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Elasticsearch Client Ser  


"Elasticsearch Server Explain"


"Elasticsearch API Overview"


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what is client-server communication in elasticsearch?



In Elasticsearch, client-server communication refers to the exchange of information between an Elasticsearch client and an Elasticsearch server. The client is responsible for sending requests to the server, such as search queries or indexing requests, and the server is responsible for processing those requests and returning the appropriate response to the client. The communication between the client and server is typically done using the Elasticsearch REST API, which allows clients to send HTTP requests to the server using the JSON data format.



what is client in elasticsearch?



In Elasticsearch, a client refers to an application or system that sends requests to an Elasticsearch server in order to interact with the data stored in the server's indices. Clients can be written in any programming language and use the Elasticsearch REST API to send requests to the server.

The Elasticsearch official client library are available in various languages like Java, Python, JavaScript etc, which allows developers to interact with the Elasticsearch server in an easy way, without having to manually construct and send HTTP requests.

It is also possible to interact with Elasticsearch using command line tools or via a web-based user interface (such as Kibana) which are all considered as clients for Elasticsearch.



how kibana is developed?



Kibana is an open-source visualization and analytics platform that is built on top of Elasticsearch. It is primarily developed using JavaScript, and it utilizes a number of JavaScript libraries and frameworks such as AngularJS and Node.js.




The frontend of Kibana is built using web technologies such as HTML, CSS, and JavaScript, and it is designed to be highly customizable and extensible, allowing users to create their own visualizations and dashboards.

The backend of Kibana is built using Node.js and Express.js, which is a framework for building web applications on top of Node.js. The backend provides a RESTful API for interacting with Elasticsearch, which the frontend can use to retrieve data and perform operations such as searching and filtering.

Additionally, Kibana uses several other libraries and technologies, such as Webpack for module bundling, TypeScript for language enhancements and Jest for testing. Kibana follows the agile development model, and releases updates and new features frequently, the development community and elastic company actively maintains and develops new features.

As an open-source project, anyone can contribute to Kibana's development by submitting bug reports, feature requests, or even pull requests with code changes.

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