

# Elastic 认证工程师考试 经验分享

@zyongqing

2019/09/07

# 考试简介

考试范围： 仅 Elasticsearch

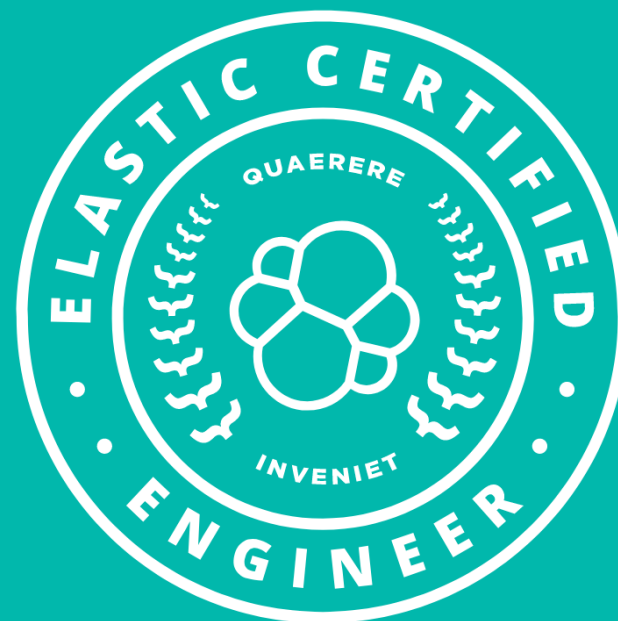
考试形式： 10~12 题实机操作

考试时间： 3 小时

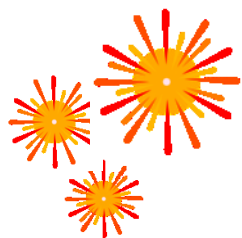
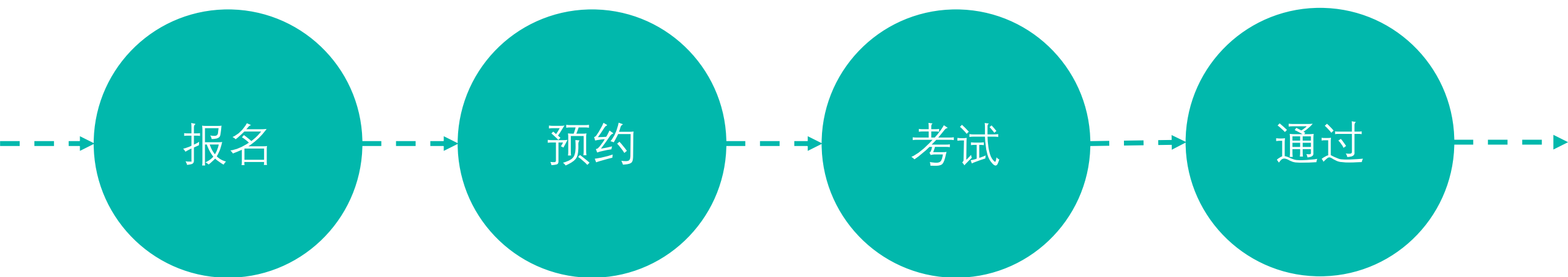
考试语言： 英语

考试地点： 在线考试

考试费用： 400 美元



# 考试流程



2019.08.01 – 2019.10.31 报名且参加考试可免费重考一次

# #1 官方信息

# 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](#)

考试报名\*

考试说明

考试大纲\*

考试形式

考场要求

考试准备

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

[Watch video](#)

考试经验

考试系统\*

考题讲解\*

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

[Get the FAQ](#)

常见问题

考试版本\*

身份验证\*

...

