

• KIBANA



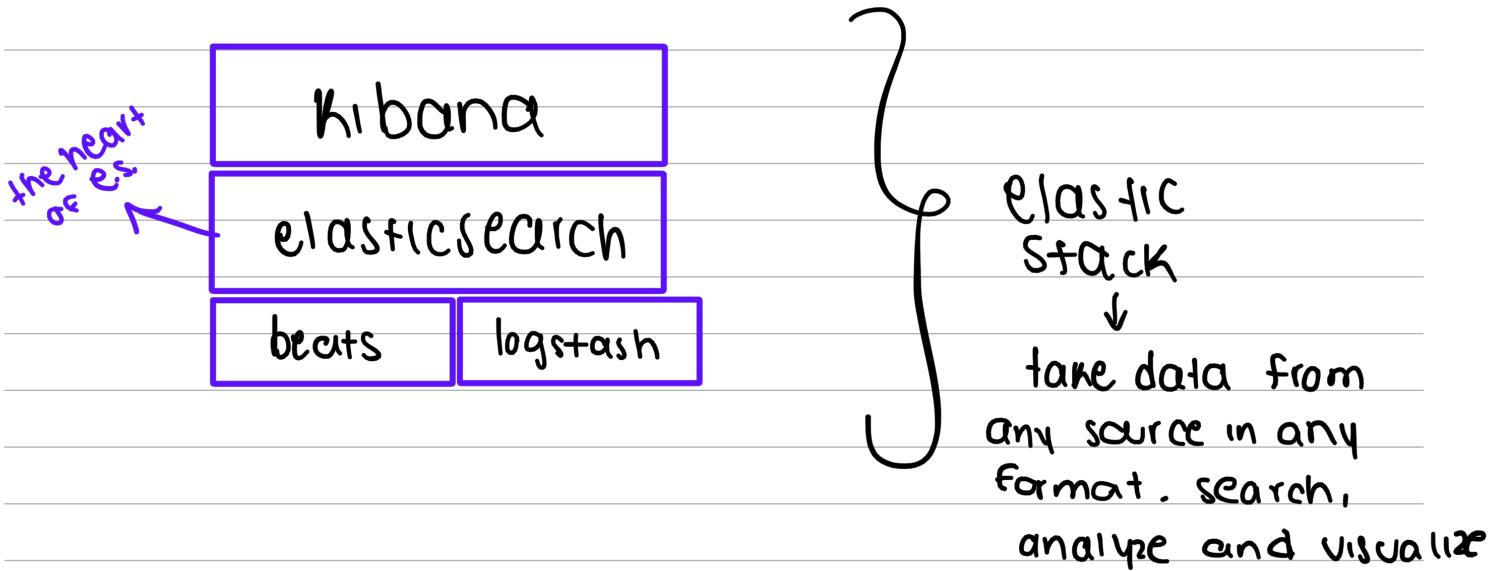
- UI to analyze elasticsearch data

¿ What can I do ?

- visualizations → build dashboards (dynamic)
- create Users, roles, privileges
- exporting and share data
- set Alerts

* Requires elasticsearch cluster

* It's easier to run the elastic cloud instead of installing it on our machine.

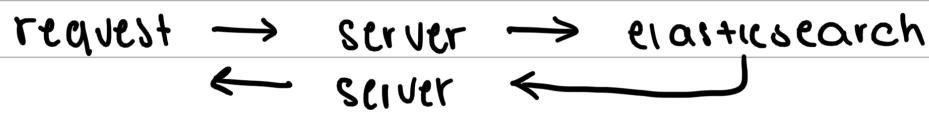


• Use cases

- Logging
- metrics
- security analytics
- business analytics

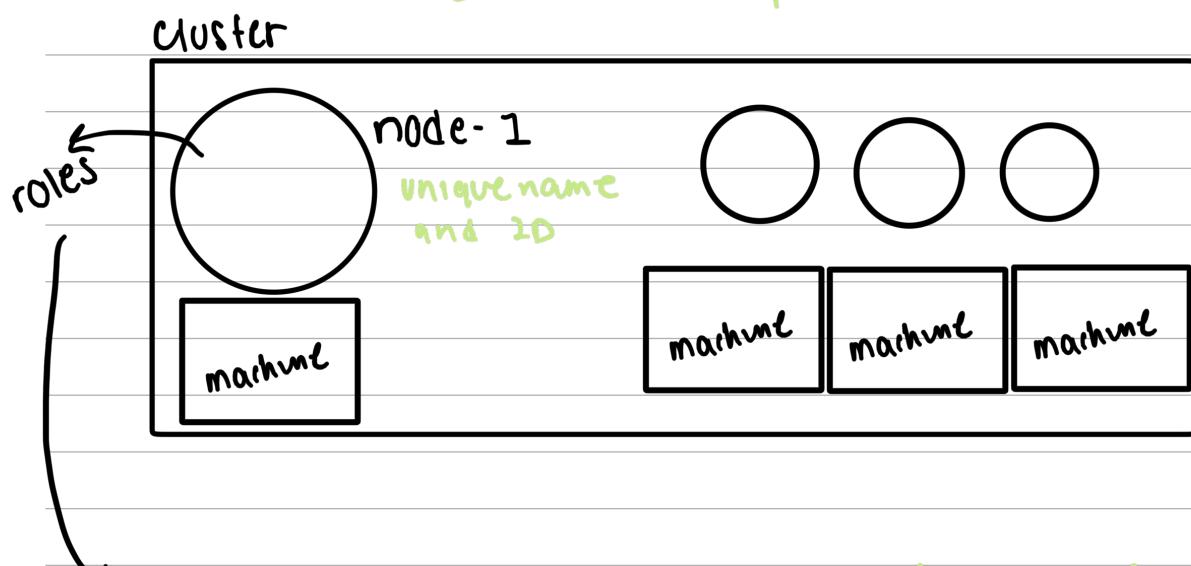
Elastic Search

store | search | analyze



hibana helps to visualize this
(search | view | interact)

