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what is document in elasticsearch?

In Elasticsearch, a document is the basic unit of data that can be indexed and searched. It is a JSON object that can contain any number of fields, each with its own value. The fields in a document are not defined in advance and can be of any data type, such as strings, numbers, or dates.

When you index a document in Elasticsearch, the fields in the document are automatically analyzed, and the indexed data is stored in inverted indices, which are used to efficiently search for documents that match a given query.

Documents in Elasticsearch can be organized into types, which are similar to tables in a relational database. Each type belongs to an index, which is a collection of documents with a similar structure and purpose. For example, you might have an index called "customers" that contains a type called "user" with documents representing individual user profiles.

You can use the Elasticsearch API to index, update, delete and query documents in Elasticsearch.

Examples of operations on documents include:
-Indexing a new document
-Retrieving a document by ID
-Searching for documents that match a given query
-Updating a document
-Deleting a document

It's important to note Elasticsearch is a distributed system, so each indexed document is automatically replicated across multiple shards, allowing the data to be distributed and parallelized across many machines.

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