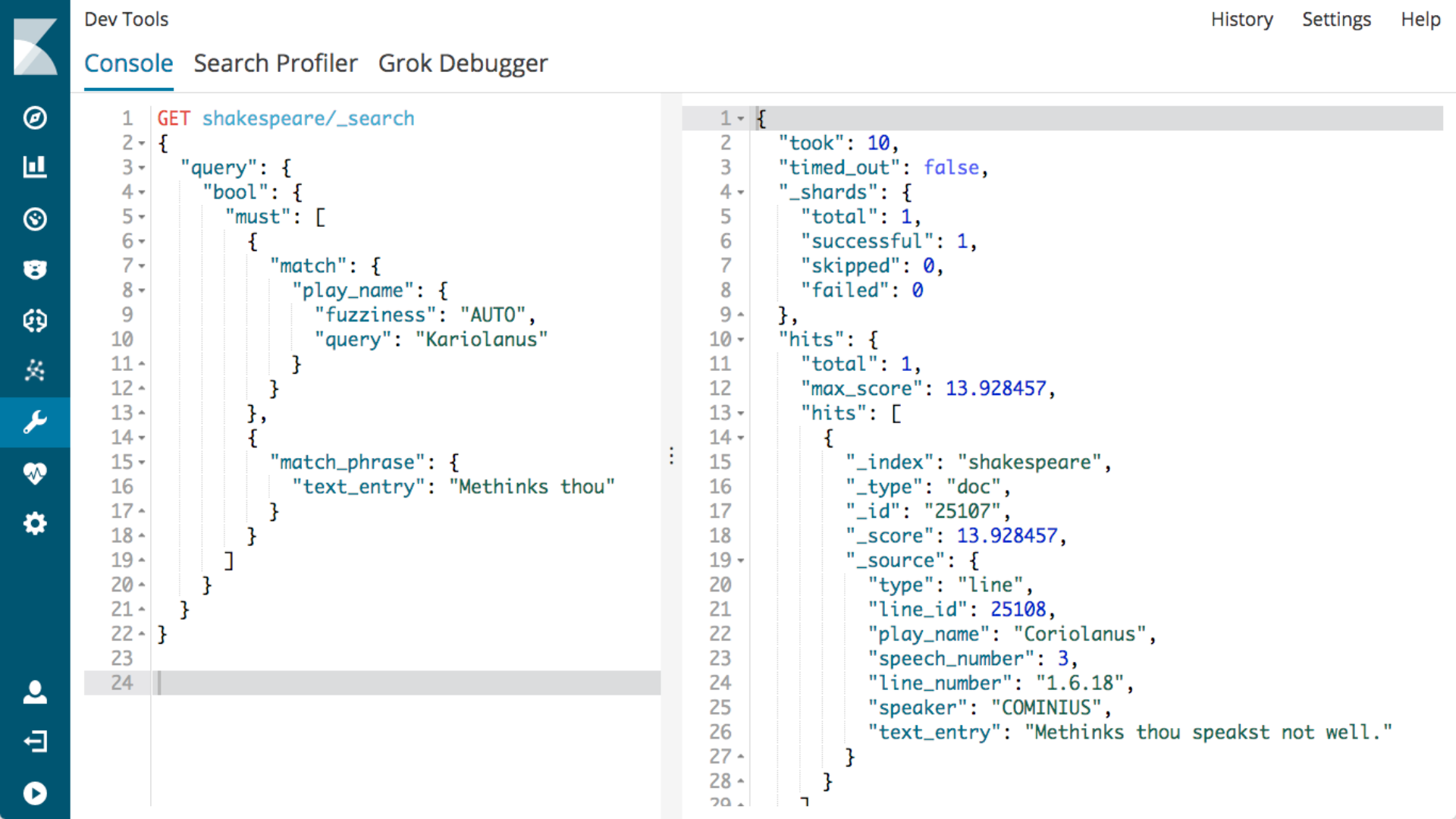


TS - App4



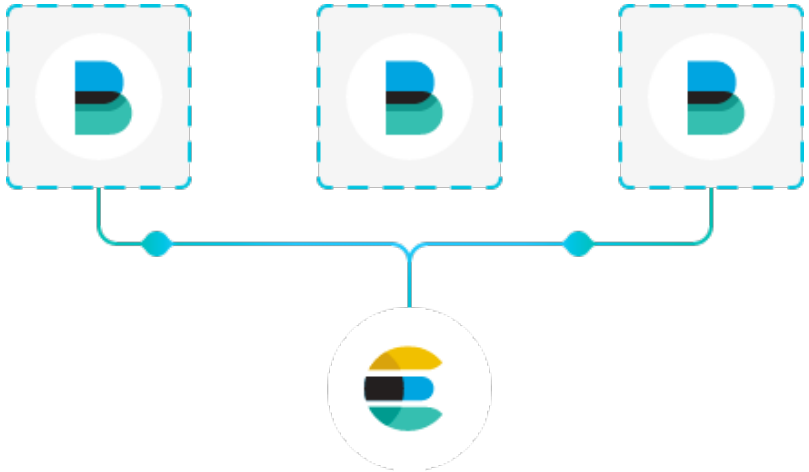
TS - App1



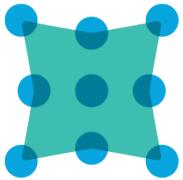

Dev Tools
History
Settings
Help
Console
Search Profiler
Grok Debugger
GET shakespeare/_search
{
"query": {
"bool": {
"must": [
{
"match": {
"play_name": {
"fuzziness": "AUTO",
"query": "Kariolanus"
}
}
},
{
"match_phrase": {
"text_entry": "Methinks thou"
}
}
]
}
}
}
{
"took": 10,
"timed_out": false,
"_shards": {
"total": 1,
"successful": 1,
"skipped": 0,
"failed": 0
},
"hits": {
"total": 1,
"max_score": 13.928457,
"hits": [
{
"_index": "shakespeare",
"_type": "doc",
"_id": "25107",
"_score": 13.928457,
"_source": {
"type": "line",
"line_id": 25108,
"play_name": "Coriolanus",
"speech_number": 3,
"line_number": "1.6.18",
"speaker": "COMINIUS",
"text_entry": "Methinks thou speakst not well."
}
}

Beats

Window into the Elastic Stack



Ship data from the source	**Ship and centralize in Elasticsearch**	**Ship to Logstash for transformation and parsing**
Ship to Elastic Cloud	**Libbeat: API framework to build custom beats**	**30+ community Beats**



PACKETBEAT
Network Data

METRICBEAT
Metrics

WINGLOGBEAT
Window Events

FILEBEAT
Log Files

HEARTBEAT
Uptime Monitoring

More than 30 community Beats and growing …

Apachebeat, dockbeat, httpbeat, mysqlbeat, nginxbeat, redis beats, twitterbeat, and more

beat.hostname:"orion.company.co"

Uses lucene query syntax

Add a filter +

System Navigation [Metricbeat System]

System Overview | Host Overview | Containers overview

CPU Usage Gauge [Metricbeat Syste...

CPU Usage
17.39%

Memory Usage Gauge [Metricbeat S...

Memory Usage
79.2%

Load Gauge [Metricbeat System]

5m Load
2.4

Inbound Traffic [Metricbeat System]

Inbound Traffic
5.3KB/s
Total Transfered 5.9MB

Outbound Traffic [Metricbeat System]

Outbound Traffic
776.2B/s
Total Transfered 2.8MB

Packetloss [Metricbeat System]

In Packetloss
0
Out Packetloss 2

Swap usage [Metricbeat System]

Swap usage
91.9%

Memory usage vs total

Memory usage
12.7GB
Total Memory 16.0GB

Number of processes [Metricbeat Sy...

Processes
25

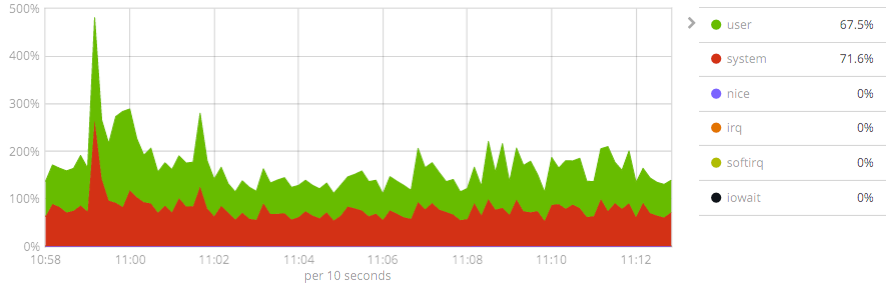
Disk used [Metricbeat System]

Disk used
39.44%

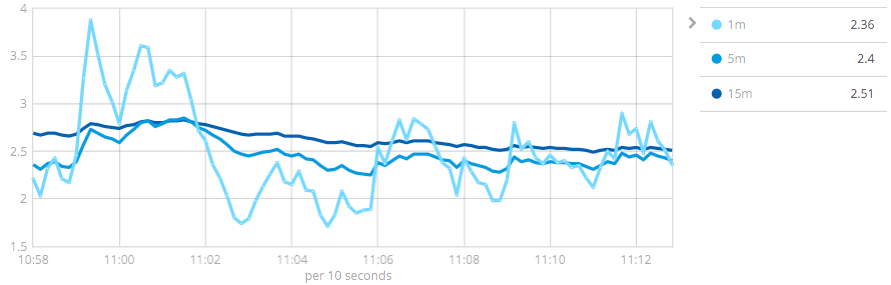
Disk Usage [Metricbeat System]

/Volumes/MobileBackups	100%
/	34.2%
/Volumes/Clone	25.9%
/Volumes/TimeMachine	25.4%
/net	0%
/home	0%

CPU Usage [Metricbeat System]

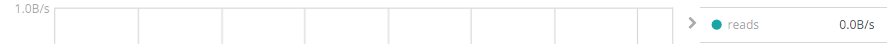


System Load [Metricbeat System]

