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Chapter 1: Getting Started

```
alberto@iMacParo 16:52 ~ elasticsearch/elasticsearch
└─$ bin/elasticsearch-plugin install ingest-attachment
-> Downloading ingest-attachment from elastic
[=====] 100%
WARNING: plugin requires additional permissions
* java.lang.RuntimePermission accessClassInPackage.sun.java2d.cmm.kcms
* java.lang.RuntimePermission accessDeclaredMembers
* java.lang.RuntimePermission getClassLoader
* java.lang.reflect.ReflectPermission suppressAccessChecks
* java.security.SecurityPermission createAccessControlContext
* java.security.SecurityPermission insertProvider
* java.security.SecurityPermission putProviderProperty.BC
See http://docs.oracle.com/javase/8/docs/technotes/guides/security/permissions.html
for descriptions of what these permissions allow and the associated risks.

Continue with installation? [y/N]y
-> Installed ingest-attachment
```

```
alberto@iMacParo 16:52 ~ elasticsearch/elasticsearch
```

```

[2018-12-01T16:57:36,664][DEBUG][o.e.b.JarHell ] [iMacParo.local] examining jar: /Users/alberto/elasticsearch/elasticsearch-7.0.0-alpha1/plugins/ingest-attache
nt/bcpkix-jdk15son-1.59.jar
[2018-12-01T16:57:36,666][DEBUG][o.e.b.JarHell ] [iMacParo.local] examining jar: /Users/alberto/elasticsearch/elasticsearch/lib/lucene-spatial-extras-8.0.0-snap
shot-6d9c714052.jar
[2018-12-01T16:57:36,666][DEBUG][o.e.b.JarHell ] [iMacParo.local] examining jar: /Users/alberto/elasticsearch/elasticsearch/lib/elasticsearch-cli-7.0.0-alpha1.j
ar
[2018-12-01T16:57:36,666][DEBUG][o.e.b.JarHell ] [iMacParo.local] examining jar: /Users/alberto/elasticsearch/elasticsearch/lib/lucene-misc-8.0.0-snapshot-6d9c7
14052.jar
[2018-12-01T16:57:36,667][DEBUG][o.e.b.JarHell ] [iMacParo.local] examining jar: /Users/alberto/elasticsearch/elasticsearch/lib/elasticsearch-x-content-7.0.0-al
pha1.jar
[2018-12-01T16:57:36,667][DEBUG][o.e.b.JarHell ] [iMacParo.local] examining jar: /Users/alberto/elasticsearch/elasticsearch/lib/snakeyaml-1.17.jar
[2018-12-01T16:57:36,667][DEBUG][o.e.b.JarHell ] [iMacParo.local] examining jar: /Users/alberto/elasticsearch/elasticsearch/lib/lucene-highlighter-8.0.0-snapsho
t-6d9c714052.jar
[2018-12-01T16:57:36,667][DEBUG][o.e.b.JarHell ] [iMacParo.local] examining jar: /Users/alberto/elasticsearch/elasticsearch-7.0.0-alpha1/plugins/ingest-attache
nt/commons-compress-1.18.jar
[2018-12-01T16:57:36,668][DEBUG][o.e.b.JarHell ] [iMacParo.local] examining jar: /Users/alberto/elasticsearch/elasticsearch/lib/plugin-classloader-7.0.0-alpha1.
jar
[2018-12-01T16:57:36,668][DEBUG][o.e.b.JarHell ] [iMacParo.local] examining jar: /Users/alberto/elasticsearch/elasticsearch-7.0.0-alpha1/plugins/ingest-attache
nt/poi-ooxml-4.0.0.jar
[2018-12-01T16:57:36,670][DEBUG][o.e.b.JarHell ] [iMacParo.local] examining jar: /Users/alberto/elasticsearch/elasticsearch/lib/t-digest-3.2.jar
[2018-12-01T16:57:36,671][DEBUG][o.e.b.JarHell ] [iMacParo.local] examining jar: /Users/alberto/elasticsearch/elasticsearch/lib/log4j-1.2-api-2.11.1.jar
[2018-12-01T16:57:36,671][DEBUG][o.e.b.JarHell ] [iMacParo.local] examining jar: /Users/alberto/elasticsearch/elasticsearch/lib/lucene-join-8.0.0-snapshot-6d9c7
14052.jar
[2018-12-01T16:57:36,686][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [aggs-matrix-stats]
[2018-12-01T16:57:36,686][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [analysis-common]
[2018-12-01T16:57:36,686][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [ingest-common]
[2018-12-01T16:57:36,686][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [lang-expression]
[2018-12-01T16:57:36,686][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [lang-mustache]
[2018-12-01T16:57:36,686][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [lang-painless]
[2018-12-01T16:57:36,686][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [mapper-extras]
[2018-12-01T16:57:36,686][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [parent-join]
[2018-12-01T16:57:36,686][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [percolator]
[2018-12-01T16:57:36,686][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [rank-eval]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [reindex]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [repository-url]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [transport-netty4]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [x-pack-ccr]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [x-pack-core]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [x-pack-deprecation]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [x-pack-graph]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [x-pack-ilm]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [x-pack-logstash]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [x-pack-ml]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [x-pack-monitoring]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [x-pack-rotlup]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [x-pack-security]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [x-pack-sql]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [x-pack-upgrade]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded module [x-pack-watcher]
[2018-12-01T16:57:36,687][INFO][o.e.p.PluginsService ] [iMacParo.local] loaded plugin [ingest-attachment]
[2018-12-01T16:57:36,725][DEBUG][o.e.t.ThreadPool ] [iMacParo.local] created thread pool: name [watcher], size [40], queue size [1k]
[2018-12-01T16:57:36,725][DEBUG][o.e.t.ThreadPool ] [iMacParo.local] created thread pool: name [force_merge], size [1], queue size [unbounded]
[2018-12-01T16:57:36,725][DEBUG][o.e.t.ThreadPool ] [iMacParo.local] created thread pool: name [security-token-key], size [1], queue size [1k]
[2018-12-01T16:57:36,725][DEBUG][o.e.t.ThreadPool ] [iMacParo.local] created thread pool: name [ml_datafeed], size [20], queue size [200]
[2018-12-01T16:57:36,726][DEBUG][o.e.t.ThreadPool ] [iMacParo.local] created thread pool: name [fetch_shard_started], core [1], max [16], keep alive [5m]

```

Elastic Cloud Enterprise Installer

Start setting up a new Elastic Cloud Enterprise installation by installing the software on your first host. This first host becomes the initial coordinator and provides access to the Cloud UI, where you can manage your installation. To learn more about the options you can specify, see the documentation.

NOTE: If you want to add this host to an existing installation, please specify the `--coordinator-host` and `--roles-token` flags

```
-- Verifying Prerequisites --
Checking runner container does not exist... PASSED
Checking host storage root volume path is not root... PASSED
Checking host storage path is accessible... PASSED
Checking host storage path contents matches whitelist... PASSED
Checking Docker version... PASSED
Checking Docker file system... PASSED
  - The installation with extfs can proceed; however, we recommend XFS
Checking Docker storage driver... PASSED
  - The installation with overlay2 can proceed; however, we recommend using overlay
Checking runner ip connectivity... PASSED
Checking OS IPv4 IP forward setting... PASSED
Checking OS max map count setting... PASSED
Checking OS kernel version... PASSED
Checking minimum required memory... PASSED
Checking OS kernel cgroup.memory... PASSED
  - OS setting 'cgroup.memory' should be set to cgroup.memory=nokmem
Checking OS minimum ephemeral port... PASSED
Checking OS max open file descriptors per process... PASSED
Checking OS max open file descriptors system-wide... PASSED
Checking OS file system and Docker storage driver compatibility... PASSED
-- Completed Verifying Prerequisites --

- Running Bootstrap container
- Monitoring bootstrap process
- Loaded bootstrap settings {}
- Initialising feature flag [DedicatedNodeTypes] to [true] {}
- Starting local runner {}
- Started local runner {}
- Waiting for runner container node {}
- Runner container node detected {}
- Waiting for coordinator candidate {}
- Detected coordinator candidate {}
- Detected pending coordinator, promoting coordinator {}
- Coordinator accepted {}
- Storing current platform version: 2.0.0 {}
- Storing Instance Types: [elasticsearch,kibana] {}
- Storing Elastic Stack versions: [5.6.12,6.4.1] {}
- Creating Admin Console Elasticsearch backend {}
█
```


