

ELASTICSEARCH COURSE CONTENT

Introduction

- ✚ What is Elasticsearch?
- ✚ Terminology in Elasticsearch (Elasticsearch cluster, shards, and replicas)
- ✚ Difference between Search Engine and Database
- ✚ Installation of Elasticsearch.
- ✚ The architecture of Elasticsearch

Elasticsearch CRUD API

- ✚ Anatomy of a document
- ✚ Create a document in Elasticsearch
- ✚ Getting a document from Elasticsearch
- ✚ Check if a document Exists
- ✚ Deleting documents in Elasticsearch

Advanced CRUD Operation API

- ✚ Handling concurrency in Elasticsearch
- ✚ Update documents in Elasticsearch
- ✚ Bulk Request
- ✚ Bulk Indexing
- ✚ Bulk Retrieval
- ✚ Strategy followed while using Bulk Indexing

Elasticsearch Mapping

- ✚ In-depth analysis of mappings
- ✚ What happens during Indexing?
- ✚ Discussion of transaction logs and Lucene indexing
- ✚ Understanding configuration options, Mappings
- ✚ Dynamic Mapping in Elasticsearch

Searching in Elasticsearch

- ✚ Understanding search Query DSL
- ✚ Aggregations
- ✚ Highlighting

Advanced Searching in Elasticsearch

- ✚ Sorting and Relevance
- ✚ Sorting on Exact Value Fields
- ✚ Sorting on Full-text Fields
- ✚ Relevance in Documents

Nodes in Elasticsearch

- ✚ Master Node
- ✚ Data Node
- ✚ Ingest Node
- ✚ Tribe Node

Exploring ELK Stack

- ✚ Logstash
- ✚ Kibana

Design Pattern in Elasticsearch

- ✚ Index Setting
- ✚ Shard Setting
- ✚ Shard Allocation
- ✚ Routing
- ✚ Replication

TODO List in Production

- ✚ Planning and Configuration Strategy
- ✚ The best setting to have less downtime
- ✚ Security in the ES cluster
- ✚ Improving Indexing and Search Experience

Managing Production System

 Cluster Management

 Node Mangement

Practice Test & Interview Questions

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