

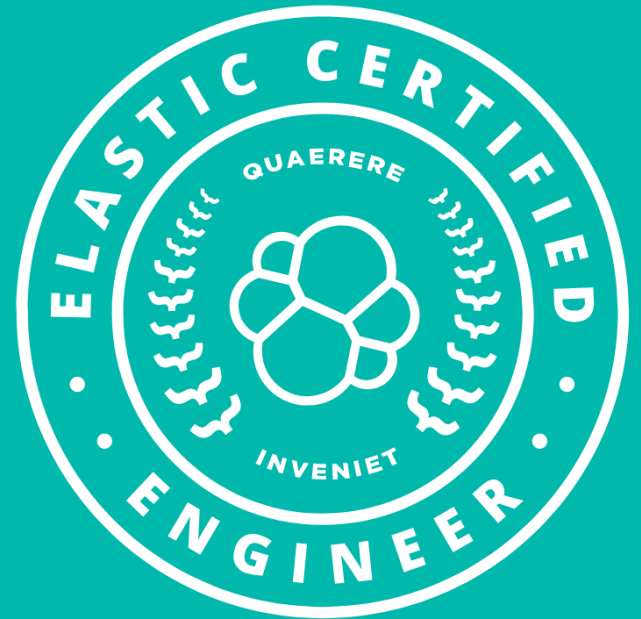
Tips on Elastic Certified Engineer Exam

@zyongqing

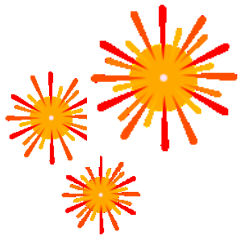
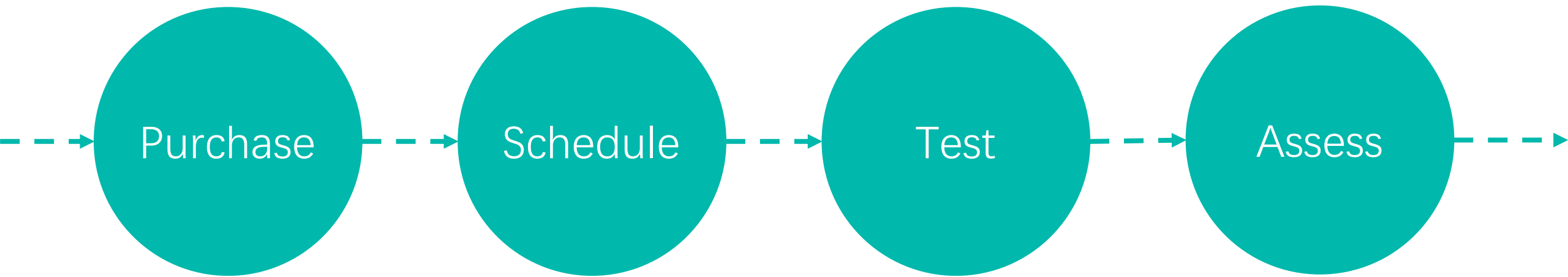
2019/09/07

Exam Overview

Coverage	Elasticsearch
Format	Hands-on Labs
Duration	3 hours
Language	English
Location	Online
Cost	\$400



Exam Procedure



2019.08.01 – 2019.10.31 receive a 2nd free attempt if needed

#1 Official Website

Open Doors with Elastic Certification

You mastered the Elastic Stack, now it's time to enhance your professional visibility and grow opportunities for your company by becoming Elastic certified. When someone asks for your Elastic credentials, show them your (digital) badge.



Purchase and attempt the Elastic Certified Engineer exam by October 31, and receive a 2nd attempt free.

[Get certified](#)

Elastic certification is tough, but we have tips for making sure you're prepared.

[Watch video](#)

Have questions about the certification process? We have answers for you.

[Get the FAQ](#)

your professional visibility and grow opportunities for your company by becoming Elastic certified. When someone asks for your Elastic credentials, show them your (digital) badge.



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[Get certified](#)

Exam Purchase*

Exam Description

Exam Objectives*

Exam Format

Exam Requirements

Exam Preparation

Elastic certification is tough, but we have tips for making sure you're prepared.

[Watch video](#)

Exam Tips

Exam Environment*

Sample Questions*

...

Have questions about the certification process? We have answers for you.