# #2 官方培训



## Elasticsearch Engineer I

教室 - 2 天, 8 小时/每天

在线 - 4 天, 4 小时/每天



## Elasticsearch Engineer II

教室 - 2 天, 8 小时/每天

在线 - 4 天, 4 小时/每天





# #3 复习内容

# 目标

## 1 搞懂考试大纲

Installation and Configuration

Indexing Data

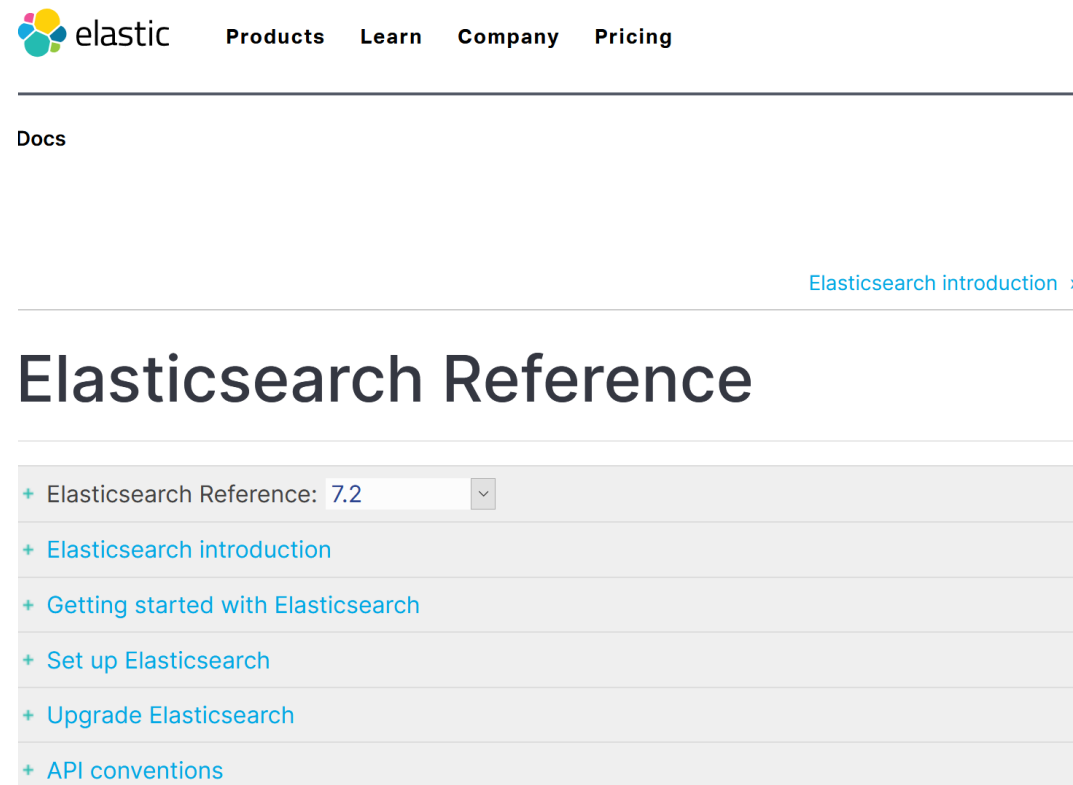
Queries

Aggregations

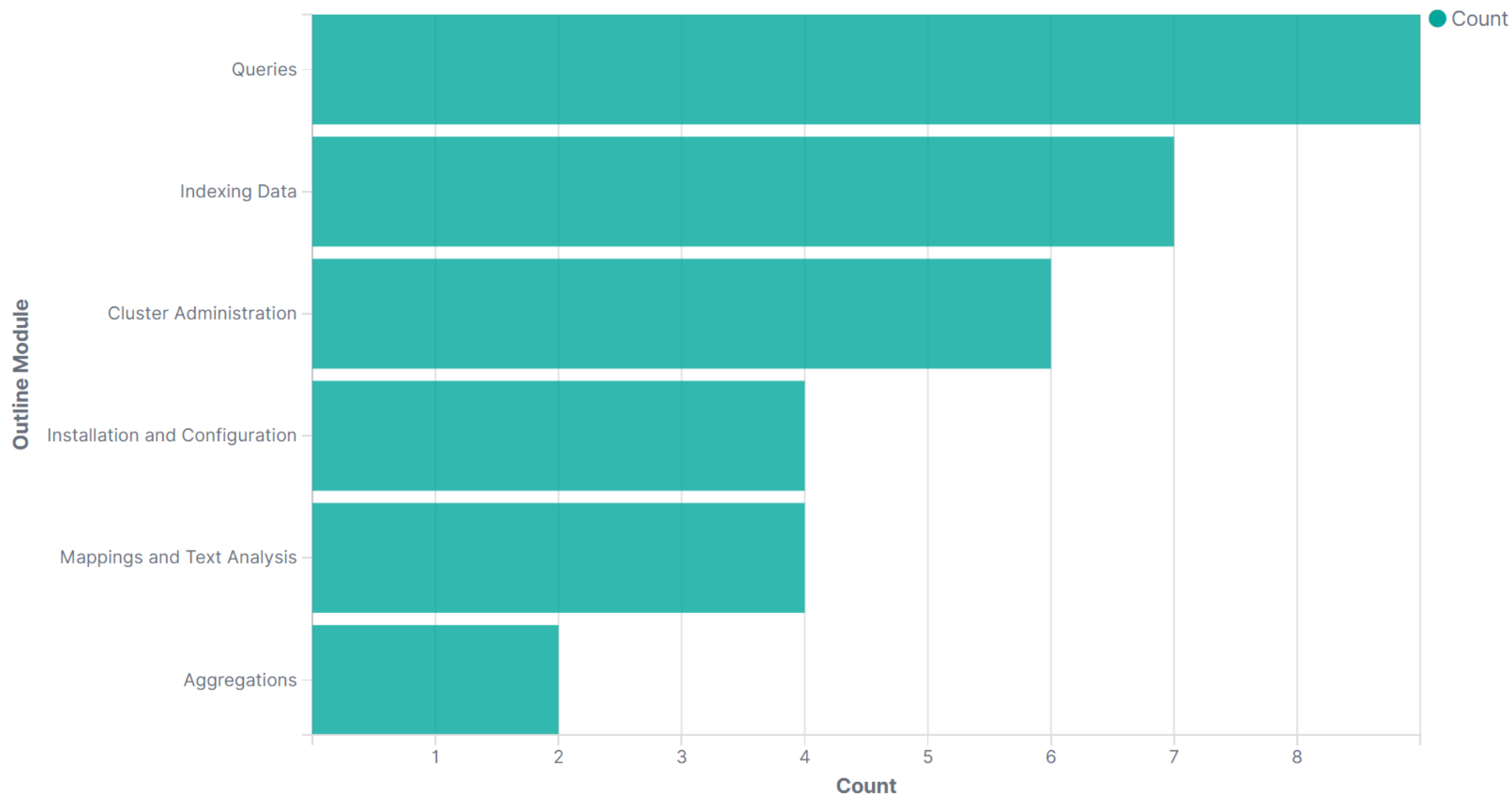