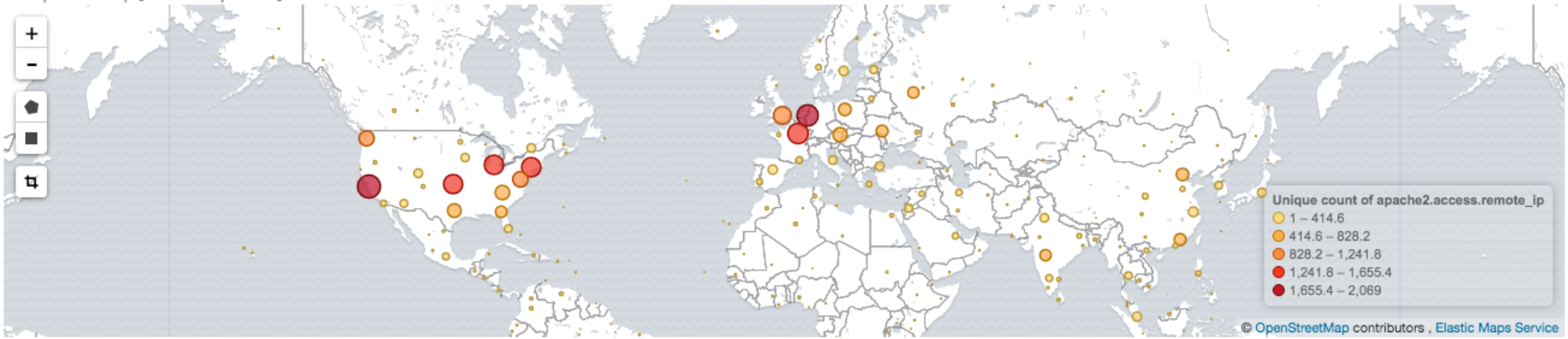


Memory Usage [Metricbeat System]

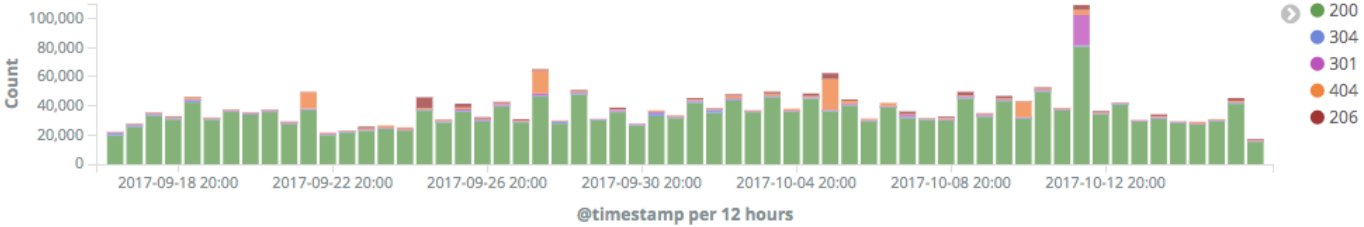
Disk IO (Bytes) [Metricbeat System]



Unique IPs map [Filebeat Apache2]

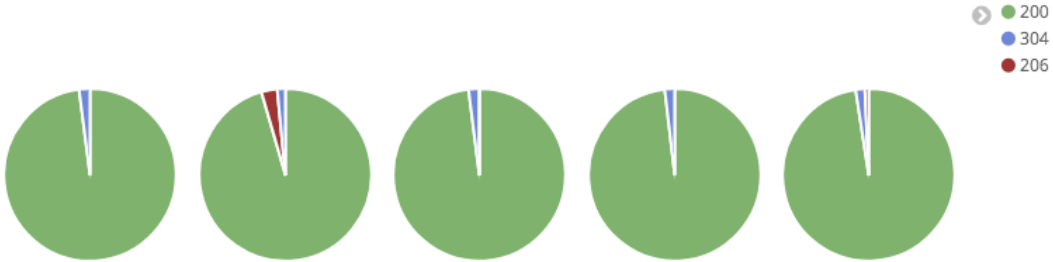


Response codes over time [Filebeat Apache2]

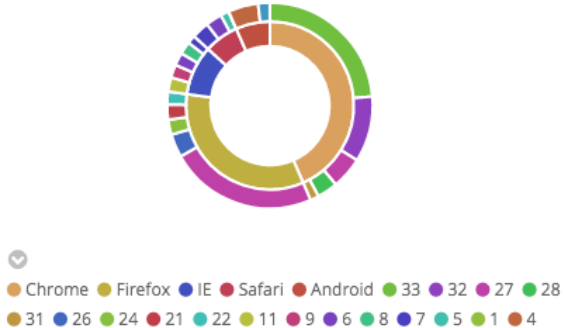


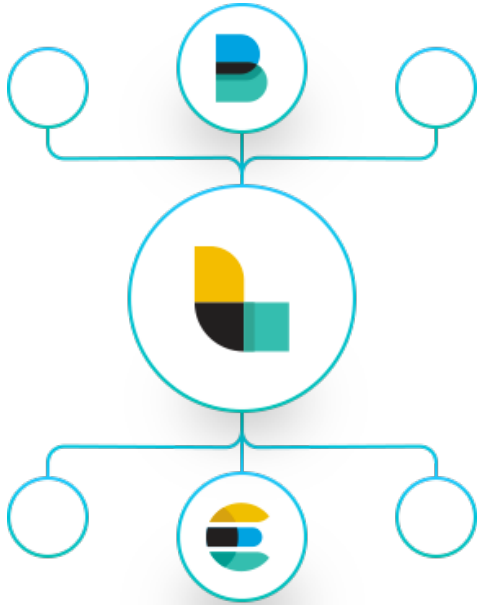
Operating systems breakd...

Top URLs by response code [Filebeat Apache2]



Browsers breakdown [Filebeat Apache2]