[Get the FAQ](#)

FAQ

Software Version*

ID verification*

...

#2 Official Training



Elasticsearch Engineer I

Classroom - 2 Days, 8 Hours/Day

Online - 4 Days, 4 Hours/Day



Elasticsearch Engineer II

Classroom - 2 Days, 8 Hours/Day

Online - 4 Days, 4 Hours/Day



#3 Knowledge and Skills

Content

1 Exam Objectives

Installation and Configuration

Indexing Data

Queries

Aggregations

Mappings and Text Analysis

Cluster Administration

2 Docs' Layout and Search



[Products](#) [Learn](#) [Company](#) [Pricing](#)

Docs

[Elasticsearch introduction »](#)

Elasticsearch Reference

+ Elasticsearch Reference: 7.2

+ [Elasticsearch introduction](#)

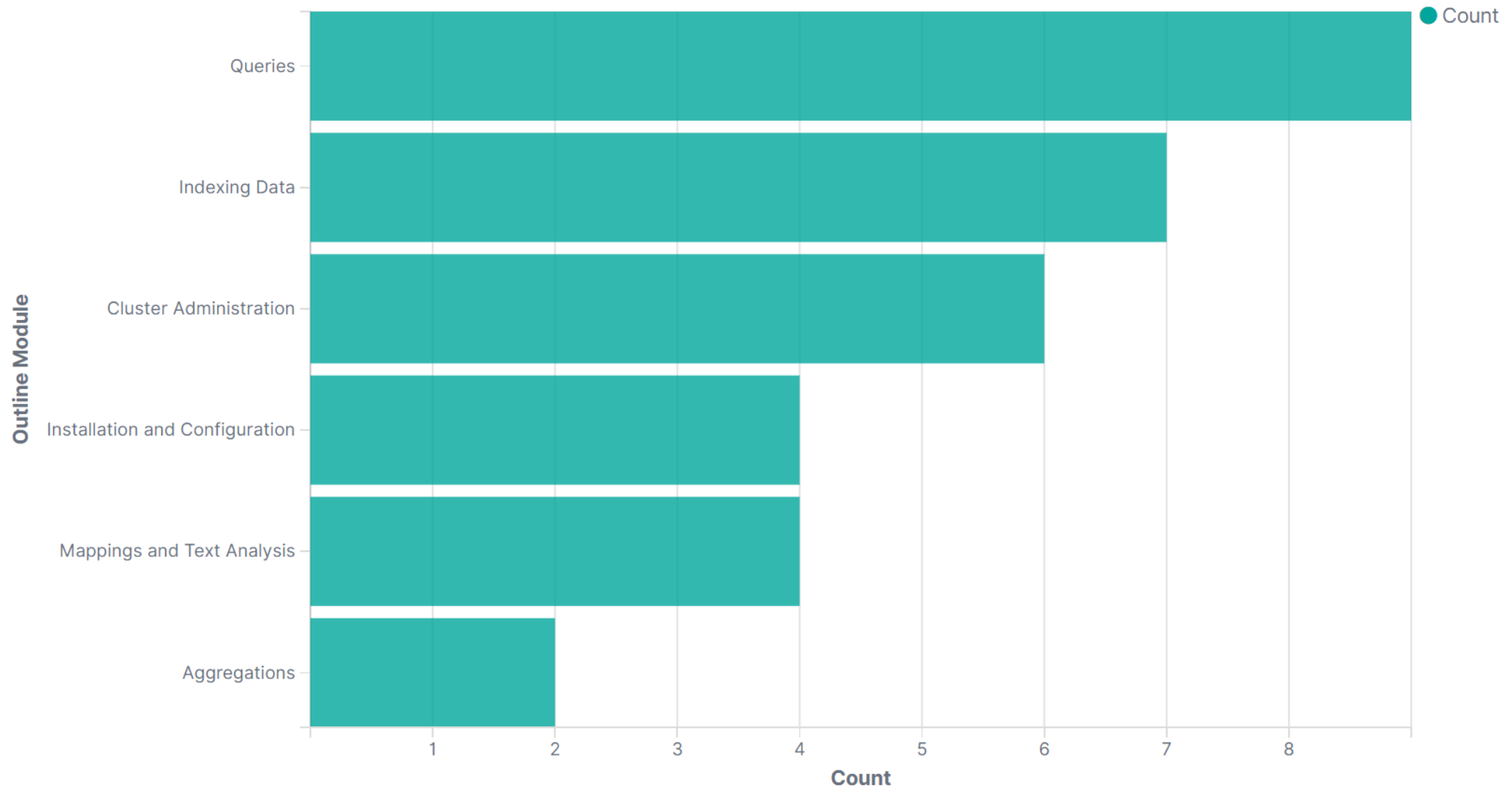
+ [Getting started with Elasticsearch](#)