Mappings and Text Analysis

Cluster Administration

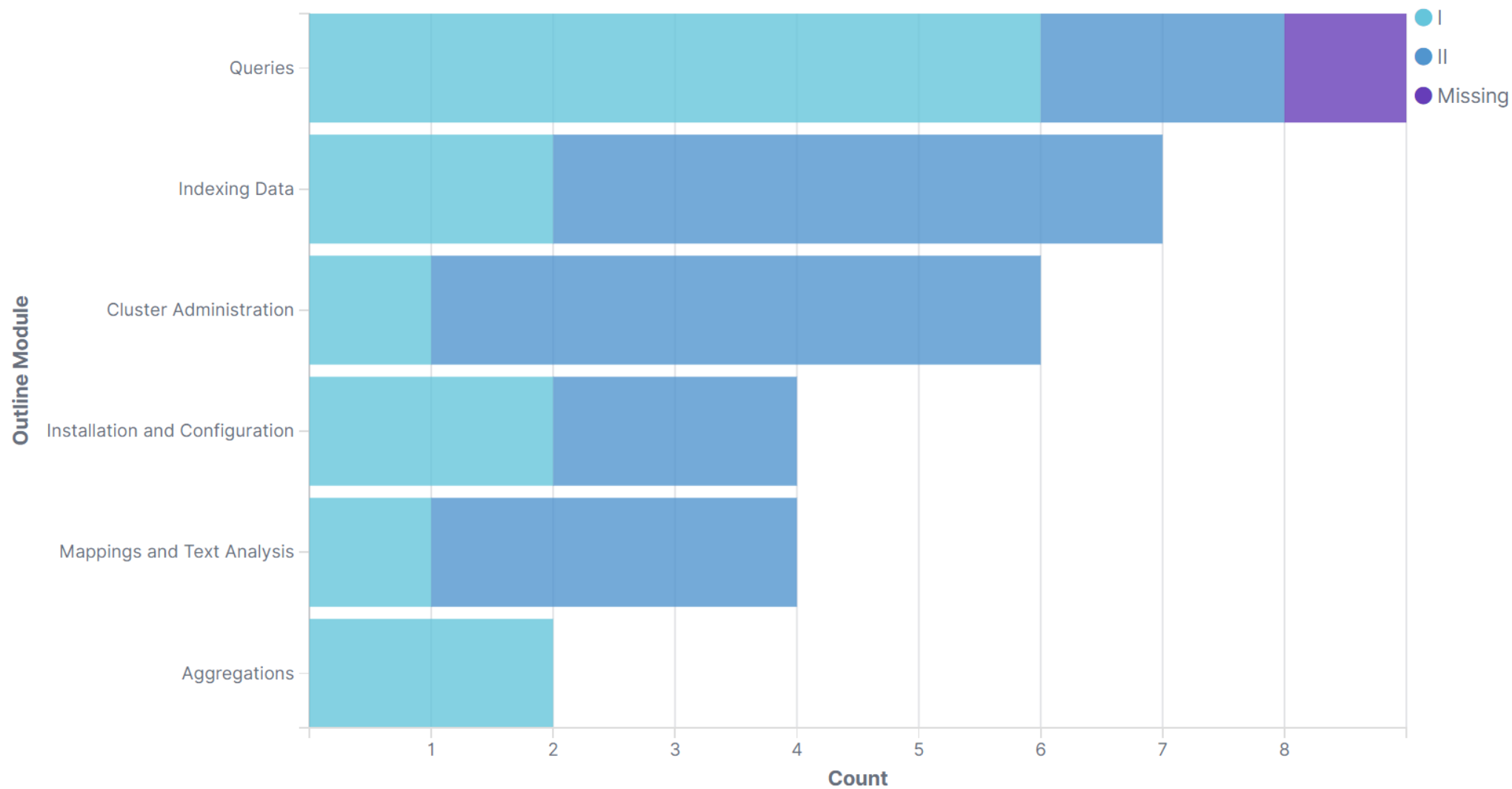
## 2 熟悉官方文档



# 考试大纲



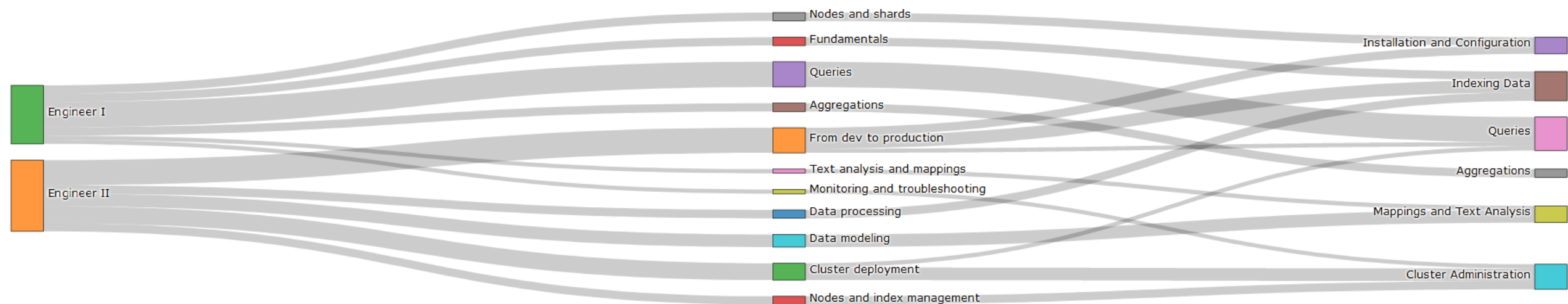
# 培训大纲 - 考试大纲



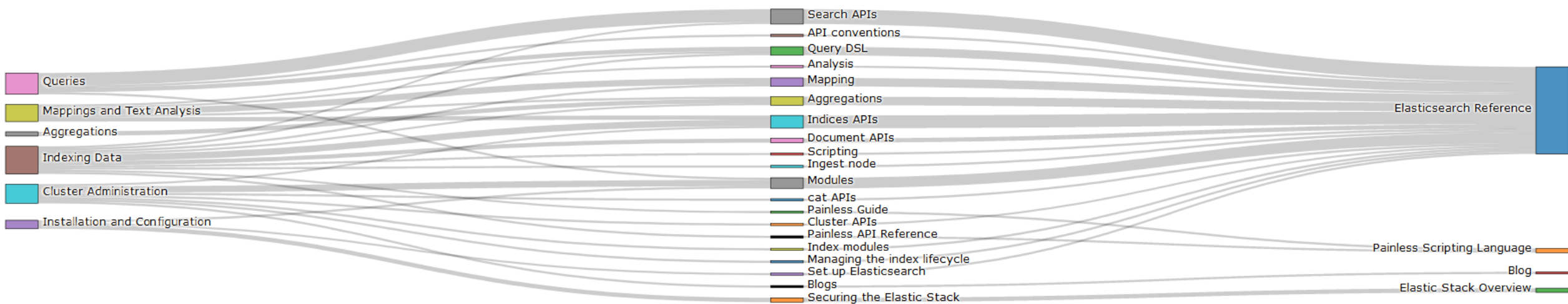
# 培训大纲 - 考试大纲

课程编号	模块名称	大纲模块	大纲内容
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
II	Elasticsearch data processing	Indexing Data	Use the Reindex API and Update By Query API to reindex and/or update documents
II	Elasticsearch from dev to production	Installation and Configuration	Secure a cluster using Elasticsearch Security
II	Elasticsearch from dev to production	Installation and Configuration	Define role-based access control using Elasticsearch Security

