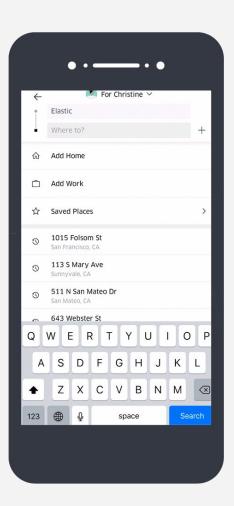


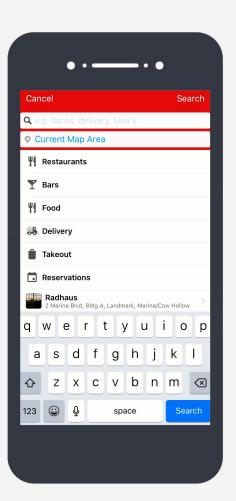
## **Beginner's Crash Course to the Elastic Stack**

Part 1.1: Intro to Elasticsearch & Kibana

Lisa Jung
Developer Advocate @Elastic



# Searching for Rides



# Searching for Restaurants

**Uber** 

tinder



**GitHub** 







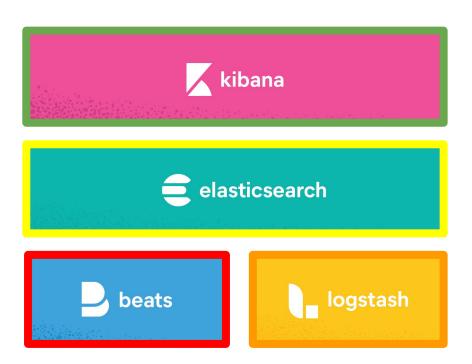




## Searching for **Rides**

#### The Elastic Stack

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

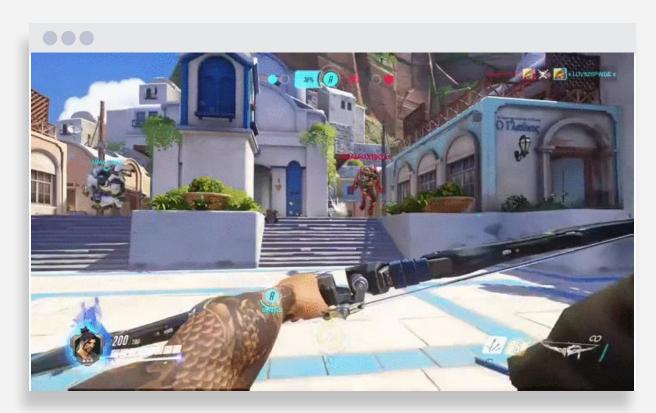


#### **Use Cases**

- Logging
- Metrics
- Security Analytics
- Business Analytics



## **Use Case: Logging**







#### **Use Case: Metrics**





## **Use Case: Security Analytics**





## **Use Case: Business Analytics**

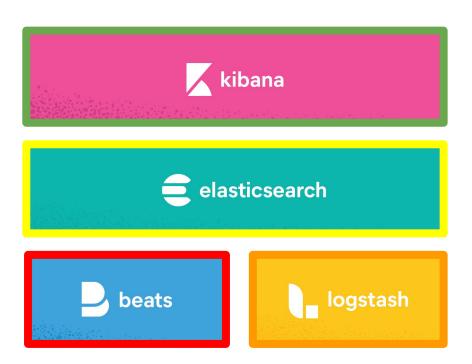






#### The Elastic Stack

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









## **Beginner's Crash Course to Elastic Stack**

Part 1.1: Intro to Elasticsearch and Kibana





#### By the end of this workshop, you will be able to:

- understand a use case of Elasticsearch and Kibana
- understand the basic architecture of Elasticsearch
- Perform CRUD(Create, Read, Update, Delete) operations with Elasticsearch and Kibana

