

es

- es
- ESDB

```
ESindices --> types --> documents --> fields
DBdatabases --> tables --> rows --> columns
```

- es
es920093009200
 - 9200 httpRESTful
 - 9300tcpTCPClient
- es restful

```
POST /uri
DELETE /uri/xxx
PUT /uri/xxx
GET /uri/xxx
POSTid/uriPUT/uri/xxx
ESdocumentIDdocumentsPOSTuri "POST /website/blog" ESUID
documentID "PUT /website/blog/123"_version1
```

- es
 - `docker pull harbor.kanche.com/kanche/es-ik:2.3.5`
 - `docker run -d --name es-node -p 9201:9200 -p 9301:9300 5386bd3e3e68 -Des.cluster.name=b2c-test -Des.network.host=0.0.0.0 -Des.network.publish_host=0.0.0.0`
- es
`curl http://localhost:9000`

- id
`curl -X POST http://localhost:9000/student/base -d '{"name":"tom","age":23,"mobile":"13112345679"}'`
- id
`curl -X POST http://localhost:9000/student/base/1 -d '{"name":"tom","age":23,"mobile":"13112345679"}'`
- `curl -XPOST 'http://localhost:9000/student/base/_bulk?pretty' --data-binary "@es_tmp.json"`
es_tmp.json

```
{ "index": { "_id": "1" } }
{ "name": "tom", "age": 28, "mobile": "18654356728" }

{ "index": { "_id": "2" } }
{ "name": "tom", "age": 28, "mobile": "18654356728" }
```

- ()
`curl -XPOST http://localhost:9000/student/base/_bulk?pretty -d '
{"index":{"_id":"5"}}
{"name": "John Doe5"}
{"index":{"_id":"6"}}
{"name": "Jane Doe6"}
'`

- ```
curl -X PUT http://localhost:9000/student/base/AWUmz3KNlVWkjXAxlH-c -d '{ "name": "admin", "age": 23, "mobile": "18513245321" }'
```
- ```
curl -XPOST 'http://localhost:9000/student/base/AWUmz3KNlVWkjXAxlH-c/_update?pretty' -d '{
  "doc": {
    "name": "",
    "mobile": "18511536230"
  }
}'
```
- ```
curl -XPOST http://localhost:9000/student/base/_bulk?pretty -d '
{"update":{"_id":"6"}}
{"doc": { "name": "John Doe becomes Jane Doe" }}
{"update":{"_id":"5"}}
{"doc": { "name": "John Doe becomes Jane Doe" }}
{"delete":{"_id":"1"}}
'
updatedelete_id
```
- ```
id
curl -X DELETE http://localhost:9000/student/base/AWUm1Z1z1VWkjXAxlH-j
```
- ```
curl -XDELETE http://localhost:9200/student
```
- ```
curl -XDELETE http://localhost:9200/student/base
```
- ```
curl -XDELETE http://localhost:9200/student/base/_query?pretty -d
' { "query": { "match": { "name": "keivn" } } }'
```
- ```
id
_source/index/base/id
curl http://localhost:9200/student/base/_search?pretty -d '{ "_source": ["name"] }'
```
- ```
curl http://localhost:9200/student/base/_search?pretty -d '{ "query": { "match": { "name": "kevin" } } }'
```
- ```
and
curl http://localhost:9200/student/base/_search?pretty -d
'{"query":{"bool":{"must":[{"match":{"name":"kevin"}},{"match":{"age":"23"}}]}}}'
```
- ```
or
curl http://localhost:9200/student/base/_search?pretty -d
'{"query":{"bool":{"should":[{"match":{"name":"kevin"}},{"match":{"name":"tom"}}]}}}'
```
- ```
curl -XPOST http://127.0.0.1:9200/student/base/_search?pretty -d '{"query": {"bool": {"must": [{"match": { "name": "kevin" } }], "must_not": [{"match": { "age": "23" } } ]}}}'
```
- ```
mapping ik_smart
analyzer_field kevin tom
curl http://localhost:9200/student/base/_search?pretty -d '{"query": { "match": { "analyzer_field": "kevin tom" } } }'
analyzer_field kevin tom
curl http://localhost:9200/student/base/_search?pretty -d '{"query": { "match_phrase": { "analyzer_field": "kevin tom" } } }'
```
- ```
name23,
curl -XPOST http://localhost:9200/student/base/_search?pretty -d '{ "size": 3, "from": 2, "sort": [{"name": "asc"} ]}'
```
- ```
_all
kevin 23
curl 'localhost:9200/student/base/_search?q=kevin%2023&pretty'
```
- ```
mappingsetting
curl -XPUT 'localhost:9200/customer?pretty'

_settings
mappingsetting
curl -XPOST http://localhost:9200/test1 -d '{ "settings" : { "number_of_shards": 8, "number_of_replicas" : 1, "refresh_interval": "30s", "mappings": { "test_type": { "properties": { "name": { "type": "string" } } } } }'
```

- curl -X GET "http://localhost:9000/test/_analyze?analyzer=standard&pretty=true" -d "i am a cool boy keivn"
 curl -X GET "http://localhost:9000/test/_analyze?analyzer=ik_smart&pretty=true" -d "IT"

- mapping

```
curl -XPOST "http://127.0.0.1:9200/student/base/_mapping?pretty" -d '{
  "base": {
    "properties": {
      "analyzer_field": {
        "type": "string",
        "analyzer": "ik_smart"
      }
    }
  }
}
```

- curl -XPOST 'http://localhost:9200/_aliases' -d '{"actions": [{"add": { "index": "test1", "alias": "t" } }] }'

- curl http://localhost:9000/_all/_settings?pretty
- curl http://localhost:9000/student/_settings?pretty
- number_of_shards
 number_of_replicas
 refresh_interval

 curl -XPUT http://localhost:9000/student2?pretty -d'
 {
 "settings" : {
 "number_of_shards":8,
 "number_of_replicas" : 1,
 "refresh_interval":"30s"
 }
 }'

- curl 'localhost:9200/_cat/health?v'
- curl 'localhost:9200/_cat/nodes?v'
- curl 'localhost:9200/_cat/indices?v'

-
- Elasticsearch shard-splitting
- shard = hash(routing) % number_of_primary_shards
 routing_idrouting(remainder)0number_of_primary_shards - 1
 ()

```
[root@iz2zeg11g0cdef4mfwrup6z liu-kevin]# curl -XPUT http://localhost:9000/student2?pretty -d'
{
  "settings" : {
    "number_of_shards":8,
    "number_of_replicas" : 1,
    "refresh_interval":"30s"
  }
}'
{
  "error" : {
    "root_cause" : [ {
      "type" : "index_already_exists_exception",
      "reason" : "already exists",
      "index" : "student2"
    } ],
    "type" : "index_already_exists_exception",
    "reason" : "already exists",
    "index" : "student2"
  },
  "status" : 400
}
```

• Elasticsearch

• es

