Executing CRUD Operations Using the Elasticsearch APIs

Overview

Operations on indices and indexed documents

- create

- read/retrieve

- update

- delete

Bulk operations on indexed documents

Bulk creation of indices from JSON data

RESTful APIs with Elasticsearch

RESTful APIs

Elasticsearch uses REST APIs to administer the cluster, perform CRUD operations, search etc.

RESTful APIs

Data is sent to and received from the server in JSON form

cURL for Requests to REST APIs

cURL is a tool which allows you to transfer data from and to a server using a variety of protocols

cURL for Requests to REST APIs

HTTP, FTP, GOPHER, IMAP, LDAP etc.

Demo

Use cURL to make requests and receive responses from servers

Use cURL to list all indices in the cluster

Demo

Create indices in Elasticsearch

Understand the differences between POST and PUT requests

Demo

Index individual documents in Elasticsearch

Demo

Retrieve documents from Elasticsearch by id:

- whole documents

- partial documents

Demo

Update documents by id:

- whole documents

- partial documents

Demo

Delete documents in an index

Delete the entire index

Demo

Bulk operations on documents:

- retrieve multiple documents

- index multiple documents

- multiple operations in one command

Demo

Bulk index documents from a JSON file

Summary

Performed CRUD operations on indexes holding documents

Implemented bulk operations on indexed documents

Created indices in bulk from JSON data in a file