Deployments

Platform

Activity Feed

Deployments

Filter by deployment name or id ... [More filters](#) [Create deployment](#)

Showing all 2 matching deployments

admin-console-elasticsearch ✓

53d56e v5.6.12

data.default
4 GB RAM, 1 node, 1 zone

logging-and-metrics ✓

9cfd1a v5.6.12

data.default **Kibana**
1 GB RAM, 1 node, 1 zone Included

Create deployment

1 Name your deployment

Give your deployment a name

2 Set up your deployment

Elastic Stack version

6.4.1 [Edit](#)

Snapshot repository

Choose a snapshot repository for backing up data from this cluster

Restore from snapshot

Select a deployment to restore from its latest snapshot

3 Optimize your deployment

Default

Default deployment template
for clusters

[Default specs](#)



Hot-Warm

Default deployment template
for clusters using a hot-warm
topology

[Default specs](#)



Elastic Cloud supports many more options to cater to your specific use case such as hot-warm architecture optimized for logging, compute-focused setup optimized for analytics etc. [Learn more ...](#)

✓ Create deployment

[⚙️ Customize deployment](#)

book-cluster

Activity

[Elasticsearch](#) [Kibana](#)

Generated user

You can use the credentials below to login to Elasticsearch or somewhere as this is the only time we can show it to you.

Username	elastic
Password	ebr9TbeLBSnTP2NVJbi8WE44
Cloud ID	book-cluster:MTkyljE20C4xLjI0NC5pcC5lcy5pbyQyYThmZjY3YTZjY2Q0N2VhOTlmN2Q3NGQ4ZTU5OTZlYS0xNmNkNTBmNWE1NTk0MjljODkyMzA4MTEkMDRjZTBhOQ==

Get started with Beats and Logstash quickly. The Elastic Cloud. [Learn more ...](#)

Updating deployment configuration

Determining incremental changes to Elasticsearch cluster

Cancel

[Show Details](#)


Previous Elasticsearch change attempt

✘ #0 — Nov 4, 2018, 8:05:55 AM UTC 20 seconds ago by **admin** @ 192.168.1.164

Unexpected error during step: [validate-plan-prerequisites] [no.found.constructor.steps.PlanValidationException: ...]

Deployment help

Get started with Kibana



Use Kibana to get the most out of your deployment:

- ✔ Access tutorials on how to start streaming data into your deployment
- ✔ Configure data inputs from multiple sources
- ✔ Create charts, graphs, dashboards, and other visualizations

[Launch Kibana](#)

[Close](#) Show this next time

Deployments

book-cluster

- Edit
- Elasticsearch**
 - Snapshots
 - API Console
- Kibana
- Activity
- Security
- Operations

Platform

Activity Feed

book-cluster

Elasticsearch

♥ This cluster is not monitored. [Learn more ...](#)

[Enable](#)

API Endpoints

Elasticsearch

External Links - Log in with [elastic](#) user. [Forgot the password?](#)

[Elasticsearch Logs](#)

[Elasticsearch Metrics](#)

[Proxy logs](#)

Instances

[All instances](#) 1 [data.default](#) 1

ece-zone-1

DATA.DEFAULT

Instance #0 v6.4.1 1 GB RAM

data master ingest

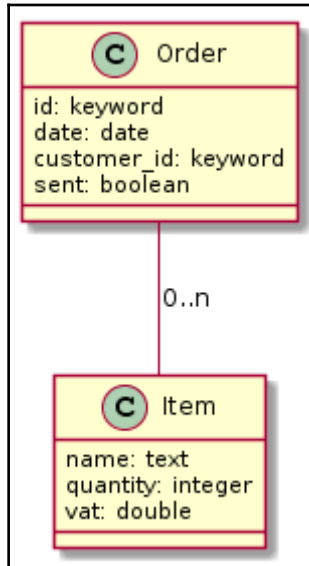
Running on allocator 192.168.1.244

JVM memory pressure 20% of 1 GB

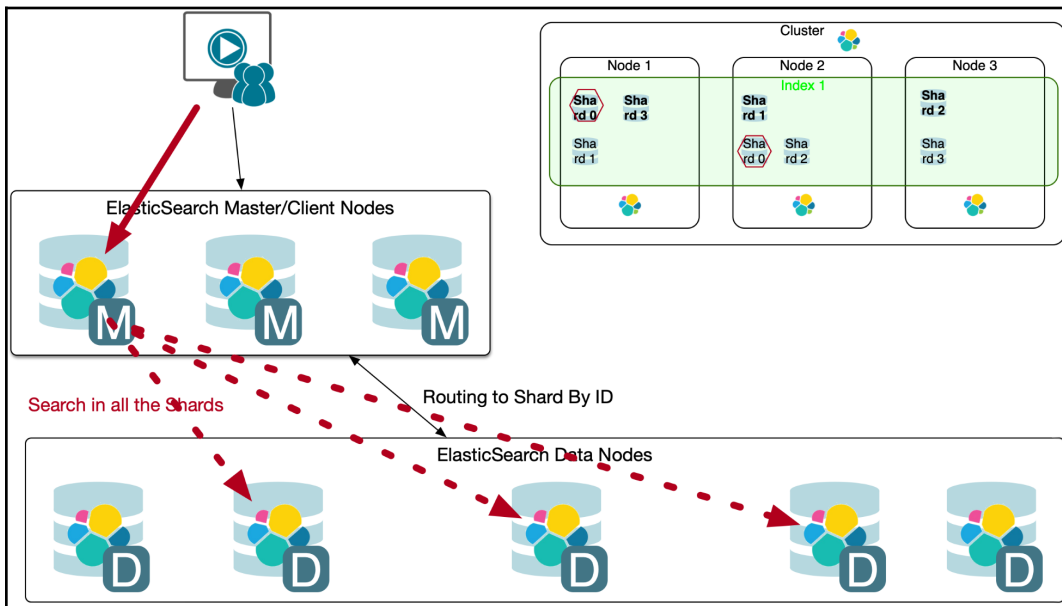
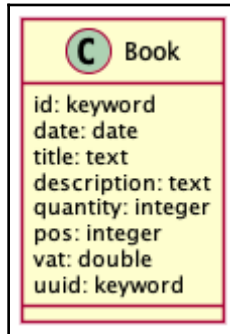
Disk usage 0 MB of 32 GB

[Stop routing](#) [Pause instance](#)

Chapter 2: Managing Mapping

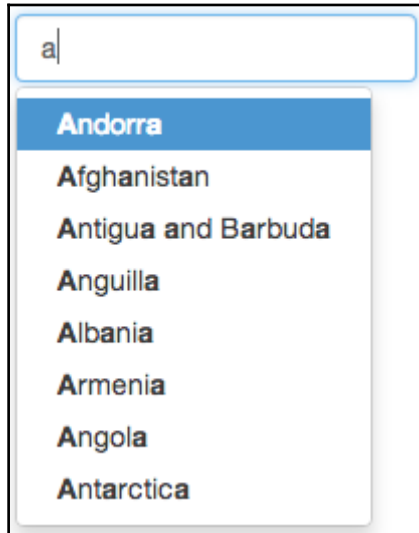


Chapter 4: Exploring Search Capabilities

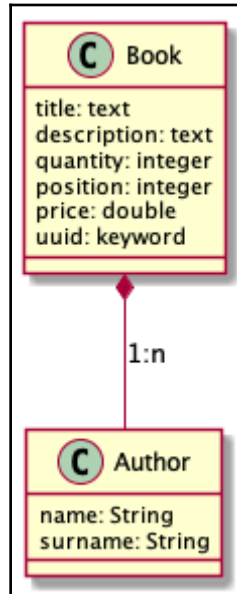


$$final_score = query_score * query_weight + rescore_score * rescore_query_weight$$