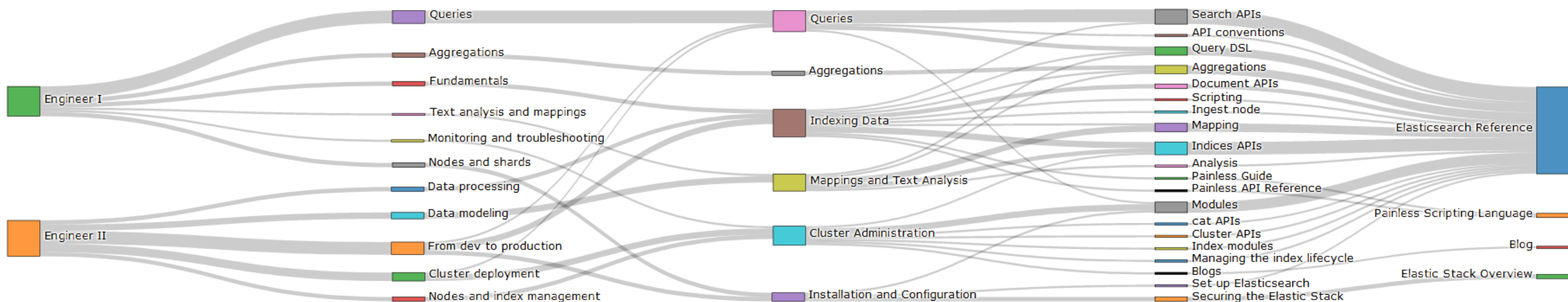
# 培训大纲 - 考试大纲



# 考试大纲 - 官方文档

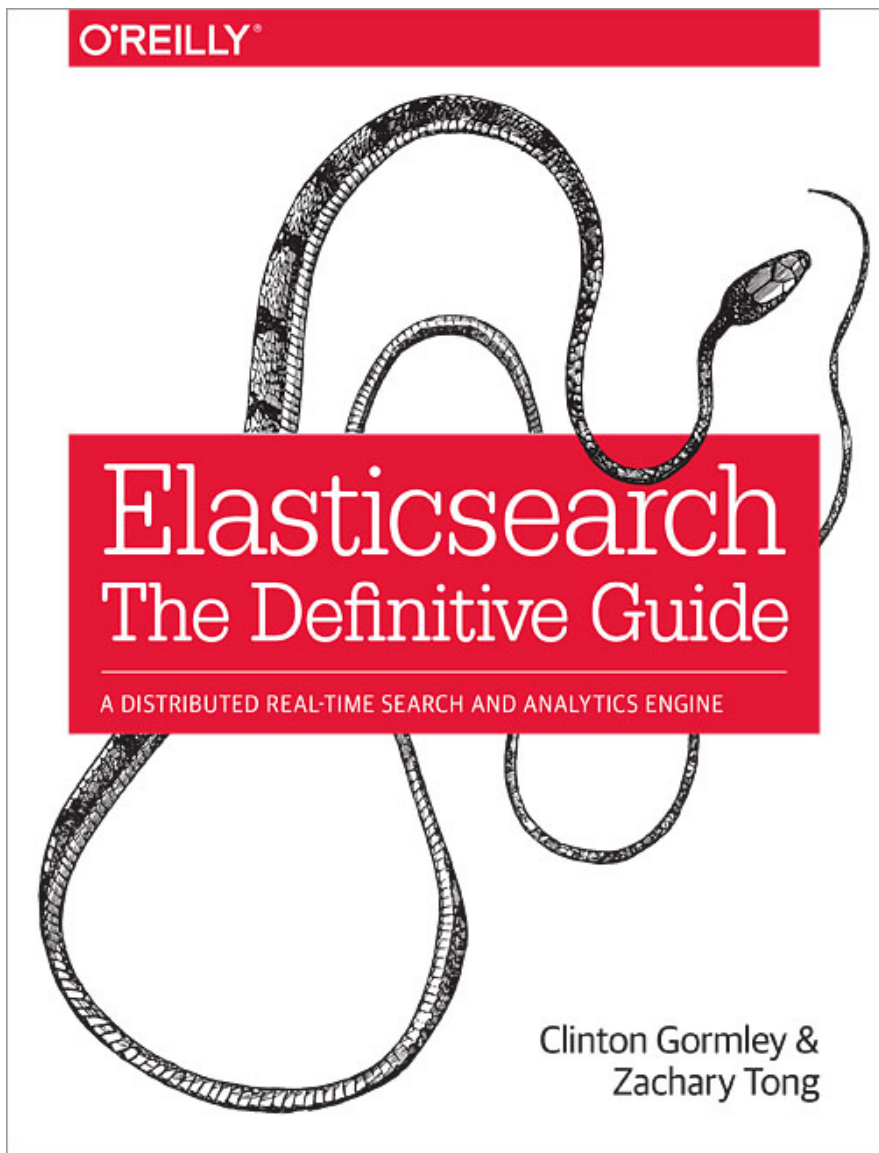


# 培训大纲 - 考试大纲 - 官方文档





# #4 参考资料



对应 Elasticsearch 2.x 版本

以下章节涉及内部原理

Chapter 2 Life Inside a Cluster

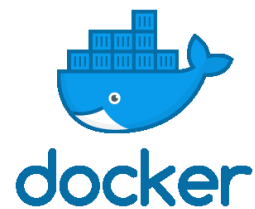
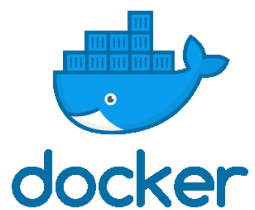
Chapter 4 Distributed Document Store

