

Iniciando o Elasticsearch em Docker

Docker Desktop Windows

```
PS E:\projetos\docker-elasticsearch\elastic> wsl -l -v
  NAME                STATE          VERSION
* docker-desktop-data  Running        2
  docker-desktop       Running        2
  Ubuntu-20.04         Running        2
```

```
PS E:\projetos\docker-elasticsearch\elastic> wsl -d docker-desktop
LAPTOP-V176DRSL:/tmp/docker-desktop-root/mnt/host/e/projetos/docker-elasticsearch/elastic# sysctl -w vm.max_map_count=262144
vm.max_map_count = 262144
LAPTOP-V176DRSL:/tmp/docker-desktop-root/mnt/host/e/projetos/docker-elasticsearch/elastic#
```

Docker Wsl2 Linux

```
feliciani@LAPTOP-V176DRSL:~$ sudo sysctl -w vm.max_map_count=262144
[sudo] password for feliciani:
vm.max_map_count = 262144
```


Docker Desktop Windows




```
PS E:\projetos\docker-elasticsearch\elastic> docker-compose up -d
Docker Compose is now in the Docker CLI, try 'docker compose up'

Starting elastic_elasticsearch_1 ... done
Starting elastic_kibana_1         ... done
Starting elastic_logstash_1       ... done
```

```
PS E:\projetos\docker-elasticsearch\elastic> docker ps
CONTAINER ID   IMAGE                                     COMMAND                  CREATED        STATUS        PORTS
d3d012693acc   docker.elastic.co/logstash/logstash:7.9.2 "/usr/local/bin/dock... 17 hours ago  Up 33 minutes  0.0.0.0:5044->5044/tcp,
:::5044->5044/tcp, 0.0.0.0:9600->9600/tcp, :::9600->9600/tcp
ca700688aa0d   docker.elastic.co/kibana/kibana:7.9.2    "/usr/local/bin/dumb... 17 hours ago  Up 33 minutes  0.0.0.0:5601->5601/tcp,
:::5601->5601/tcp
37a2fb5958f4   docker.elastic.co/elasticsearch/elasticsearch:7.9.2 "/tini -- /usr/local... 17 hours ago  Up 34 minutes  0.0.0.0:9200->9200/tcp,
:::9200->9200/tcp, 9300/tcp
NAMES
elastic_logstash_1
elastic_kibana_1
elastic_elasticsearch_1
```