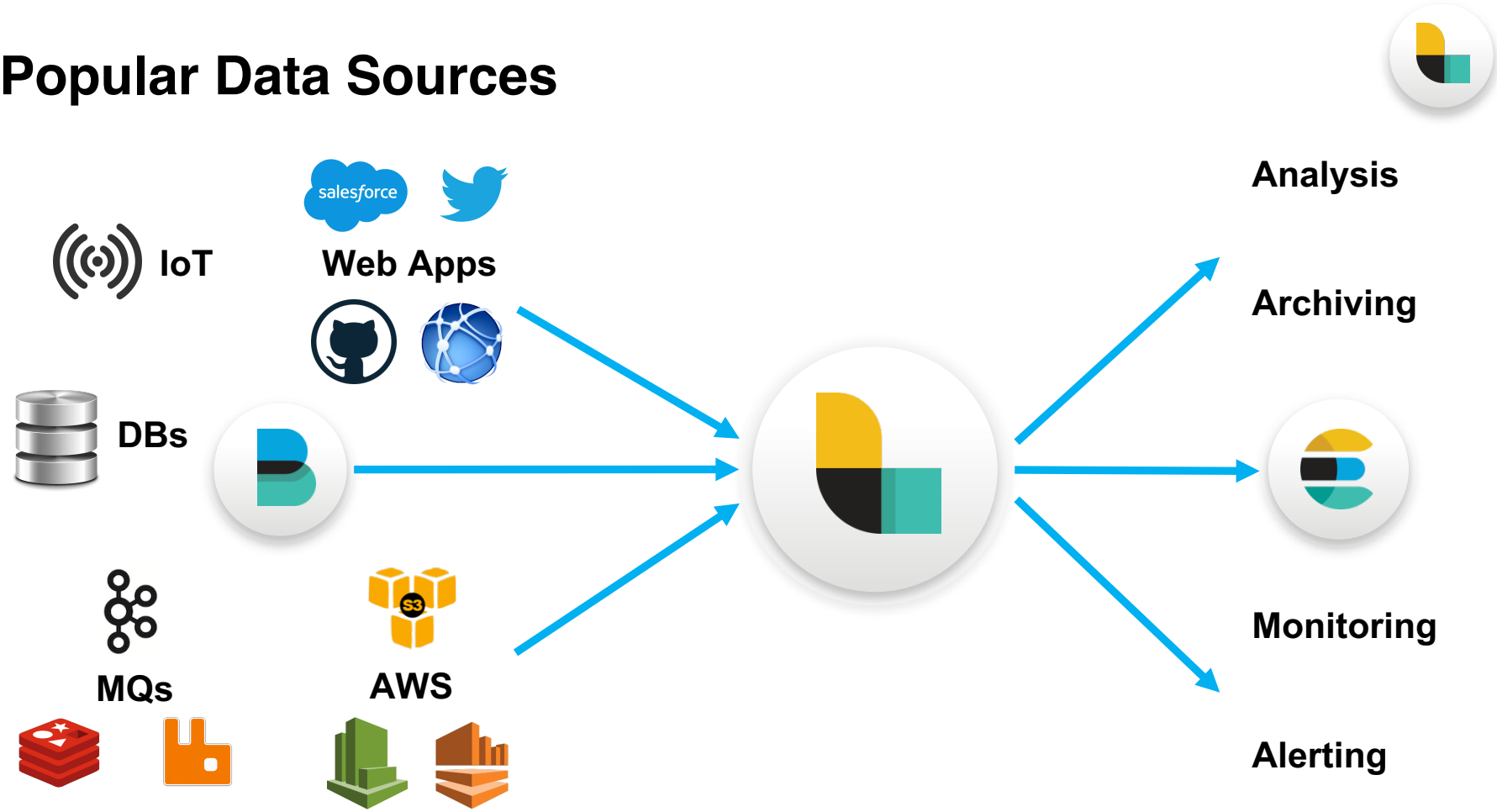


Logstash

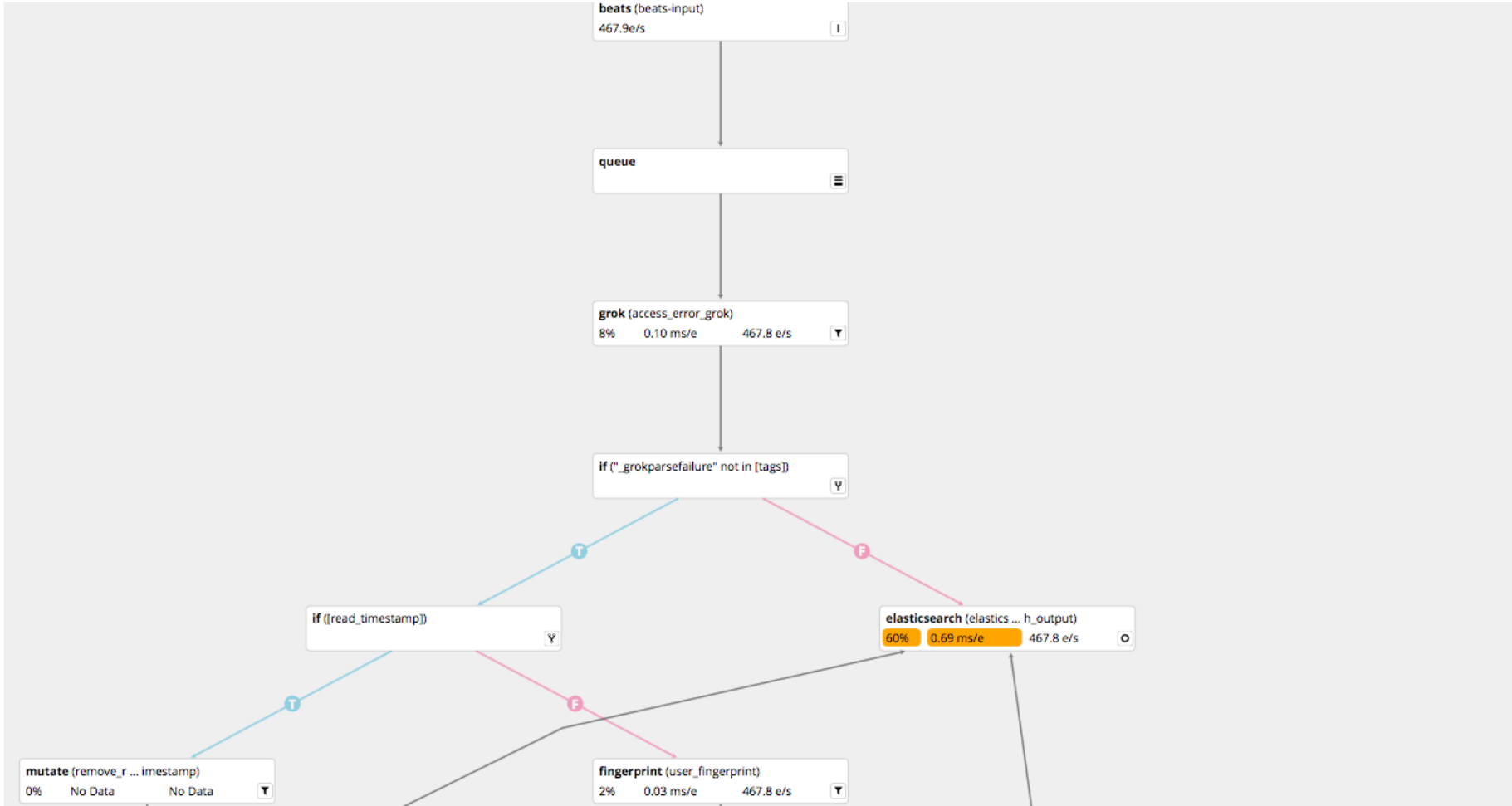
Data processing pipeline

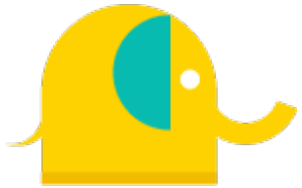
Ingest data of all shapes, sizes, and sources	**Parse and dynamically transform data**	**Transport data to any output**
Secure and encrypt data inputs	**Build your own pipeline**	**More than 200+ plugins**

Popular Data Sources



Version e456ab

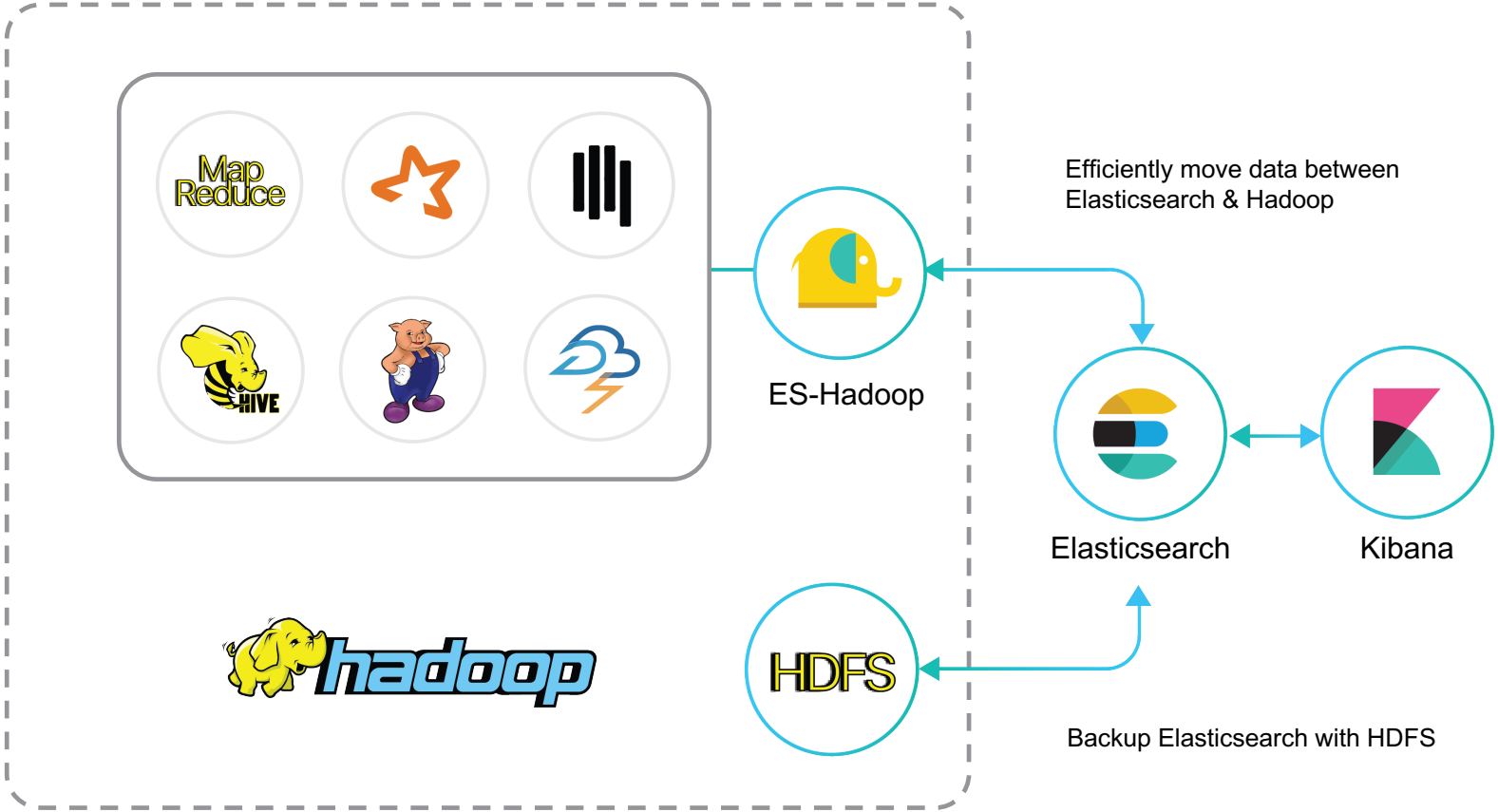




ES-Hadoop

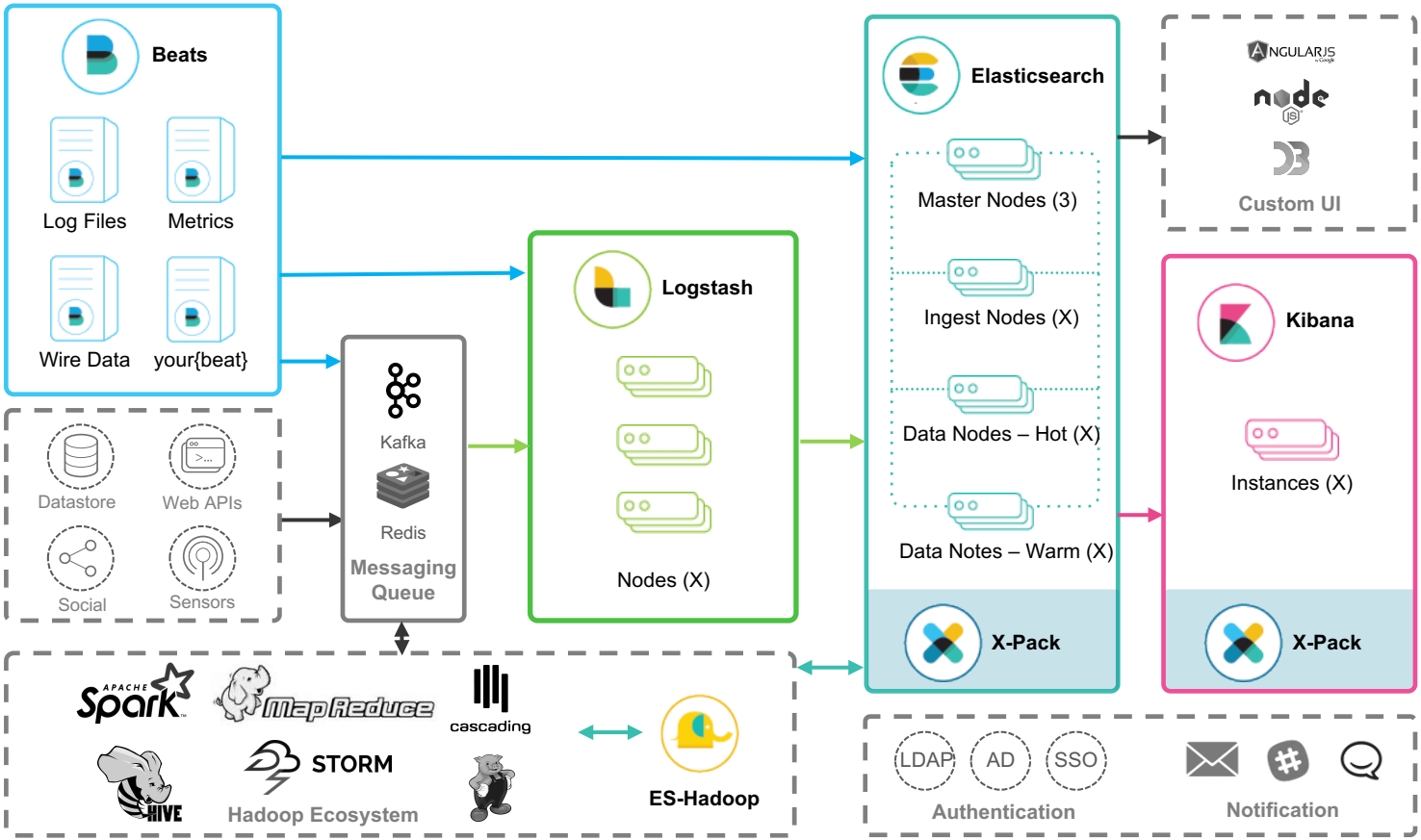
Elasticsearch for Hadoop

Two-way connector	**Index Hadoop data in Elasticsearch**	**Enable real-time search capabilities**
Visualize HDFS data in Kibana	**Snapshot and restore with HDFS**	**Support for Spark, Storm MapReduce, and more**


