

# Where's my stuff?

Modernizing your application with Search

Shaunak Kashyap @shaunak

### **Agenda**

- 1 Introduction to Elasticsearch
  - 2 Integrating Elasticsearch with your application
- 3 Elasticsearch under the hood

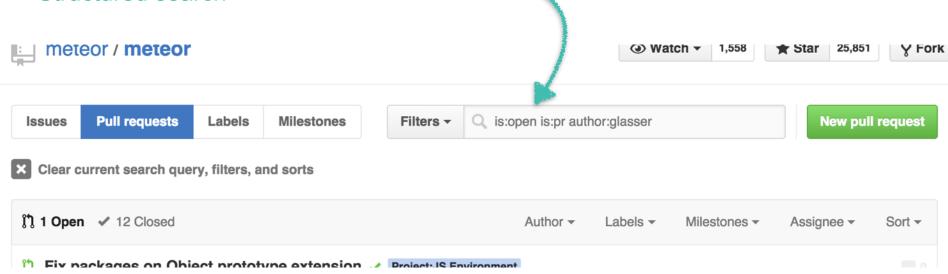


Full text search





Structured search





Faceted navigation Stops Round-trip | Segment Sort by: Price Recommended Duration More ▼ ✓ nonstop \$117 ✓ 1 stop ¥\$163 ads asaptickets.com \$397: U.S. to Amsterdam ✓ 2+ stops \$192 (888) 420-1621 Save 30-50% Off Major Airlines. Call for a Free Quote Now and Save! 24/7 Live Service · BBB A+ Rating · High Client Trustscore 9+ Brands: Iceland Air, Turkish, Ukraine Airlines **Times** Take-off Prague (PRG) Fri 1:00a - 9:30p <del>\$147</del> easyJet \$117 easyJet **12:55p** PRG 2:30p AMS 1h 35m nonstop easyJet **10:55a** AMS **12:25p** PRG 1h 30m Take-off Amsterdam (AMS) nonstop Save up to 21% Sat 12:00a - Sun 12:00a View Deal Show details Economy Show landing times ▼ <del>\$155</del> easyJet \$125 easyJet 8:45p PRG **10:25p** AMS 1h 40m nonstop **Airports** Show all easyJet **10:55a** AMS 12:25p PRG 1h 30m Save up to 20% nonstop Depart/Return same

Show details

View Deal ▼



Economy

### **Analytics**





#### **Features**

- Document-oriented search and analytics engine
  - JSON-based, built on top of Apache Lucene
- Schema Free
  - Yet enables control of it when needed
- Distributed
  - Scales horizontally, highly available
- HTTP API-centric
  - Most functionality is exposed through an HTTP API



### Concepts

Document

- Unit of your data fed into or retrieved from Elasticsearch
- Specified in JSON format

