

# Chapter 1

Elasticsearch   **eshadoopcluster** **cluster health: yellow (6 of 12)**

Overview Indices Browser Structured Query [\[+\]](#) Any Request [\[+\]](#)

**Cluster Overview** [Sort Cluster](#) [View Aliases](#)

**.marvel-2015.05.10**


size: 18.9Mi (18.9Mi)  
docs: 6,092 (6,092)

[Info](#) [Actions](#)

**eshadoop**

size: 32.1ki (32.1ki)  
docs: 232 (232)

[Info](#) [Actions](#)

 **Unassigned**

0

0 1 2 3 4

 **ES Hadoop Node**

[Info](#) [Actions](#)

0

0 1 2 3 4

Overview Indices Browser Structured Query [\[+\]](#) Any Request [\[+\]](#)

**Browser**

All Indices

**Indices**

.marvel-2015.05.10

eshadoop

**Types**

\_default\_

cluster\_event

cluster\_state

cluster\_stats

index\_event

index\_stats

indices\_stats

node\_event

node\_stats

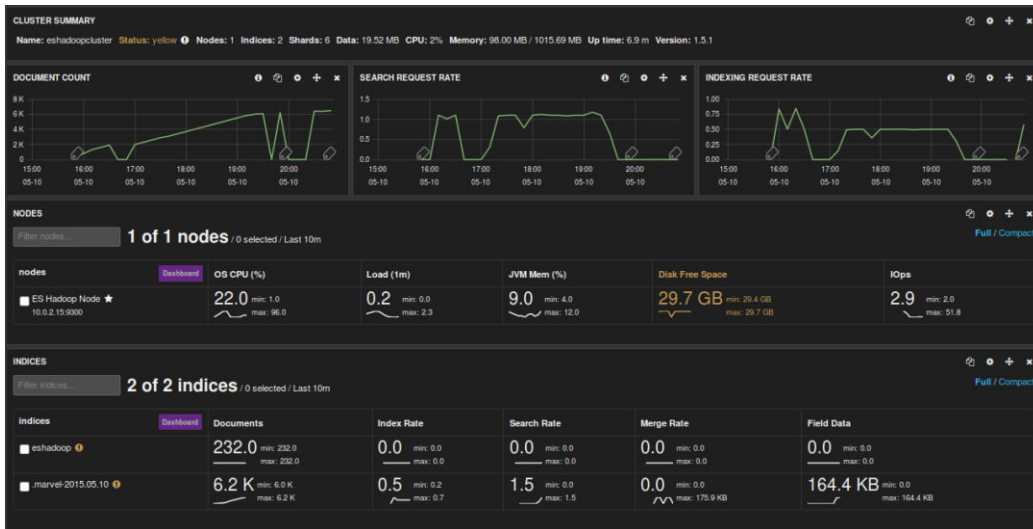
routing\_event

shard\_event

wordcount

Searched 5 of 5 shards. 232 hits. 0.006 seconds

_index	_type	_id	_score	count	word
eshadoop	wordcount	AU0-Z1QB_uhaCt797Fmf		14	the
eshadoop	wordcount	AU0-Z1QA_uhaCt797Fk3		14	elasticsearch-hadoop
eshadoop	wordcount	AU0-Z1QA_uhaCt797Fj_		13	and
eshadoop	wordcount	AU0-Z1QB_uhaCt797Fmk		11	to
eshadoop	wordcount	AU0-Z1P_uhaCt797Fjf		10	Elasticsearch
eshadoop	wordcount	AU0-Z1P_uhaCt797Fjj		8	Hadoop
eshadoop	wordcount	AU0-Z1QA_uhaCt797Fiv		6	is
eshadoop	wordcount	AU0-Z1QA_uhaCt797Fii		6	for
eshadoop	wordcount	AU0-Z1P_uhaCt797Fjt		5	Pig
eshadoop	wordcount	AU0-Z1QB_uhaCt797Fi4		5	or
eshadoop	wordcount	AU0-Z1QB_uhaCt797Fix		5	of
eshadoop	wordcount	AU0-Z1QB_uhaCt797Fm3		5	your
eshadoop	wordcount	AU0-Z1QA_uhaCt797Fkk		4	data
eshadoop	wordcount	AU0-Z1QA_uhaCt797Fiy		4	its
eshadoop	wordcount	AU0-Z1QB_uhaCt797FmX		4	support