+ [Set up Elasticsearch](#)

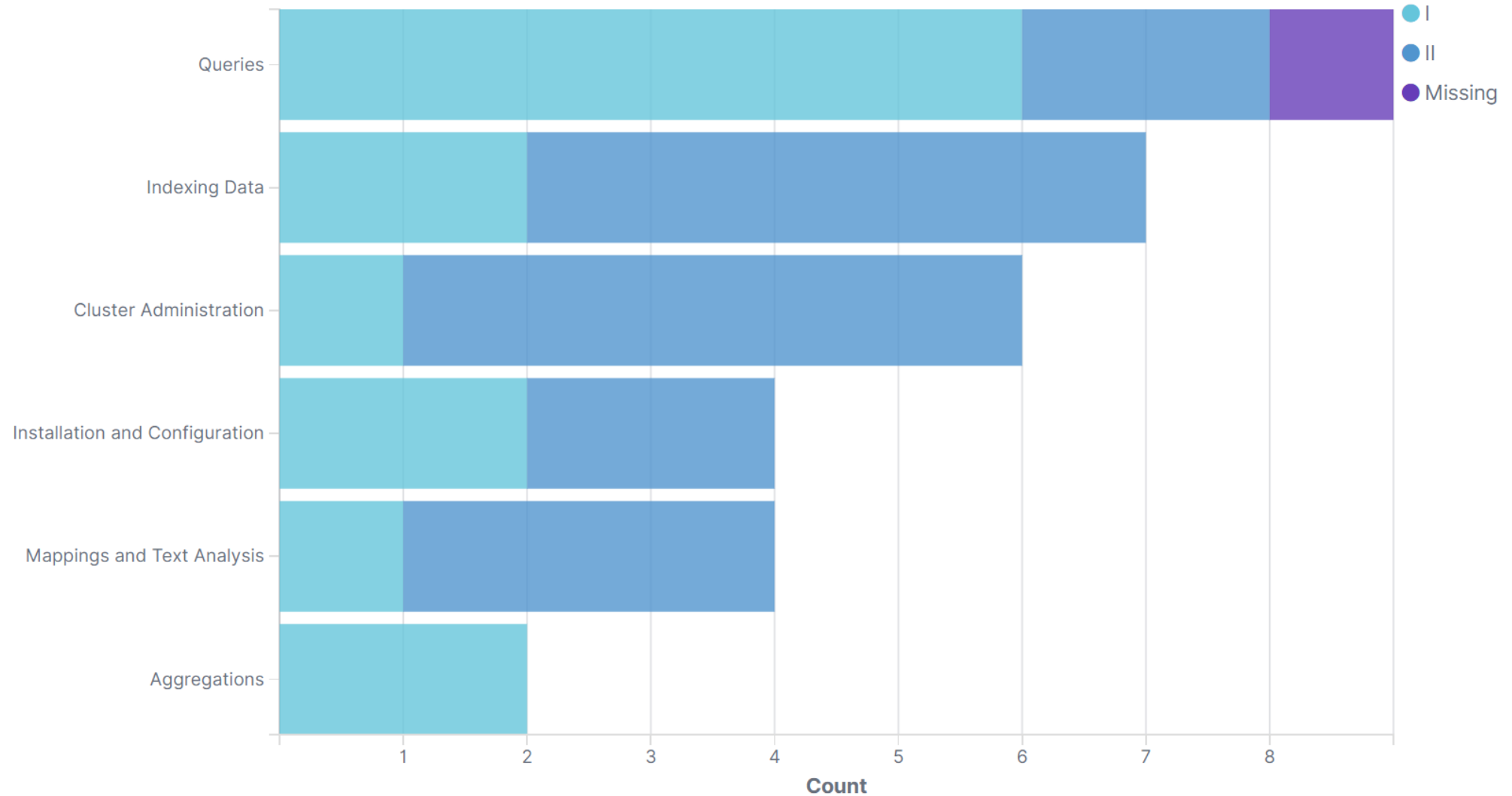
+ [Upgrade Elasticsearch](#)