Map Reduce
HIVE
hadoop
ES-Hadoop
HDFS
Efficiently move data between Elasticsearch & Hadoop
Elasticsearch
Kibana
Backup Elasticsearch with HDFS

elastic

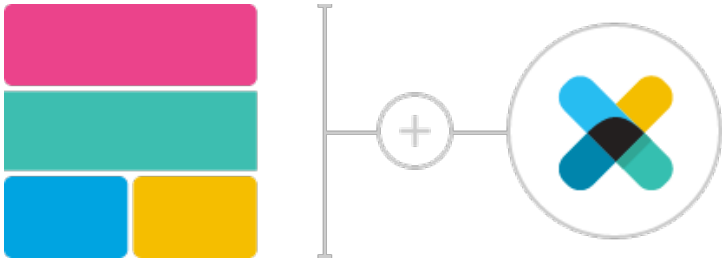
System Architecture



elastic

X-Pack

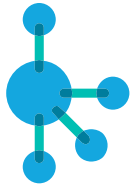
Extensions for the Elastic Stack



Security

Alerting

Monitoring



Graph

Reporting

Machine Learning

X-Pack

Security

AUTHENTICATION

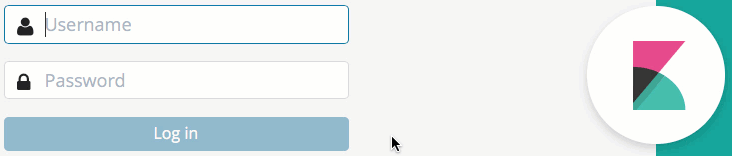
- Username and password
- Integrate with authentication systems
- Create a custom realm to authenticate users

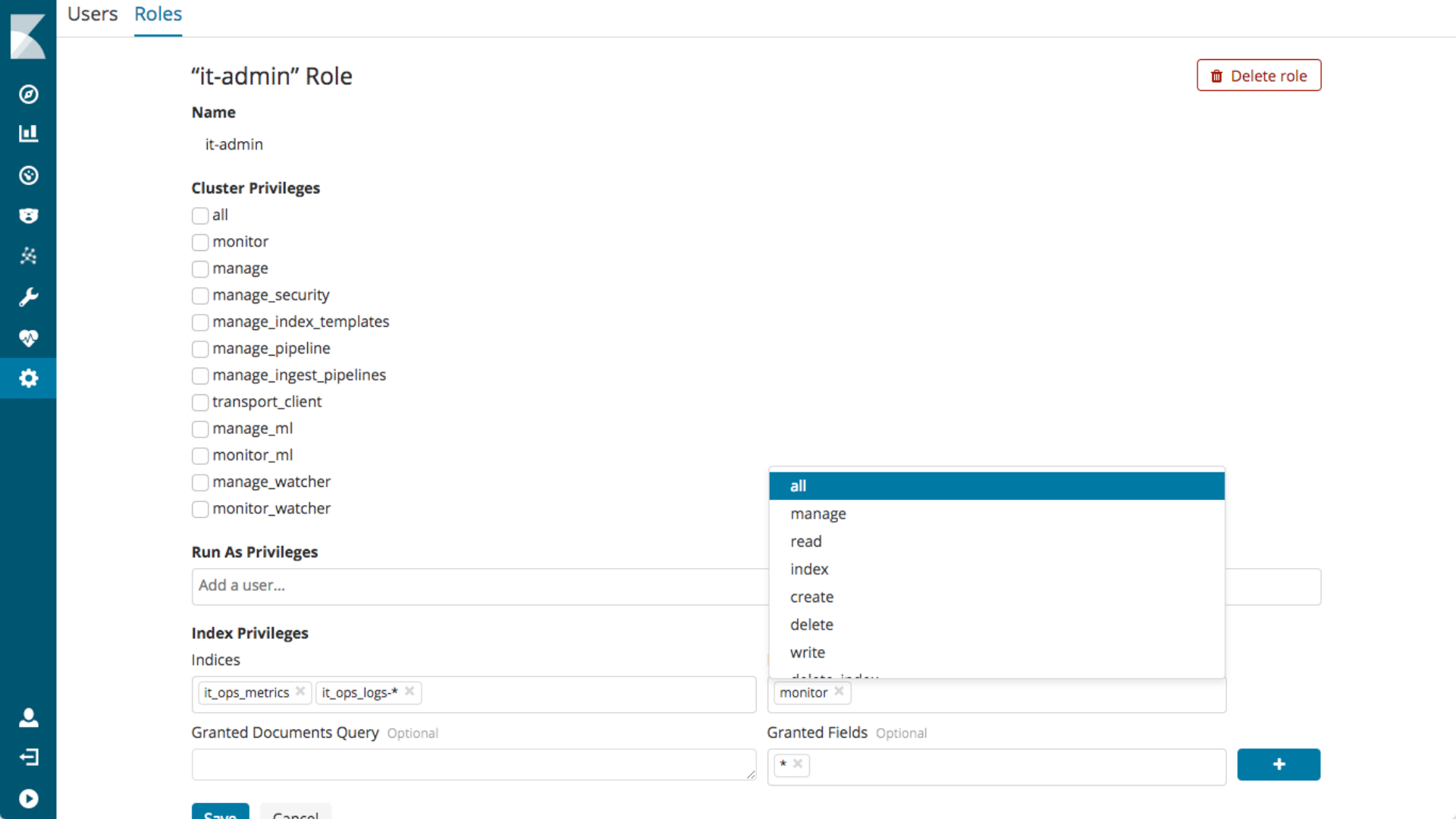
AUTHORITIZATION

- Manage users and roles
- Assign permissions and privileges

ADDITIONAL CONTROLS

- SSL/TLS encryption
- IP filtering
- Field and document level security
- Audit logging


Username
Password
Log in


Users
Roles
"it-admin" Role
Delete role
Name
it-admin
Cluster Privileges
all
monitor
manage
manage_security
manage_index_templates
manage_pipeline
manage_ingest_pipelines
transport_client
manage_ml
monitor_ml
manage_watcher
monitor_watcher
all
manage
read
index
create
delete
write
Run As Privileges
Add a user...
Index Privileges
Indices
it_ops_metrics
it_ops_logs-*
monitor
Granted Documents Query Optional
Granted Fields Optional
*
+
Save
Cancel

X-Pack

Alerting

SETUP ALERTS

- Create Watches to detect changes in your data
- Trigger automatic notifications
- Setup nested alerts
- Store and track alert history

NOTIFY AND INTEGRATE

- Email
- Slack
- Pagerduty
- Hipchat or JIRA
- Other monitoring systems

Status Edit

Host CPU Watcher

Send out an alert when specific conditions are met. This will run once every 5 minutes.

Name

Host CPU Watcher

Select an Index

metricbeat-* ×

Broad searches can be done by adding * to your query

Select a time field

@timestamp

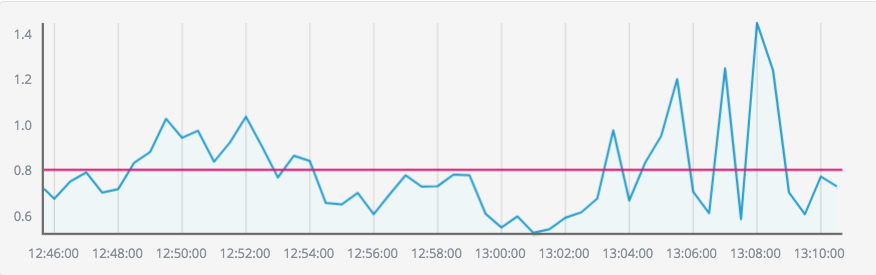
Run this watch every

5 minutes

Matching the following condition

WHEN average() OF system.cpu.user.pct GROUPED OVER top 5 'beat.hostname' IS ABOVE 0.8 FOR THE LAST 5 minutes

beat.hostname (1 of 3): orion.company.co



X-Pack

Monitoring

MONITOR CLUSTER HEALTH

- Prebuilt Kibana dashboards to monitor the performance of the Elastic Stack
- Get vital statistics at various levels -- cluster, node, and indices

OPTIMIZE CLUSTER PERFORMANCE

- Multicluster support to compare health and performance of multiple clusters
- Analyze historical or real-time data for root cause analyses
- Utilize analyses to proactively optimize and improve cluster performance
- Configure data retention policy

Nodes: **3** Indices: **24** Memory: **3GB / 5GB** Total Shards: **56** Unassigned Shards: **0** Documents: **3,665,331** Data: **3GB** Health: Green

