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Bulk API in Elasticsearch

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What is bulk api in elasticsearch?



Bulk API in Elasticsearch is a feature that allows you to index, update, or delete multiple documents in a single request. This can be useful when you need to perform a large number of operations at once, as it can be more efficient than sending multiple individual requests. The Bulk API allows you to send multiple operations in a single JSON payload, which can be sent over HTTP or HTTPS. It also provides a way to perform actions in batches, which can be useful for reducing the number of network round trips and improving performance.



What is bulk api in elasticsearch with example?



The Bulk API in Elasticsearch allows you to perform multiple index, update, or delete operations in a single request. The request is sent as a JSON payload, with each operation represented as a separate JSON object. The basic structure of a bulk request is as follows:



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```
{ "index" : { "_index" : "test", "_type" : "type1", "_id" : "1" } }
{ "field1" : "value1" }
{ "delete" : { "_index" : "test", "_type" : "type1", "_id" : "2" } }
{ "create" : { "_index" : "test", "_type" : "type1", "_id" : "3" } }
{ "field1" : "value3" }
```

Each line in the above example represents a separate JSON object. The first line is an "index" operation, which adds a new document to the "test" index, with type "type1" and ID "1". The second line is the actual JSON document that is being indexed. The third line is a "delete" operation, which removes the document with ID "2" from the "test" index. The fourth line is a "create" operation, which creates a new document with ID "3". The last line is the actual JSON document that is being created.

The Bulk API also supports other options such as updating the document by providing the script, specifying the routing and many more. It is a powerful tool that allows you to perform multiple operations in a single request, which can be useful for improving performance and reducing the number of network round trips.

example of update script:

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```
{ "update" : { "_index" : "test", "_type" : "type1", "_id" : "1" } }
{ "script" : "ctx._source.field += value", "params" : { "value" : 4 } }
```

You can also use the _bulk endpoint to execute the bulk request, which is a more efficient way to perform multiple operations in a single request.

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```
curl -XPOST 'http://localhost:9200/_bulk' --data-binary @bulk.json
```

Where the bulk.json file is the file containing the bulk request in the above format.