+ [API conventions](#)

Exam Objectives



Training Lessons - Exam Objectives

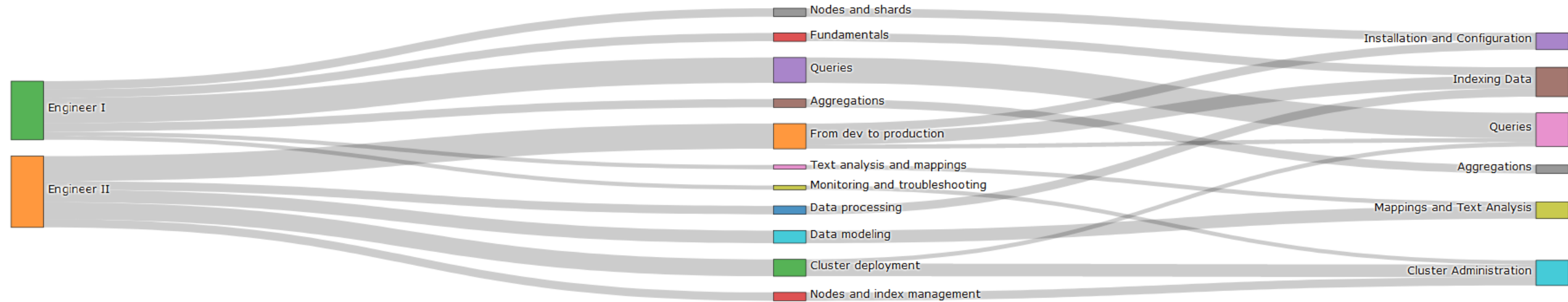


Training Lessons – Exam Objectives

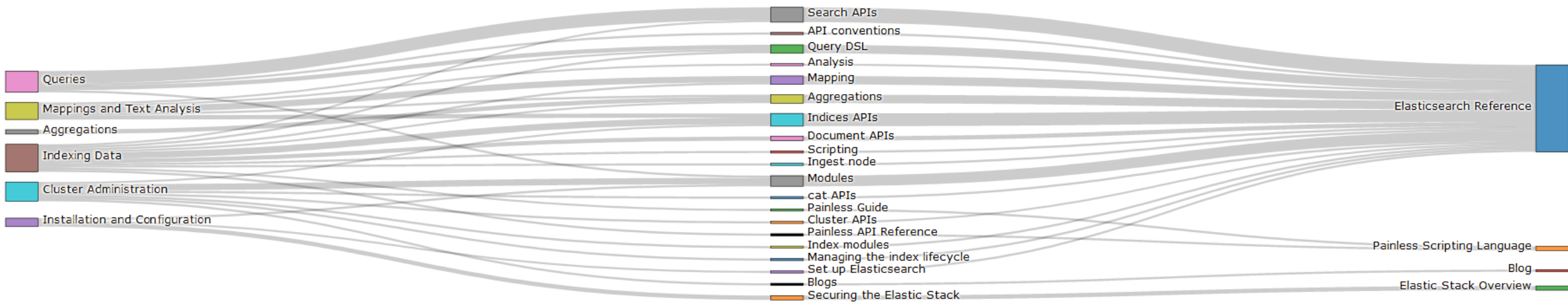
Training	Lesson Name	Exam Objective Module	Exam Objective
I	Elasticsearch fundamentals	Indexing Data	Define an index that satisfies a given set of requirements
I	Elasticsearch fundamentals	Indexing Data	Perform index, create, read, update, and delete operations on the documents of an index
I	Elasticsearch queries	Queries	Write and execute a search query for terms and/or phrases in one or more fields of an index
I	Elasticsearch queries	Queries	Apply fuzzy matching to a query
I	Elasticsearch queries	Queries	Write and execute a search query that is a Boolean combination of multiple queries and filters
I	Elasticsearch queries	Queries	Highlight the search terms in the response of a query
I	Elasticsearch queries	Queries	Sort the results of a query by a given set of requirements
I	Elasticsearch queries	Queries	Implement pagination of the results of a search query
I	Elasticsearch aggregations	Aggregations	Write and execute metric and bucket aggregations
I	Elasticsearch aggregations	Aggregations	Write and execute aggregations that contain sub-aggregations
I	Elasticsearch text analysis and mappings	Mappings and Text Analysis	Define a mapping that satisfies a given set of requirements
I	Elasticsearch nodes and shards	Installation and Configuration	Deploy and start an Elasticsearch cluster that satisfies a given set of requirements
I	Elasticsearch nodes and shards	Installation and Configuration	Configure the nodes of a cluster to satisfy a given set of requirements
I	Elasticsearch monitoring and troubleshooting	Cluster Administration	Diagnose shard issues and repair a cluster's health
II	Elasticsearch data modeling	Mappings and Text Analysis	Define and use a custom analyzer that satisfies a given set of requirements
II	Elasticsearch data modeling	Mappings and Text Analysis	Define and use multi-fields with different data types and/or analyzers
II	Elasticsearch data modeling	Mappings and Text Analysis	Configure an index so that it properly maintains the relationships of nested arrays of objects
II	Elasticsearch data processing	Indexing Data	Define and use an ingest pipeline that satisfies a given set of requirements, including the use of Painless to modify documents