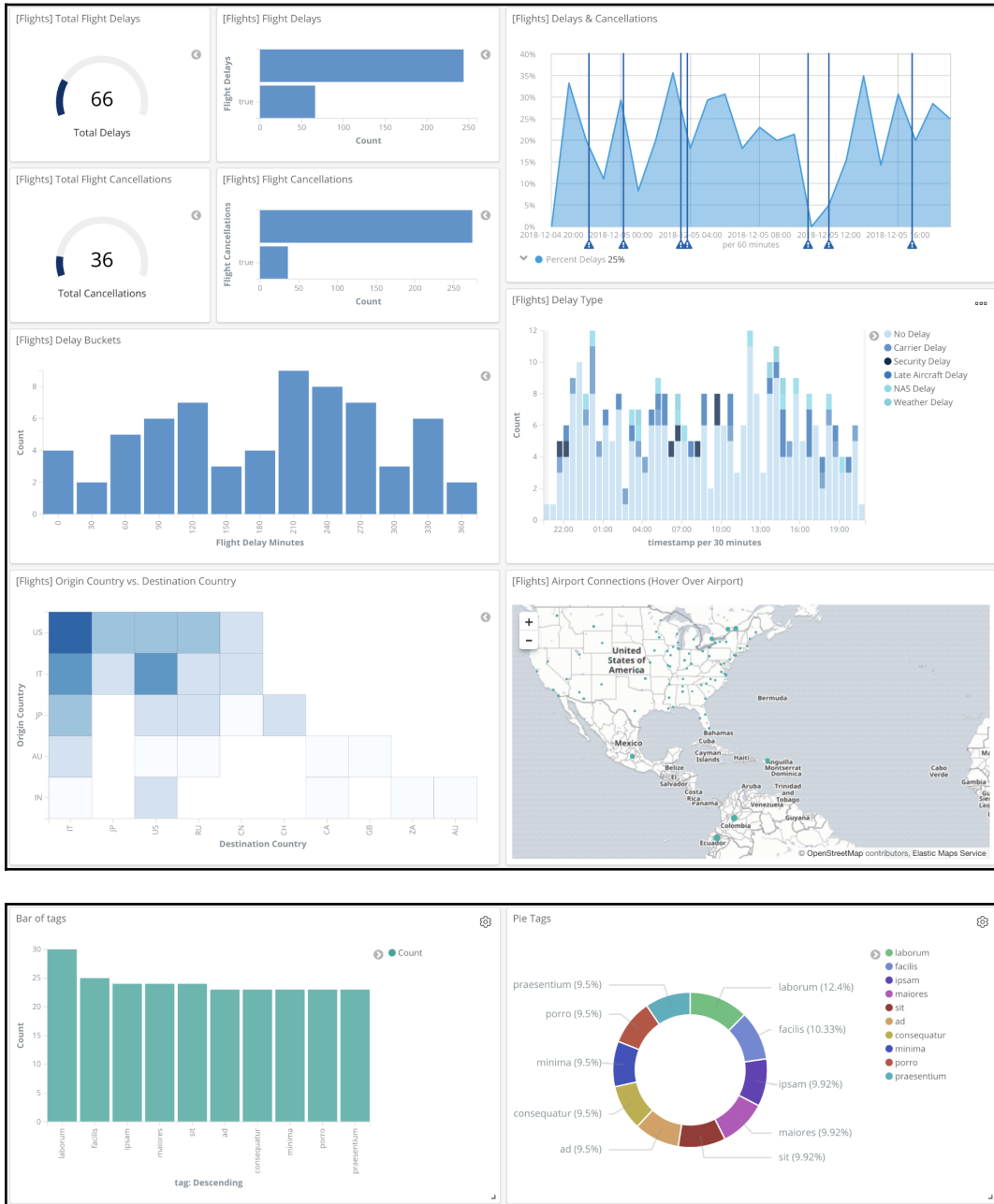
Chapter 5: Text and Numeric Queries

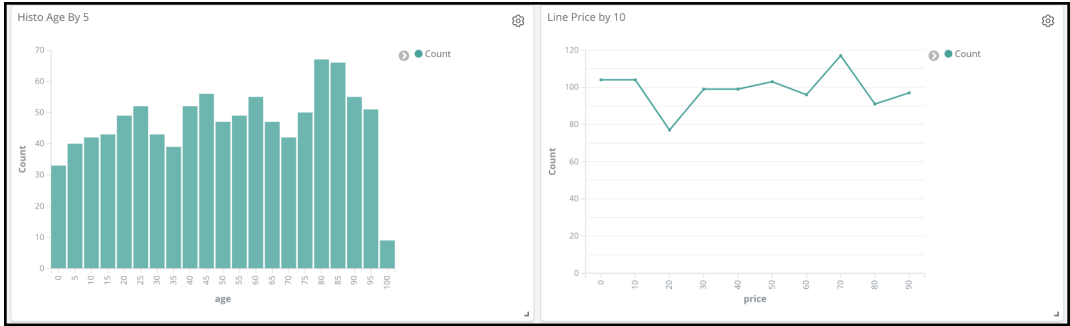


Chapter 6: Relationship and Geo Queries

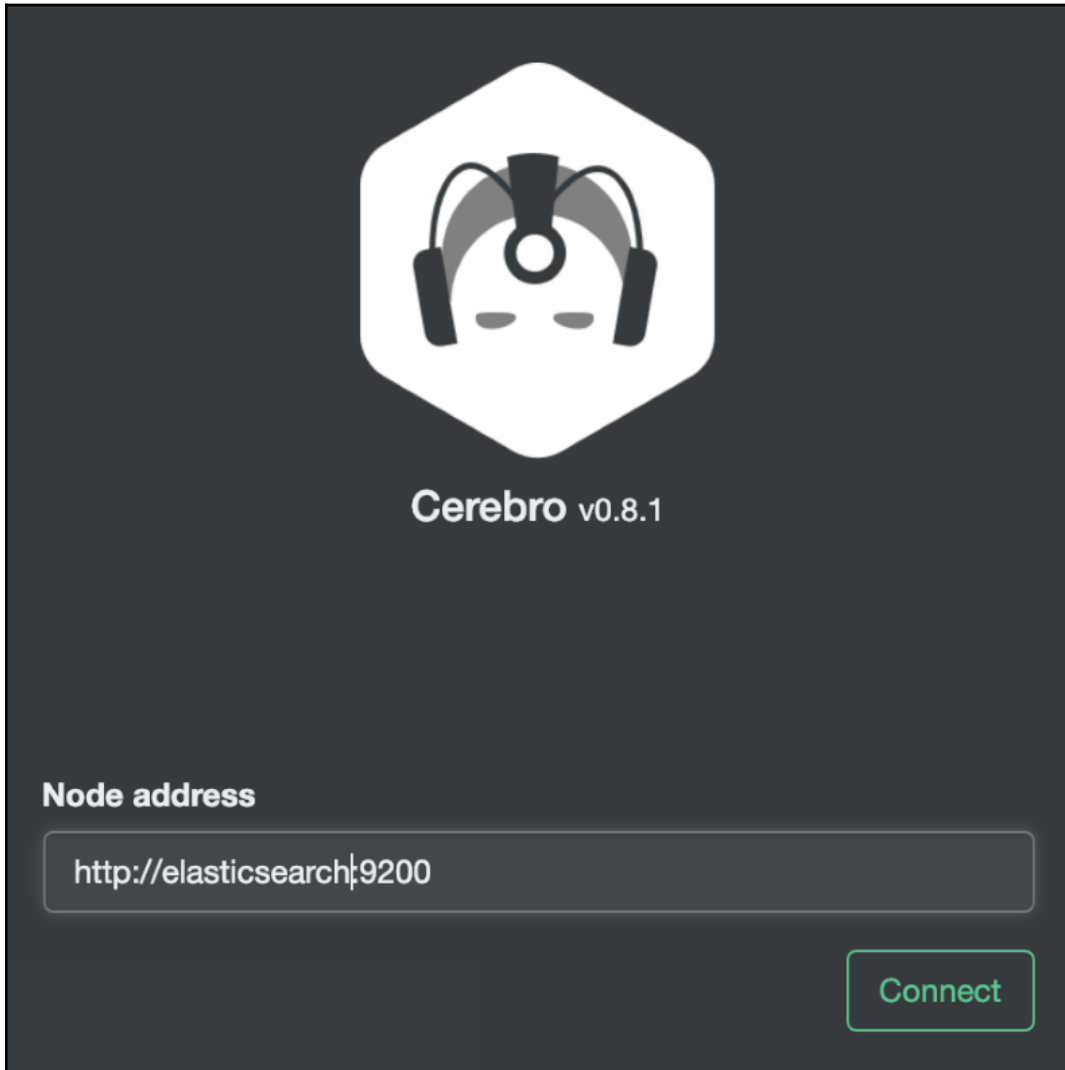


Chapter 7: Aggregations





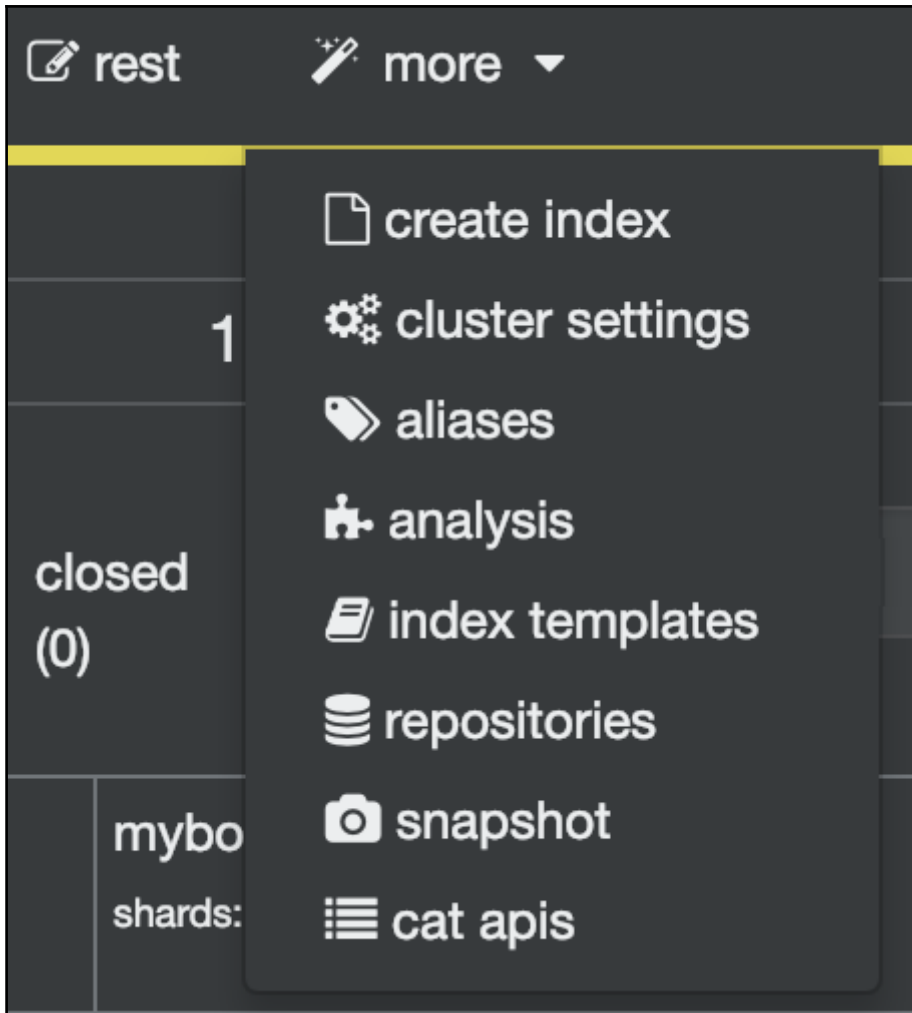
Chapter 11: User Interfaces













elastic-cookbook 1 nodes 4 indices 8 shards 13 docs 26.57KB

filter indices by name or a closed (0) .special (1) filter nodes by name 1-3 of 3

	mybooks shards: 1 * 2 docs: 3 size: 6.19KB	mybooks-join shards: 1 * 2 docs: 7 size: 10.99KB	mygeo-index shards: 1 * 2 docs: 2 size: 3.01KB
<p>⚠ 4 unassigned shards show only affected indices</p> <p>★ b7865c021b45 172.18.0.2</p> <p>🔍</p> <p>heap disk cpu load</p>	0	0	0
	0	0	0



-
-  show settings
 -  show mappings
 -  show stats
 -  close index
 -  force merge
 -  refresh index
 -  flush index
 -  clear cache
 -  index settings
-
-  delete index

overview nodes rest more 15sec http://elasticsearch:9200 [yellow]

ALLOCATION

allocation.max_retries

AUTO_EXPAND_REPLICAS

auto_expand_replicas

BLOCKS

blocks.metadata	blocks.read	blocks.read_only
<input type="text" value="false"/>	<input type="text" value="false"/>	<input type="text" value="false"/>
blocks.read_only_allow_delete	blocks.write	
<input type="text" value="false"/>	<input type="text" value="false"/>	

COMPOUND_FORMAT

compound_format

overview nodes rest more 15sec http://elasticsearch:9200 [yellow]

number of shards	number of replicas
<input type="text" value="# of shards"/>	<input type="text" value="# of replicas"/>

load settings from existing index

- ✓ .elastichq
- mybooks
- mybooks-join
- mygeo-index

back Create

overview nodes rest more 15sec http://elasticsearch:9200 [yellow]

filter settings by name show static settings

ACTION

action.auto_create_index	action.destructive_requires_name	action.search.shard_count.limit
true	false	9223372036854775807

CLUSTER

cluster.blocks.read_only	cluster.blocks.read_only_allow_delete	cluster.indices.close.enable
false	false	true
cluster.info.update.interval	cluster.info.update.timeout	cluster.routing.allocation.allow_rebalance
30s	15s	indices_all_active
cluster.routing.allocation.awareness.attributes	cluster.routing.allocation.balance.index	cluster.routing.allocation.balance.shard
	0.55	0.45
cluster.routing.allocation.balance.threshold	cluster.routing.allocation.cluster_concurrent_rebalance	cluster.routing.allocation.disk.include_relocations
1.0	2	true