Server localhost:9200

```

1 GET eshadoop/_search
2 {
3   "query": {
4     "match_all": {}
5   }
6 }

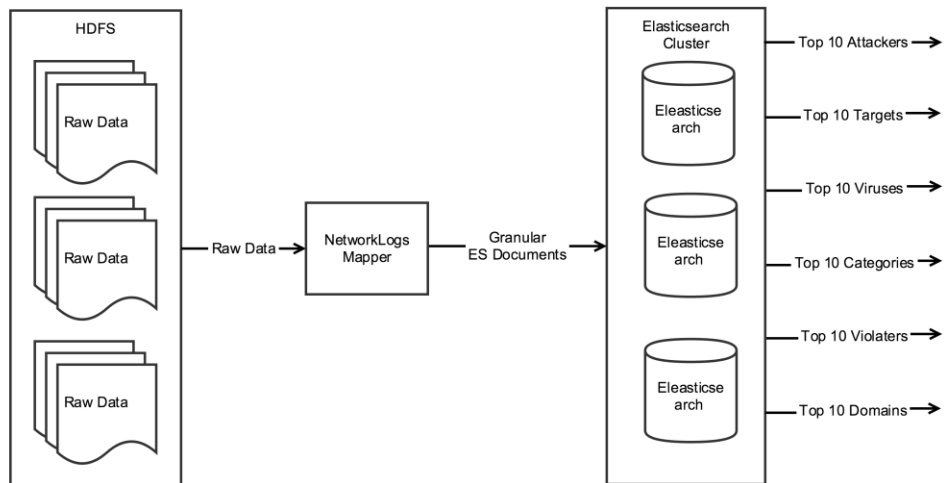
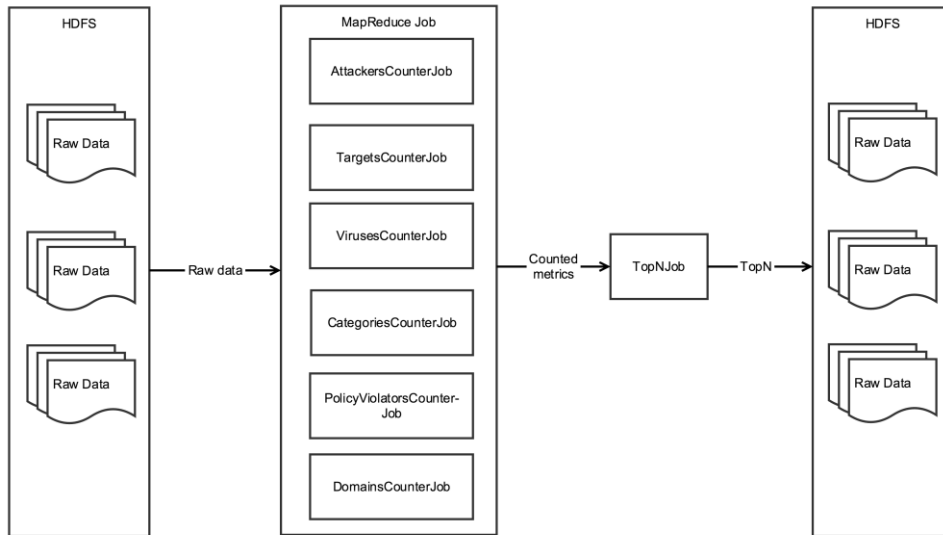
```

```

1 {
2   "took": 15,
3   "timed_out": false,
4   "_shards": {
5     "total": 5,
6     "successful": 5,
7     "failed": 0
8   },
9   "hits": {
10    "total": 232,
11    "max_score": 1,
12    "hits": [
13     {
14       "_index": "eshadoop",
15       "_type": "wordcount",
16       "_id": "AUG-Z1P_uhaCt797FjU",
17       "_score": 1,
18       "_source": {
19         "count": 1,
20         "word": "1.x"
21       }
22     },
23     {
24       "_index": "eshadoop",
25       "_type": "wordcount",
26       "_id": "AUG-Z1P_uhaCt797FjZ",
27       "_score": 1,
28       "_source": {
29         "count": 1,
30         "word": "Adaptive"
31       }
32     },
33     {
34       "_index": "eshadoop",
35       "_type": "wordcount",
36       "_id": "AUG-Z1P_uhaCt797Fjd",
37       "_score": 1,
38       "_source": {
39         "count": 2,
40         "word": "At"
41       }
42     }
43   ]
44 }

```

## Chapter 2



**Elasticsearch** http://localhost:9200/ Connect **eshadoopcluster** cluster health: yellow (6 of 12)

Overview Indices Browser Structured Query [+1] Any Request [+1]

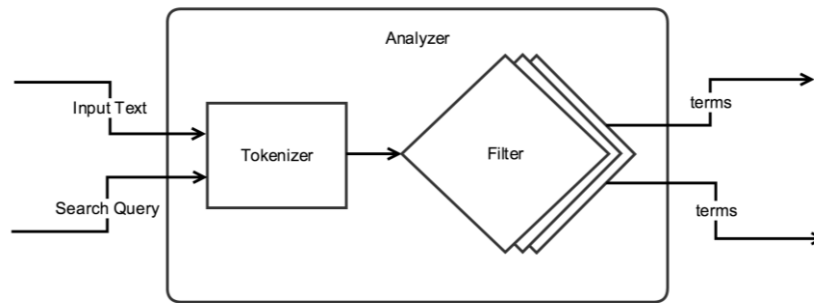
**Browser**

All Indices

Searched 6 of 6 shards. 13556 hits. 0.012 seconds

index	_type	_id	_score	domain	destip
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxj	1	108.162.202.183	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxk	1	212.58.246.94	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxl	1	175.100.185.227	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxm	1	198.105.199.145	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxn	1	74.125.236.167.443	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogso	1	158.98	36.63.158.98:16503
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxp	1	210.212.198.1	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxq	1	217.239.240.34	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxr	1	173.194.36.4.443	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxs	1	54.253.197.51405	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxt	1	76.64	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxu	1	74.125.236.882	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxv	1	74.125.236.882	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxw	1	74.125.236.223	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxx	1	74.125.200.102.0	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxy	1	69.28.185.12	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxz	1	208.111.135.212	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxa	1	31.222.66.39	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxb	1	207.46.194.46	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxc	1	210.212.198.1	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxd	1	175.100.185.227	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxe	1	69.164.37.162	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxf	1	195.78.231.46	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxg	1	231.46	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxh	1	208.111.128.7	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxi	1	175.100.185.227	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxj	1	137.130	119.154.137.130:1029
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxk	1	4.28.136.39.0	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxl	1	67.221.174.31	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxm	1	10.120	172.16.10.120
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxn	1	4.28.136.39.0	
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogso	1	2.22%2%22ServerTimest[314ut[315U034M266	173.194.78.156:0
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxp	1	10.120	172.16.10.120
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxq	1	firewallleaktester.com	208.73.210.214
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxr	1	plutokm.com	54.169.86.161
esh_network	network_logs_ALLOW	AU2RQ3FMhhZmLYogsxs	1	shaadi.com	54.225.100.9

## Chapter 3



# Chapter 4

## Configure an index pattern

In order to use Kibana you must configure at least one index pattern. Index patterns are used to identify the Elasticsearch index to run search and analytics against. They are also used to configure fields.