*You can get a self-learning path from reordered exam objectives**

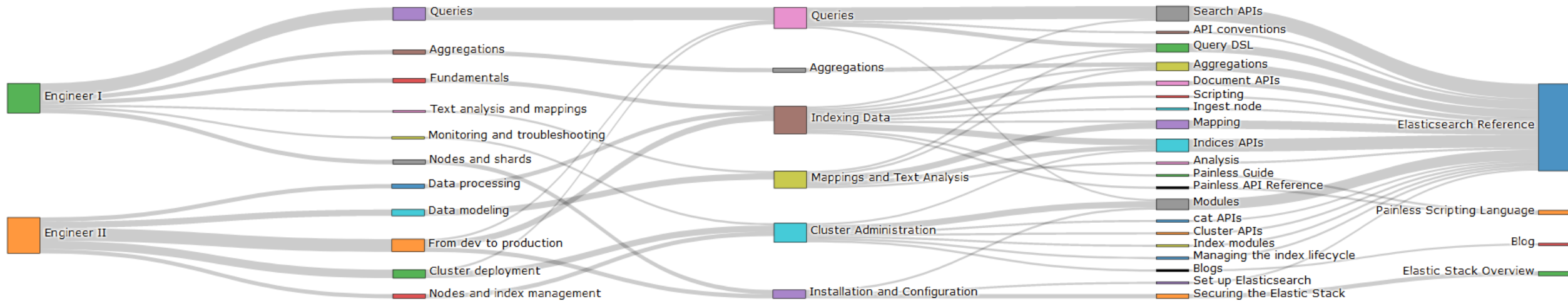
Training Lessons - Exam Objectives



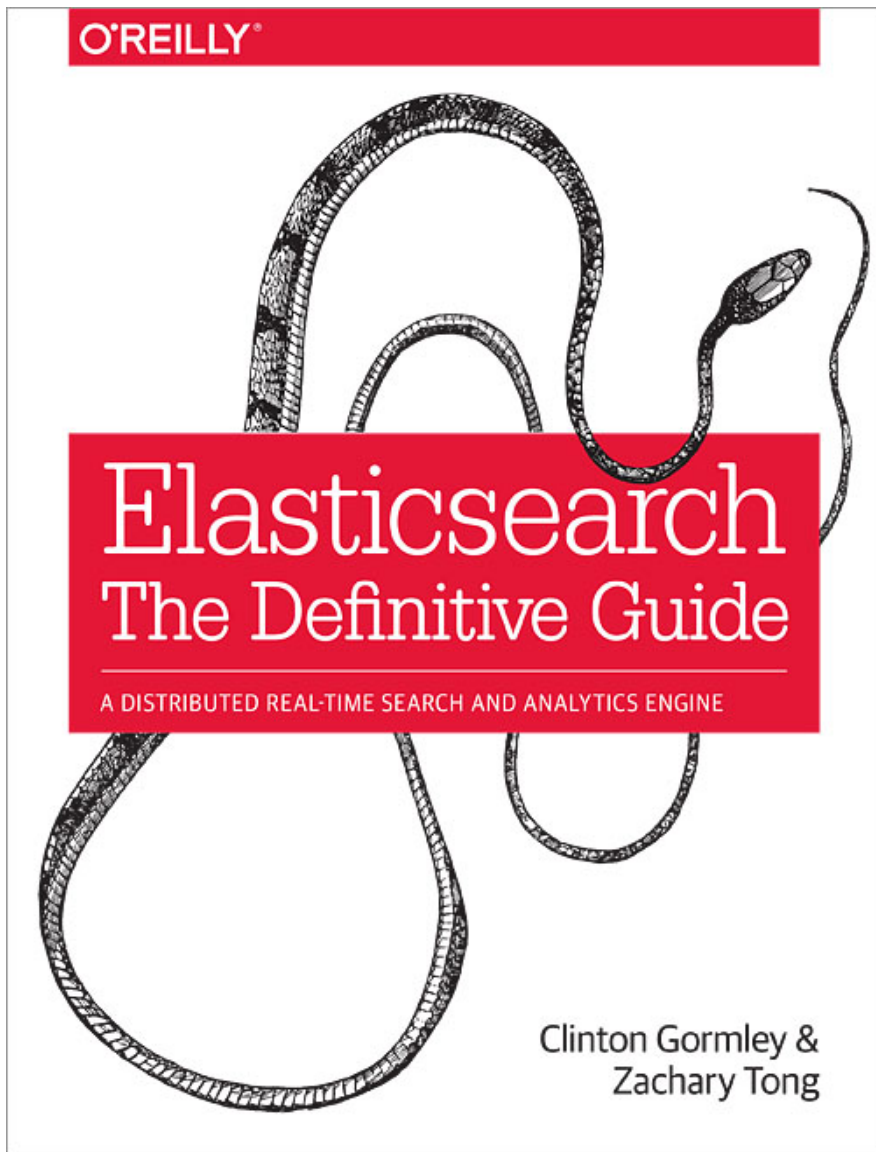
Exam Objectives – Docs



Training Lessons - Exam Objectives - Docs



#4 Books



Applies to version 2.x of Elasticsearch

Chapters of internals

Chapter 2 Life Inside a Cluster

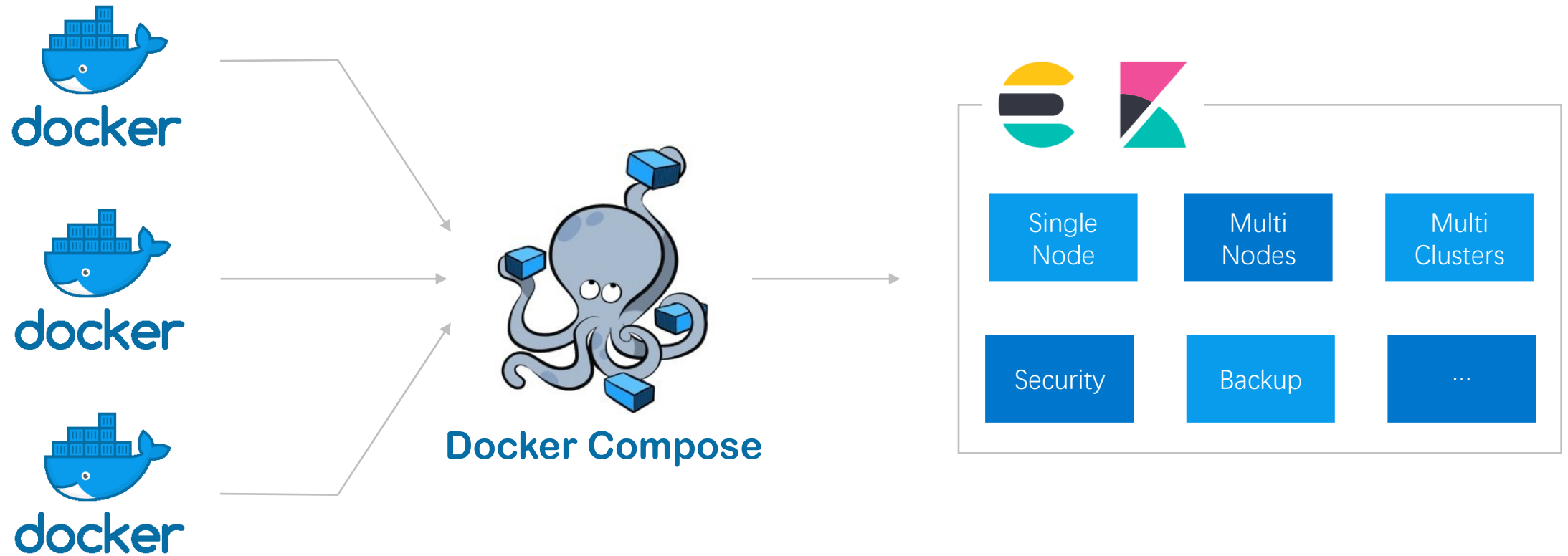
Chapter 4 Distributed Document Store

Chapter 9 Distributed Search Execution

Chapter 11 Inside a Shard

#5 Labs

Lab Environment



Lab Tools

The screenshot displays the Kibana Dev Tools interface. The browser tab is titled "Console - Kibana" and the address bar shows the URL `localhost:5601/app/kibana#/dev_tools/console?_g=(refreshInterval:(pause:!f,value:900000),time:(from:now-7d,to:now))`. The Dev Tools panel is open, showing the "Console" tab. The left sidebar contains various icons, with the "Dev Tools" icon (a wrench and screwdriver) highlighted by a yellow circle. The console area shows a single log entry: a green "GET" request to `kibana_sample_data_ecommerce`. The response is a JSON object representing the index mapping for `kibana_sample_data_ecommerce`. The JSON structure includes aliases, mappings, properties, category, currency, customer_birth_date, customer_first_name, and customer_full_name, each with their respective field types and configurations.

```
1 GET kibana_sample_data_ecommerce
1 {
2   "kibana_sample_data_ecommerce" : {
3     "aliases" : { },