Indices

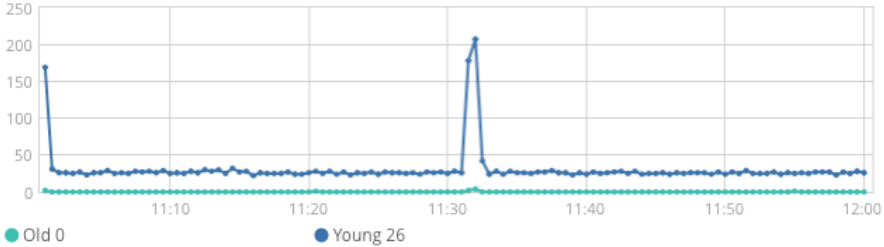
Filter Indices

3 of 3 Show system indices

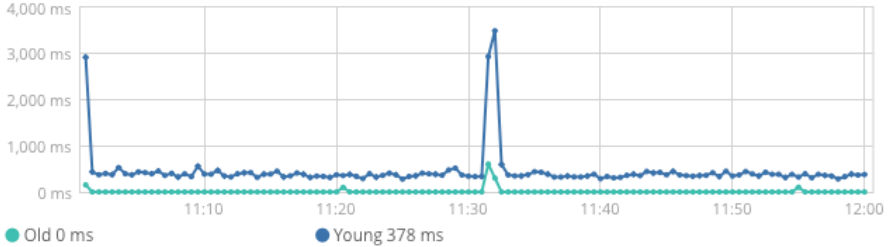
Name	Status	Document Count	Data	Index Rate	Search Rate	Unassigned Shards
elasticlogs-2017.10.12	Green	2m	1.3 GB	372.73 /s	0 /s	0
filebeat-6.0.0-rc1-2017.10.10	Green	994.7k	545.9 MB	0 /s	0 /s	0
filebeat-6.0.0-rc1-2017.10.11	Green	5.4k	2.1 MB	0 /s	0 /s	0

10.141.15.207:19471 JVM Heap: **17%** Free Disk Space: **101.1 GB** Documents: **3.6m** Data: **1.3 GB** Indices: **24** Shards: **28** Type: **Node** Health: Online

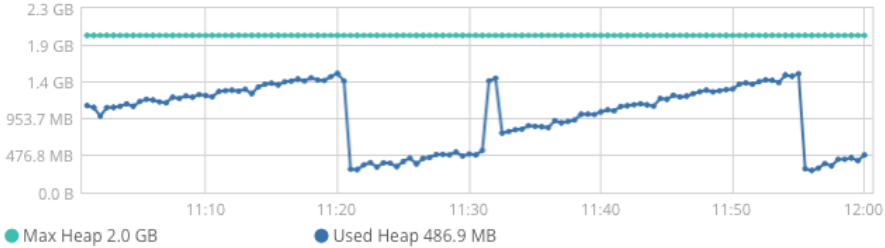
GC Count



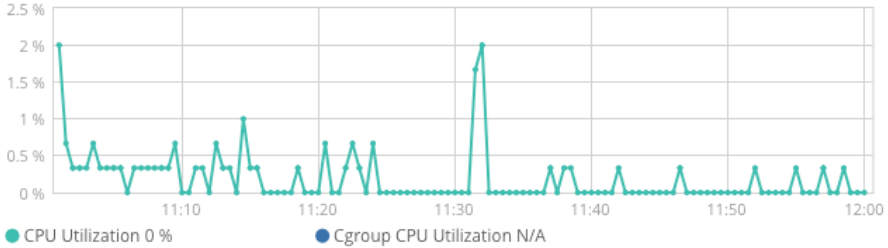
GC Duration (ms)



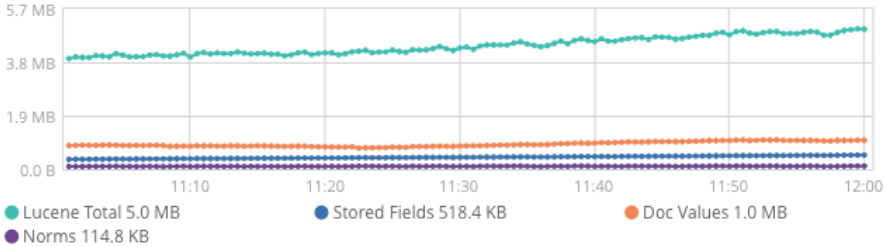
JVM Heap (GB)



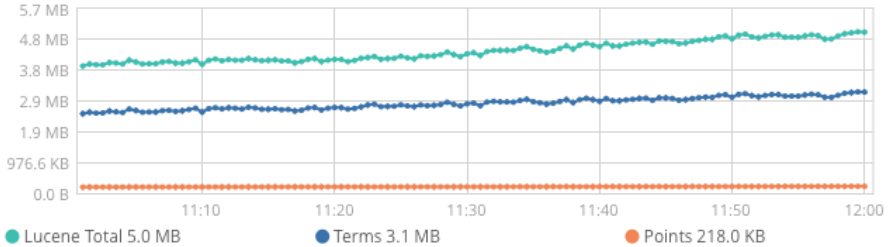
CPU Utilization (%)



Index Memory - Lucene 1 (MB)



Index Memory - Lucene 2 (MB)



X-Pack

Reporting

AUTOMATE SCHEDULING

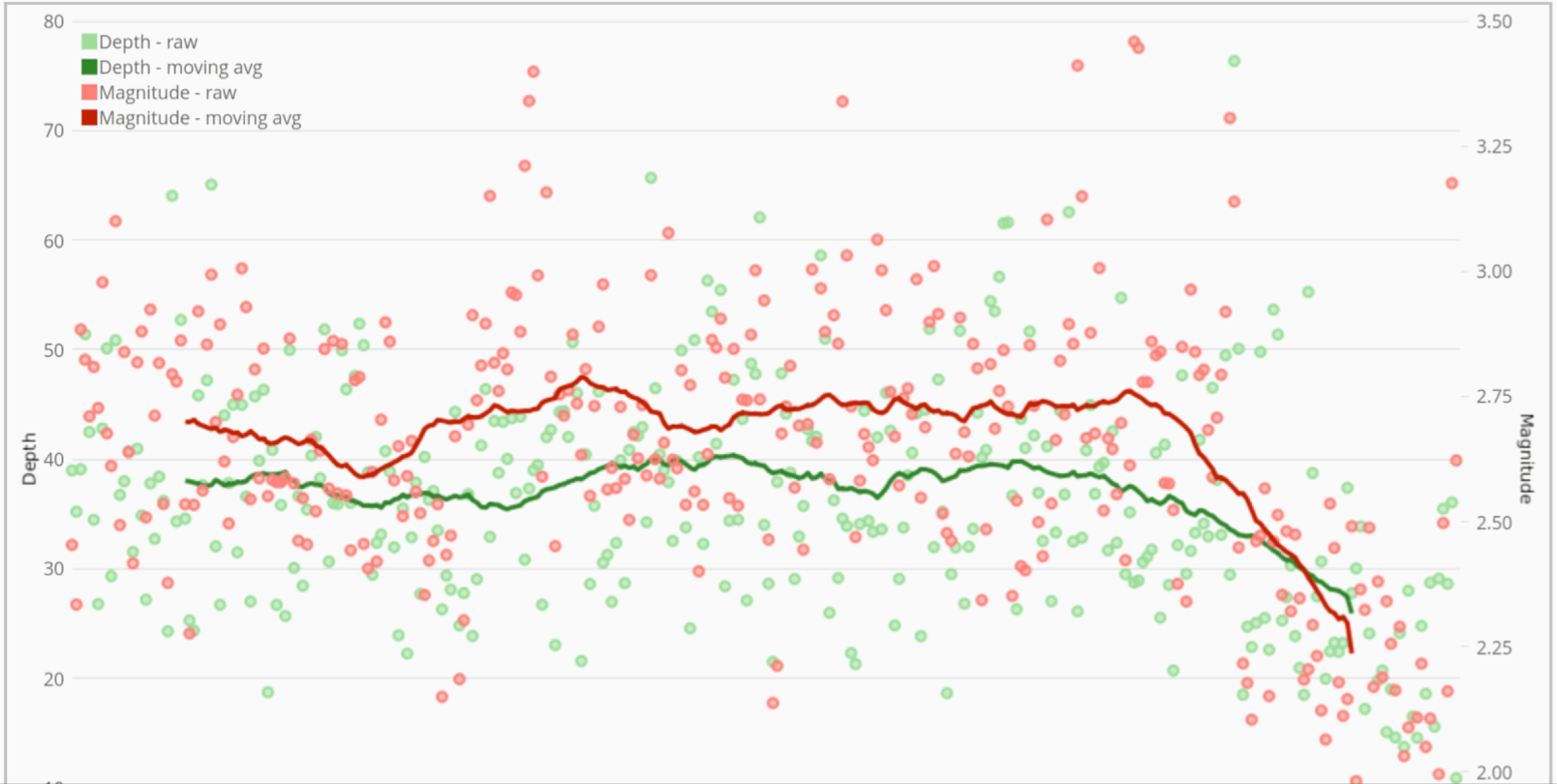
- Email recurring status updates daily, weekly, monthly, etc.
- Combine reporting with X-Pack alerting capabilities to trigger conditional reports

SHARE AND COLLABORATE

- Export any Kibana visualization or dashboard
- Print-optimized and PDF formatted
- Download and share past reports
- Export search results to CSV format.