Index contains time-based events

Use event times to create index names

**Index name or pattern**

Patterns allow you to define dynamic index names using \* as a wildcard. Example: logstash-\*

logstash-\*

Unable to fetch mapping. Do you have indices matching the pattern?

The screenshot shows the Kibana interface with the search bar containing an empty query. The search results are empty, displaying a message: "No results found 😊". Below this message, there are two sections: "Expand your time range" and "Refine your query". The "Expand your time range" section explains that the query might not match anything in the current time range and suggests using the time picker. The "Refine your query" section explains that the search bar uses Elasticsearch's Lucene Query String syntax. Below the main content, there is a time range picker menu with various options categorized into Quick, Relative, and Absolute.

Discover Visualize Dashboard Settings Last 15 minutes

esh\_complaints 0 hits

**No results found 😊**

Unfortunately I could not find any results matching your search. I tried really hard. I looked all over the place and frankly, I just couldn't find anything good. Help me, help you. Here's some ideas:

**Expand your time range**

I see you are looking at an index with a date field. It is possible your query does not match anything in the current time range, or that there is no data at all in the currently selected time range. Click the button below to open the time picker. For future reference you can open the time picker by clicking the **time picker** in the top right corner of your screen.

**Refine your query**

The search bar at the top uses Elasticsearch's support for Lucene Query String syntax. Let's say we're searching web server logs that have been parsed into a few fields.

Discover Visualize Dashboard Settings Auto-refresh Last 15 minutes

<b>Quick</b>	Today	Yesterday	Last 15 minutes	Last 30 days
	This week	Day before yesterday	Last 30 minutes	Last 60 days
<b>Relative</b>	This month	This day last week	Last 1 hour	Last 90 days
	This year	Previous week	Last 4 hours	Last 6 months
<b>Absolute</b>	The day so far	Previous month	Last 12 hours	Last 1 year
	Week to date	Previous year	Last 24 hours	Last 2 years
	Month to date		Last 7 days	Last 5 years
	Year to date			

**esh\_complaints** es-storm hrms

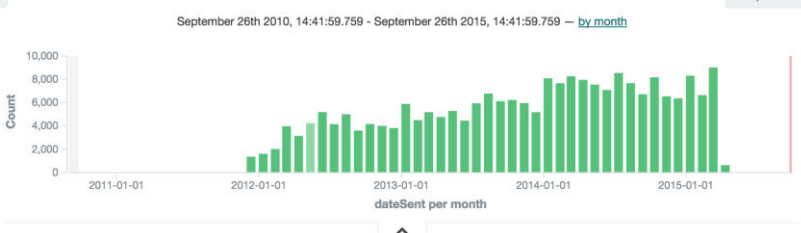
Selected Fields

- ? \_source

Available Fields

- ? \_id
- ? \_index
- ? \_type
- ? company
- ? companyResponse
- ? complaintId
- ? consumerDisputed
- ? dateReceived
- ? dateSent
- ? issue
- ? issue.raw
- ? location
- ? product

228,050 hits



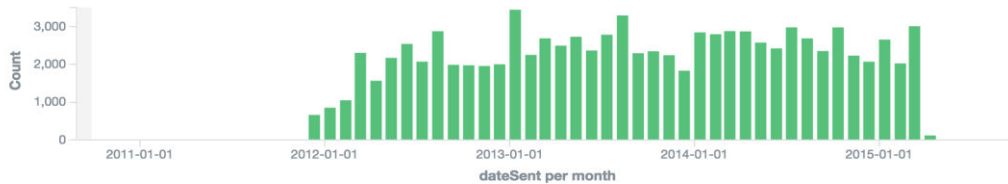
Time

Time	_source
April 20th 2015, 05:30:00.000	<pre> <b>timelyResponse:</b> true <b>issue.raw:</b> Cont'd attempts collect debt not owed <b>consumerDisputed:</b> - <b>companyResponse:</b> Closed with explanation <b>product:</b> Debt collection <b>subissue:</b> Debt is not mine <b>complaintId:</b> 133667 <b>zip:</b> 70748 <b>subproduct:</b> Other (phone, health club, etc.) <b>state:</b> LA <b>submittedVia:</b> Web <b>dateReceived:</b> April 20th 2015, 05:30:00.000           </pre>
April 20th 2015, 05:30:00.000	<pre> <b>timelyResponse:</b> true <b>issue.raw:</b> Loan modification, collection, foreclosure <b>consumerDisputed:</b> - <b>companyResponse:</b> Closed with explanation <b>product:</b> Mortgage <b>subissue:</b> <b>complaintId:</b> 1332387 <b>zip:</b> 98371 <b>subproduct:</b> Other mortgage <b>state:</b> WA <b>submittedVia:</b> Referral <b>dateReceived:</b> April 16th 2015, 05:30:00.000 <b>company:</b> Quality Loan Servic           </pre>

April 20th 2015, 05:30:00.000 1332387 Mortgage Loan modification, collection, foreclosure

[Table](#) [JSON](#) [Link to /esh\\_complaints/complaints/AU89Hib6E2xL0yMazTA0](#)

? _id	AU89Hib6E2xL0yMazTA0
? _index	esh_complaints
? _type	complaints
? company	Quality Loan Service Corporation
? companyResponse	Closed with explanation
? complaintId	1332387
? consumerDisputed	-
? dateReceived	April 16th 2015, 05:30:00.000
? dateSent	April 20th 2015, 05:30:00.000
? issue	Loan modification, collection, foreclosure
? issue.raw	Loan modification, collection, foreclosure
? location	47.196272, -122.31577
? product	Mortgage