4     "mappings" : {
5       "properties" : {
6         "category" : {
7           "type" : "text",
8           "fields" : {
9             "keyword" : {
10              "type" : "keyword"
11            }
12          }
13        },
14        "currency" : {
15          "type" : "keyword"
16        },
17        "customer_birth_date" : {
18          "type" : "date"
19        },
20        "customer_first_name" : {
21          "type" : "text",
22          "fields" : {
23            "keyword" : {
24              "type" : "keyword",
25              "ignore_above" : 256
26            }
27          }
28        },
29        "customer_full_name" : {
30          "type" : "text",
31          "fields" : {
32            "keyword" : {
33              "type" : "keyword",
34              "ignore_above" : 256
35            }
36          }
37        }
38      }
39    }
40  }
```

Lab Data

Add Data to Kibana

AllLoggingMetricsSecurity analytics**Sample data**

INSTALLED

Sample eCommerce Data

This dashboard contains sample data for you to play with. You can view it, search it, and interact with the visualizations. For more information about Kibana, check our [docs](#).

Trxns / day

139

Avg. Order Value

\$75.23

Average Items

2.163

Total Revenue

\$77,638.33

Sample eCommerce orders

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

Remove

View data

INSTALLED

Sample Flight data

This dashboard contains sample data for you to play with. You can view it, search it, and interact with the visualizations. For more information about Kibana, check our [docs](#).