Earthquake Summary — Fri, Jan 1, 2016 12:00 AM to Tue, Nov 15, 2016 6:42 AM

Earthquakes - depth v mag



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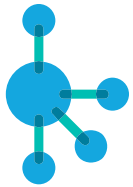
X-Pack



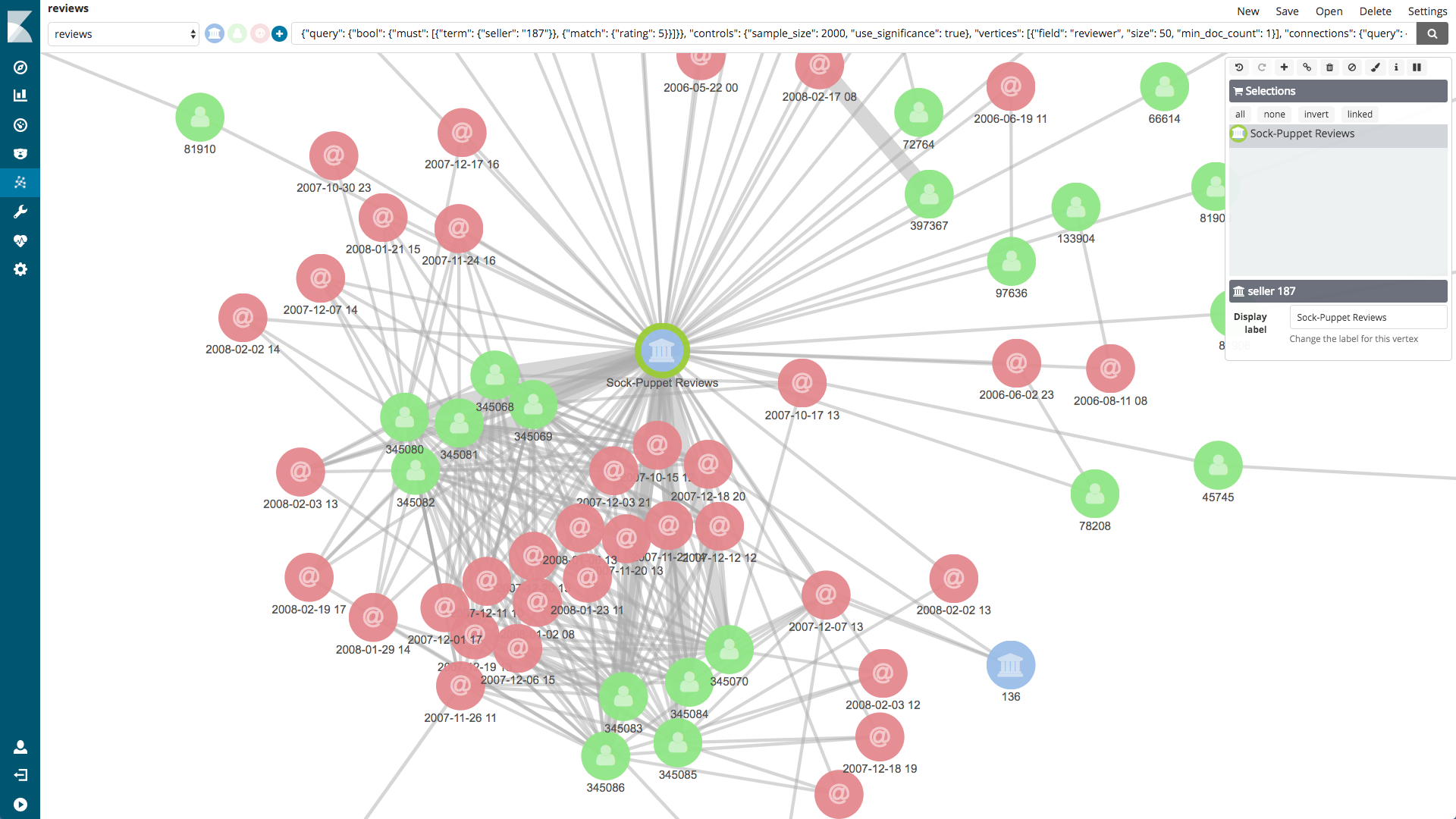
Graph

A NEW WAY TO EXPLORE DATA

- Uses relevance capabilities of Elasticsearch
- Discover linkages and connections
- Leverage API and UI-drive tool

EXTEND TO NEW USE CASES

- Fraud discovery
- Recommendations
- Cyber security
- Behavioral analyses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New
Save
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Delete
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Sock-Puppet Reviews
Change the label for this vertex
Sock-Puppet Reviews
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2007-10-30 23
2007-12-17 16
2008-01-21 15
2007-11-24 16
2007-12-07 14
2008-02-02 14
2006-05-22 00
2008-02-17 08
72764
2006-06-19 11
66614
397367
133904
8190
97636
2006-06-02 23
2006-08-11 08
2007-10-17 13
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345069
345080
345081
345082
2008-02-03 13
2007-12-03 21
2007-12-18 20
2008-02-19 17
2008-01-29 14
2007-12-01 17
2008-01-23 11
2007-12-06 15
2007-11-26 11
2007-12-07 13
2008-02-02 13
345070
345084
345083
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345086
136
2008-02-03 12
2007-12-18 19

X-Pack

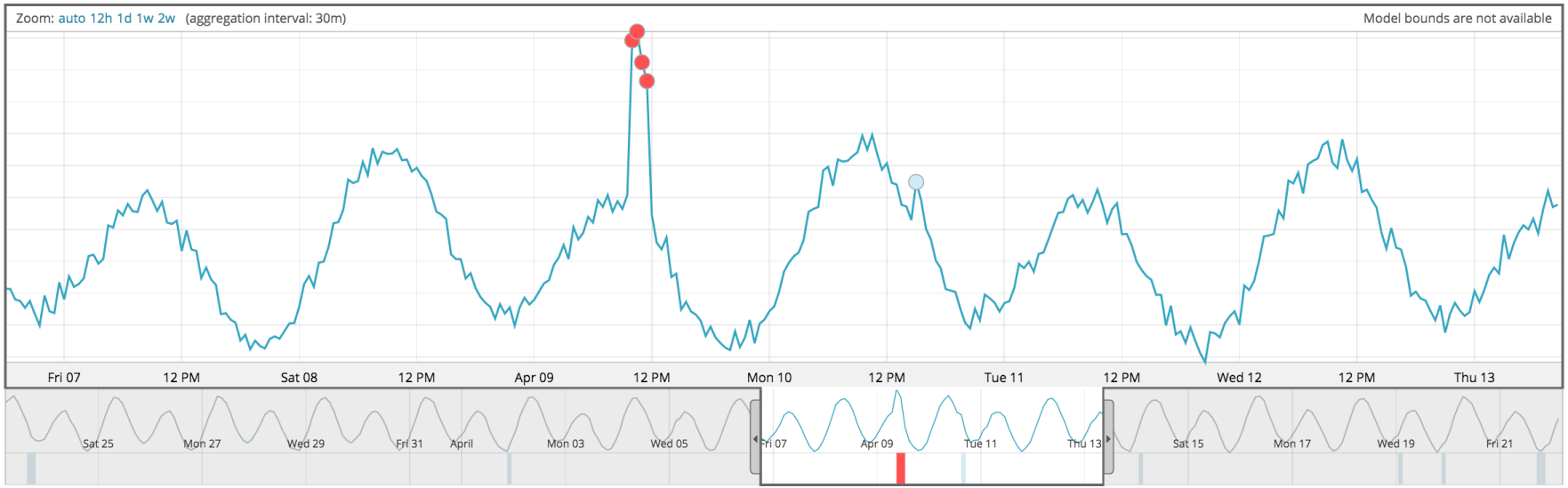
Machine Learning

UNSUPERVISED MACHINE LEARNING

- Automatically detect anomalies
- Advanced correlation and categorization
- Identify root cause(s)
- Expose early warning signs

ENABLE NEW USE CASES

- Analyze time series data
- Expand security, IT Ops, fraud, finance, and many more use cases
- Available as beta in the 5.4 release



Anomalies

Severity threshold: warning **Interval:** Auto

time	max severity	detector	found for	influenced by	actual	typical	description	job ID
April 9th 2017, 10:00	92	mean(response) (mm-job-3)	server_3	host: server_3 service: app_5	2.42113	2.31031	Unusually high	mm-job-3

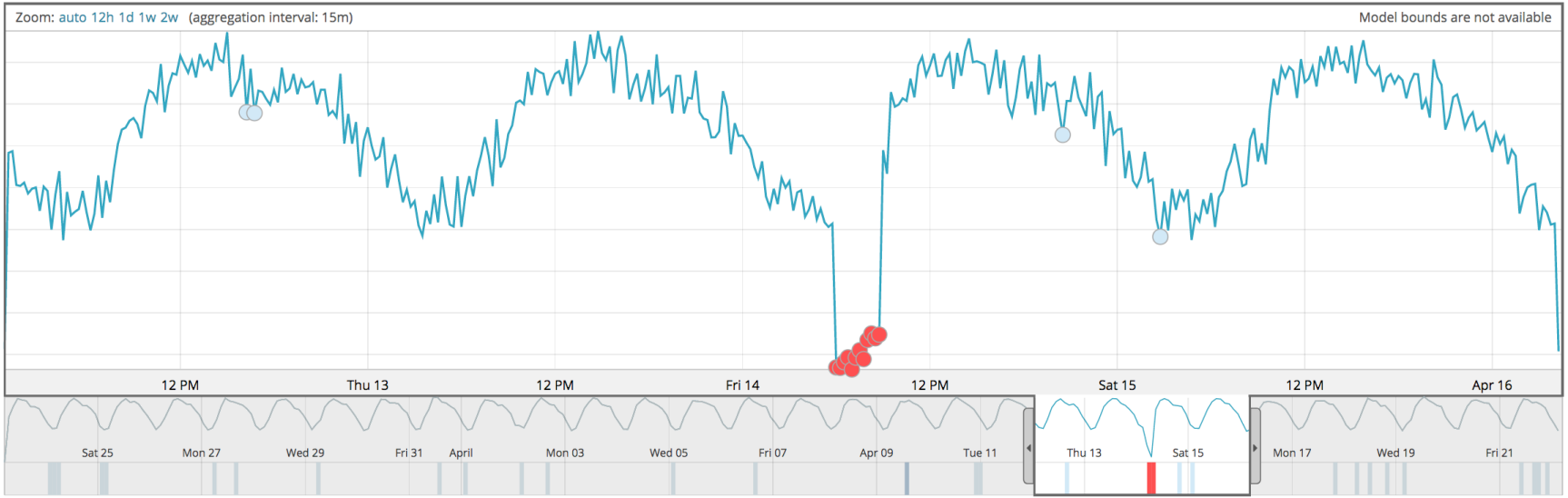
Description:
critical anomaly in mean(response) (mm-job-3) found for host server_3

Details on highest severity anomaly:

host:	server_3
time:	April 9th 2017, 10:15:00 to April 9th 2017, 10:30:00
function:	mean
fieldName:	response
actual:	2.42113
typical:	2.31031
job ID:	mm-job-3
probability:	5.59379e-13