Docker



 docker




Upgrade    Sign in

Containers / Apps


Images


Dev Environments


  elastic
E:\projetos\docker-elasticsearch\elastic

Open in Visual Studio Code   



CONTAINERS

 elastic_logstash_1
docker.elastic.co/logstash/logstash:7.9.2
RUNNING PORT: 5044

 elastic_kibana_1
docker.elastic.co/kibana/kibana:7.9.2
RUNNING PORT: 5601

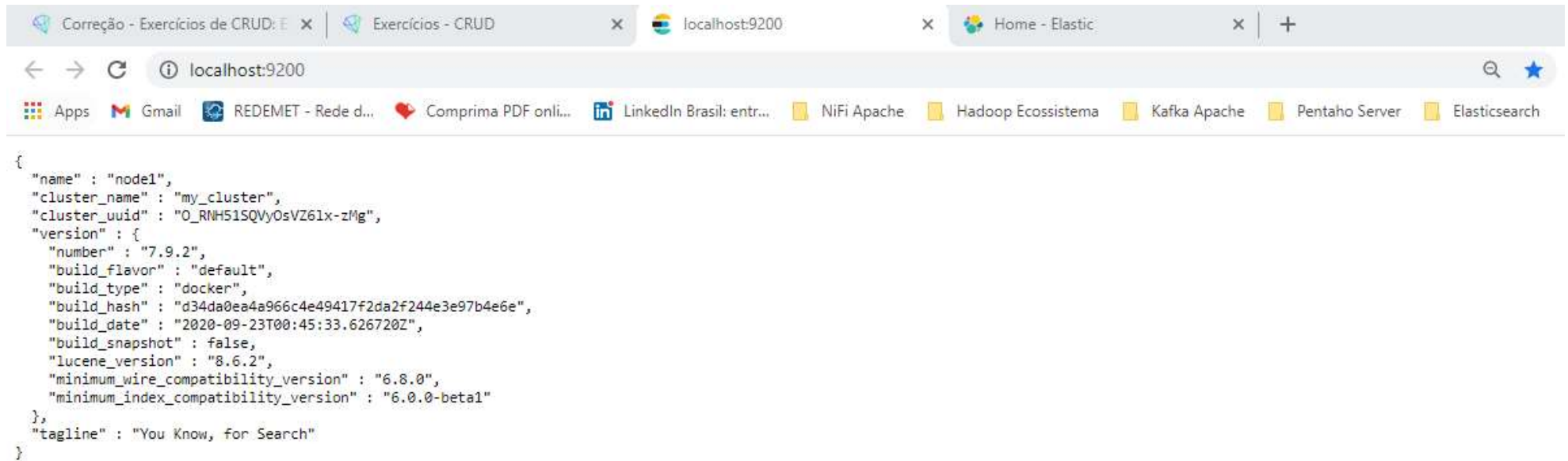
 elastic_elasticsearch_1
docker.elastic.co/elasticsearch/elasticsearch:7.9.2
RUNNING PORT: 9200

```
dest":"empty","referer":"http://localhost:5601/app/home","accept-encoding":"gzip, deflate, br","accept-language":"pt-BR,pt;q=0.9,en-US;q=0.8,en;q=0.7"},"remoteAddress":"172.18.0.1","userAgent":"Mozilla/5.0 (Windows NT 10.0; Win64; x64) AppleWebKit/537.36 (KHTML, like Gecko) Chrome/91.0.4472.77 Safari/537.36","referer":"http://localhost:5601/app/home"},"res":{"statusCode":200,"responseTime":751,"contentLength":9,"message":"POST /api/ui_metric/report 200 751ms - 9.0B"}
elasticsearch_1 | {"type": "server", "timestamp": "2021-06-10T13:42:53,810Z", "level": "INFO", "component": "o.e.m.j.JvmGcMonitorService", "cluster.name": "my_cluster", "node.name": "node1", "message": "[gc][1024] overhead, spent [304ms] collecting in the last [1s]", "cluster.uuid": "O_RNH51SQVyOsVZ6lx-zMg", "node.id": "I0MovYK2T0eNK1jQUwWviA" }
elasticsearch_1 | {"type": "server", "timestamp": "2021-06-10T13:50:02,818Z", "level": "WARN", "component": "o.e.m.f.FsHealthService", "cluster.name": "my_cluster", "node.name": "node1", "message": "health check of [/usr/share/elasticsearch/data/nodes/0] took [5569ms] which is above the warn threshold of [5s]", "cluster.uuid": "O_RNH51SQVyOsVZ6lx-zMg", "node.id": "I0MovYK2T0eNK1jQUwWviA" }
elasticsearch_1 | {"type": "server", "timestamp": "2021-06-10T13:50:12,644Z", "level": "WARN", "component": "o.e.m.j.JvmGcMonitorService", "cluster.name": "my_cluster", "node.name": "node1", "message": "[gc][young][1454][20] duration [2.5s], collections [1]/[3.1s], total [2.5s]/[4.5s], memory [367.7mb]->[86.2mb]/[512mb], all_pools {[young][282mb]->[0b]/[0b]}{[old][76.2mb]->[76.2mb]/[512mb]}{[survivor][9.4mb]->[10mb]/[0b]}", "cluster.uuid": "O_RNH51SQVyOsVZ6lx-zMg", "node.id": "I0MovYK2T0eNK1jQUwWviA" }
elasticsearch_1 | {"type": "server", "timestamp": "2021-06-10T13:50:12,645Z", "level": "WARN", "component": "o.e.m.j.JvmGcMonitorService", "cluster.name": "my_cluster", "node.name": "node1", "message": "[gc][1454] overhead, spent [2.5s] collecting in the last [3.1s]", "cluster.uuid": "O_RNH51SQVyOsVZ6lx-zMg", "node.id": "I0MovYK2T0eNK1jQUwWviA" }
```

Search...  Stick to bottom 

Acessado o Elasticsearch

<http://localhost:9200>



```
{
  "name" : "node1",
  "cluster_name" : "my_cluster",
  "cluster_uuid" : "O_RNH51SQVyOsVZ61x-zMg",
  "version" : {
    "number" : "7.9.2",
    "build_flavor" : "default",
    "build_type" : "docker",
    "build_hash" : "d34da0ea4a966c4e49417f2da2f244e3e97b4e6e",
    "build_date" : "2020-09-23T00:45:33.626720Z",
    "build_snapshot" : false,
    "lucene_version" : "8.6.2",
    "minimum_wire_compatibility_version" : "6.8.0",
    "minimum_index_compatibility_version" : "6.0.0-beta1"
  },
  "tagline" : "You Know, for Search"
}
```