Index

Collection of similar documents

Type

 Category of document within an index

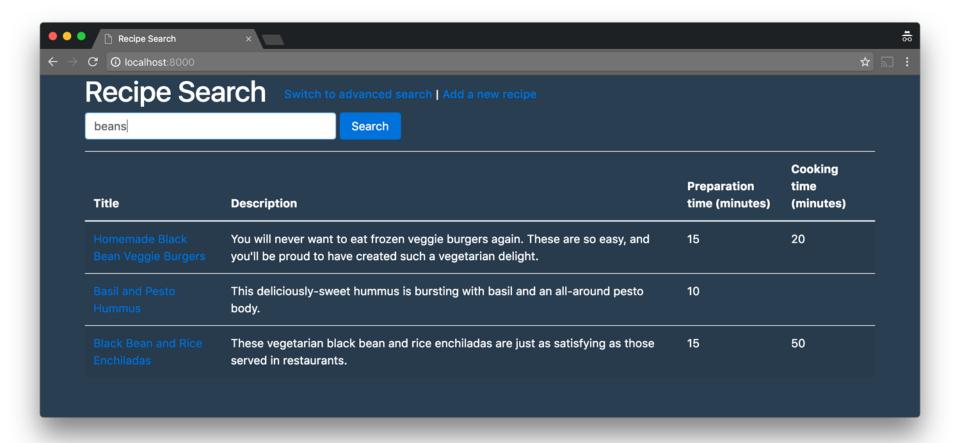


### **Agenda**

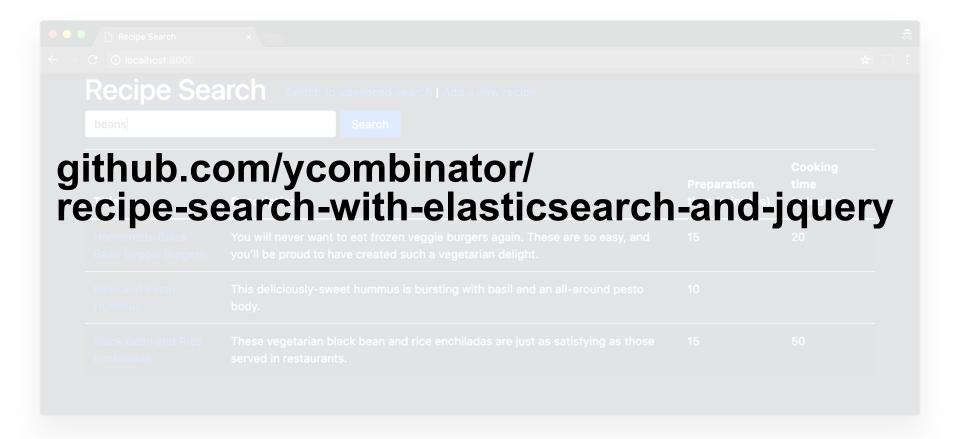
- 1 Introduction to Elasticsearch
- 2 Integrating Elasticsearch with your application
- 3 Elasticsearch under the hood



#### Live demo



#### Live demo



### **Agenda**

- 1 Introduction to Elasticsearch
- 2 Integrating Elasticsearch with your application
- 3 Elasticsearch under the hood