Time	complaintId	product	issue
▶ April 20th 2015, 05:30:00.000	1332387	Mortgage	Loan modification, collection, foreclosure
▶ April 20th 2015, 05:30:00.000	1336622	Mortgage	Loan servicing, payments, escrow account
▼ April 20th 2015, 05:30:00.000	1324585	Consumer loan	Managing the loan or lease

[Table](#)
[JSON](#)
[Link to /esh\\_complaints/complaints/AU89G1uLE2xL0yMayzIF](#)

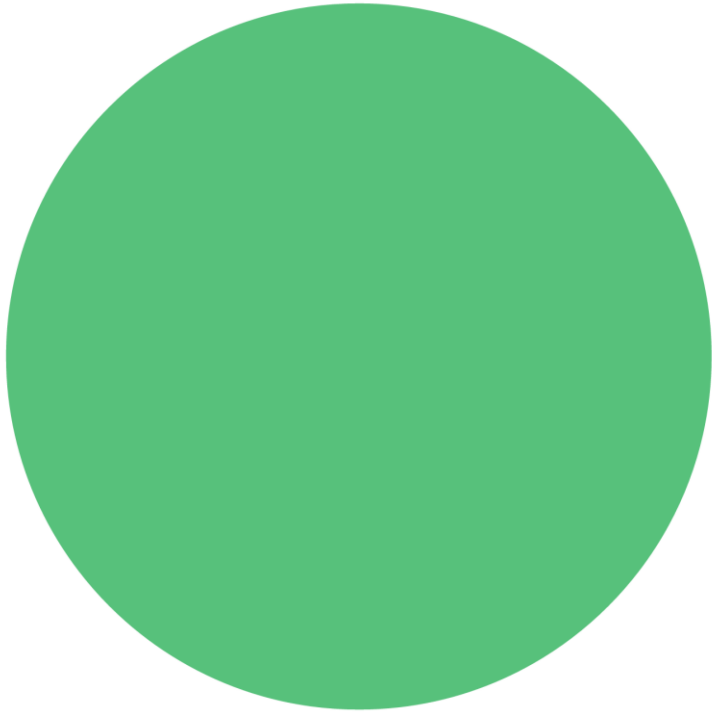
t\_id

t\_index

## Create a new visualization

Step 1

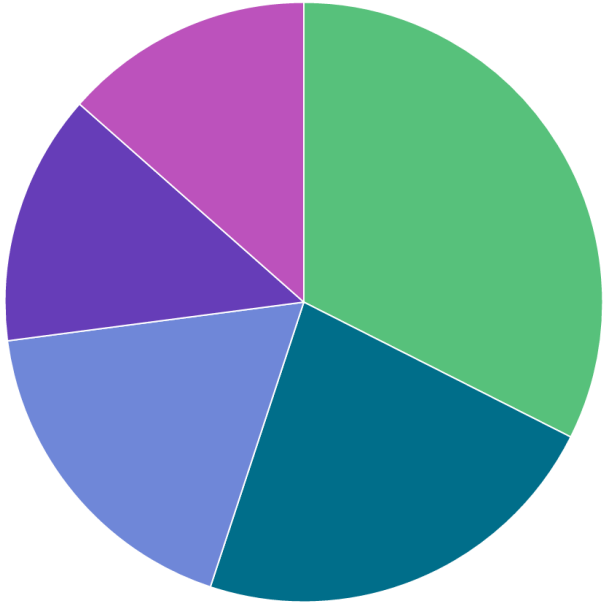
Area chart	Great for stacked timelines in which the total of all series is more important than comparing any two or more series. Less useful for assessing the relative change of unrelated data points as changes in a series lower down the stack will have a difficult to gauge effect on the series above it.
Data table	The data table provides a detailed breakdown, in tabular format, of the results of a composed aggregation. Tip, a data table is available from many other charts by clicking grey bar at the bottom of the chart.
Line chart	Often the best chart for high density time series. Great for comparing one series to another. Be careful with sparse sets as the connection between points can be misleading.
Markdown widget	Useful for displaying explanations or instructions for dashboards.
Metric	One big number for all of your one big number needs. Perfect for show a count of hits, or the exact average a numeric field.
Pie chart	Pie charts are ideal for displaying the parts of some whole. For example, sales percentages by department. Pro Tip: Pie charts are best used sparingly, and with no more than 7 slices per pie.
Tile map	Your source for geographic maps. Requires an elasticsearch geo_point field. More specifically, a field that is mapped as type:geo_point with latitude and longitude coordinates.
Vertical bar chart	The goto chart for oh-so-many needs. Great for time and non-time data. Stacked or grouped, exact numbers or percentages. If you are not sure which chart your need, you could do worse than to start here.