Acessando o KIBANA

<http://localhost:5601>

The screenshot shows a web browser window with the Kibana interface. The browser's address bar displays `localhost:5601/app/home/`. The browser's tab bar includes several tabs: 'Correção - Exercícios de CRUD', 'Exercícios - CRUD', 'localhost:9200', and 'Home - Elastic'. The browser's bookmark bar contains links to 'Apps', 'Gmail', 'REDEMET - Rede d...', 'Comprima PDF onli...', 'LinkedIn Brasil: entr...', 'NiFi Apache', 'Hadoop Ecosistema', 'Kafka Apache', 'Pentaho Server', and 'Elasticsearch'. The Kibana interface features a left-hand navigation menu with the following sections: 'Home' (with a home icon), 'Recently viewed' (showing 'No recently viewed items'), 'Kibana' (with a dropdown arrow), 'Enterprise Search' (with a dropdown arrow), and 'Observability' (with a dropdown arrow). The 'Kibana' section includes links to 'Discover', 'Dashboard', 'Canvas', 'Maps', 'Machine Learning', and 'Visualize'. The 'Enterprise Search' section includes links to 'App Search' and 'Workplace Search'. The 'Observability' section includes links to 'Overview' and 'Logs'. The main content area of the Kibana home page is divided into several sections. The top section is titled 'Security' and includes a sub-section 'SIEM + Endpoint Security' with the description 'Protect hosts, analyze security information and events, hunt threats, automate detections, and create cases.' Below this, there are three buttons: 'Add log data', 'Add metric data', and 'Add events'. The middle section is titled 'Explore Data' and includes a sub-section 'App Search' with the description 'Leverage dashboards, analytics, and APIs for advanced application'. Below this, there are three buttons: 'Add sample data', 'Upload data from log file', and 'Use Elasticsearch data'. The bottom section is titled 'Manage and Administer the Elastic Stack' and includes a sub-section 'Console' with the description 'Skip cURL and use this JSON interface to work with your data directly.' Below this, there are three buttons: 'Add sample data', 'Upload data from log file', and 'Use Elasticsearch data'.

Correção - Exercícios de CRUD: E x | Exercícios - CRUD x | localhost:9200 x | Home - Elastic x +

localhost:5601/app/home/

Apps Gmail REDEMET - Rede d... Comprima PDF onli... LinkedIn Brasil: entr... NiFi Apache Hadoop Ecosistema Kafka Apache Pentaho Server Elasticsearch

Home

Home

Recently viewed

No recently viewed items

Kibana

Discover

Dashboard

Canvas

Maps

Machine Learning

Visualize

Enterprise Search

App Search

Workplace Search

Observability

Overview

Logs

Security

SIEM + Endpoint Security

Protect hosts, analyze security information and events, hunt threats, automate detections, and create cases.

Add log data

Add metric data

Add events

Add sample data

Upload data from log file

Use Elasticsearch data

Explore Data

Manage and Administer the Elastic Stack

App Search

Console

Rollups

Exercitando Índices

Acessar o MENU -> Dev Tools

Correção - Exercícios de Pesquisa x Exercícios - Pesquisa e Paginação x localhost:9200 x Home - Elastic x +

localhost:5601/app/home#/

Apps Gmail REDEMET - Rede d... Comprima PDF onli... LinkedIn Brasil: entr... NiFi Apache Hadoop Ecosystema Kafka Apache Pentaho Server Elasticsearch » Lista de leitura

Home

Home

Recently viewed

No recently viewed items.

Security

Overview

Detections

Hosts

Network

Timelines

Cases

Administration

Management

Dev Tools

Ingest Ma Dev Tools

Stack Monitoring

Stack Management

localhost:5601/app/dev_tools

Availability

Logs

Ingest logs from popular data sources and easily visualize in preconfigured dashboards.

Add log data

Metrics

Collect metrics from the operating system and services running on your servers.

Add metric data

Security

SIEM + Endpoint Security

Protect hosts, analyze security information and events, hunt threats, automate detections, and create cases.

Add events

Add sample data

Set up a Kibana dashboard

Upload data from log file

Import a CSV, NDJSON, or log file

Use Elasticsearch data

Connect to your Elasticsearch index

Explore Data

App Search

Leverage dashboards, analytics, and APIs for advanced application search made simple.