### Concepts

Shard

 A part of an index, consisting of a subset of documents in that index

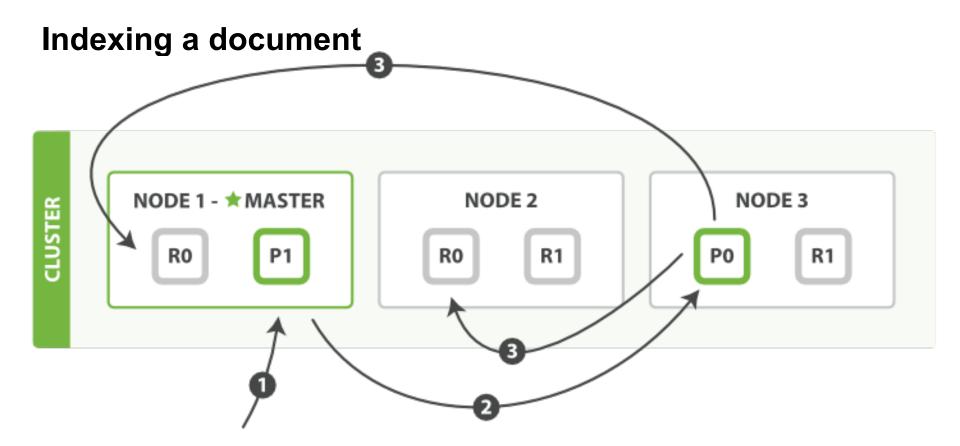


 A running Elasticsearch process



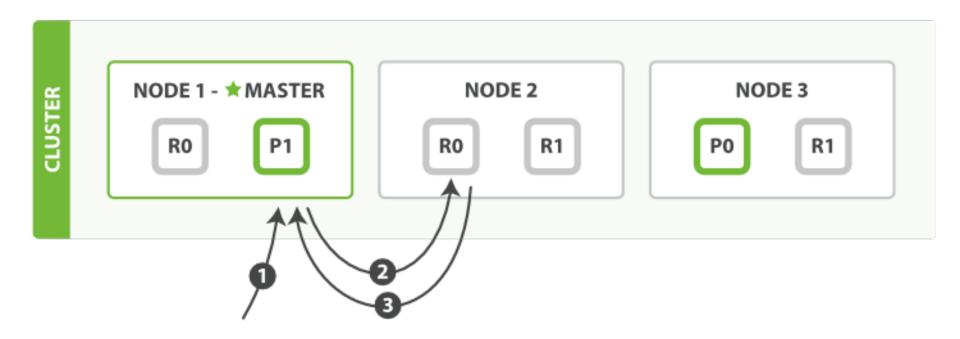
 A collection of nodes that can communicate with each other and share the same cluster.name



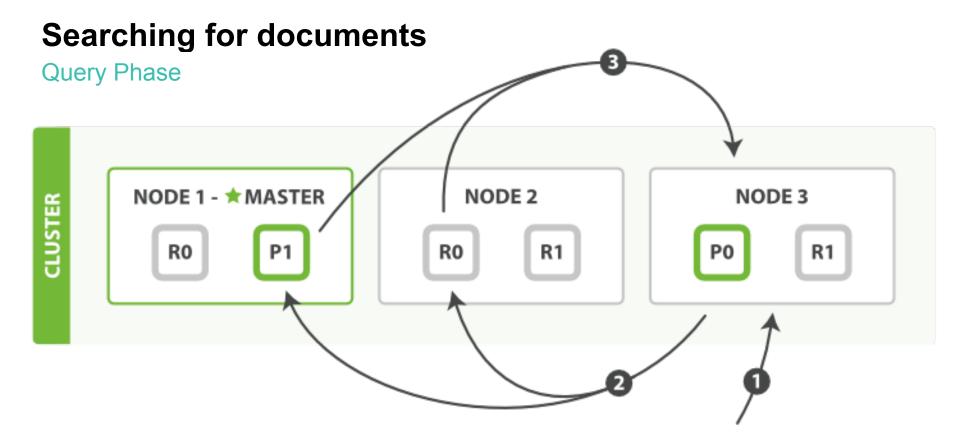




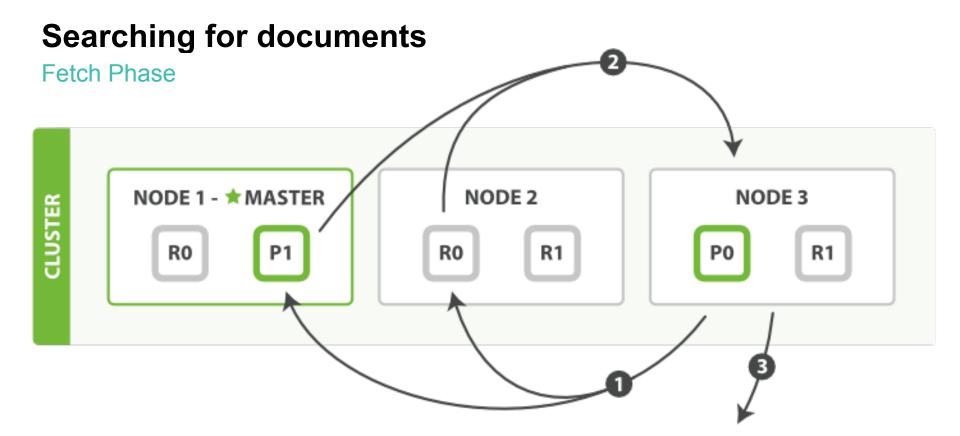
### Retrieving a document













### Summary

- 1 Introduction to Elasticsearch
- 2 Integrating Elasticsearch with your application
- 3 Elasticsearch under the hood





## **Questions?**

@shaunak