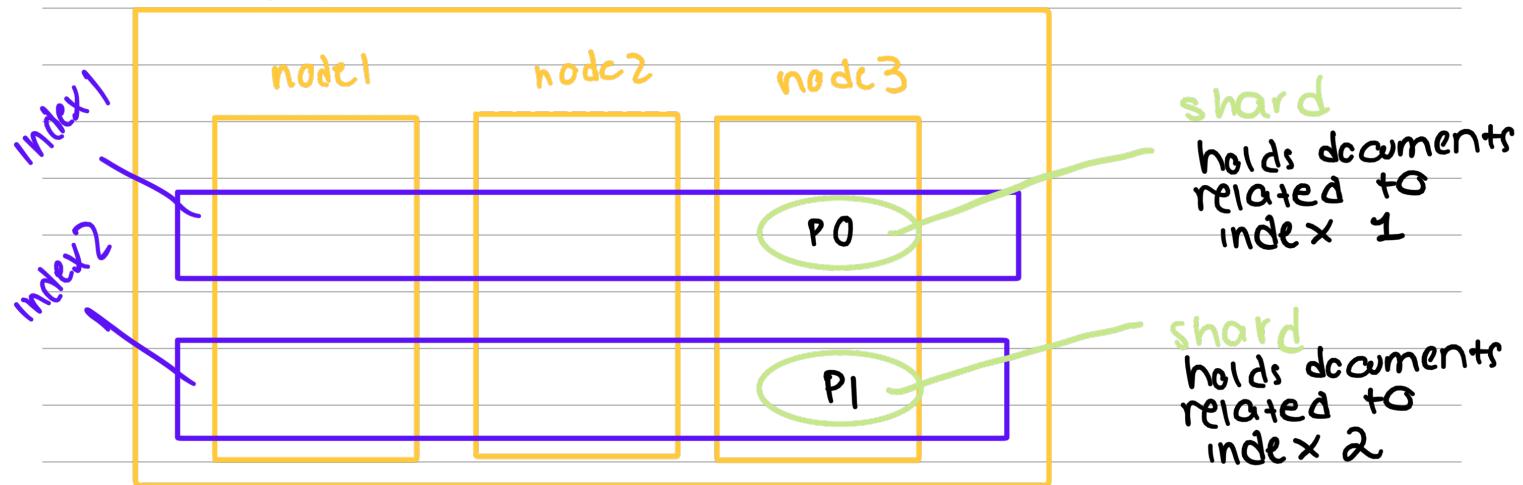
Elastic Search Arquitecture



one of them is hold data (document) JSON
↓
grouped into indexes

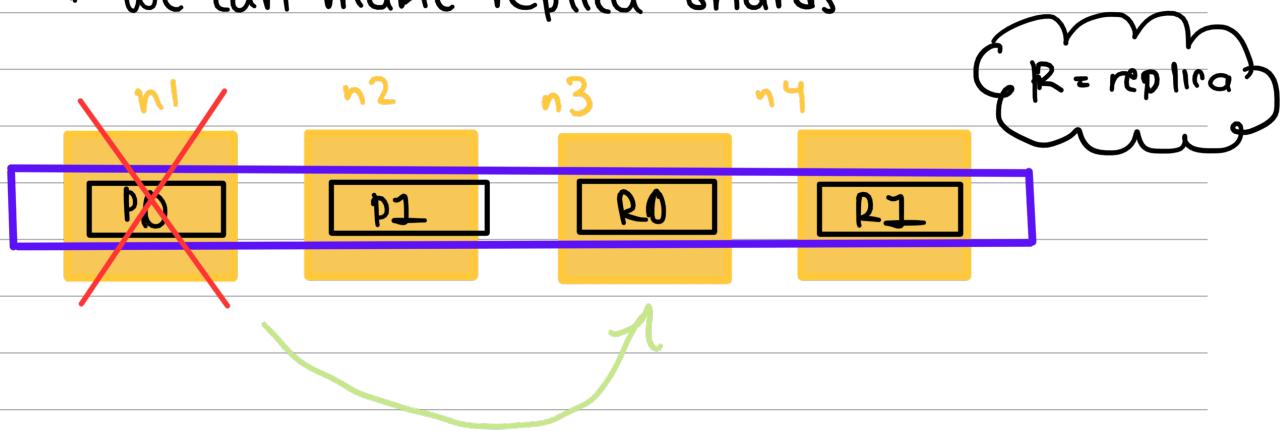
* nodes use cache for searching

Cluster



- Sharding:
- shards are assigned to nodes.
 - we can add more nodes to add more shards to an index.
 - searches can be parallel (faster)

* We can make replica shards



* replica shards can improve performance of searches

* not recommended to have many shards in one node

• Kibana - CRUD Operations

① run bin\ elastic search

② cmd: curl https://localhost:9200

③ run bin\ kibana

- Create Index:

→ PUT name-of-index

- index a document:

← POST name-of-index/_doc / id-you-want
autogenerated id { "field": "value" } JSON data

PUT

* use PUT when you use data with
an specific id. Ex: patients
* this can update

if we don't want to overwrite:

- Create Endpoint

IF it exists
It conflicts {
PUT name-of-index/_create / id-you-want
{ "field": "value" }
}

- Read a document:
↳ **GET** name-of-index | id-of-document
- Update a document
↳ **POST** name-of-index/_update | id-of-doc
{
 "doc": {
 "field": "value"
 }
}
- Delete a document
↳ **DELETE** name-of-index/_doc | id-of-doc