Legend 

 \_all

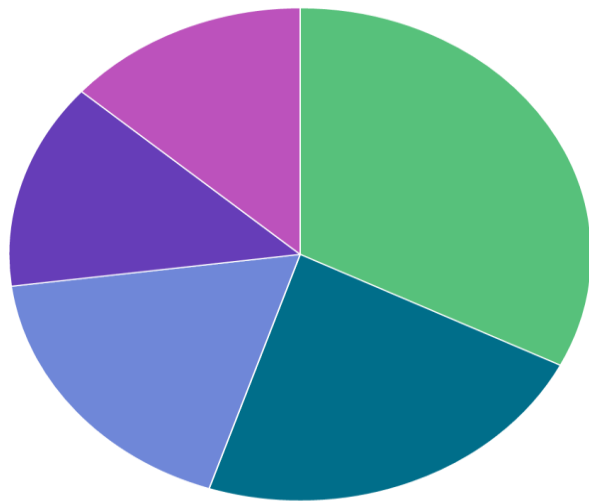




**Company pie**

Legend

- Bank of America
- Wells Fargo
- JPMorgan Chase
- Experian
- Citibank



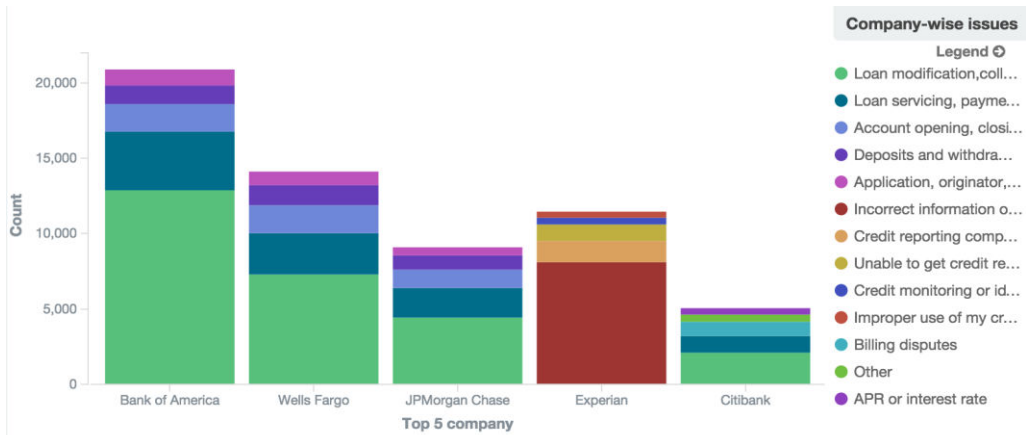
**Company pie**

Legend

- Bank of America
- Wells Fargo
- JPMorgan Chase
- Experian
- Citibank

- Table
- Request
- Response
- Statistics

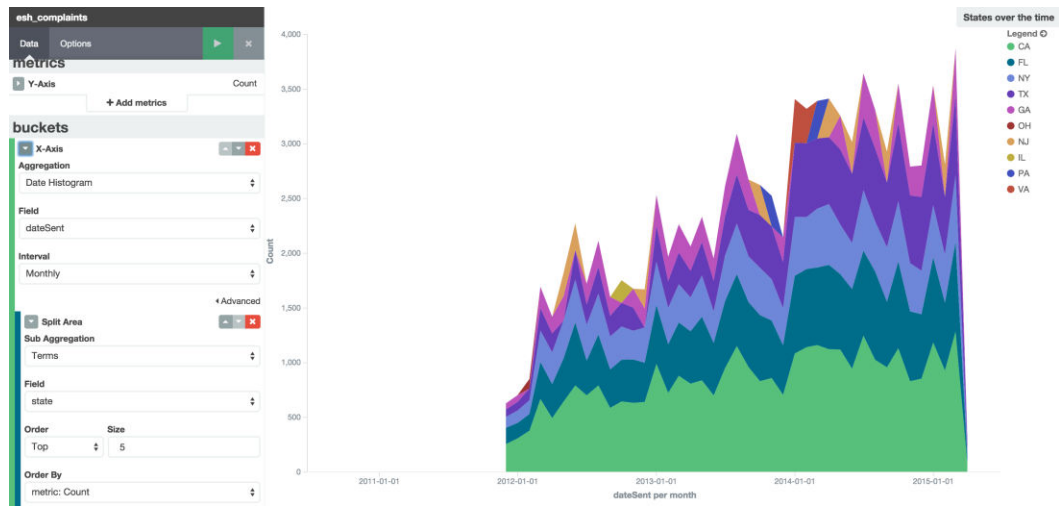
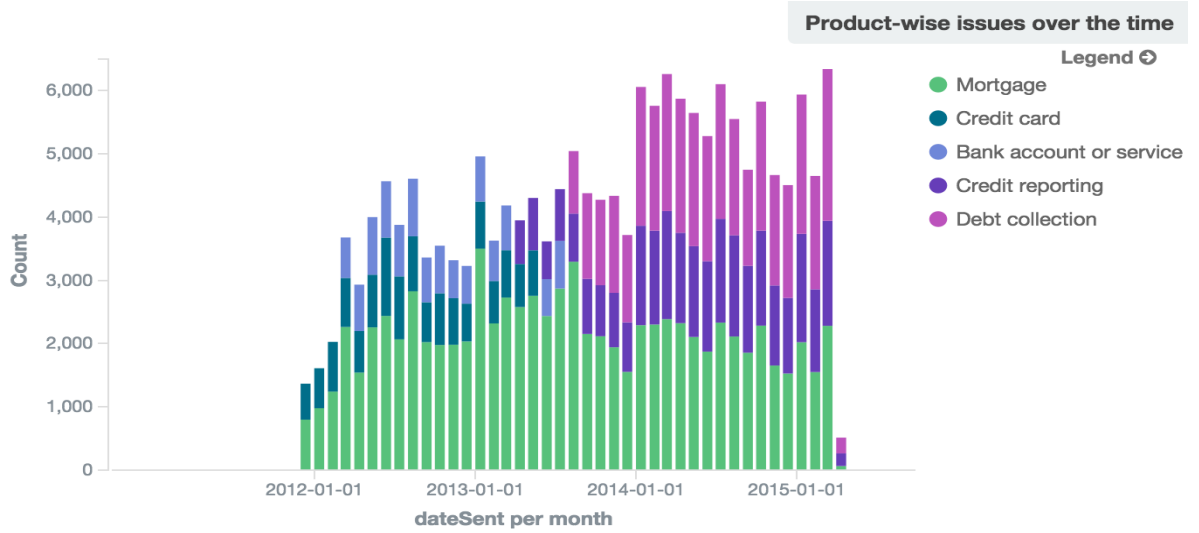
Top 5 company	Count
Bank of America	27,574
Wells Fargo	19,249
JPMorgan Chase	15,201
Experian	11,523
Citibank	11,491