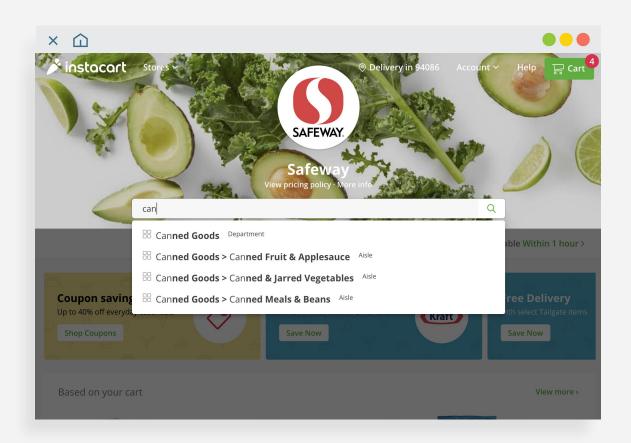


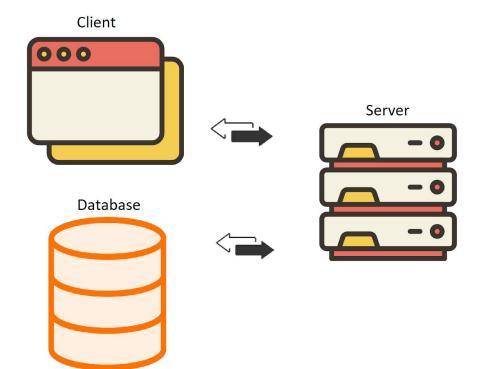
#### **Elasticsearch**

Store | Search | Analyze



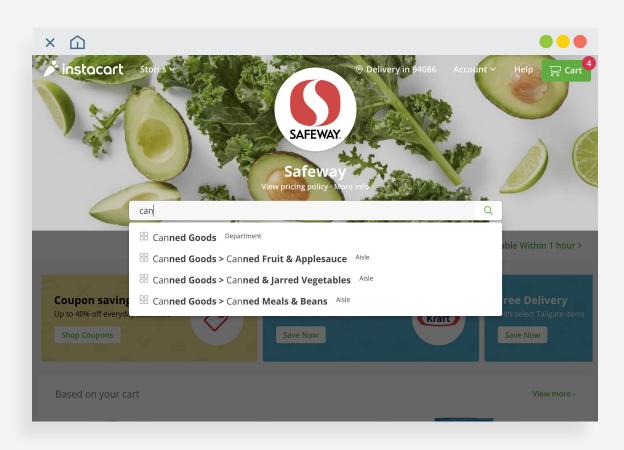




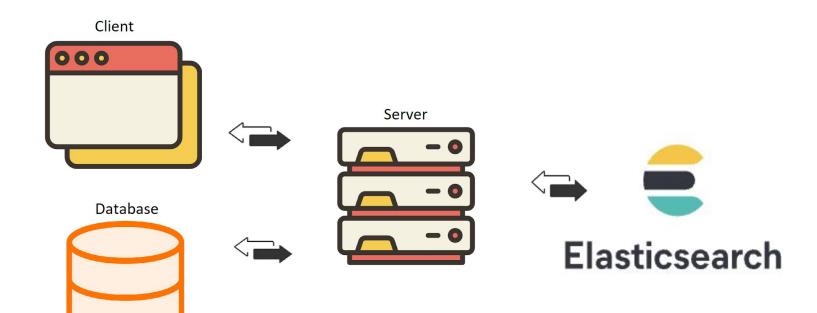


#### **Great Search Experience = Get fast and relevant results, no matter the scale.**



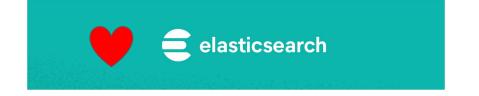


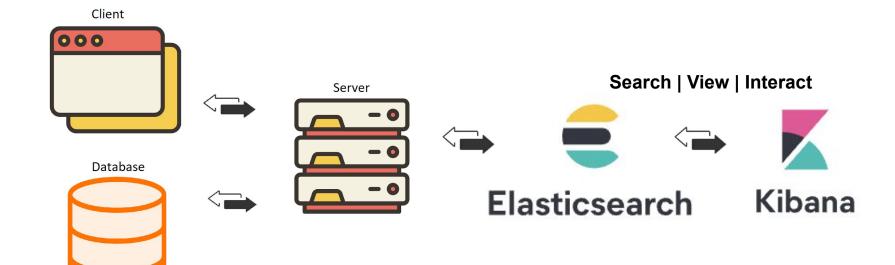