Influenced by:

host	server_3
service	app_5



Anomalies

Severity threshold: warning **Interval:** Auto

time	max severity	detector	found for	influenced by	actual	typical	description	job ID
April 14th 2017	98	sum(total) (mm-job-4)	app_1	service: app_1	938905	1705380	2x lower	mm-job-4

Description:
critical anomaly in sum(total) (mm-job-4) found for service app_1

Details on highest severity anomaly:

service:	app_1
time:	April 14th 2017, 06:00:00 to April 14th 2017, 06:15:00
function:	sum
fieldName:	total
actual:	938905
typical:	1705380
job ID:	mm-job-4
probability:	4.84657e-20

Influenced by:

service	app_1

April 15th 2017	< 1	sum(total) (mm-job-4)	app_1	service: app_1	1564560	1789200	1.1x lower	mm-job-4
April 12th 2017	< 1	sum(total) (mm-job-4)	app_1	service: app_1	2156840	2353140	1.1x lower	mm-job-4

Chart interval: 1h Use full server* data

New job from index pattern server*

Job settings

Fields

event rate	Count
accept	Mean
deny	Mean
response	Mean
total	Sum

Sparse data

Split Data

host.keyword

Key Fields (Influencers)

- host.keyword
- service.keyword

Bucket span

30m Estimate bucket span

Job Details

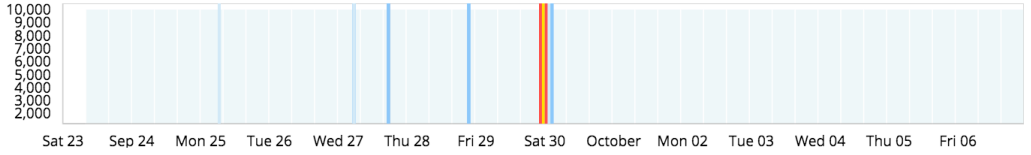
Job multimetric-1 created

Reset View Results

Continue job in real-time

Results

Document count



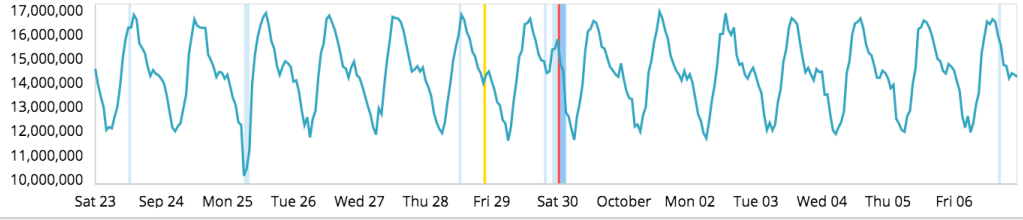
Data split by host.keyword

server_3

server_2

server_1

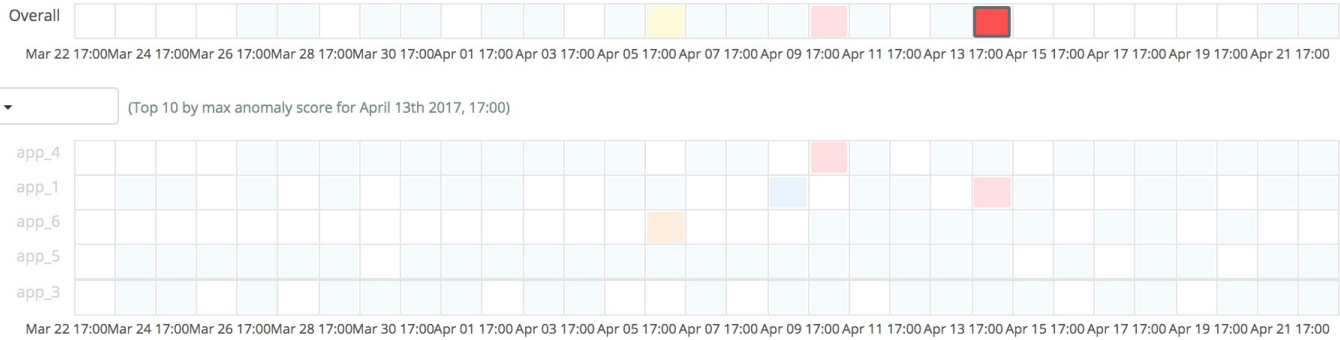
Sum total



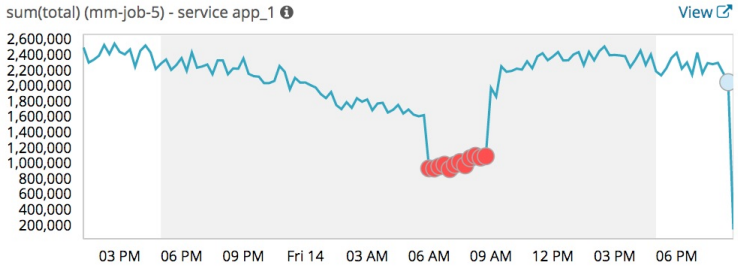
Top Influencers

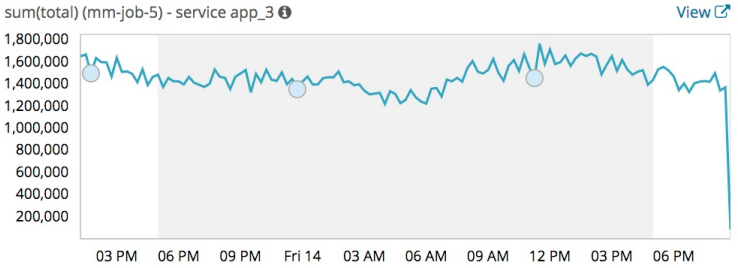
service		
app_4	99	1518
app_1	98	1024
app_6	57	203
app_0	5	11
app_5	2	5
app_2	< 1	2
app_3	< 1	1

