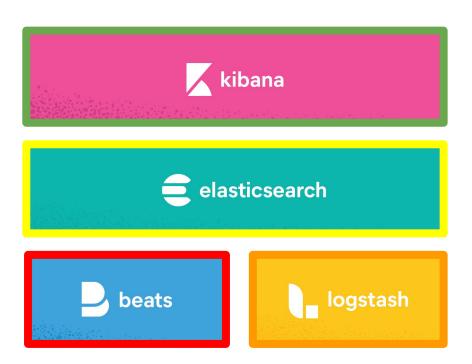


Lisa Jung Developer Advocate @Elastic

The Elastic Stack

Reliably and securely take data from any source, in any format, then search, analyze, and visualize it in real time.



Elasticsearch

Store | Search | Analyze



Beginner's crash course to Elastic Stack Series

- Part 1: Intro to Elasticsearch and Kibana
- Part 2: Understanding the relevance of your search with Elasticsearch and Kibana
- Part 3: Running full text queries and complex queries with Elasticsearch and Kibana



Part 4: Aggregations

Beginner's crash course to Elastic Stack Series

Part 4: Running Aggregations with Elasticsearch and Kibana

Before we do that...

- Step 1: Set up and run Elasticsearch and Kibana
- Step 2: Add E-commerce dataset to Elasticsearch
- Step 3: Set up data within Elasticsearch(mapping & removing irrelevant documents)

One stop shop for all the resources from the Beginner's Crash Course to Elastic Stack

https://ela.st/beginners-table-of-contents

Table of Contents: Beginner's Crash Course to Elastic Stack Series Welcome to the Beginner's Crash Course to the Elastic Stack Series! In life, we are always in search of something. Whether we are in search of the meaning of life or the most delicious tacos in town, we heavily rely on search engines to get the answers. You may already use apps such as Yelp, Uber, or Wikipedia on a daily basis. But did you know that these apps were built with Elasticsearch? Elasticsearch is known as the heart of the Elastic Stack, which consists of Beats, Logstash, Elasticsearch, and Kibana. The Elastic Stack allows us to take data from any source, in any format, then search, analyze, and visualize it in real time. If you are a developer who is looking to make data usable in real time and at scale, the Elastic Stack is a great tool to have on your belt. Who is this series for? This series is open to all **developers** with little to no experience with the Elastic Stack or those who could use a refresher. By the end of the series, you will be able to identify when to use Elasticsearch and Kibana and know how to get started with these products. Table of contents for workshop repos · Part 1: Intro to Elasticsearch and Kibana Part 2: Understanding the relevance of your search with Elasticsearch and Kibana To complete steps 1-3, we will be · Part 3: Running full text gueries and combined gueries with Elasticsearch and Kibana using resources from Parts 2 and 4! · Part 4: Running aggregations with Elasticsearch and Kibana

Beginner's Crash Course to Elastic Stack workshop playlist

YouTube playlist of workshop videos

From the table of contents, click on Part 2.

Table of Contents: Beginner's Crash Course to Elastic Stack Series

Welcome to the Beginner's Crash Course to the Elastic Stack Series!

In life, we are always in search of something. Whether we are in search of the meaning of life or the most delicious tacos in town, we heavily rely on search engines to get the answers.

You may already use apps such as Yelp, Uber, or Wikipedia on a daily basis. But did you know that these apps were built with Elasticsearch?

Elasticsearch is known as the heart of the Elastic Stack, which consists of Beats, Logstash, Elasticsearch, and Kibana. The Elastic Stack allows us to take data from any source, in any format, then search, analyze, and visualize it in real time.

If you are a developer who is looking to make data usable in real time and at scale, the Elastic Stack is a great tool to have on your belt.

Who is this series for?

This series is open to all developers with little to no experience with the Elastic Stack or those who could use a refresher.

By the end of the series, you will be able to identify when to use Elasticsearch and Kibana and know how to get started with these products.

Table of contents for workshop repos

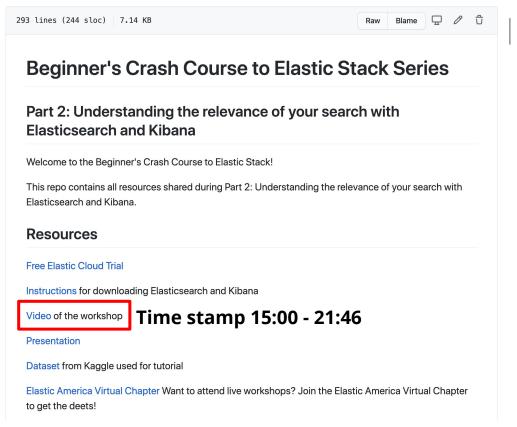
Part 1: Intro to Elasticsearch and Kibana

Part 2: Understanding the relevance of your search with Elasticsearch and Kibana

- Part 3: Running full text gueries and combined gueries with Elasticsearch and Kibana
- · Part 4: Running aggregations with Elasticsearch and Kibana

YouTube playlist of workshop videos

Complete steps 1 and 2 by following the workshop recording.