Manage and Administer the Elastic Stack

Console

Skip cURL and use this JSON interface to work with your data directly.

Rollups

Summarize and store historical data in a smaller index for future analysis.

97%

17:29

1. Visualizar as configurações do índice produto

Verifica-se que tem 1 réplica e 1 shards configurado

GET produto/_settings

The screenshot shows a web browser window with the address bar at `localhost:5601/app/dev_tools#/console`. The browser's tab bar includes several tabs, with the active one being 'Dev Tools - Elastic'. The browser's address bar also shows a search bar and various icons. Below the browser window, the DevTools console is open, displaying a REST client interface. The console has a 'History' tab selected, showing a list of requests. The first request is a GET request to `produto/_settings`. The response is a JSON object with the following structure:

```
{
  "produto": {
    "settings": {
      "index": {
        "creation_date": "1623334456023",
        "number_of_shards": "1",
        "number_of_replicas": "1",
        "uuid": "SX-JC33dQs2GfJT8kyejYg",
        "version": {
          "created": "7090299"
        },
        "provided_name": "produto"
      }
    }
  }
}
```

The console also shows a status bar at the bottom right indicating a 200 status code and a response time of 3893 ms. The Windows taskbar is visible at the bottom of the screen, showing the time as 19:25 and a battery level of 97%.

2. Visualizar o mapeamento do índice produto

The screenshot shows a web browser window with the Elastic Dev Tools interface. The address bar shows `localhost:5601/app/dev_tools#/console`. The browser's tab bar includes several tabs, with the active one being "Dev Tools - Elastic". The browser's bookmark bar shows various links like "Apps", "Gmail", "REDEMET - Rede d...", "Comprima PDF onli...", "LinkedIn Brasil: entr...", "NiFi Apache", "Hadoop Ecossistema", "Kafka Apache", "Pentaho Server", "Elasticsearch", and "Lista de leitura".

The Dev Tools interface has a top bar with "Console", "Search Profiler", "Grok Debugger", "Painless Lab", and a "BETA" badge. Below this is a "History" tab, and a "Click to send request" button is visible. The console shows a list of REST client requests and their responses. The first request is a GET request to `produto/_mapping`, which returns a JSON response showing the mapping for the `produto` index.

The console history shows the following requests:

- 1 GET `produto/_mapping`
- 2
- 3 GET `produto/_settings`
- 4
- 5
- 6 #-----#
- 7
- 8
- 9 GET `_all/_search?&size=5&from=15`
- 10
- 11 GET `produto/_search?q=nome:memória&q=descricao:DDR4`
- 12
- 13 GET `produto/_search?q=nome:hd&q=descricao:windows`
- 14
- 15 GET `produto/_search?q=descricao:usb`
- 16
- 17 GET `produto/_search?q=qtd:30`
- 18
- 19 GET `produto/_search?q=nome:mouse`
- 20
- 21
- 22 #-----#
- 23
- 24
- 25 GET `populacao/_search`
- 26
- 27 GET `concessionaria4/_search`
- 28
- 29 GET `populacao/_count`
- 30
- 31 GET `concessionaria4/_count`
- 32
- 33 GET `produto/_count`
- 34

The response for the first request is a JSON object:

```
{
  "produto": {
    "mappings": {
      "properties": {
        "descricao": {
          "type": "text",
          "fields": {
            "keyword": {
              "type": "keyword",
              "ignore_above": 256
            }
          }
        },
        "nome": {
          "type": "text",
          "fields": {
            "keyword": {
              "type": "keyword",
              "ignore_above": 256
            }
          }
        },
        "qtd": {
          "type": "long"
        }
      }
    }
  }
}
```

The status bar at the bottom of the console shows "200 - OK" and "30 ms". The Windows taskbar at the bottom of the screen shows the system clock at 19:28 and a battery level of 97%.

3. Visualizar o mapeamento do atributo nome do índice produto

The screenshot shows a web browser window with the Elastic Dev Tools console open. The browser's address bar shows the URL `localhost:5601/app/dev_tools#/console`. The console has tabs for Console, Search Profiler, Grok Debugger, and Painless Lab (marked BETA). The Console tab is active, showing a history of REST client requests and a JSON response for the selected request.