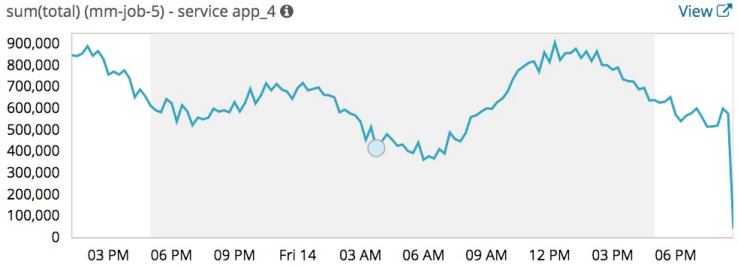
Anomaly timeline

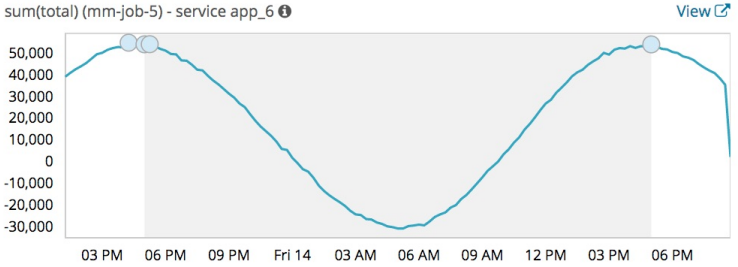


Anomalies



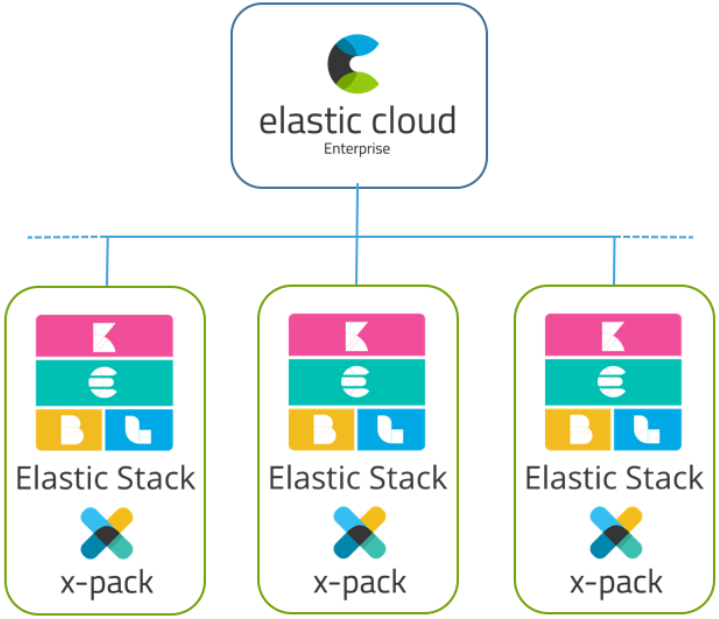




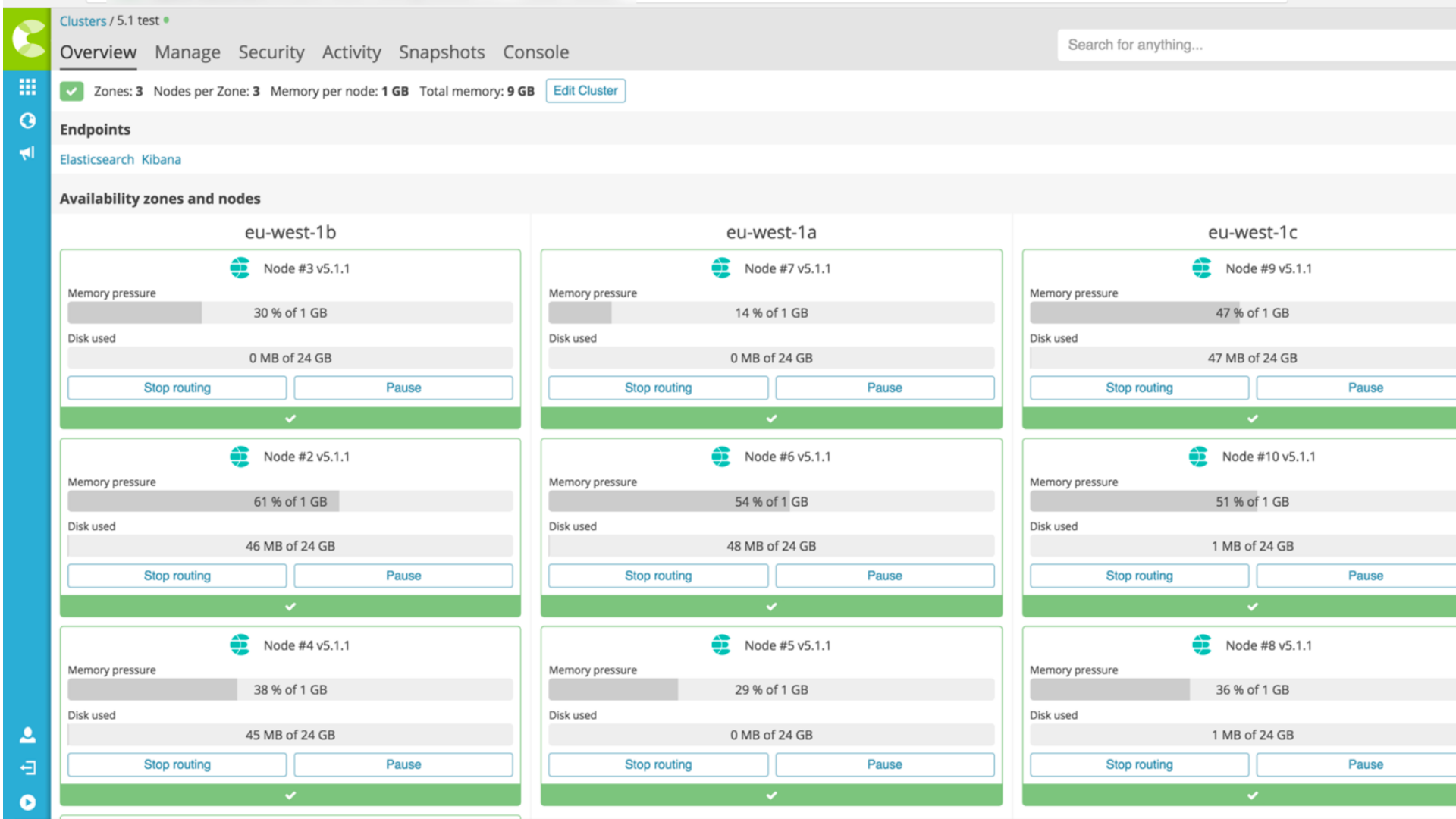


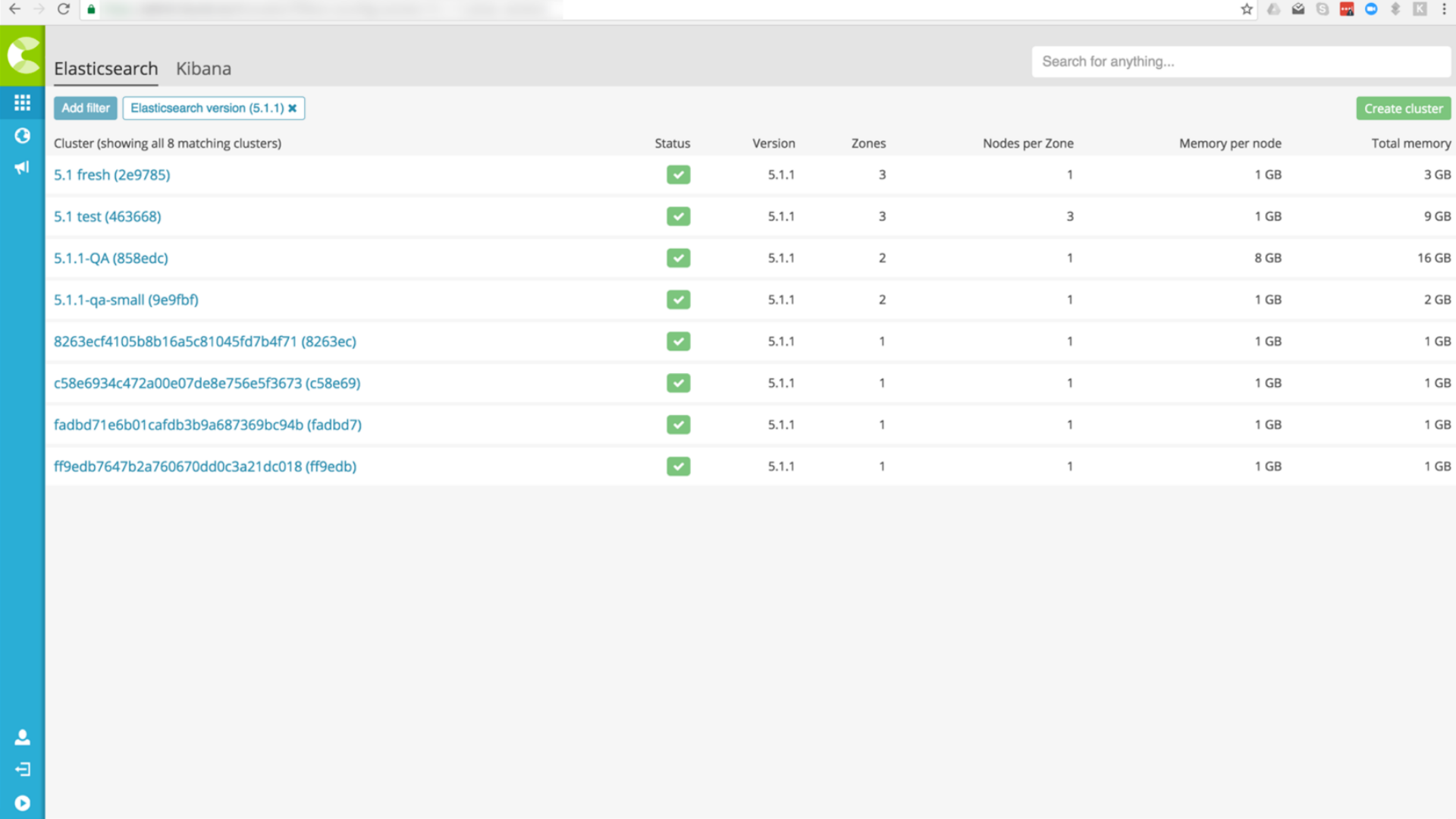
Elastic Cloud Enterprise

Provision and manage multiple Elastic Stack environments; Expose logging as a service to your entire organization



elastic


Clusters / 5.1 test
Overview
Manage
Security
Activity
Snapshots
Console
Search for anything...
Zones: 3 Nodes per Zone: 3 Memory per node: 1 GB Total memory: 9 GB
Edit Cluster
Endpoints
Elasticsearch Kibana
Availability zones and nodes
eu-west-1b
eu-west-1a
eu-west-1c
Node #3 v5.1.1
Memory pressure
30 % of 1 GB
Disk used
0 MB of 24 GB
Stop routing
Pause
Node #7 v5.1.1
Memory pressure
14 % of 1 GB
Disk used
0 MB of 24 GB
Stop routing
Pause
Node #9 v5.1.1
Memory pressure
47 % of 1 GB
Disk used
47 MB of 24 GB
Stop routing
Pause
Node #2 v5.1.1
Memory pressure
61 % of 1 GB
Disk used
46 MB of 24 GB
Stop routing
Pause
Node #6 v5.1.1
Memory pressure
54 % of 1 GB
Disk used
48 MB of 24 GB
Stop routing
Pause
Node #10 v5.1.1
Memory pressure
51 % of 1 GB
Disk used
1 MB of 24 GB
Stop routing
Pause
Node #4 v5.1.1
Memory pressure
38 % of 1 GB
Disk used
45 MB of 24 GB
Stop routing
Pause
Node #5 v5.1.1
Memory pressure
29 % of 1 GB
Disk used
0 MB of 24 GB
Stop routing
Pause
Node #8 v5.1.1
Memory pressure
36 % of 1 GB
Disk used
1 MB of 24 GB
Stop routing
Pause


Elasticsearch
Kibana
Search for anything...
Add filter
Elasticsearch version (5.1.1) ✖
Create cluster
Cluster (showing all 8 matching clusters)
Status
Version
Zones
Nodes per Zone
Memory per node
Total memory
5.1 fresh (2e9785)
5.1.1
3
1
1 GB
3 GB
5.1 test (463668)
5.1.1
3
3
1 GB
9 GB
5.1.1-QA (858edc)
5.1.1
2
1
8 GB
16 GB
5.1.1-qa-small (9e9fbf)
5.1.1
2
1
1 GB
2 GB
8263ecf4105b8b16a5c81045fd7b4f71 (8263ec)
5.1.1
1
1
1 GB
1 GB
c58e6934c472a00e07de8e756e5f3673 (c58e69)
5.1.1
1
1
1 GB
1 GB
fadbd71e6b01cafdb3b9a687369bc94b (fadbd7)
5.1.1
1
1
1 GB
1 GB
ff9edb7647b2a760670dd0c3a21dc018 (ff9edb)
5.1.1
1
1
1 GB
1 GB

Available capacity

Zone	elasticsearch	elasticsearch_data	elasticsearch_master_only	kibana	non_ssd	
eu-west-1a	333.38 GB	293.81 GB	43.63 GB	43.63 GB	43.63 GB	289.75
eu-west-1b	541 GB	508.25 GB	33.5 GB	33.5 GB	33.5 GB	507.5
eu-west-1c	343.13 GB	290.13 GB	89.63 GB	89.63 GB	89.63 GB	253.5

eu-west-1a

Allocator	Status	Available capacity	Node distribution
[redacted]	✓	234 GB	
[redacted]	✓	27 GB	
[redacted]	✓	23.25 GB	
[redacted]	✓	19 GB	
[redacted]	✓	9.25 GB	
[redacted]	✓	4.5 GB	
[redacted]	✓	3.19 GB	
[redacted]	✓	3.19 GB	
[redacted]	✓	2 GB	
[redacted]	✓	1.56 GB	
[redacted]	✓	1.25 GB	
[redacted]	✓	1.13 GB	
[redacted]	✓	1 GB	
[redacted]	✓	512 MB	

THANK YOU

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