Chapter 9 Distributed Search Execution

Chapter 11 Inside a Shard

# #5 动手实验

# 实验环境



Docker Compose



单节点

多节点

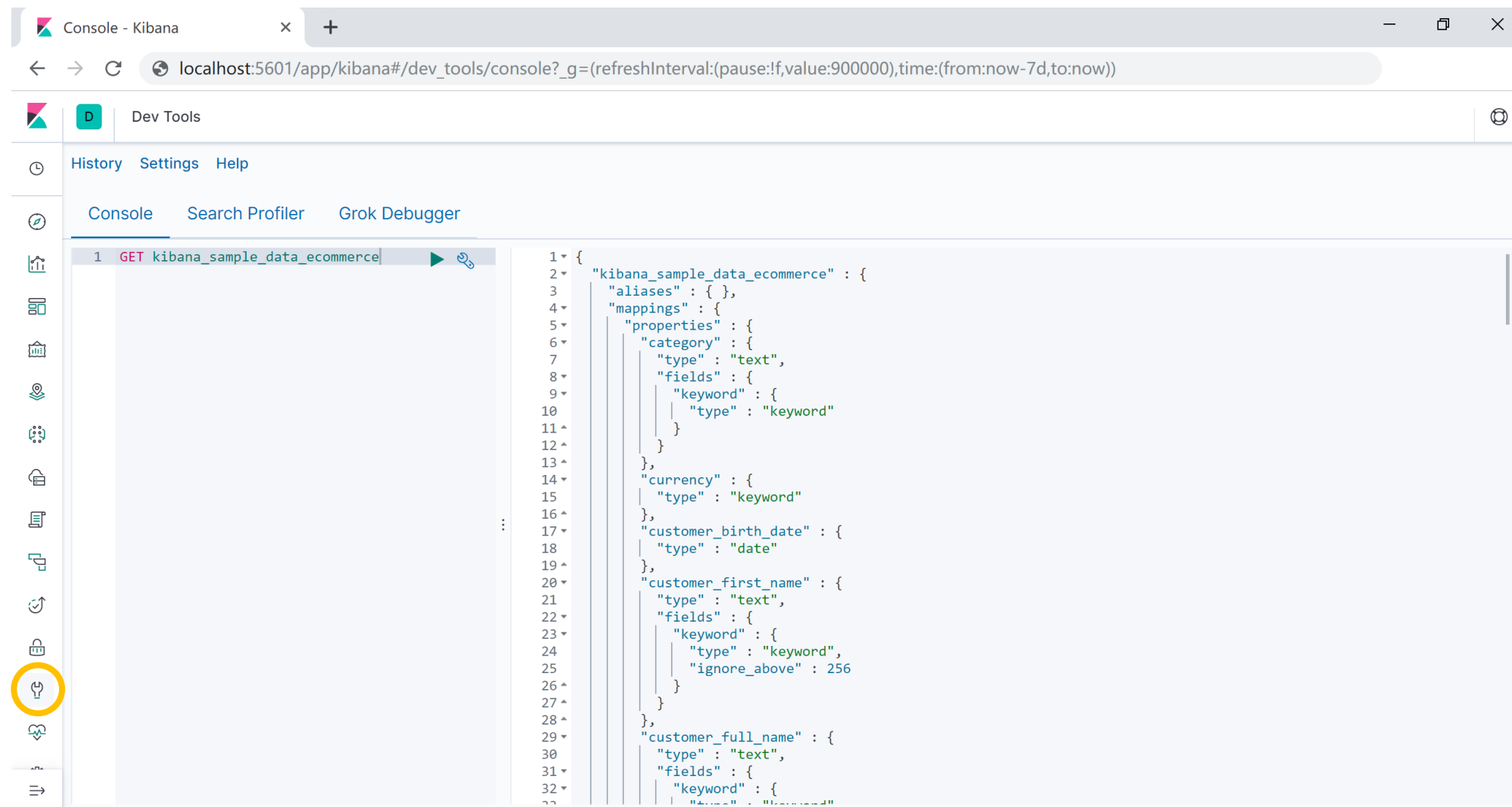
多集群

安全

备份