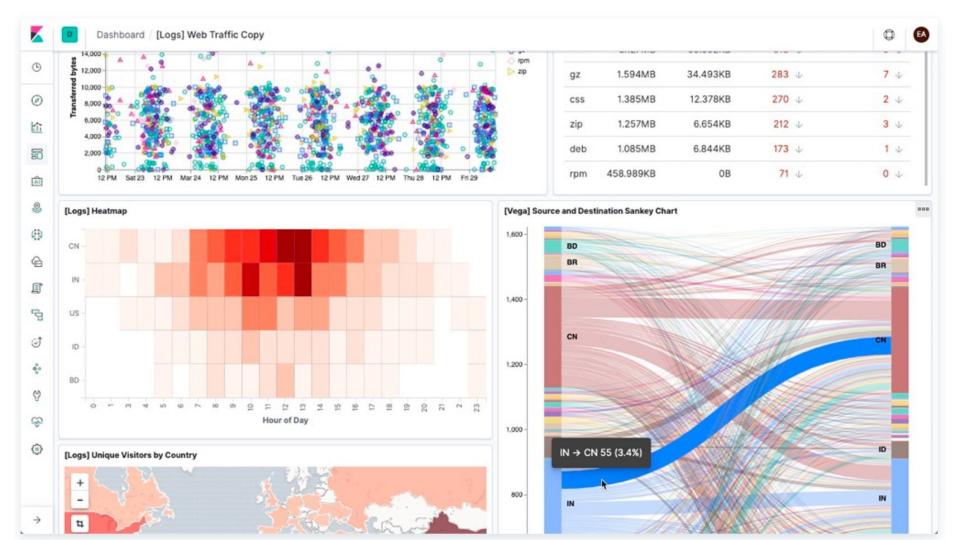


#### **Elasticsearch**

Store | Search | Analyze







#### By the end of this workshop, you will be able to:

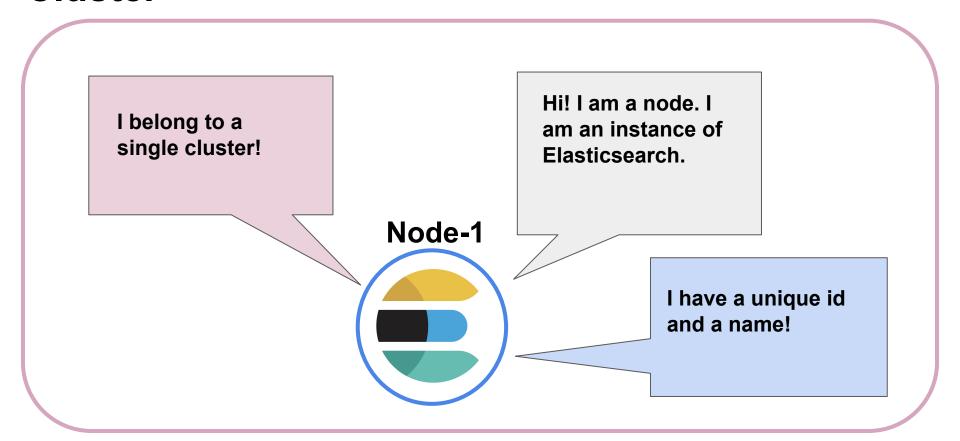
- understand a use case of Elasticsearch and Kibana
- understand the basic architecture of Elasticsearch
- Run CRUD (Create, Read, Update, Delete) Operations using Elasticsearch and Kibana

