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Elasticsearch: Pesquisando e Analisando Seus Dados

Instalação

Baixando Elasticsearch e Kibana



elasticsearch

<https://www.elastic.co/pt/downloads/past-releases/elasticsearch-7-4-2>



kibana

<https://www.elastic.co/pt/downloads/past-releases/kibana-7-4-2>

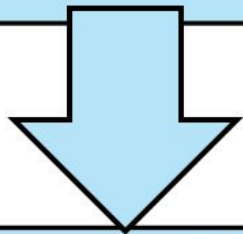
Luce



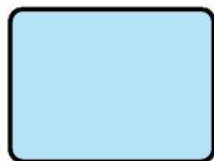
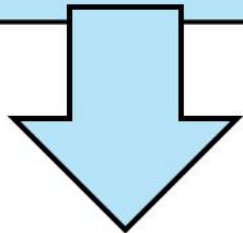
Elasticsearch

Lucene

elasticsearch API



lucene API





elasticsearch



elasticsearch.bat ←



elasticsearch-certgen

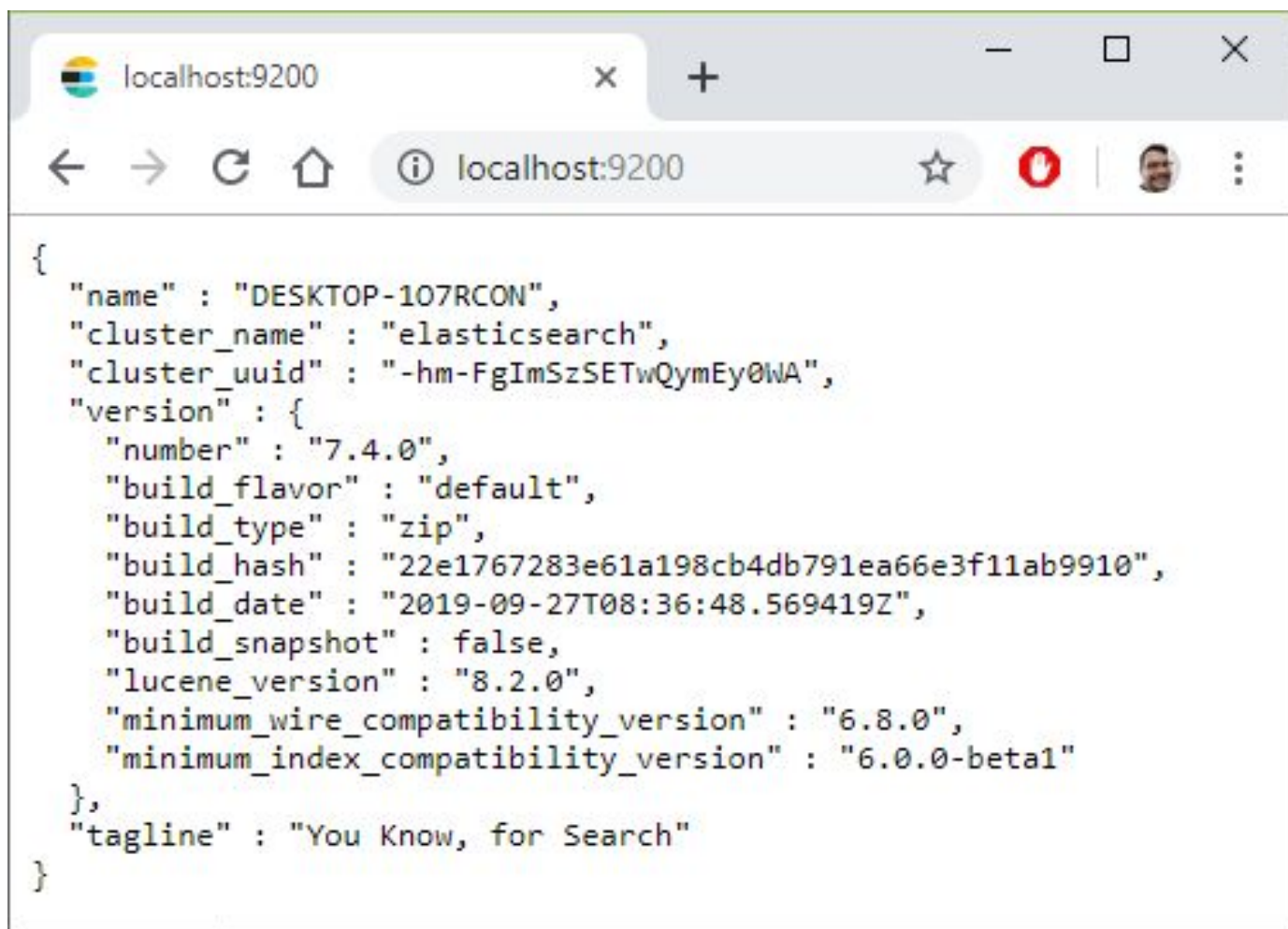


elasticsearch-certgen.bat



elasticsearch-certutil

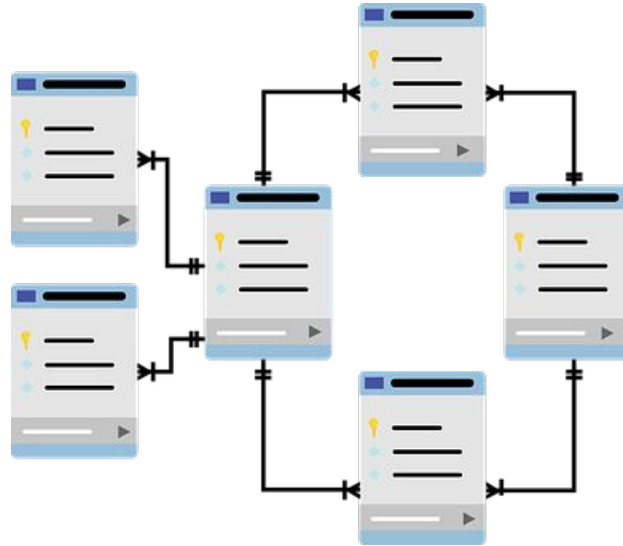
- porta 9200: fornece o web service REST
- porta 9300: comunicação entre os nós (nodes).



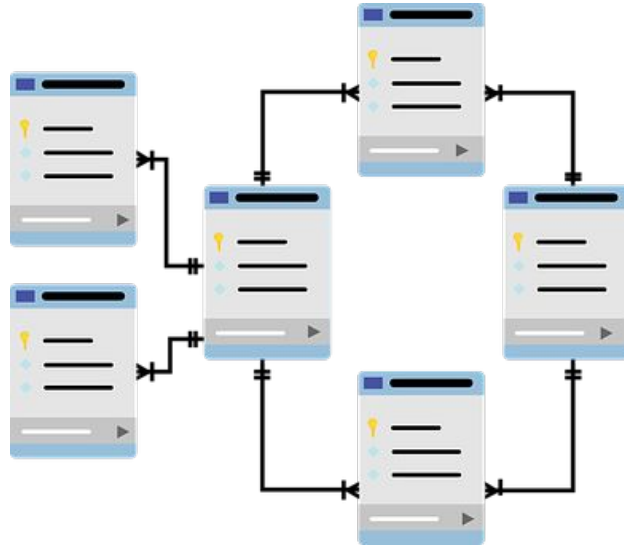
Acesso

ler / criar / modificar / excluir dados

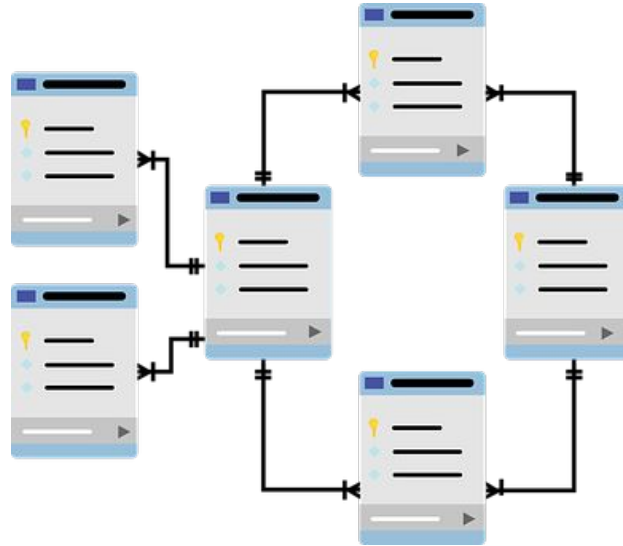
Banco Relacional: como inserir/atualizar?