313

Total Flights

\$596

Avg. Ticket Price

Sample flight data

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

Remove

View data

INSTALLED

Sample Logs Data

This dashboard contains sample data for you to play with. You can view it, search it, and interact with the visualizations. For more information about Kibana, check our [docs](#).

801

Unique Visitors

313

Total Flights

\$596

Avg. Ticket Price

Sample web logs

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

Remove

View data

health	status	index	uuid	pri	rep	docs.count	docs.deleted	store.size	pri.store.size
green	open	kibana_sample_data_ecommerce	oLYV5Z0vRb2l0fbtSNRAWQ	1	0	4675	0	4.7mb	4.7mb
green	open	kibana_sample_data_logs	1dVT-YJCQGiFzEmAuV5NqA	1	0	14074	0	11.5mb	11.5mb
green	open	kibana_sample_data_flights	mTf188A_TfmOU040ryI3mw	1	0	13059	0	6.4mb	6.4mb

#6 Sample Questions

Source

1 Official Videos (6 sample questions)

Preparing for the Elastic Certified Engineer Exam - Get Elasticsearch Certified

Helpful Tips for Passing the Elastic Certified Engineer Exam for Elasticsearch 7.x

2 Official Training

3 Blogs and Forums

4 Design it yourself



How to Use

- 1 Determine the depth of knowledge and stop digging into a deep hole
- 2 Test your knowledge, make sure you know how to do it
- 3 Test your speed, make sure you can finish it in time

#7 Before The Test

Space Requirements

1 Room

quiet, private, no bright light ...