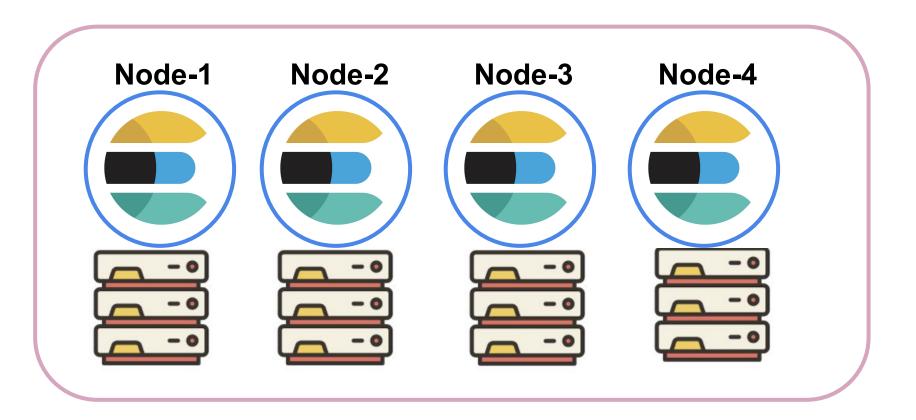


#### **Elasticsearch**

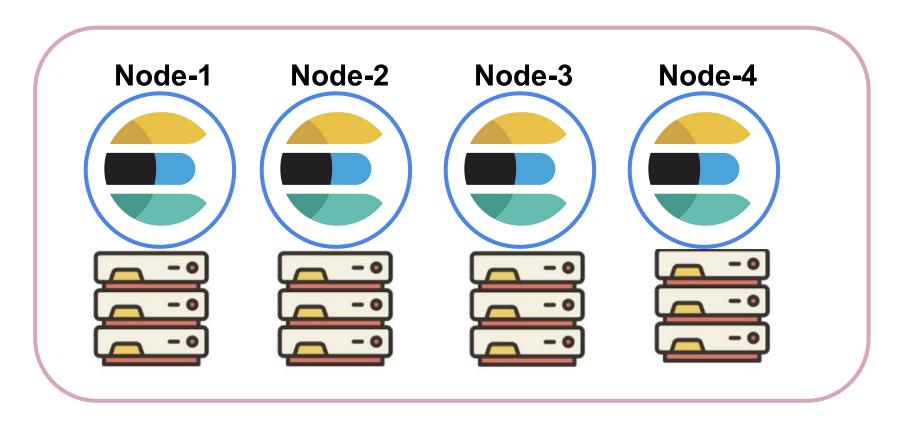
Store | Search | Analyze











#### Data is stored as documents!

```
{
name: "Clementines(3lb bag)",
category: "Fruits",
brand: "Cuties",
price: "$4.29",
}
```

I am a document, a JSON object that is stored in Elasticsearch under a unique ID!

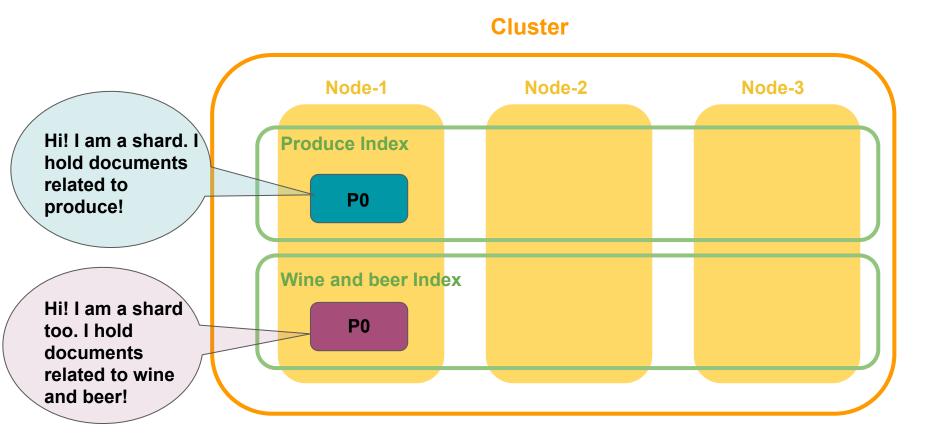


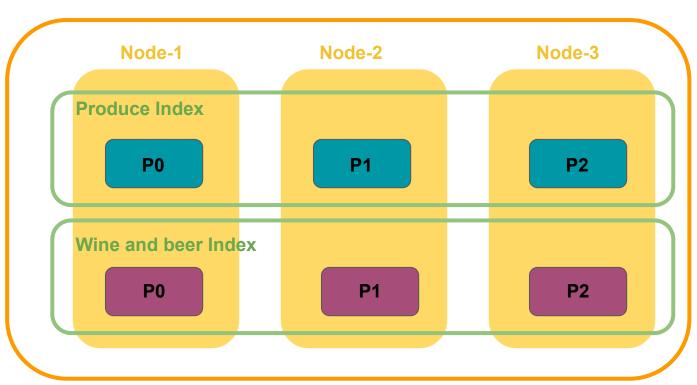
#### **Document grouped into an index!**