History:

- 1 GET `produto/_mapping/field/nome`
- 2 GET `produto/_mapping`
- 3 GET `produto/_settings`
- 4 #-----#
- 5 GET `_all/_search?&size=5&from=15`
- 6 GET `produto/_search?q=nome:memória&q=descricao:DDR4`
- 7 GET `produto/_search?q=nome:hd&q=descricao:windows`
- 8 GET `produto/_search?q=descricao:usb`
- 9 GET `produto/_search?q=qtd:30`
- 10 GET `produto/_search?q=nome:mouse`
- 11 #-----#
- 12 GET `populacao/_search`
- 13 GET `concessionaria4/_search`
- 14 GET `populacao/_count`
- 15 GET `concessionaria4/_count`

Response (200 - OK, 4420 ms):

```
{
  "produto": {
    "mappings": {
      "nome": {
        "full_name": "nome",
        "mapping": {
          "nome": {
            "type": "text",
            "fields": {
              "keyword": {
                "type": "keyword",
                "ignore_above": 256
              }
            }
          }
        }
      }
    }
  }
}
```


4. Inserir o campo data do tipo date no índice produto

The screenshot shows the DevTools console in a web browser. The console is displaying a series of REST client requests and responses. The first request is a PUT to `produto/_mapping` with a JSON body that adds a `date` type to the `data` field in the `properties` section. The response is a 200 OK status with a response time of 11080 ms. A tooltip "Click to send request" is visible over the first request. The console also shows several GET requests to `produto/_mapping/field/nome`, `produto/_mapping`, `produto/_settings`, and `produto/_search` with various query parameters.

Console Log:

```
1 PUT produto/_mapping
2 {
3   "properties": {
4     "data": {
5       "type": "date"
6     }
7   }
8 }
9
10 GET produto/_mapping/field/nome
11
12 GET produto/_mapping
13
14 GET produto/_settings
15
16 #-----#
17
18
19
20 GET _all/_search?&size=5&from=15
21
22 GET produto/_search?q=nome:memória&q=descricao:DDR4
23
24 GET produto/_search?q=nome:hd&q=descricao:windows
25
26 GET produto/_search?q=descricao:usb
27
28 GET produto/_search?q=qtd:30
29
30 GET produto/_search?q=nome:mouse
31
32
33 #-----#
34
```

Response:

```
1 {
2   "acknowledged" : true
3 }
4
```

200 - OK 11080 ms

Criado o data

Correção - Exercícios de Índic x Exercícios - Índices x localhost:9200 x Dev Tools - Elastic x MarceloFeliciani (Marcelo Fe x + - X

localhost:5601/app/dev_tools#/console

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Dev Tools

Console Search Profiler Grok Debugger Painless Lab BETA

History Settings Help

200 - OK 28 ms

```
1 GET produto/_mapping
2
3 PUT produto/_mapping
4 {
5   "properties":{
6     "data":{
7       "type":"date"
8     }
9   }
10 }
11
12 GET produto/_mapping/field/nome
13
14 GET produto/_mapping
15
16 GET produto/_settings
17
18 #-----#
19
20
21
22 GET _all/_search?&size=5&from=15
23
24 GET produto/_search?q=nome:memória&q=descricao:DDR4
25
26 GET produto/_search?q=nome:hd&q=descricao:windows
27
28 GET produto/_search?q=descricao:usb
29
30 GET produto/_search?q=qtd:30
31
32 GET produto/_search?q=nome:mouse
33
```

```
1 {
2   "produto": {
3     "mappings": {
4       "properties": {
5         "data": {
6           "type": "date"
7         },
8         "descricao": {
9           "type": "text",
10          "fields": {
11            "keyword": {
12              "type": "keyword",
13              "ignore_above": 256
14            }
15          }
16        },
17        "nome": {
18          "type": "text",
19          "fields": {
20            "keyword": {
21              "type": "keyword",
22              "ignore_above": 256
23            }
24          }
25        },
26        "qtd": {
27          "type": "long"
28        }
29      }
30    }
31  }
32 }
33
```

97% 19:47

5. Adicionar o documento:

`_id: 6, "nome": "teclado", "qtd": 100, "descricao": "USB", "data": "2020-09-18"`

The screenshot shows a web browser window with the address bar at `localhost:5601/app/dev_tools#/console`. The browser's tab bar includes several tabs, and the DevTools interface is open. The 'Console' tab is active, displaying a REST client history and a response.