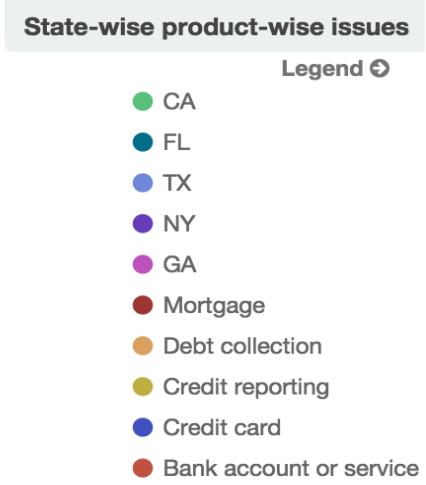
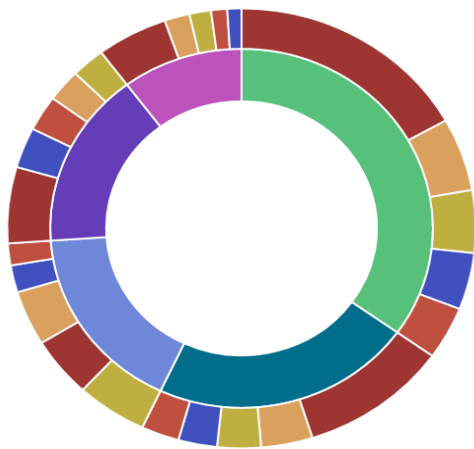
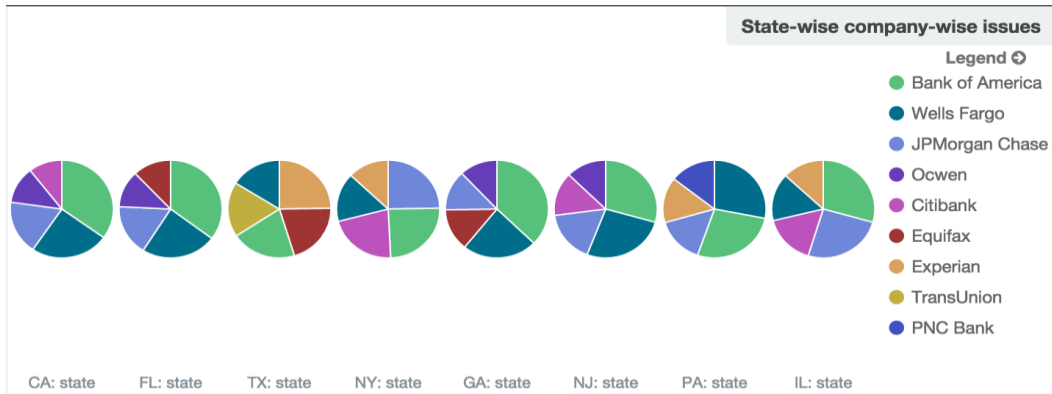


**Company-wise issues**

Legend

- Loan modification, coll...
- Loan servicing, payme...
- Account opening, closi...
- Deposits and withdra...
- Application, originator,...
- Incorrect information o...
- Credit reporting comp...
- Unable to get credit re...
- Credit monitoring or id...
- Improper use of my cr...
- Billing disputes
- Other
- APR or interest rate





Geography-wise issues



Visualizations

Searches

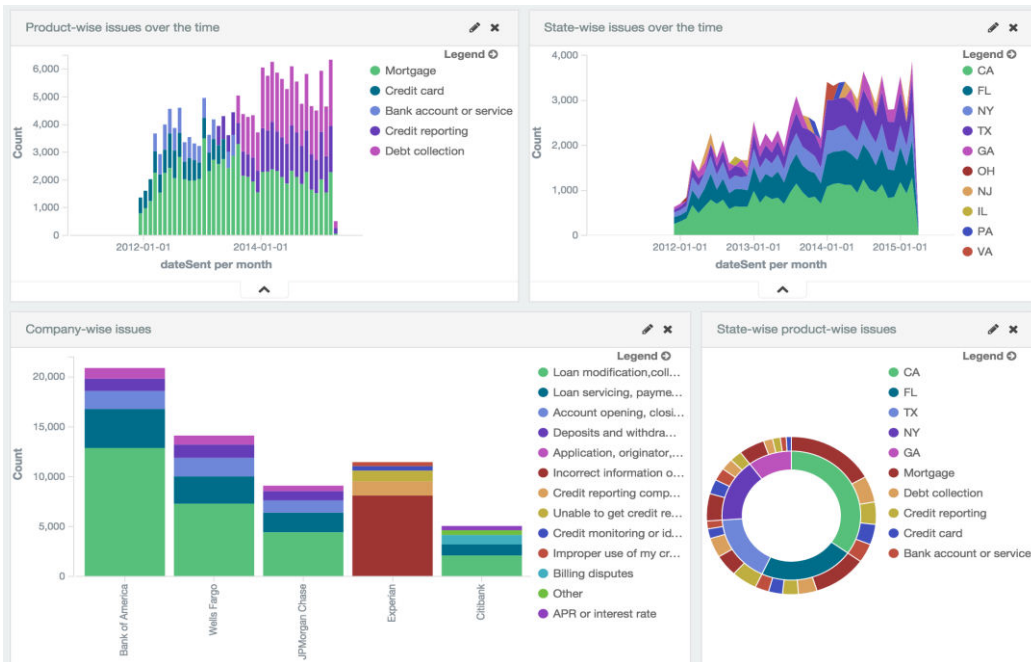
[manage visualizations](#)