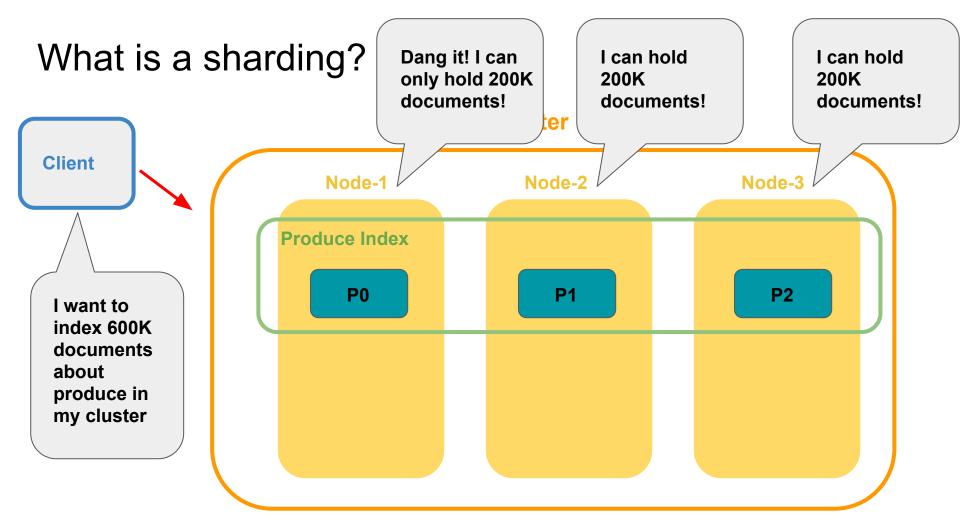
## **Produce Index** name: "Baby Carrots(1lb bag)", category: "Vegetables", brand: "365", price: "\$0.99", name: "Clementines(3lb bag)", category: "Fruits", brand: "Cuties", price: "\$4.29",

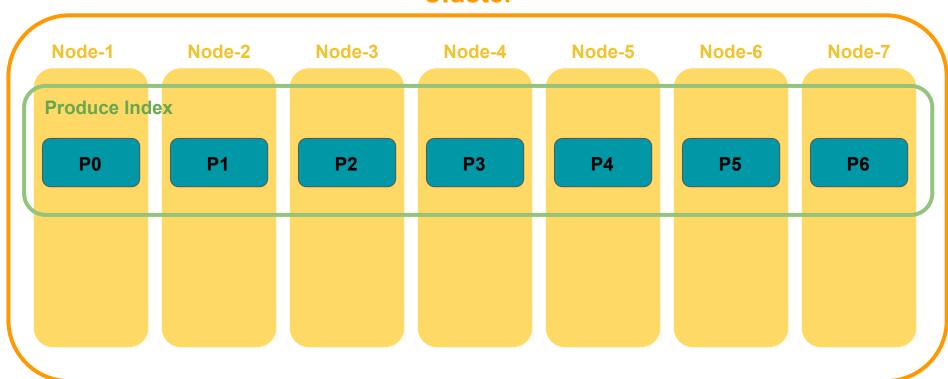
#### Wine & Beer Index name: "Unanime Malbec(750ml)", brand: "Mascota Vineyards", country/state: "Argentina", region: "Mendoza" wine\_type: "Red Wine", ABV: "14%", price: "\$22.99", name: "Hazy Little Thing IPA(750ml)", country: "US", state: "California", beer\_type: "Ale", beer\_style: "India Pale Ale" ABV: "6.7%", price: "\$14.99",