REST Client History:

```
1 PUT produto/_doc/6
2 {
3   "nome": "teclado",
4   "qtd": 100,
5   "descricao": "USB",
6   "data": "2020-09-18"
7 }
8
9 GET produto/_mapping
10
11 PUT produto/_mapping
12 {
13   "properties": {
14     "data": {
15       "type": "date"
16     }
17   }
18 }
19
20 GET produto/_mapping/field/nome
21
22 GET produto/_mapping
23
24 GET produto/_settings
25
26
27 #-----#
28
29
30 GET _all/_search?&size=5&from=15
31
32 GET produto/_search?q=nome:memória&q=descricao:DDR4
33
```

Response (201 - Created, 6690 ms):

```
1 {
2   "_index" : "produto",
3   "_type" : "_doc",
4   "_id" : "6",
5   "_version" : 1,
6   "result" : "created",
7   "_shards" : {
8     "total" : 2,
9     "successful" : 1,
10    "failed" : 0
11  },
12   "_seq_no" : 6,
13   "_primary_term" : 1
14 }
```

The Windows taskbar at the bottom shows the system clock at 19:51 and a battery level of 97%.

6. Reindexar o índice produto para produto2, com o campo quantidade para o tipo short

1º Criar o Index produto2

The screenshot shows a web browser window with the DevTools console open. The address bar shows the URL `localhost:5601/app/dev_tools#/console`. The console has tabs for Console, Search Profiler, Grok Debugger, and Painless Lab. The Console tab is active, showing a list of requests and responses. A tooltip "Click to send request" is visible over the "Send" button (a blue play icon) for the first request.

The first request is a `PUT` to `produto2`. The response is a JSON object indicating the index was created successfully:

```
{
  "acknowledged": true,
  "shards_acknowledged": true,
  "index": "produto2"
}
```

The console also shows several other requests, including `PUT` for `produto/_doc/6` and `produto/_mapping`, and `GET` requests for `produto/_mapping/field/nome`, `produto/_mapping`, and `produto/_settings`.

Fiz uma cópia das propriedades do produto para o produto2. Alterei o type da qtd para short

The screenshot shows a web browser window with the DevTools console open. The browser's address bar shows the URL `localhost:5601/app/dev_tools#/console`. The DevTools console has tabs for Console, Search Profiler, Grok Debugger, and Painless Lab. The Console tab is active, showing a PUT request to `produto2/_mapping`. The request body is a JSON object with the following structure:

```
1 PUT produto2/_mapping
2 {
3   "properties": {
4     "data": {
5       "type": "date"
6     },
7     "descricao": {
8       "type": "text",
9       "fields": {
10        "keyword": {
11          "type": "keyword",
12          "ignore_above": 256
13        }
14      }
15    },
16    "nome": {
17      "type": "text",
18      "fields": {
19        "keyword": {
20          "type": "keyword",
21          "ignore_above": 256
22        }
23      }
24    },
25    "qtd": {
26      "type": "short"
27    }
28  }
29 }
30
31 PUT produto2
32 {
33   ...
34 }
```

The response from the server is a JSON object with the following structure:

```
1 {
2   "acknowledged" : true
3 }
4
```

The status bar at the bottom of the browser shows the battery level at 97% and the time as 19:59.

Reindex produto para produto2

Correção - Exercícios de Índic x Exercícios - Índices x localhost:9200 x Dev Tools - Elastic x MarceloFeliciani (Marcelo Fe x + -

localhost:5601/app/dev_tools#/console

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Dev Tools

Console Search Profiler Grok Debugger Painless Lab BETA

History Settings Help

200 - OK 2858 ms

```
1 POST _reindex
2 {
3   "source": {
4     "index": "produto"
5   },
6   "dest": {
7     "index": "produto2"
8   }
9 }
10
11 GET produto2/_mapping
12
13 PUT produto2/_mapping
14 {
15   "properties": {
16     "data": {
17       "type": "date"
18     },
19     "descricao": {
20       "type": "text",
21       "fields": {
22         "keyword": {
23           "type": "keyword",
24           "ignore_above": 256
25         }
26       }
27     },
28     "nome": {
29       "type": "text",
30       "fields": {
31         "keyword": {
32           "type": "keyword",
33           "ignore_above": 256
34         }
35       }
36     }
37   }
38 }
```

```
1 {
2   "took" : 630,
3   "timed_out" : false,
4   "total" : 4,
5   "updated" : 0,
6   "created" : 4,
7   "deleted" : 0,
8   "batches" : 1,
9   "version_conflicts" : 0,
10  "noops" : 0,
11  "retries" : {
12    "bulk" : 0,
13    "search" : 0
14  },
15  "throttled_millis" : 0,
16  "requests_per_second" : -1.0,
17  "throttled_until_millis" : 0,
18  "failures" : [ ]
19 }
20
```