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# 实验工具



# 实验数据

## Add Data to Kibana

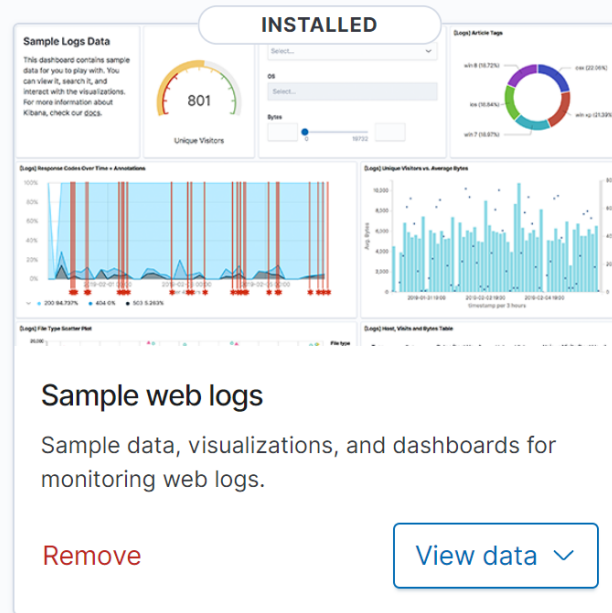
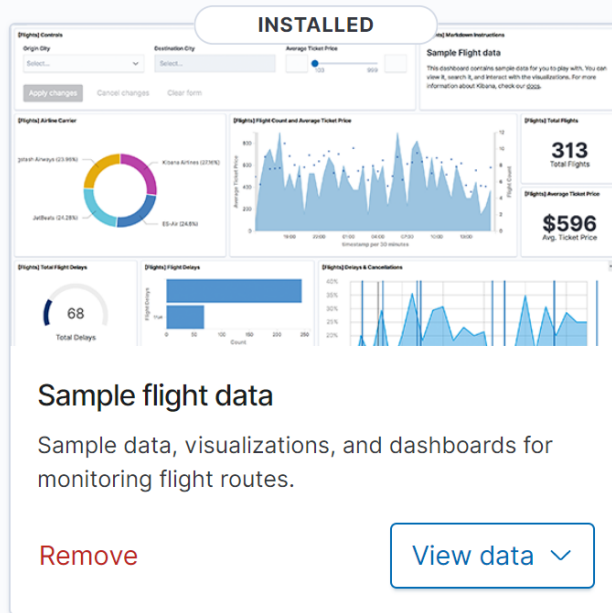
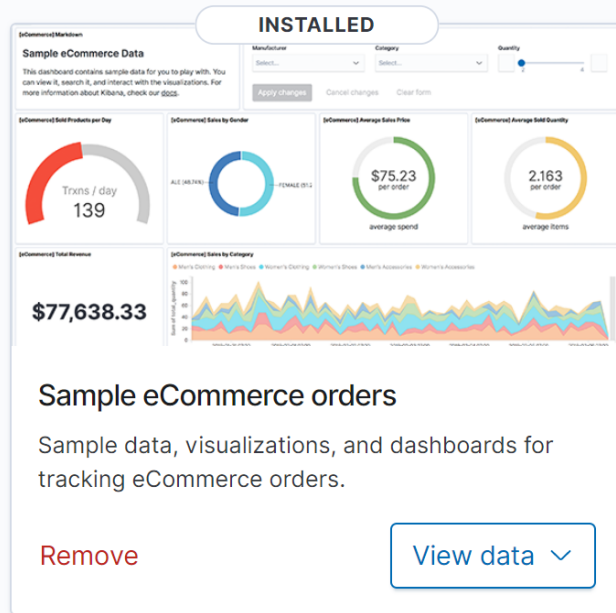
All

