

elasticsearch is magic

elasticsearch is a....

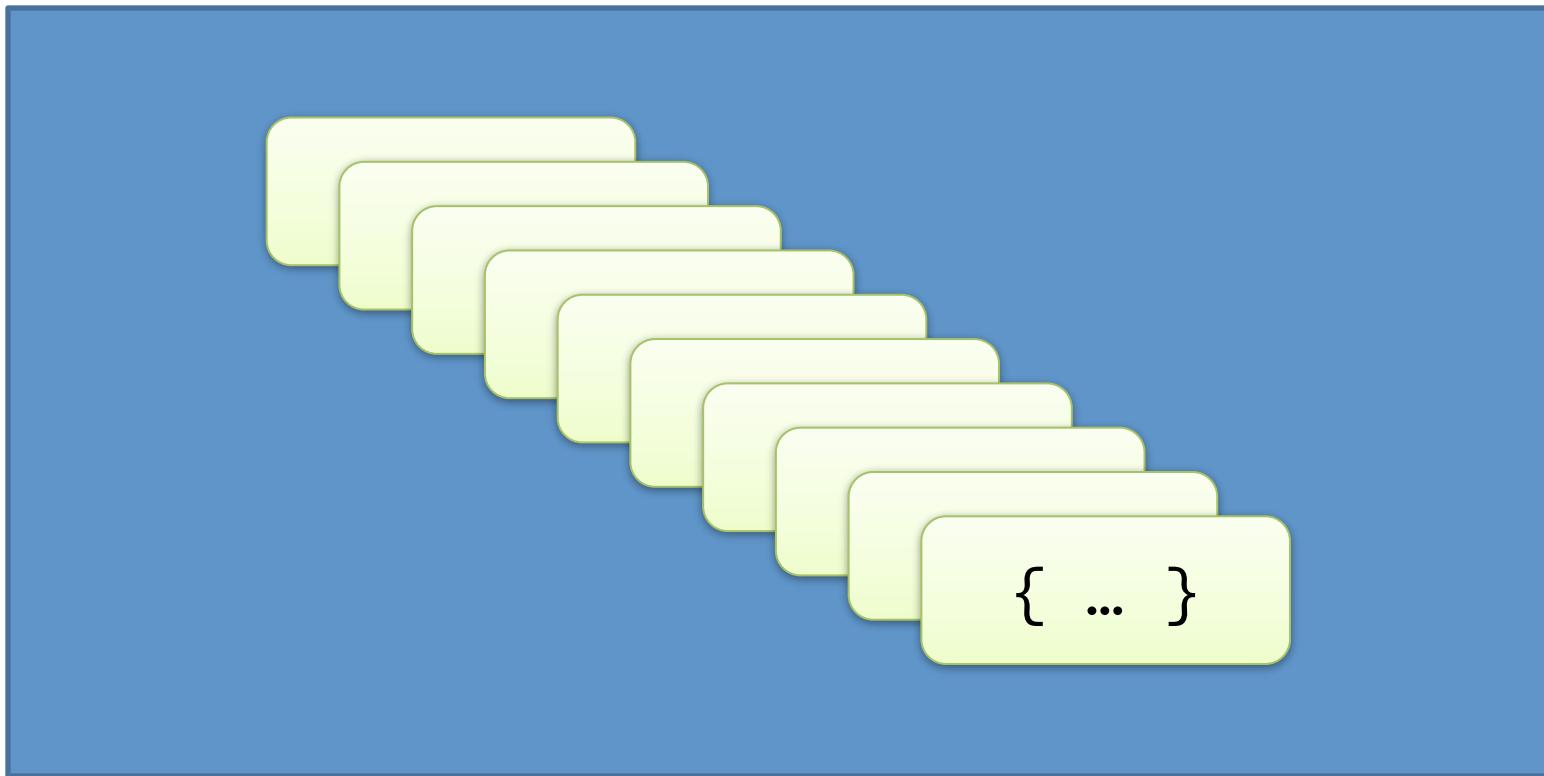
distributed, RESTful, schemaless,
open-source, search engine,
built in Java on Apache Lucene.

elasticsearch is a....