Banco Relacional: Linguagem SQL



Banco Relacional: INSERT ou UPDATE



Elasticsearch: como inserir/atualizar?



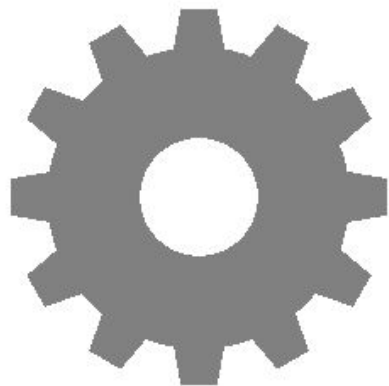
elasticsearch

Elasticsearch: comandos HTTP REST



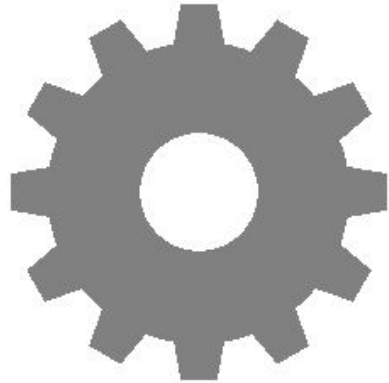
elasticsearch

API REST



POST

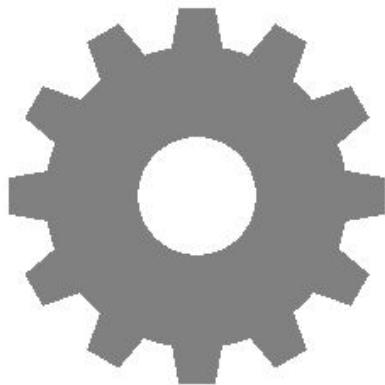
API REST



POST

API REST

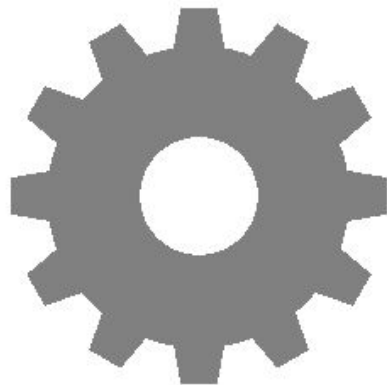
GET



POST

API REST

GET

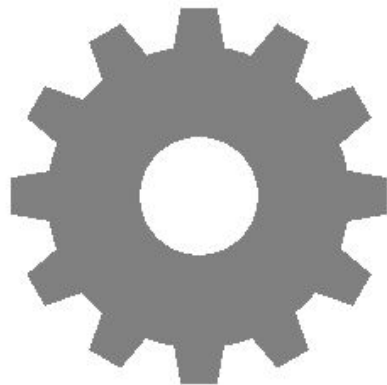


PUT

POST

API REST

GET



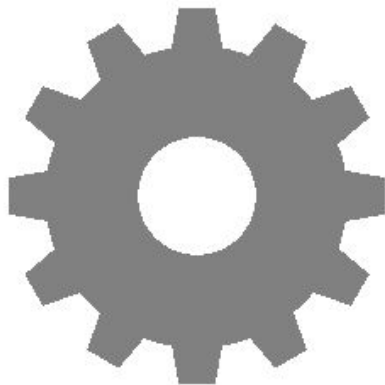
PUT

DELETE

POST

insert

API REST



GET

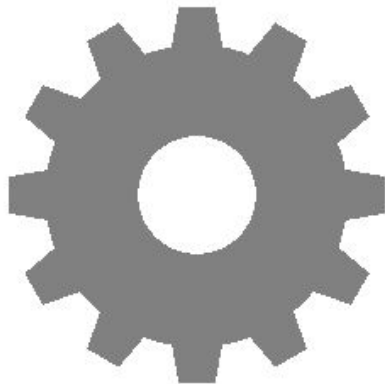
PUT

DELETE

POST

insert

API REST



GET

select

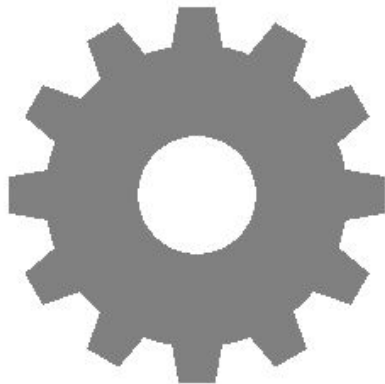
PUT

DELETE

POST

insert

API REST



GET

select

PUT

update

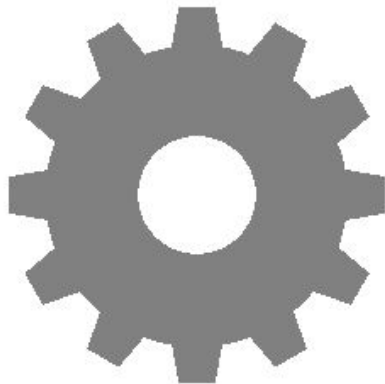
/insert (sem duplicar)