cluster.routing.allocation.disk.reroute_interval	cluster.routing.allocation.disk.threshold_enabled	cluster.routing.allocation.disk.watermark.high
60s	true	90%

overview nodes rest more 15sec http://elasticsearch:9200 [yellow]

existing repositories

create new repository

repository name: repository name

type: fs

location: location of the snapshots

max_restore_bytes_per_sec: Throttles per node restore rate. Defaults to ?

max_snapshot_bytes_per_sec: Throttles per node snapshot rate. Defaults to ?

chunk size: chunk size(1g, 10m, 5k), defaults to unlimite

compress snapshot files(defaults to true): True False

[create](#)

overview nodes rest more 15sec http://elasticsearch:9200 [yellow]

existing snapshots

backup

snap1 created at 2019-04-23 14:51:01 +0200

create new snapshot

repository: backup

snapshot name: snap1

ignore unavailable indices

include global state

indices (defaults to all if none is selected) show special indices

myindex
mylogs-000001

create

overview nodes rest more 15sec http://elasticsearch:9200 [yellow]

mybooks/_search POST

previous requests

1 {}

```
{
  "took": 5,
  "timed_out": false,
  "_shards": {
    "total": 1,
    "successful": 1,
    "skipped": 0,
    "failed": 0
  },
  "hits": {
    "total": {
      "value": 3,
      "relation": "eq"
    },
    "max_score": 1,
    "hits": [
      {
        "index": "mybooks",
        "_type": "_doc",
        "_id": "1",
        "_score": 1,
        "_source": {
          "uid": "11111",
          "position": 1,
          "title": "Joe Testere",
          "description": "Joe Testere nice guy",
          "date": "2015-10-22",
          "price": 4.3,
          "quantity": 50
        }
      },
      {
        "index": "mybooks",
        "_type": "_doc",
        "_id": "2",
        "_score": 1,
        "_source": {
          "uid": "22222",
          "position": 2,
          "title": "Bill Baloney",
          "description": "Bill Testere nice guy",
          "date": "2016-06-12",
          "price": 5,
          "quantity": 34
        }
      }
    ]
  }
}
```

cURL format send

Connect to Elasticsearch...




http://elasticsearch:9200

Connect

Choose a cluster ▾

 elastic-cookbook
http://elasticsearch:9200

 paro
http://192.168.1.35:9200

 Refresh List

[ElasticHQ.org](#) · [GitHub Page](#) · [@ElasticHQ](#) · [Google Group](#)

You are on the current version: **3.5.0**

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We are not affiliated with Elastic, Inc.