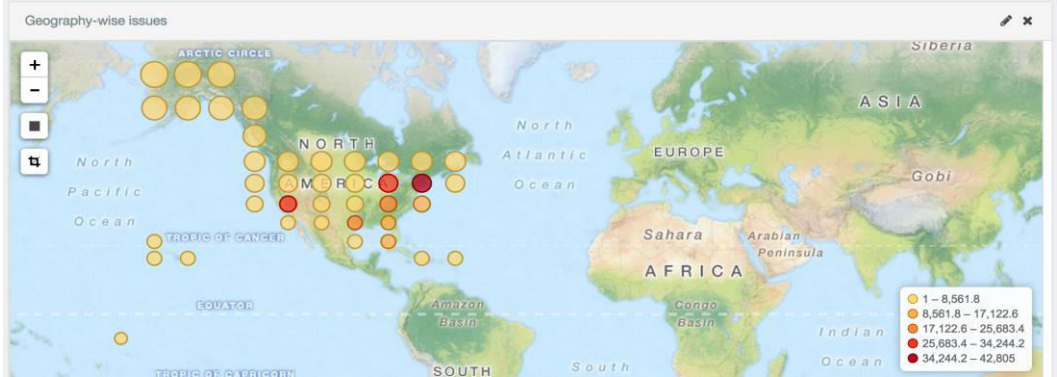
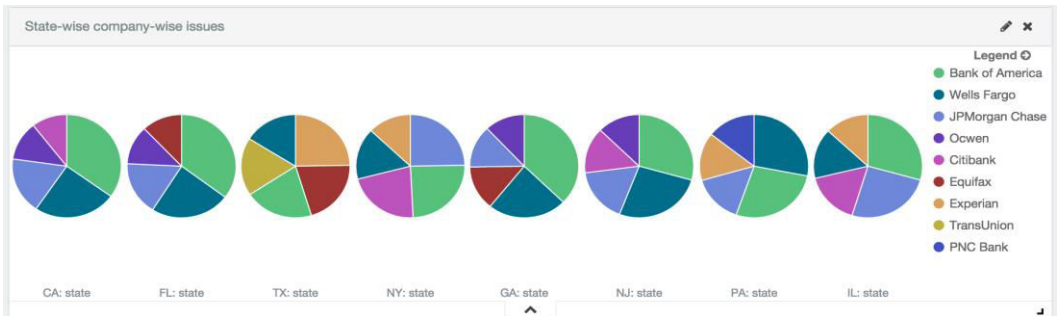
prod

2 visualizations

[Product-wise issues over the time](#)

[State-wise product-wise issues](#)





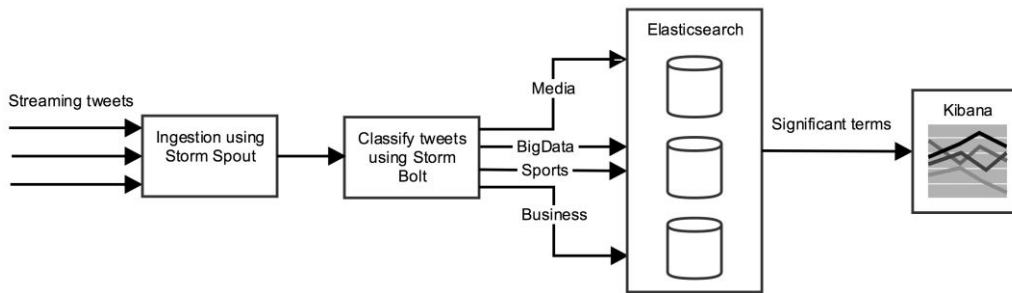
Discover    Visualize    Dashboard    Settings    Auto-refresh    Last 5 years

**Off**

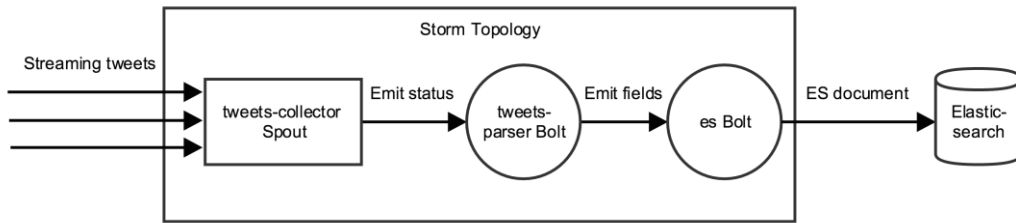
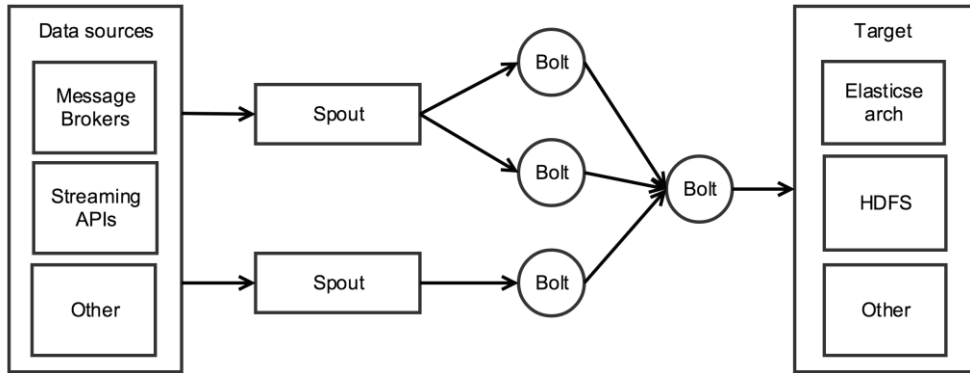
5 seconds	1 minute	1 hour
10 seconds	5 minutes	2 hour
30 seconds	15 minutes	12 hour
45 seconds	30 minutes	1 day