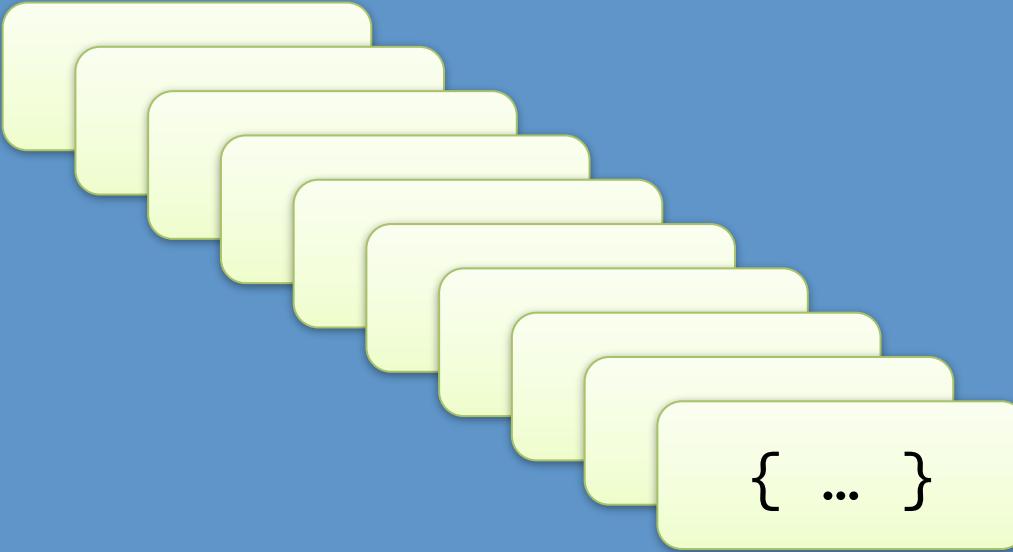
NoSQL

elasticsearch is a....

bag of holding



questions



/stack/questions

questions

id: 1

```
{  
  "question": "...",  
  "user_id": 123,  
  "tags": ["jquery", ...]  
}
```

/stack/questions/1

questions

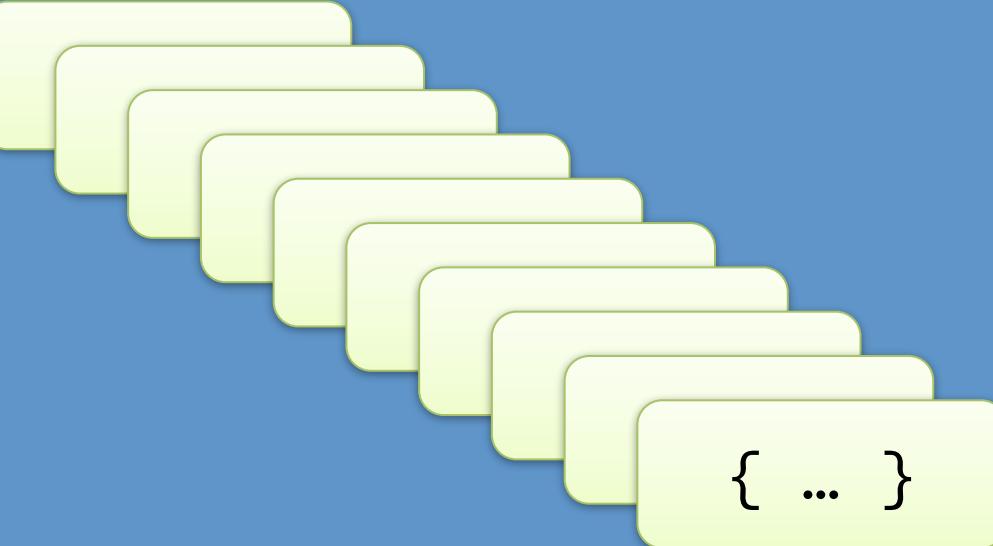
```
"question": string,  
"user_id": integer,  
"tags": array
```

/stack/questions/_mapping

questions

```
"question": string,  
language: english,  
stopwords: words.txt
```

users



/stack/users

users

```
"user_id": integer,  
"name": string,  
"location": string
```

/stack/users/_mapping

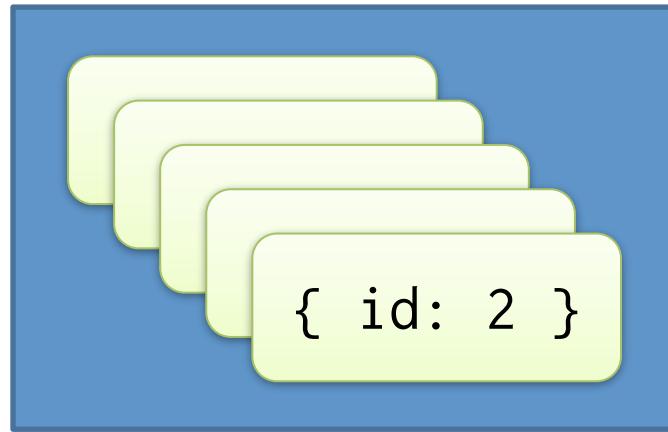
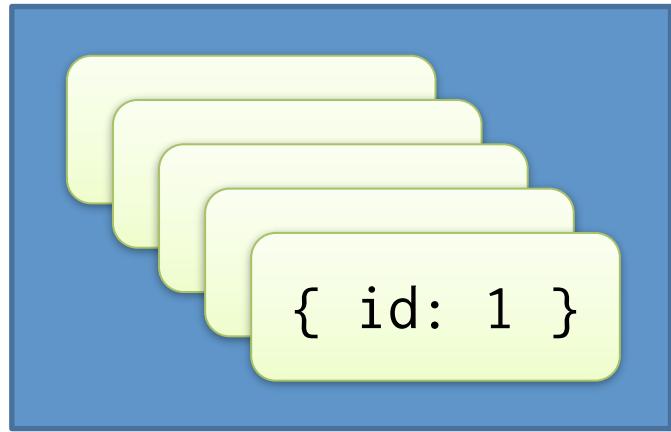
users

```
"user_id": integer,  
"name": string,  
"location": string,  
"geo": geo_point
```