ElasticHQ elastic-cookbook 7.0.0-beta1

Indices Metrics Nodes Diagnostics REST Query

1

Nodes

4 Active Shards

4

Indices

4 Unassigned Shards

13

Documents

0 Initializing Shards

27.7 KB

Size

0 Relocating Shards

Nodes

Name	Master	Data	HTTP Addr	Heap Used	Free Space	Load
b7865c021b45	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	172.18.0.2	33%	52.3gb	0.00

Showing 1 of 1 item

5 per page

Indices

Search

Index	Docs	Shards	Replicas	Size	Cache Size
.elasticq	1	1	1	6.5 KB	0 B
mybooks	3	1	1	6.5 KB	0 B
mybooks-join	7	1	1	11.4 KB	0 B
mygeo-index	2	1	1	3.2 KB	0 B

Showing 4 of 4 items

5 per page

ElasticHQ elastic-cookbook 7.0.0-beta1

Indices Metrics Nodes Diagnostics REST Query

Refresh Force Merge Flush Clear Cache Expunge Deleted Create Index Re-Index

Search

Index	Docs	Shards	Replicas	Size	Cache Size
.elasticq	1	1	1	6.5 KB	0 B
mybooks	3	1	1	6.5 KB	0 B
mybooks-join	7	1	1	11.4 KB	0 B
mygeo-index	2	1	1	3.2 KB	0 B

Showing 4 of 4 items

5 per page

ElasticHQ elastic-cookbook 7.0.0-beta1

Indices Metrics Nodes Diagnostics REST Query

mybooks

3 Documents 6.5 KB Primary Size 6.5 KB Total Size 1 : 1 Shards

Metrics Shards Aliases Mappings Administration

Documents

	Primaries	Total
Size	6.5 KB	6.5 KB
Documents	3	3
Deleted	0	0
Field Data Cache	0 B	0 B

Search Totals

Query Total	1
Fetch Total	1
Scroll Total	0
Fetch Current Count	0
Scroll Current Count	0

Index Totals

Index Total	3
Index Current Count	0
Delete Total	0
Delete Current Count	0
Index Failed	0

Query Cache

Cache Size	0 B
Query Count	0
Miss Count	0
Hit Count	0
Cache Count	0
Evictions	0

ElasticHQ elastic-cookbook 7.0.0-beta1

Indices Metrics Nodes Diagnostics REST Query

mybooks

3 Documents 6.5 KB Primary Size 6.5 KB Total Size 1 : 1 Shards

Metrics Shards Aliases Mappings Administration

Flush Cache The flush process frees memory from the index by flushing data to the index storage and clearing the internal transaction log. By default, Elasticsearch uses memory heuristics in order to automatically trigger flush operations as required in order to clear memory.

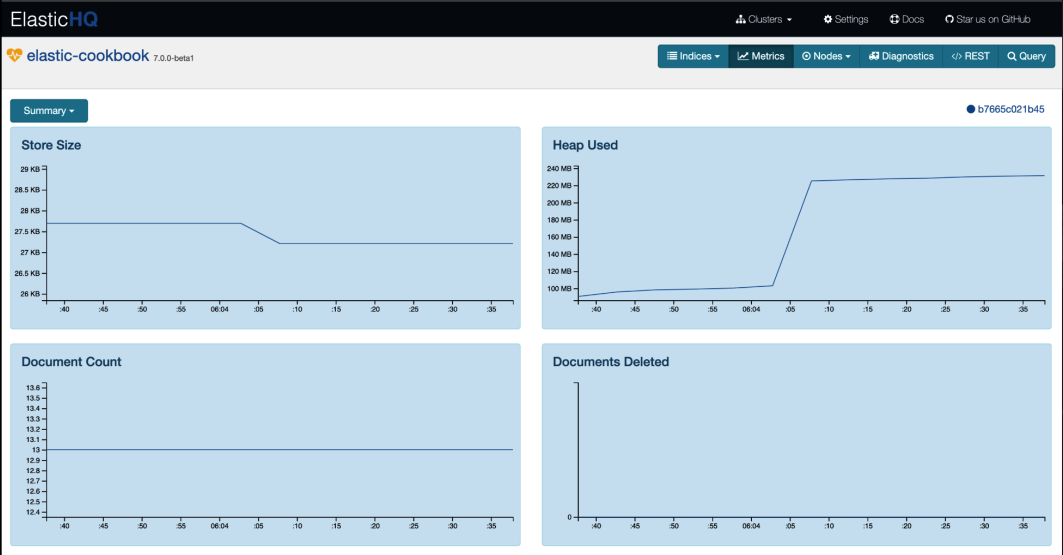
Clear Cache Clears the field data cache, filter cache, and parent/child cache.

Force Merge Index The force merge process optimizes the index for faster search operations (and relates to the number of segments a lucene index holds within each shard). This operation reduces the number of segments by merging them. **Should not be done on a cluster with active/live writes!**

Refresh Index Makes all operations performed since the last refresh available for search. The (near) real-time capabilities depend on the index engine used. By default refreshes are scheduled periodically within Elasticsearch.

Expunge Deleted Attempts to clear deleted documents from disk during the merge process.

Close Index Blocks read/write operations on this index. Closing an index can reduce overhead on the cluster.



b7665c021b45

Summary

Address	172.18.0.2:9200
Master Node	
Data Node	
Home Path	/usr/share/elasticsearch
Data Path	
Conf Path	
Logs Path	/usr/share/elasticsearch/logs

JVM

Version	OpenJDK 64-Bit Server VM (11.0.2)
Process ID	1
Heap Used %	22%
Heap Used/Max	236 MB / 1 GB
GC Collections (Old/Young)	2 / 23
Threads (Peak/Max)	43 / 43

File System Info

Used Space	10.4% (6.5 GB)
Available Space	89.6% (56.2 GB)
Free Space	94.7% (59.4 GB)
Total Space	62.7 GB
Data 0 > path	/usr/share/elasticsearch/data/nodes/0
Data 0 > mount	/usr/share/elasticsearch/data (/dev/sda1)
Data 0 > type	ext4
Data 0 > total_in_bytes	62.7 GB
Data 0 > free_in_bytes	59.4 GB
Data 0 > available_in_bytes	56.2 GB

Operating System

System Memory Used %	95%
System Memory Used	2 GB / 2.1 GB
Allocated Processors	4
Available Processors	4
OS Name	Linux
OS Architecture	amd64

Process

CPU percent	0 %
File Descriptors	1 m
Open File Descriptors	277
MLockAll	false
Virtual Memory	4.9 GB
Current Time	2019-02-17T18:04:47+01:00

Installed Plugins

analysis-icu	v7.0.0-beta1	The ICU Analysis plugin integrates Lucene ICU module into elasticsearch, adding ICU relates analysis components.
analysis-kuromoji	v7.0.0-beta1	The Japanese (kuromoji) Analysis plugin integrates Lucene kuromoji analysis module into elasticsearch.
analysis-smartcn	v7.0.0-beta1	Smart Chinese Analysis plugin integrates Lucene Smart Chinese analysis module into elasticsearch.
ingest-attachment	v7.0.0-beta1	Ingest processor that uses Apache Tika to extract contents
mapper-murmur3	v7.0.0-beta1	The Mapper Murmur3 plugin allows to compute hashes of a field's values at index-time and to store them in the index.
mapper-size	v7.0.0-beta1	The Mapper Size plugin allows document to record their uncompressed size at index time.

b7665c021b45

Summary

IP Address:	172.18.0.2
Node ID:	UOdFRUowQ96bOVE2hT71yw

i File System

Documents Deleted	0.000%
Merge Rate	0.0
Disk space used	5.291%

i Actions

Indexing - Index	0.12
Indexing - Delete	0.00
Search - Query	12.50
Search - Fetch	16.00
Get - Total	4.00
Get - Exists	4.00
Get - Missing	0.00
Refresh	48.82
Flush	23.00

i Cache

Field Evictions	0.0
Query Cache Evictions	0.0

i Memory

Total Memory	2.0
Heap Size	1.0
Heap % of RAM	49.568%
% Heap Used	23.023%

CAT

- » [Aliases](#)
- » [Allocation](#)
- » [Count](#)
- » [Fielddata](#)
- » [Health](#)
- » [Indices](#)
- » [Master](#)
- » [Node Attrs](#)
- » [Nodes](#)
- » [Pending Tasks](#)
- » [Plugins](#)
- » [Recovery](#)
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CLUSTER

