# 声明

注意本操作是基于elasticsearch 6.5版本进行的操作

# ES操作

注意：最好的方式是直接登陆es官网进行查询

## 修改副本数

PUT <http://2.2.2.18:9200/indexname/_settings>

{

“number\_of\_replicas”:0

}

## 查看所有模板

GET <http://2.2.2.18:9200/_template>

## 查看指定的模版

GET <http://2.2.2.18:9200/_template>/template\_name

## 删除索引的一项配置，设为null即可

PUT <http://2.2.2.18:9200/index_name/_settings>

{

“settings”:{

“index.routing.allocation.include.\_name”:”null”

}

}

## 修改索引中的settings

PUT <http://2.2.2.18:9200/index_name/_settings>

{

“index.routing.allocation.include.\_name”:”test”

}

## 添加别名

POST <http://2.2.2.18:9200/_aliases>

{

“actions”:[

{

“add”:{

“index”:”wa\_source\_0001-2018.12.30-00006”,

“aliases”:”active-wa\_source\_0001”

}

}

]

}

## 滚动索引

POST <http://2.2.2.18:9200/aliases_name/_rollover>

{

“conditions”:{

“max\_age”:”7d”,

“max\_docs”:”1800000000”

}

}

## 缩小索引

POST <http://2.2.2.187:9200/source_index/_shrink/target_index?copy_settings=true>

{

“settings”:{

“index.number\_of\_replicas”:0,

“index.number\_of\_shards”:1

}

}

## 拆分索引

POST <http://2.2.2.18:9200/source_index/_split/target_index?copy_settings=true>

{

“settings”:{

“index.number\_of\_replicas”:0,

“index.number\_of\_shards”:10

}

}

段合并

POST <http://2.2.2.18:9200/index_name/_forcemerge?max_num_segments=1>

## 查询节点中的分片状态

GET <http://2.2.2.18:9200/_cat/recovery/index_name?v&h=target_node,bytes_percent>

## 暂停和启动集群的shard自动分配

PUT <http://2.2.2.18:9200/_cluster/settings>

{

“transient”:{

“cluster.routing.allocation.enable”:”none” //禁用none，启动all

}

}

## 启动和关闭指定的索引

POST <http://2.2.2.18:9200/indexname/_close>

POST [http://2.2.2.18:9200/indexname/\_o](http://2.2.2.18:9200/indexname/_close)pen

## 查看es各个节点是否开启mem\_lock

GET [http://2.2.2.18:9200/\_nodes?filter\_path=\*\*.mlockall](http://2.2.2.18:9200/_nodes?filter_path=**.mlockall)

如果没有开启，应该再root权限下执行ulimit -l unlimited

告诉操作系统可以无限分配内存给一个进程

# 索引级别

## 索引操作

### 创建索引的同时,创建分片数,副本数

PUT twitter{

"settings" : {

"index" : {

"number\_of\_shards" : 3,

"number\_of\_replicas" : 2

}

}}

### 创建索引的同时,创建setting和mapping

PUT test{

"settings" : {

"number\_of\_shards" : 1

},

"mappings" : {

"\_doc" : {

"properties" : {

"field1" : { "type" : "text" }

}

}

}}

### 创建索引别名

PUT test{

"aliases" : {

"alias\_1" : {},

"alias\_2" : {

"filter" : {

"term" : {"user" : "kimchy" }

},

"routing" : "kimchy"

}

}}

### 删除索引

DELETE /twitter

### 获取索引信息

GET / Twitter

### 索引是否存在

HEAD twitter

### 启动关闭索引

POST /my\_index/\_close

POST /my\_index/\_open

## 缩小索引

### 准备缩小索引

为了缩小索引，必须将索引标记为只读，并且索引中每个分片的（主副本或副本）副本必须重定位到同一节点并具有[health](https://www.elastic.co/guide/en/elasticsearch/reference/6.5/cluster-health.html" \o "集群健康) green。

PUT /my\_source\_index/\_settings{

"settings": {

"index.routing.allocation.require.\_name": "shrink\_node\_name",

"index.blocks.write": true

}}

### 缩小索引

要缩小my\_source\_index为名为的新索引my\_target\_index.

清除从源索引复制的分配要求。

清除从源索引复制的索引写块。

POST my\_source\_index/\_shrink/my\_target\_index?copy\_settings=true

{

"settings": {

"index.routing.allocation.require.\_name": null,

"index.blocks.write": null

}}

# 文档级别查询

## 组合查询

|  |
| --- |
| {  "query": {  "bool": {  "must": [  {  "match": {  "dataDate": "20191128"  }  },  {  "match": {  "businessType": "3"  }  },  {  "match": {  "varietiesId": "319"  }  }  ]  }  }  } |

## 组合查询和排序以及指定字段不为空

|  |
| --- |
| POST lz\_index\_data\_day/\_search  {  "size":6,  "sort": [  {  "dataDate": {  "order": "desc"  },  "createTime": {  "order": "desc"  }  }  ],  "query": {  "bool": {  "filter": [  {  "match": {  "businessType": 3  }  },  {  "match": {  "indexPriceType": 2  }  }  ],  "must": {  "exists": {  "field": "dataValue"  }  }  }  }  } |
|  |

## 条件更新

|  |
| --- |
| POST /lz\_index\_customer\_data\_day/\_update\_by\_query/  {  "script": {  "source": "ctx.\_source['priceType']=15;"  },  "query": {  "bool": {  "filter": [  {  "match": {  "businessType": 4  }  },  {  "match": {  "priceType": 1  }  }  ]  }  }  } |

## 范围查询

|  |
| --- |
| post    127.0.0.1:9200/people/\_search  {      "query": {          # 查询age等于100的数据          # ”term“: {"age": 100}          # 查询age大于等于50小于等于100的数据          # "range": {"age": {"gte": 50, "lte": 100}}          # 查询date大于2017-01-01到现在的数据          ”range“: {"date": {"gt": "2017-01-01", "lte": "now"}}      } |

## 多字段匹配查询

|  |
| --- |
| post    127.0.0.1:9200/people/\_search  {  "query":{  "multi\_match":{  "query":"晓明china",  "fields":["name","country"]  }  }  }  注意:multi\_match为指定多字段匹配 |

## 未指定字段查询

|  |
| --- |
| post    127.0.0.1:9200/people/\_search  {  "query":{  "query\_string":{  "query":"(ElasticSearch AND 入门) OR SpringBoot"  }  }  } |

返回结果:



## bool查询

should 相当于or ,must 相当于and ，must\_not 就相当于not

|  |
| --- |
| {  "query": {  "bool": {  "filter": [  {  "match": {  "businessType": 4  }  },  {  "match": {  "priceType": 1  }  }  ],  "should": [  {  "match": {  "businessType": 4  }  },  {  "match": {  "priceType": 1  }  }  ]  } |
|  |

# 代码模版

|  |
| --- |
|  |