97% 20:06

Documentos do produto2

Correção - Exercícios de Índic x Exercícios - Índices x localhost:9200 x Dev Tools - Elastic x MarceloFeliciani (Marcelo Fe x + - X

localhost:5601/app/dev_tools#/console

Apps Gmail REDEMET - Rede d... Comprima PDF onli... LinkedIn Brasil: entr... NiFi Apache Hadoop Ecossistema Kafka Apache Pentaho Server Elasticsearch » Lista de leitura

Dev Tools

Console Search Profiler Grok Debugger Painless Lab BETA

History Settings Help

200 - OK 1282 ms

```
1 GET produto2/_search
2
3 POST _reindex
4 {
5   "source": {
6     "index": "produto"
7   },
8   "dest": {
9     "index": "produto2"
10  }
11 }
12
13 GET produto2/_mapping
14
15 PUT produto2/_mapping
16 {
17   "properties": {
18     "data": {
19       "type": "date"
20     },
21     "descricao": {
22       "type": "text",
23       "fields": {
24         "keyword": {
25           "type": "keyword",
26           "ignore_above": 256
27         }
28       }
29     },
30     "nome": {
31       "type": "text",
32       "fields": {
33         "keyword": {
34           "type": "keyword",
35           "ignore_above": 256
36         }
37       }
38     }
39   }
40 }
```

```
1 {
2   "took": 1195,
3   "timed_out": false,
4   "_shards": {
5     "total": 1,
6     "successful": 1,
7     "skipped": 0,
8     "failed": 0
9   },
10  "hits": {
11    "total": {
12      "value": 4,
13      "relation": "eq"
14    },
15    "max_score": 1.0,
16    "hits": [
17      {
18        "_index": "produto2",
19        "_type": "_doc",
20        "_id": "1",
21        "_score": 1.0,
22        "_source": {
23          "nome": "mouse",
24          "qtd": 50,
25          "descricao": "com fio USB, compatível com Windows, Mac e Linux"
26        }
27      },
28      {
29        "_index": "produto2",
30        "_type": "_doc",
31        "_id": "2",
32        "_score": 1.0,
33        "_source": {
34          "nome": "teclado",
35          "qtd": 100,
36          "descricao": "teclado mecânico, sem fio, compatível com Windows, Mac e Linux"
37        }
38      }
39    ]
40  }
41 }
```

97% 20:08

Total de documentos do produto2

The screenshot shows a web browser window with the address bar at `localhost:5601/app/dev_tools#/console`. The browser's tab bar includes several tabs: "Correção - Exercícios de Índic...", "Exercícios - Índices", "localhost:9200", "Dev Tools - Elastic", and "MarceloFeliciani (Marcelo Fe...". The browser's bookmark bar contains links to "Apps", "Gmail", "REDEMET - Rede d...", "Comprima PDF onli...", "LinkedIn Brasil: entr...", "NiFi Apache", "Hadoop Ecossistema", "Kafka Apache", "Pentaho Server", "Elasticsearch", and "Lista de leitura".

The DevTools console is open, showing a "History" tab with a list of REST client requests:

- 1 GET produto2/_count
- 2 GET produto2/_search
- 3 POST _reindex
- 4 {
- 5 "source": {
- 6 "index": "produto"
- 7 },
- 8 "dest": {
- 9 "index": "produto2"
- 10 }
- 11 }
- 12 GET produto2/_mapping
- 13 PUT produto2/_mapping
- 14 {
- 15 "properties": {
- 16 "data": {
- 17 "type": "date"
- 18 },
- 19 "descricao": {
- 20 "type": "text",
- 21 "fields": {
- 22 "keyword": {
- 23 "type": "keyword",
- 24 "ignore_above": 256
- 25 }
- 26 }
- 27 },
- 28 "nome": {
- 29 "type": "text",
- 30 }
- 31 }
- 32 }
- 33 }