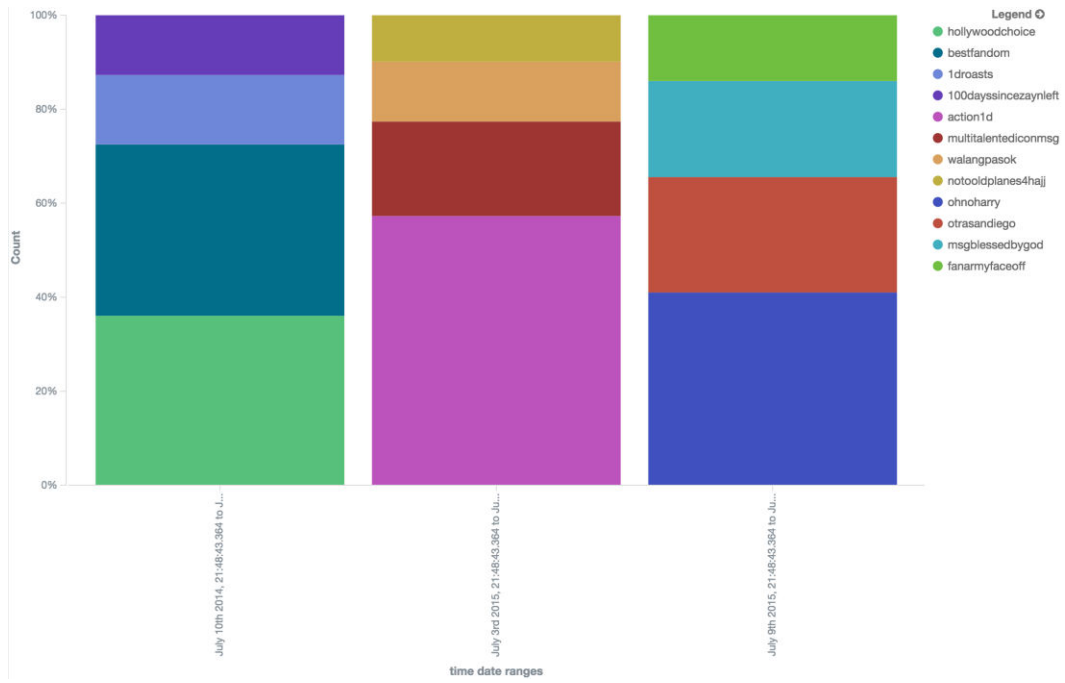
The screenshot shows the 'Edit Saved Objects' interface. At the top, there is a navigation bar with tabs for 'Discover', 'Visualize', 'Dashboard', and 'Settings'. Below this, a secondary navigation bar includes 'Indices', 'Advanced', 'Objects', and 'About'. The main heading is 'Edit Saved Objects', followed by 'Export' and 'Import' buttons. A text block explains that users can delete or edit saved objects like searches, with a note that each tab is limited to 100 results. Below the text is a 'Filter' input field. A summary bar shows 'Dashboards (1)', 'Searches (0)', and 'Visualizations (9)'. A control bar contains 'Select All', 'Delete', and 'Export' buttons. The main content area lists 'Complaints Dashboard' with edit and view icons.

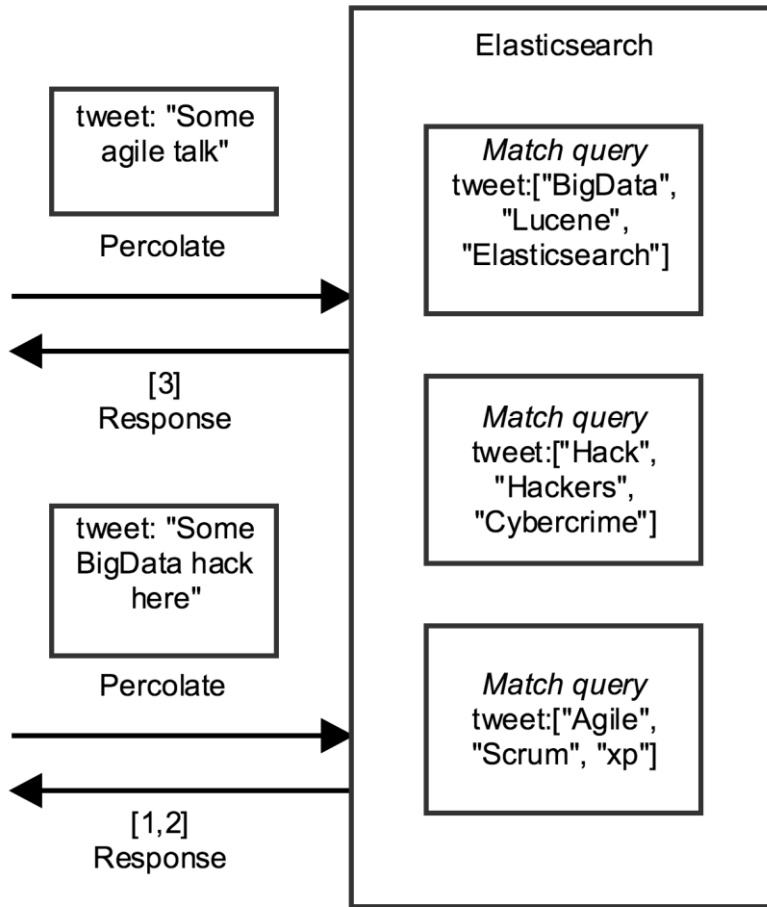
## Chapter 5











## Chapter 6