## Logging

## Metrics

## Security analytics

## Sample data



health	status	index	uuid	pri	rep	docs.count	docs.deleted	store.size	pri.store.size
green	open	kibana_sample_data_ecommerce	oLYV5ZOvRb2lOfbtSNRAWQ	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_TfmOUO40ryI3mw	1	0	13059	0	6.4mb	6.4mb

# #6 例题

## 来源

### 1 官方视频 (共 6 题)

# Preparing for the Elastic Certified Engineer Exam - Get Elasticsearch Certified

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

## 2 官方培训

## 3 网络及社区

## 4 假想题





# 使用

- 1 确定知识点深度，避免钻牛角尖
- 2 搞懂知识点，确保会做
- 3 限制时间，确保按时做完

# #7 考前准备

# 场地要求

## 1 安静的房间

没有噪音，没有强光，没有外人 …

## 2 清洁的桌面

没有纸、笔、书、显示器 …



# 设备要求



[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"><li>Windows XP, Vista, 7, 8</li><li>Mac OS X and above</li><li>Linux</li><li>Chrome OS</li></ul>		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"><li>Minimum VGA 640 x 480 resolution</li><li>Enabled built in or external microphone</li></ul>		
 Google Chrome Extension	Install PSI Google Chrome Extension		See step 1 at top of page
 Ports	<b>TCP:</b> port 80 and 443		
 Bandwidth	<b>Minimum</b> 500Kbps download and 256Kbps upload <b>Recommended</b> 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"><li>1GB RAM &amp; 2GHz dual core processor</li><li>Minimum 1280 x 800 resolution</li></ul>		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"><li>Room must be quiet, private and well lit. Public spaces such as coffee shops, stores, etc. are not allowed.</li><li>Desk must clear of all notes and electronics.</li><li>Examinee should reside in the center of the camera frame</li><li>No bright lights or windows behind the examinee</li></ul>		Please ensure that you meet the testing environment requirements, listed to the left, before launching your exam at scheduled time.

必须使用 Chrome 浏览器

确保摄像头无遮挡

必须安装考试插件

确保考试时段网络流畅

考试环境要求

# #8 考试注意事项

- 1 可提前 15 分钟进入考试，迟到 15 分钟直接挂科
- 2 提前喝水、吃东西、上厕所
- 3 准备好护照或身份证，考前需要核对身份
- 4 时间较充裕，不要过度紧张，不会的标记后先跳过
- 5 仔细看题，仔细看题、仔细看题
- 6 使用文档搜索，说不定有惊喜
- 7 做完记得保存并提交

# 总结



1 掌握考纲内容

2 熟悉官方文档

3 努力动手实验

4 沉着冷静考试

# 资料汇总

## 官方信息

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

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

## 官方视频

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

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

## 官方培训

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

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

## 参考资料

Elasticsearch - The Definitive Guide

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

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

## 设备兼容性检测

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

## 演讲文档及资料

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

Q&A