- » [Health](#)

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elastic-cookbook 7.0.0-beta1 Indices Metrics Nodes Diagnostics REST Query

mybooks Query

```
1- {
2-   "query": {
3-     "match_all": {}
4-   }
5-   "from": 0,
6-   "size": 10
7- }
```

Ln:1 Col:1

Select a node ...

```
object {4}
  data [1]
    0 {4}
      took: 2
      timed_out: false
      _shards {4}
        total: 1
        successful: 1
        skipped: 0
        failed: 0
      hits {3}
        total {2}
          value: 3
          relation: eq
          max_score: 1
        hits [3]
          0 {5}
            _index: mybooks
            _type: _doc
            _id: 1
            _score: 1
```

Home

🔗 Help us improve the Elastic Stack by providing usage statistics for basic features. We will not share this data outside of Elastic. [Read more](#)

Yes
No

Add Data to Kibana

Use these solutions to quickly turn your data into pre-built dashboards and monitoring systems.

APM

APM automatically collects in-depth performance metrics and errors from inside your applications.

[Add APM](#)

Logging

Ingest logs from popular data sources and easily visualize in preconfigured dashboards.

[Add log data](#)

Metrics

Collect metrics from the operating system and services running on your servers.

[Add metric data](#)

Security analytics

Centralize security events for interactive investigation in ready-to-go visualizations.

[Add security events](#)

Add sample data

Load a data set and a Kibana dashboard

Use Elasticsearch data

Connect to your Elasticsearch index

Add Data to Kibana

All
Logging
Metrics
Security analytics
Sample data

Sample eCommerce Data

The dashboard contains information for the last 24 hours only. You can view & compare, and interact with the dashboard. You can also download the data as a CSV file.

Sample eCommerce orders

Sample data, visualizations, and dashboards for tracking eCommerce orders.

[Add data](#)

Sample Flight Data

The dashboard contains information for the last 24 hours only. You can view & compare, and interact with the dashboard. You can also download the data as a CSV file.

Sample flight data

Sample data, visualizations, and dashboards for monitoring flight routes.

[Add data](#)

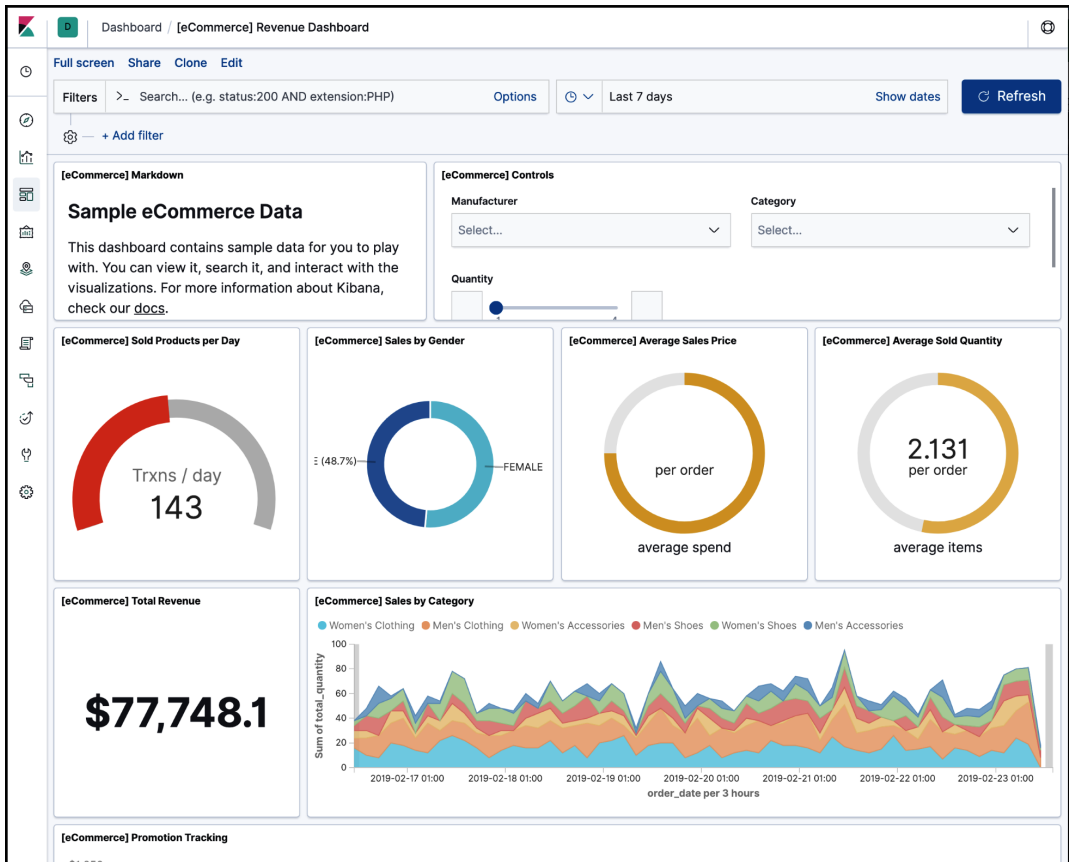
Sample Web Logs

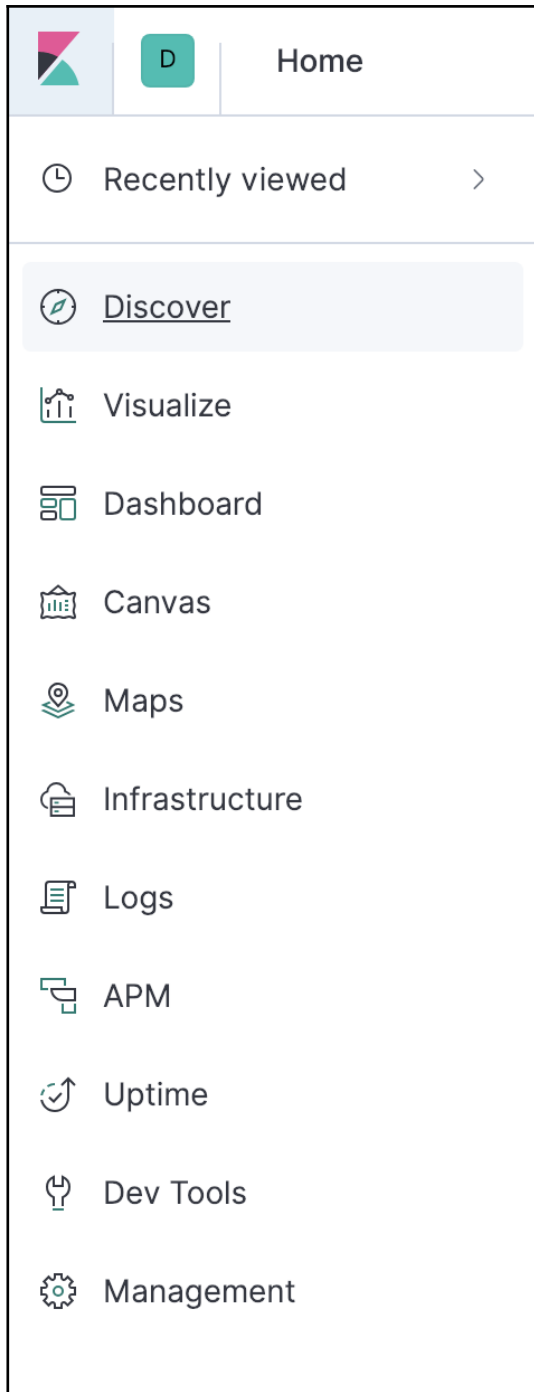
The dashboard contains information for the last 24 hours only. You can view & compare, and interact with the dashboard. You can also download the data as a CSV file.

Sample web logs

Sample data, visualizations, and dashboards for monitoring web logs.