To get the dataset for today's workshop, click on Part 4.

Table of Contents: Beginner's Crash Course to Elastic Stack Series

Welcome to the Beginner's Crash Course to the Elastic Stack Series!

In life, we are always in search of something. Whether we are in search of the meaning of life or the most delicious tacos in town, we heavily re search engines to get the answers.

You may already use apps such as Yelp, Uber, or Wikipedia on a daily basis. But did you know that these apps were built with Elasticsearch?

Elasticsearch is known as the heart of the Elastic Stack, which consists of Beats, Logstash, Elasticsearch, and Kibana. The Elastic Stack allow take data from any source, in any format, then search, analyze, and visualize it in real time.

If you are a developer who is looking to make data usable in real time and at scale, the Elastic Stack is a great tool to have on your belt.

Who is this series for?

This series is open to all developers with little to no experience with the Elastic Stack or those who could use a refresher.

By the end of the series, you will be able to identify when to use Elasticsearch and Kibana and know how to get started with these products.

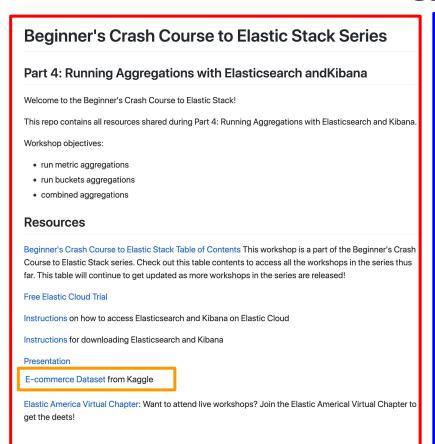
Table of contents for workshop repos

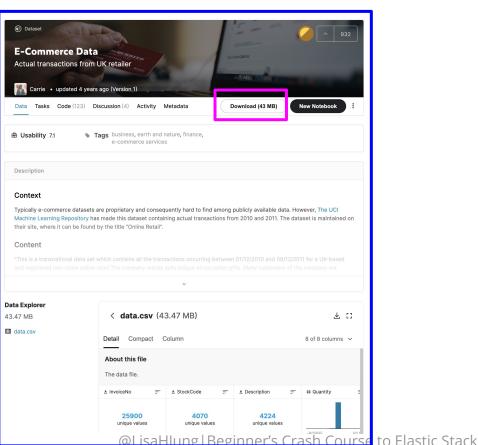
- Part 1: Intro to Elasticsearch and Kibana
- Part 2: Understanding the relevance of your search with Elasticsearch and Kibana
- Part 3: Running full text queries and combined queries with Elasticsearch and Kibana
- Part 4: Running aggregations with Elasticsearch and Kibana

YouTube playlist of workshop videos

Beginner's Crash Course to Elastic Stack workshop playlist

E-commerce dataset from Kaggle





Step 3: Set up data within Elasticsearch (Part 4 repo)

Set up data within Elasticsearch

Often times, the dataset will not be optimal for runningn requests in its original state.

For example, the data type of a field has may not be recognized by Elasticsearch or the dataset may contain a value in a field that do not belong in that field and etc.

Those are exact problems that I ran into while working with this dataset. The following are the requests that I sent to yield the results shared during the workshop.

Copy and paste these requests into the Kibana console(Dev Tools) and run these requests in the order shown below.

STEP 1: Create a new index(ecommerce_data) with the following mapping.

```
PUT ecommerce_data
{
    "mappings": {
        "created_by": "ml-file-data-visualizer"
    },
    "properties": {
        "Country": {
            "type": "keyword"
        },
        "CustomerID": {
            "type": "long"
        },
        "Description": {
            "type": "text"
        },
        "InvoiceDate": {
            "type": "date",
            "format": "M/d/yyyy H:m"
        }.
```

Recap

- Part 2 Repo
 - Watch the video recording (time stamp 15:00 21:46) to complete
 - Step 1: Set up and run Elasticsearch and Kibana
 - Step 2: Add E-commerce dataset (from Part 4 repo) to Elasticsearch
- Part 4 Repo
 - Run the requests under "Set up data within Elasticsearch" section (using the Kibana console AKA dev tools) to complete
 - Step 3: Set up data within Elasticsearch

Beginner's crash course to Elastic Stack Series

- Part 4: Running Aggregations with Elasticsearch and Kibana
 - Metric aggregations
 - Bucket aggregations
 - Combined aggregations

Questions?



Join us for Part 5 on Wednesday, June 2nd!

- Part 5: Understanding Mapping with Elasticsearch and Kibana
 - RSVP Here: https://ela.st/beginners-part-5

Lisa Jung

Developer Advocate @Elastic

Discussion forum: https://discuss.elastic.co/

Blog: https://dev.to/lisahjung

Twitter: @LisaHJung