DELETE

POST

insert

API REST



GET

select

PUT

update

/insert (sem duplicar)

DELETE

delete



kibana

<http://localhost:5601/>

O Método HTTP POST

Inserindo dados no Elastic

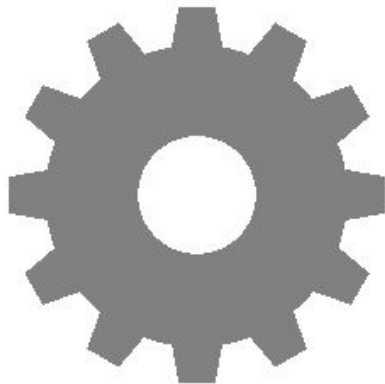


POST

insert

API REST

GET



PUT

DELETE

POST [índice]/_doc

POST [índice]/_doc

{*JSON_COM_DOCUMENTO*}

POST catalogo/_doc

```
{  
    "nome": "João Silva",  
    "interesses": ["futebol",  
"música", "literatura"],  
    "cidade": "São Paulo",  
    "formação": "Letras",  
    "estado": "SP",  
    "país": "Brasil"  
}
```


POST **catalogo**/_doc

```
{  
  "nome": "João Silva",  
  "interesses": ["futebol",  
"música", "literatura"],  
  "cidade": "São Paulo",  
  "formação": "Letras",  
  "estado": "SP",  
  "país": "Brasil"  
}
```

POST catalogo/~~pessoas~~

```
{  
  "nome": "João Silva",  
  "interesses": ["futebol",  
"música", "literatura"],  
  "cidade": "São Paulo",  
  "formação": "Letras",  
  "estado": "SP",  
  "país": "Brasil"  
}
```

POST catalogo/_doc

```
{  
  "nome": "João Silva",  
  "interesses": ["futebol",  
"música", "literatura"],  
  "cidade": "São Paulo",  
  "formação": "Letras",  
  "estado": "SP",  
  "país": "Brasil"  
}
```

POST catalogo/_doc

```
{  
  "nome": "João Silva",  
  "interesses": ["futebol",  
"música", "literatura"],  
  "cidade": "São Paulo",  
  "formação": "Letras",  
  "estado": "SP",  
  "país": "Brasil"  
}
```

POST catalogo/_doc

```
{  
  "nome": "João Silva",  
  "interesses": ["futebol",  
"música", "literatura"],  
  "cidade": "São Paulo",  
  "formação": "Letras",  
  "estado": "SP",  
  "país": "Brasil"  
}
```

POST catalogo/_doc

```
{  
  "nome": "João Silva",  
  "interesses": ["futebol",  
"música", "literatura"],  
  "cidade": "São Paulo",  
  "formação": "Letras",  
  "estado": "SP",  
  "país": "Brasil"  
}
```

Configurando Replicação







```
PUT catalogo/_settings
{
  "index": {
    "number_of_replicas": 0
  }
}
```

O Método HTTP GET

Lendo dados do Elastic

GET [índice]/_count

GET catalogo/_count

Criando Novo Documento

Como os dados são armazenados?

GET catalogo/_count

POST [índice]/_doc/{id}
{*JSON_COM_DOCUMENTO*}

POST catalogo/_doc/1

```
{  
  "nome": "João Silva",  
  "interesses": ["futebol",  
"música", "literatura"],  
  "cidade": "São Paulo",  
  "formação": "Letras",  
  "estado": "SP",  
  "país": "Brasil"  
}
```

GET [índice]/_doc/{id}

GET catalogo/_doc/1

Busca Geral

Procure o dado onde ele estiver

GET [índice]/_search

GET catalogo/_search

GET [índice]/_search/?q=[termo]

GET catalogo/_search/?q=futebol

Resumo da Aula

Primeiros passos com Elasticsearch