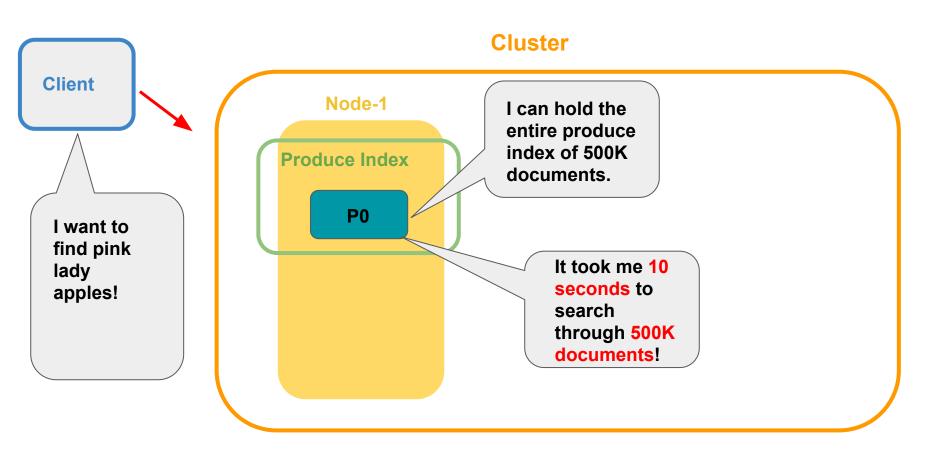








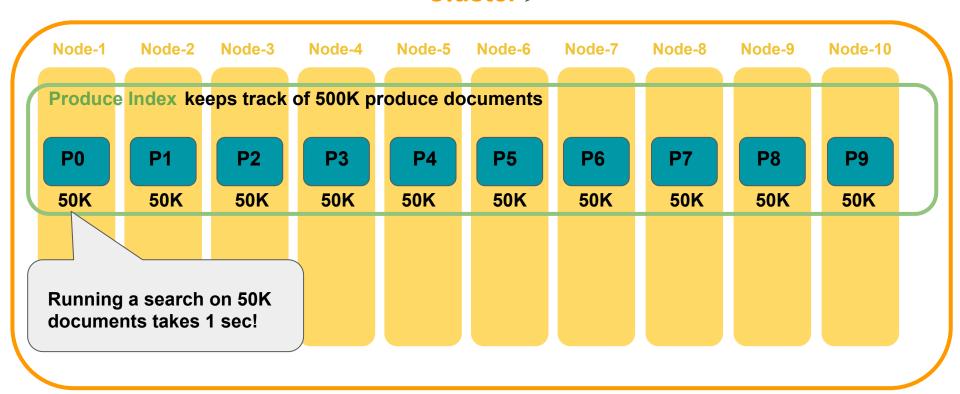


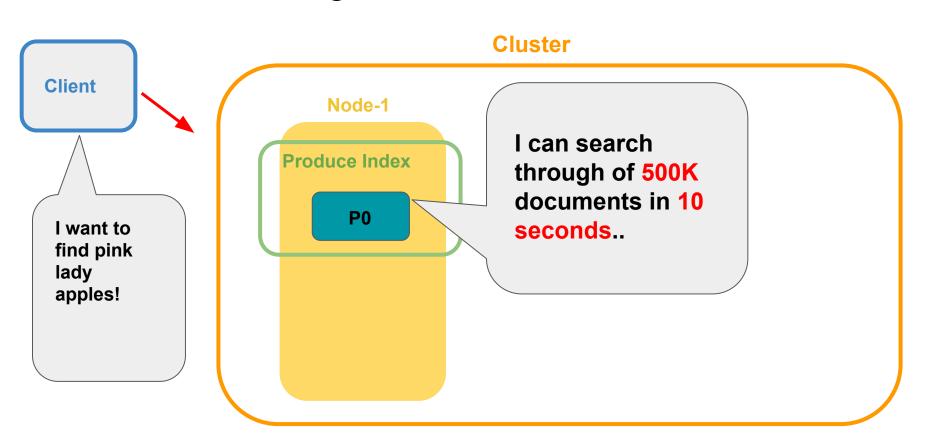


## Sharding speeds up your search!

We can search through 500K documents in 1 second!