[Add data](#)





Discover
🔍

2 hits
🔄

New Save Open Share Inspect

Filters > Search... (e.g. status:200 AND extension:PHP)
Options
Last 15 minutes
Show dates
Refresh

Kibana_sample_d... ⊕

Selected fields

? _source

Available fields ⊕

- t _id
- t _index
- # _score
- t _type
- t category
- t currency
- t customer_first_name
- t customer_full_name
- t customer_gender
- t customer_id
- t customer_last_name
- t customer_phone
- t day_of_week
- # day_of_week_i
- t email
- t geopip.city_name
- t geopip.continent_name
- t geopip.country_iso_co...
- 📍 geopip.location
- t geopip.region_name

Feb 23, 2019 @ 20:37:22.146 - Feb 23, 2019 @ 20:52:22.146
Auto






Time	_source
> Feb 23, 2019 @ 20:49:26.000	<pre>category: Women's Clothing, Women's Accessories currency: EUR customer_first_name: Pia customer_full_name: Pia Reyes customer_gender: FEMALE customer_id: 45 customer_last_name: Reyes customer_phone: day_of_week: Saturday day_of_week_i: 5 email: pia@reyes-family.zzz manufacturer: Oceanavigations, Angeldale order_date: Feb 23, 2019 @ 20:49:26.000 order_id: 573148 products: { "base_price": 74.99, "discount_percentage": 0, "quantity": 1, "manufacturer":</pre>
> Feb 23, 2019 @ 20:43:41.000	<pre>category: Women's Shoes currency: EUR customer_first_name: Wilhemina St. customer_full_name: Wilhemina St. Palmer customer_gender: FEMALE customer_id: 17 customer_last_name: Palmer customer_phone: day_of_week: Saturday day_of_week_i: 5 email: wilhemina.st.palmer-family.zzz manufacturer: Oceanavigations, Angeldale order_date: Feb 23, 2019 @ 20:43:41.000 order_id: 573141 products: { "base_price": 64.99, "discount_percentage": 0,</pre>

Mar 10, 2019 @ 00:45:36.000 category: Men's Shoes, Men's Clothing currency: EUR customer_first_name: Youssef
 customer_full_name: Youssef Jensen customer_gender: MALE customer_id: 31
 customer_last_name: Jensen customer_phone: day_of_week: Saturday day_of_week_i: 5
 email: youssef@jensen-family.zzz manufacturer: Low Tide Media order_date: Mar 10, 2019 @
 00:45:36.000 order_id: 592109 products: { "base_price": 49.99, "discount_percentage": 0,

Expanded document

[View surrounding documents](#) [View single document](#)

Table JSON

t	_id	hGNEGmkBr1b8TXhKe5Gk
t	_index	kibana_sample_data_ecommerce
#	_score	-
t	_type	_doc
t	category	Men's Shoes, Men's Clothing
t	currency	EUR
   *	t customer_first_name	Youssef
t	customer_full_name	Youssef Jensen
t	customer_gender	MALE
t	customer_id	31
t	customer_last_name	Jensen
t	customer_phone	
t	day_of_week	Saturday
#	day_of_week_i	5
t	email	youssef@jensen-family.zzz
t	geopip.city_name	New York
t	geopip.continent_name	North America
t	geopip.country_iso_code	US
	geopip.location	{ "lon": -74, "lat": 40.8 }
t	geopip.region_name	New York
t	manufacturer	Low Tide Media
	order_date	Mar 10, 2019 @ 00:45:36.000
t	order_id	592109
?	products	{ "base_price": 49.99,

Calendar icon | This year | Show dates

Quick select < >

Last | 15 | minutes | **Apply**

Commonly used

Today	This week
This month	This year
Today so far	Week to date
Month to date	Year to date

Recently used date ranges

- This year
- Last 5 years
- Last 7 days
- Jan 19, 2000 @ 21:58:18.723 to Jan 19, 2024 @ 21:58:18.723
- Jan 19, 2009 @ 21:58:18.723 to Jan 19, 2014 @ 21:58:18.723

Refresh every

0 | seconds | **Start**

ceanavigations, Pyramidindustries | order_date: Mar 10, 2019 @ 00:31:12.

Filters > Search... (e.g. status:200 AND extension:PHP) [Options](#)

+ Add filter

EDIT FILTER

[Edit as Query DSL](#)

Field	Operator
category	is

Value

Enter a value

Create custom label?

[Cancel](#) [Save](#)

Selected fields

? _source

Available fields ⚙

t _id






t _index

_score

t _type

t category add

Top 5 values in 500 / 500 records

Men's Clothing	 44.4%	⊕ 🔍
Women's Clothing	 37.4%	⊕ 🔍
Women's Shoes	 25.2%	⊕ 🔍
Men's Shoes	 24.6%	⊕ 🔍
Women's Accessories	 16.6%	⊕ 🔍

t currency

t customer_first_name

D
Visualize
⊞

+
1-20 of 40
◀ ▶

	Title ↑	Type
<input type="checkbox"/>	[eCommerce] Average Sales Per Region	Region Map
<input type="checkbox"/>	[eCommerce] Average Sales Price	Gauge
<input type="checkbox"/>	[eCommerce] Average Sold Quantity	Gauge
<input type="checkbox"/>	[eCommerce] Controls	Controls
<input type="checkbox"/>	[eCommerce] Markdown	Markdown
<input type="checkbox"/>	[eCommerce] Promotion Tracking	Visual Builder
<input type="checkbox"/>	[eCommerce] Sales by Category	Area
<input type="checkbox"/>	[eCommerce] Sales by Gender	Pie
<input type="checkbox"/>	[eCommerce] Sold Products per Day	Visual Builder


New Visualization

×

- Area
- Controls ^E
- Coordinate Map
- Data Table
- Gauge
- Goal
- Heat Map
- Horizontal Bar
- Line
- Markdown
- Metric
- Pie
- Region Map
- Tag Cloud
- Timelion
- Vega ^E
- Vertical Bar
- Visual Builder

Select a visualization type

Start creating your visualization by selecting a type for that visualization.



Visualize / Create

Save Share Inspect Refresh

Filters > Search... (e.g. status:200 AND ex Options This year Show dates Refresh

+ Add filter

kibana_sample_data_ecommerce

Data Options

Metrics

> Tag Size Count

Buckets

Tags

Aggregation Terms Terms help

Field category.keyword

Order By metric: Count

Order Descend Size 5

Group other values in separate bucket ?

Show missing values ?

Men's Shoes

Men's Clothing

Women's Shoes

Women's Accessories

category.keyword: Descending - Count

Dashboard interface showing a list of dashboards. The page title is "Dashboards" and there is a "Create new dashboard" button. A search bar is present with the text "Search...". The dashboard list includes:

<input type="checkbox"/> Title ↑	Description	Actions
<input type="checkbox"/> [eCommerce] Revenue Dashboard	Analyze mock eCommerce orders and revenue	Edit
<input type="checkbox"/> [Flights] Global Flight Dashboard	Analyze mock flight data for ES-Air, Logstash Airways, Kibana Airlines and JetBeats	Edit
<input type="checkbox"/> [Logs] Web Traffic	Analyze mock web traffic log data for Elastic's website	Edit

Rows per page: 20 ▾

Add Panels



Visualization

Saved Search

🔍 Search...