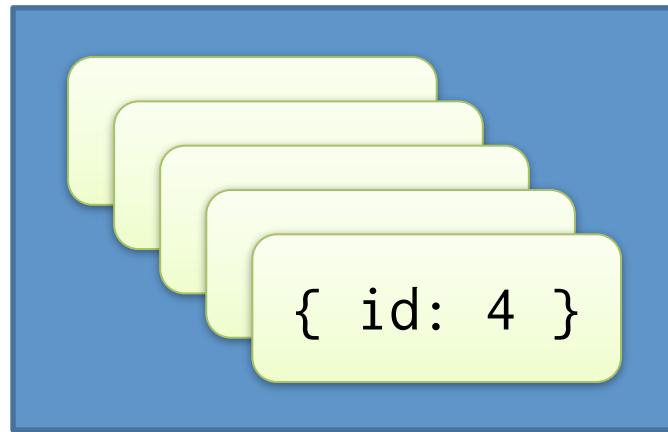
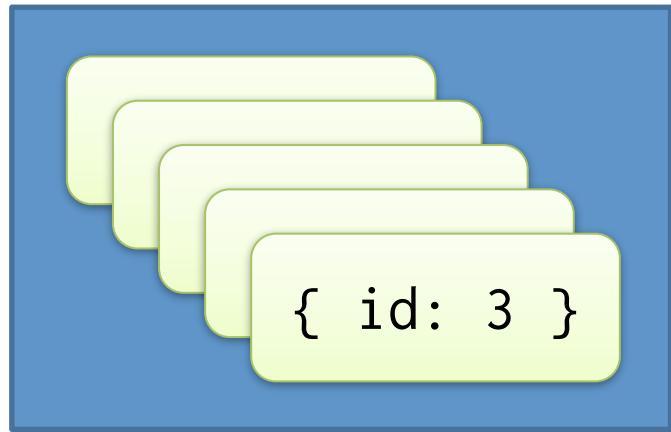
/stack/users/_mapping

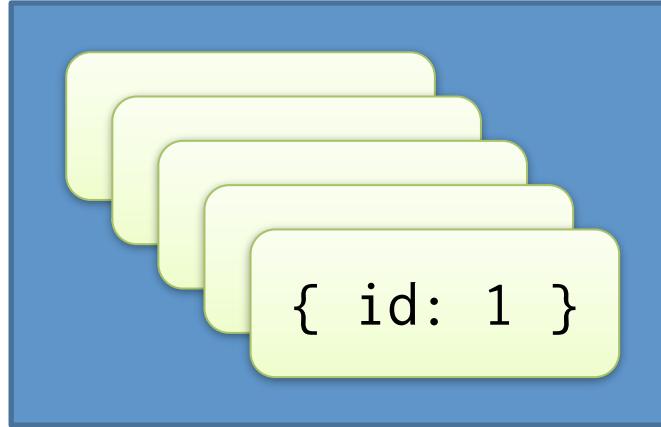
/stack/questions/_search

```
{"query":  
  {"bool":  
    {"must":  
      [  
        {"term": {"site": "photo"}},  
        {"text": {"question": "outdoors"}}  
      ],  
    "should":  
      [  
        {"term": {"tag": "lighting"}},  
        {"term": {"tag": "flash"}}  
      ]  
    }  
  },  
  "size": 10  
}
```