2 Desk

no paper, book, phone, monitor...



Computer and Network Requirements



[Schedule an Exam](#) | [My Exams](#) | [My Account](#) | [Support](#) | [Compatibility Tool](#) | [Exam FAQs](#)

WebDelivery Compatibility Check

[sign in](#)

[create an account](#)

Option 3
















Select a Sponsor.

Elastic

Select an exam from the list below to run the compatibility check for the selected exam.

Certified Engineer (ECE) - English

Go

Component	Minimum Requirement	Status	Action Required
 Operating System	<ul style="list-style-type: none"> Windows XP, Vista, 7, 8 Mac OS X and above Linux Chrome OS 		Linux distributions using Wayland (such as Fedora 28) may experience issues with the Google Chrome Extension. Consider using an alternate distribution or operating system to avoid issues on your exam day.
 Web Browser	Current version of Google Chrome or Chromium.		Google Chrome or Chromium required.
 Browser Settings	Your browser must accept 3rd party cookies for the duration of the exam ONLY.		Please ensure that your browser accepts 3rd party cookies for the duration of the exam ONLY. To change your settings visit: chrome://settings/content and unblock 3rd party cookies.
 Webcam/Microphone	<ul style="list-style-type: none"> Minimum VGA 640 x 480 resolution Enabled built in or external microphone 		
 Google Chrome Extension	Install PSI Google Chrome Extension		See step 1 at top of page
 Ports	TCP: port 80 and 443		
 Bandwidth	Minimum 500Kbps download and 256Kbps upload Recommended 5Mbps or higher download and upload		Must meet at least 500kb/s download and 250kb/s upload speed.
 Hardware Requirements	<ul style="list-style-type: none"> 1GB RAM & 2GHz dual core processor Minimum 1280 x 800 resolution 		Please ensure that you meet the minimum hardware requirements, listed to the left, before launching your exam at scheduled time.
 Testing Environment	<ul style="list-style-type: none"> Room must be quiet, private and well lit. Public spaces such as coffee shops, stores, etc. are not allowed. Desk must clear of all notes and electronics. Examinee should reside in the center of the camera frame No bright lights or windows behind the examinee 		Please ensure that you meet the testing environment requirements, listed to the left, before launching your exam at scheduled time.

Chrome is required

Make sure the camera works fine

Choose **the best** period of time

Space requirements

#8 In The Test

- 1 You **MUST** start the exam no later than 15 minutes (15 minutes early is recommended)
- 2 Drinking, eating, and going to the bathroom **BEFORE** you start
- 3 Take your **NON-EXPIRED** government issued photo ID.
- 4 There is plenty of time in the exam, so don't stress yourself out. **MARK** and **SKIP** the one you can't answer.
- 5 Read all questions **CAREFULLY**. Reading all questions **CAREFULLY**. Read all questions **CAREFULLY**.
- 6 Try to **SEARCH** the docs, and you may find something useful.
- 7 Click the **SAVE** button when you finish each question.

Conclusion

- 1 Focus on exam objectives and have strong knowledge of them
- 2 Accustom yourself to docs' layout and search
- 3 Get your hands dirty in lab environment
- 4 Keep calm and be careful in the exam

References

Official Websites

<https://training.elastic.co/exam/elastic-certified-engineer>

<https://www.elastic.co/training/certification/faq>

Official Videos

<https://www.bilibili.com/video/av64692198> (7.x)

<https://www.bilibili.com/video/av63688396> (6.x)

Official Trainings

<https://www.elastic.co/cn/training/elasticsearch-engineer-1>

<https://www.elastic.co/cn/training/elasticsearch-engineer-2>

Books

Elasticsearch - The Definitive Guide

<https://www.elastic.co/guide/en/elasticsearch/guide/current/index.html> (EN)

<https://www.elastic.co/guide/cn/elasticsearch/guide/current/index.html> (CN)

Compatibility Check

<https://www.examslocal.com/ScheduleExam/Home/CompatibilityCheck>

Presentations

<https://github.com/zyongqing/elastic-certified-engineer>

Q&A