Add new Visualization

Title

[eCommerce] Sales by Category

[eCommerce] Sales by Gender

[eCommerce] Markdown

[eCommerce] Controls

[eCommerce] Promotion Tracking

[eCommerce] Total Revenue

[eCommerce] Sold Products per Day

[eCommerce] Average Sales Price

[eCommerce] Average Sold Quantity

[eCommerce] Average Sales Per Region

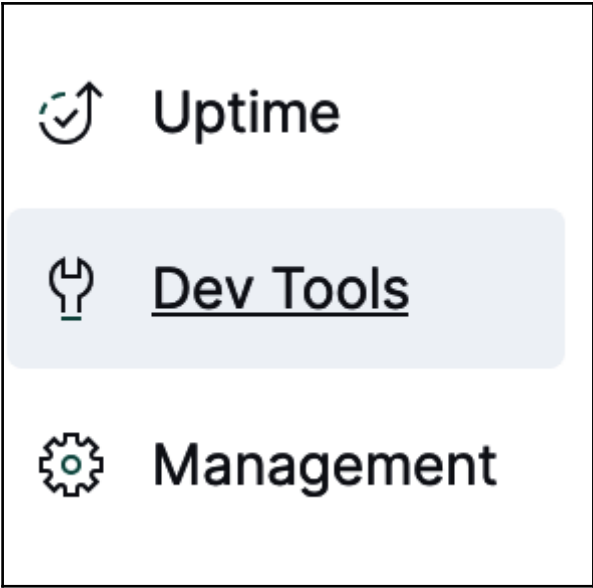
[eCommerce] Top Selling Products

[Flights] Controls

[Flights] Flight Count and Average Ticket Price

[Flights] Airline Carrier

[Flights] Delay Type



localhost:5601/ap...
Dev Tools
History Settings Help
Console Search Profiler Grok Debugger

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

```
1 {
2   "took" : 1,
3   "timed_out" : false,
4   "_shards" : {
5     "total" : 1,
6     "successful" : 1,
7     "skipped" : 0,
8     "failed" : 0
9   },
10  "hits" : {
11    "total" : {
12      "value" : 3,
13      "relation" : "eq"
14    },
15    "max_score" : 1.0,
16    "hits" : [
17      {
18        "_index" : "mybooks",
19        "_type" : "_doc",
20        "_id" : "1",
```

_all
Index Type

```
1 {  
2   "query": {  
3     "match_all": {}  
4   }  
5 }
```

Profile

Query Profile Aggregation Profile

.monitoring-es-2-2017.01.02
[iv9vAluyQh6ULQtdctIWvA][0]

Cumulative Time: 126.436ms

Index: .monitoring-es-2-2017.01.02

> [iv9vAluyQh6ULQtdctIWvA][0] 126.436ms

Type	Self Time	Total Time	% Time
MatchAllDocsQuery **	126.4ms	126.4ms	100.00%

Type
MatchAllDocsQuery

Description
:

Total Time
126.436ms

Self Time
126.436ms

Timing Breakdown

next_doc	92.6ms	73.3%
score	33.7ms	26.7%
build_scorer	40.7µs	0.0%
create_weight	2.3µs	0.0%
match	0.0ns	0.0%
advance	0.0ns	0.0%

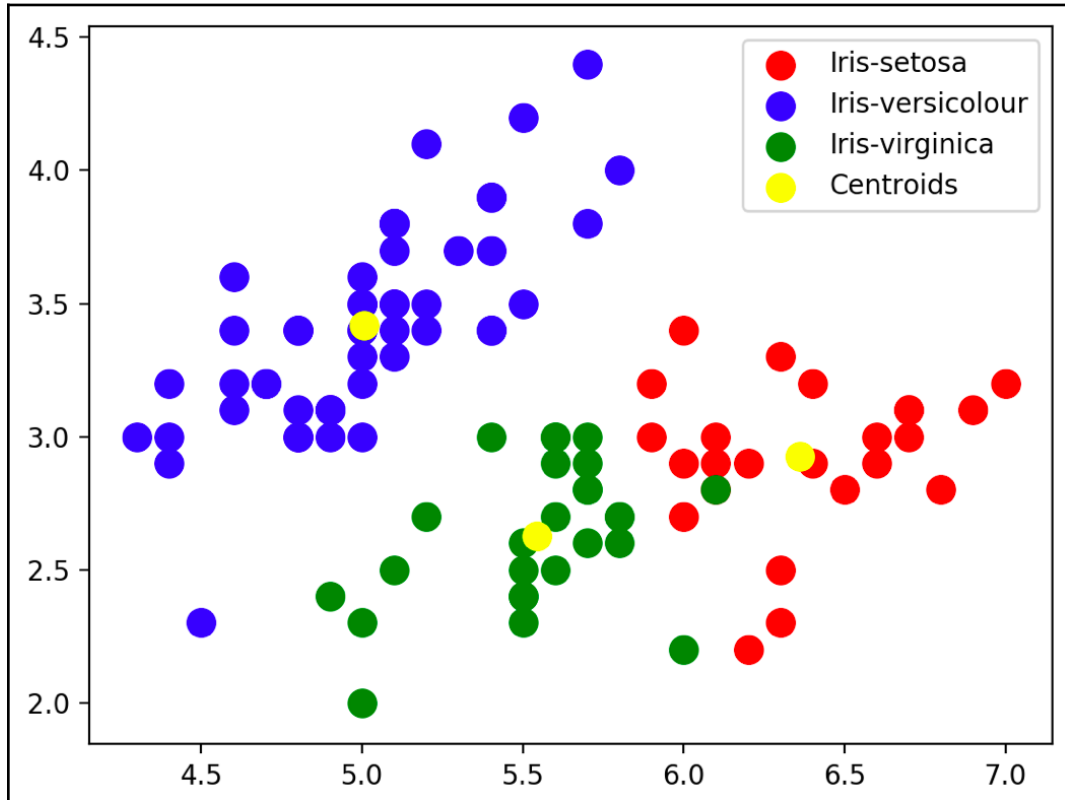
Cumulative Time: 0.002ms

Index: test4

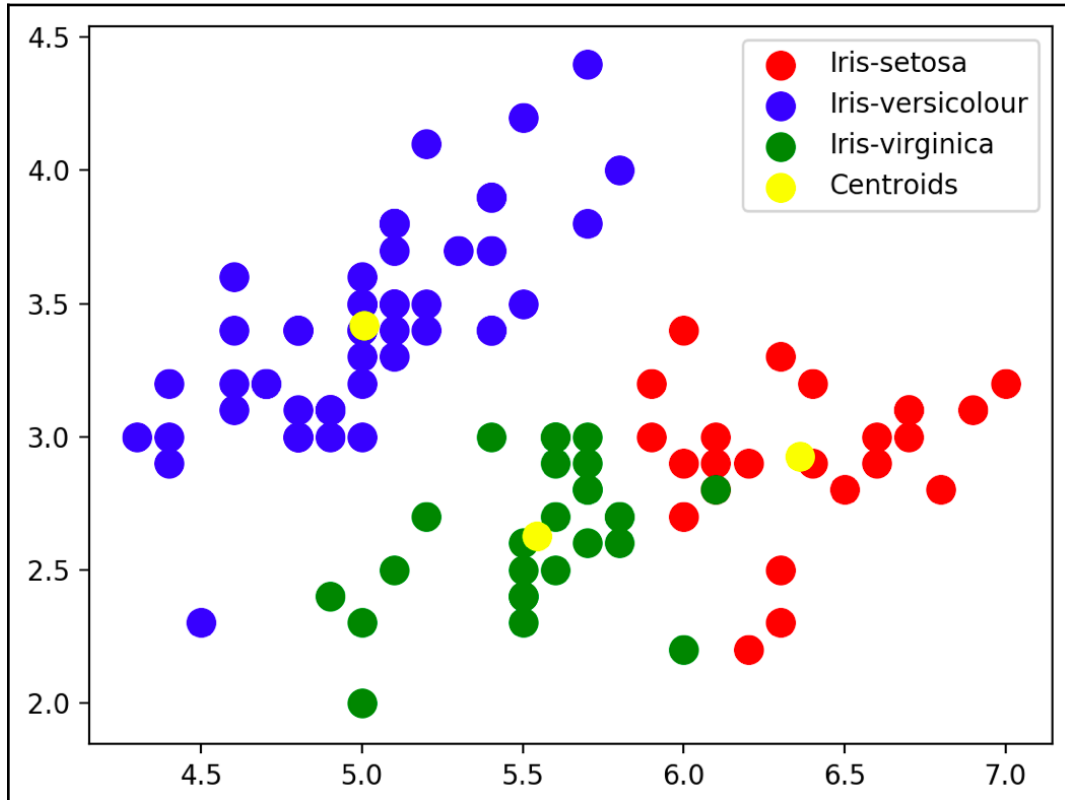
> [iv9vAluyQh6ULQtdctIWvA][1] 0.001ms

Type	Self Time	Total Time	% Time
MatchAllDocsQuery **	0.0ms	0.0ms	100.00%

Chapter 15: Python Integration



Chapter 18: Missing Recipes



Graphics Bundle Ends Here

Index