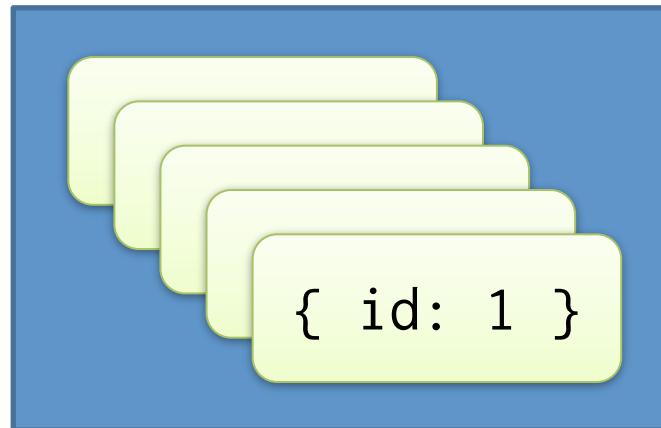


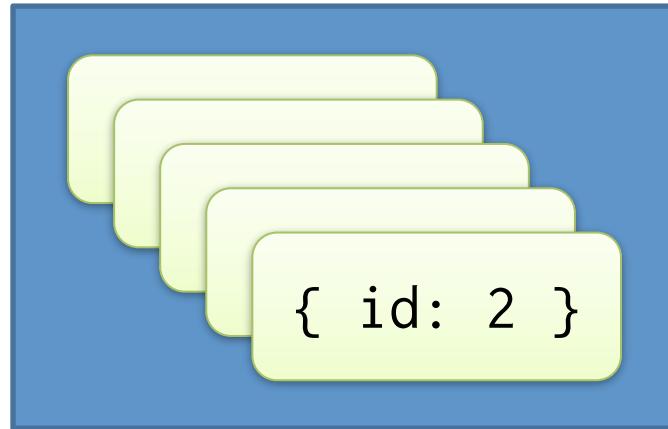
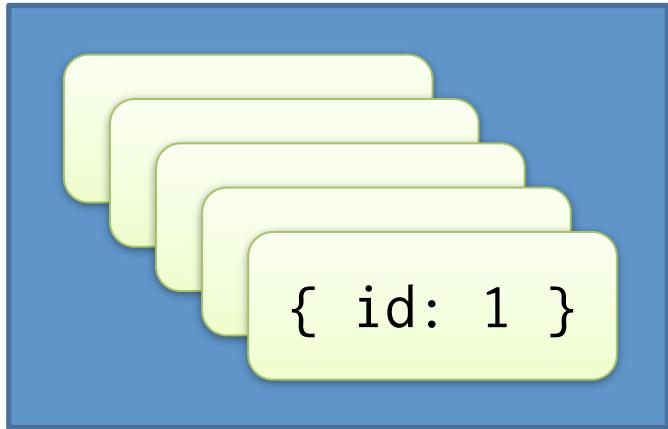
sharding



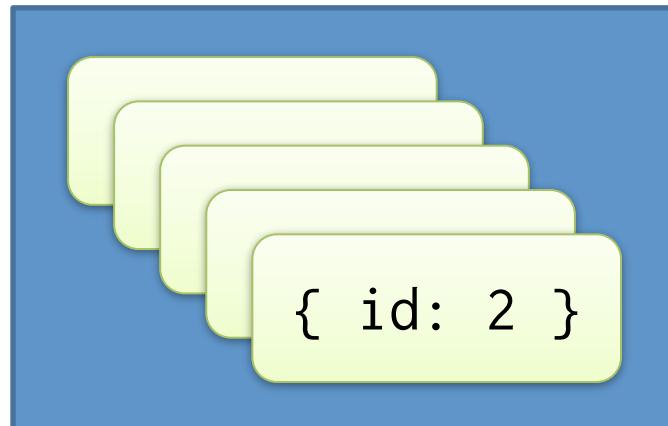
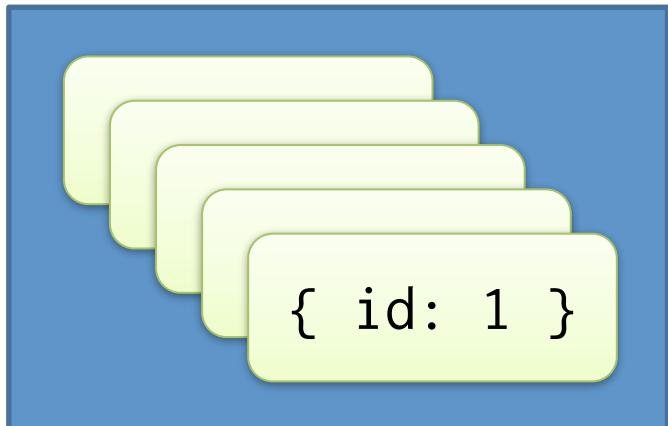


replication





replication + sharding



facets
pagination
sorting
scoring
scripts
plugins
hit highlighting
percolate

elasticsearch is magic

elasticsearch.org

Kevin Gessner • @kevingessner