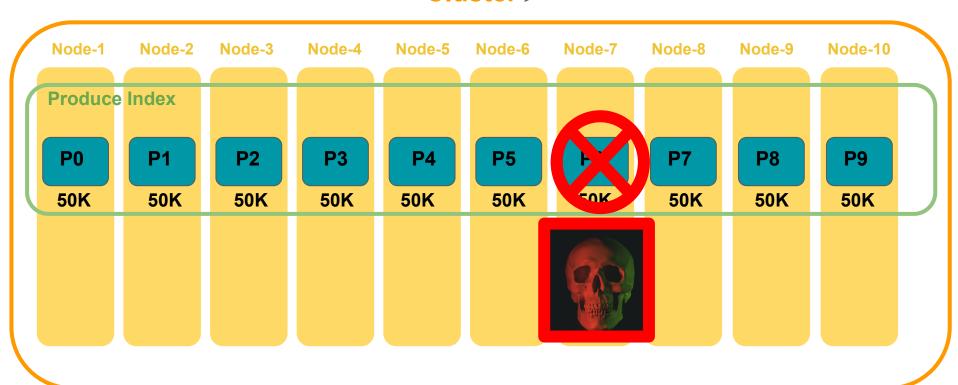
#### Cluster >





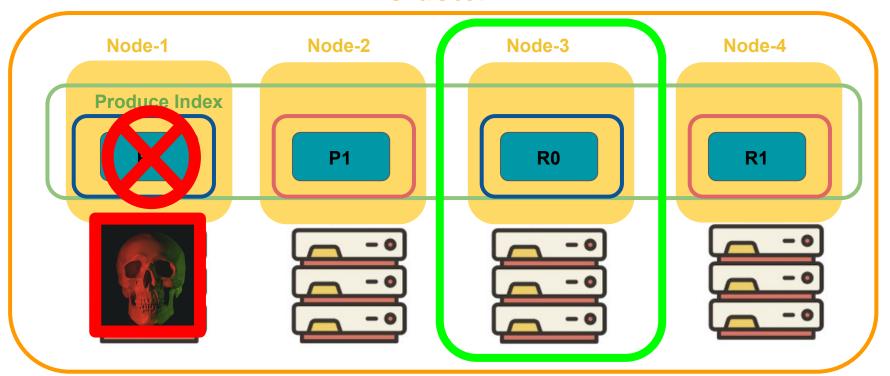
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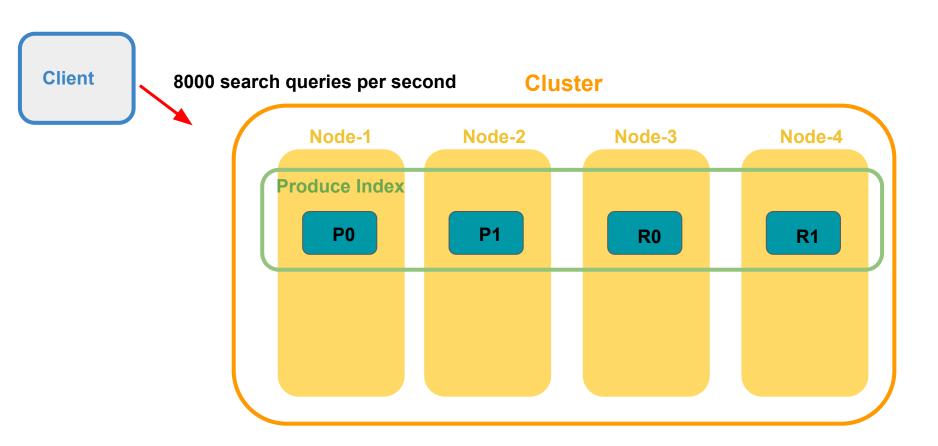




## What are replica shards?



#### Replica shards can improve the performance of your search



# Hands-on Lab: Performing CRUD Operations with Elasticsearch and Kibana



## **Questions?**



## Lisa Jung

**Developer Advocate @Elastic** 

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