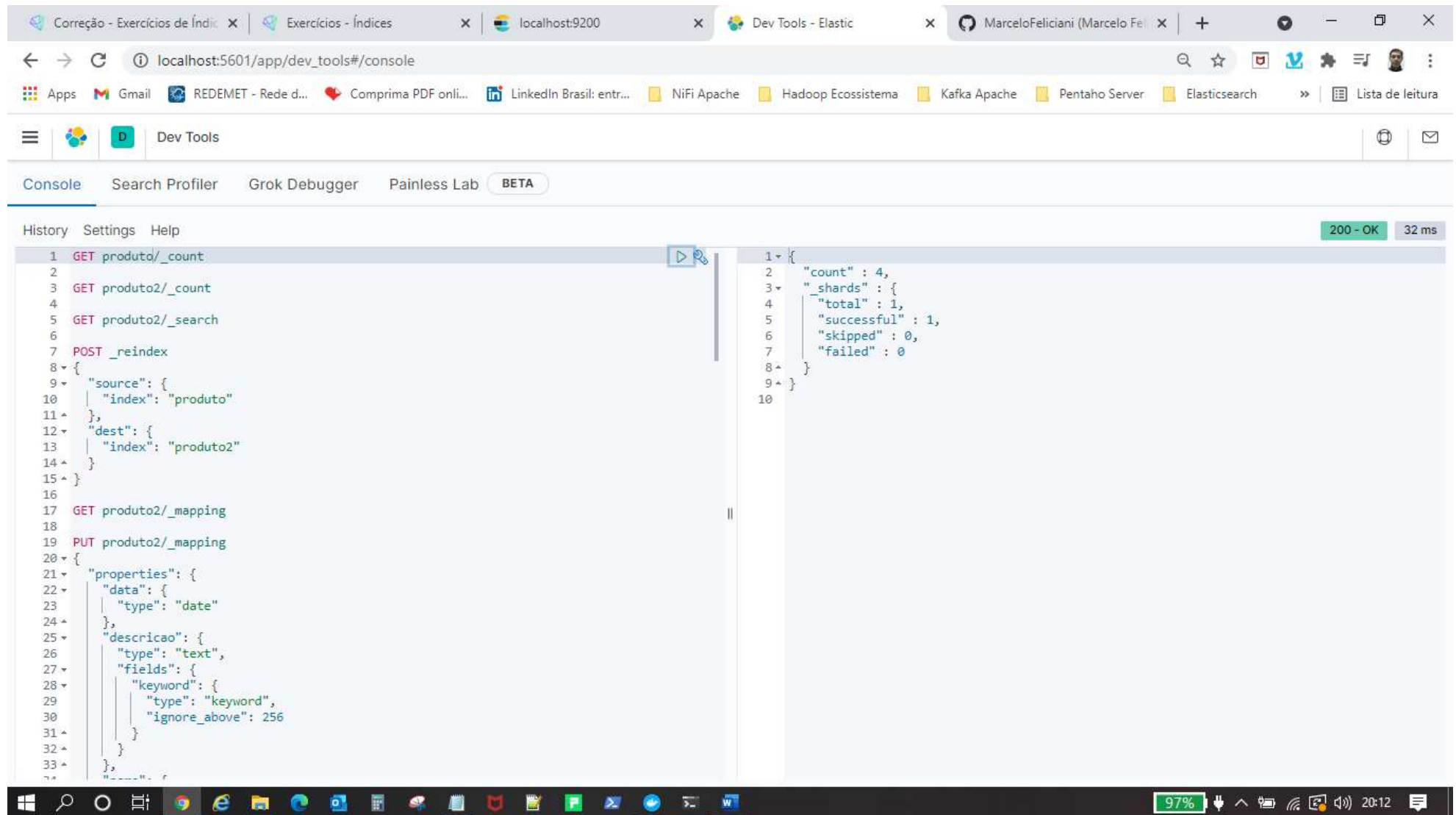
The right pane of the DevTools console shows the response for the selected request (line 1 of the history):

```
{
  "count": 4,
  "_shards": {
    "total": 1,
    "successful": 1,
    "skipped": 0,
    "failed": 0
  }
}
```

At the top right of the response pane, the status "200 - OK" and the response time "101 ms" are displayed. The Windows taskbar at the bottom shows the system clock at 20:11 and a battery level of 97%.

Total de documentos do produto

MESMA QUANTIDADE DO produto2



Correção - Exercícios de Índic x Exercícios - Índices x localhost:9200 x Dev Tools - Elastic x MarceloFeliciani (Marcelo Fe x + - x

localhost:5601/app/dev_tools#/console

Apps Gmail REDEMET - Rede d... Comprima PDF onli... LinkedIn Brasil: entr... NiFi Apache Hadoop Ecossistema Kafka Apache Pentaho Server Elasticsearch » Lista de leitura

Dev Tools

Console Search Profiler Grok Debugger Painless Lab BETA

History Settings Help

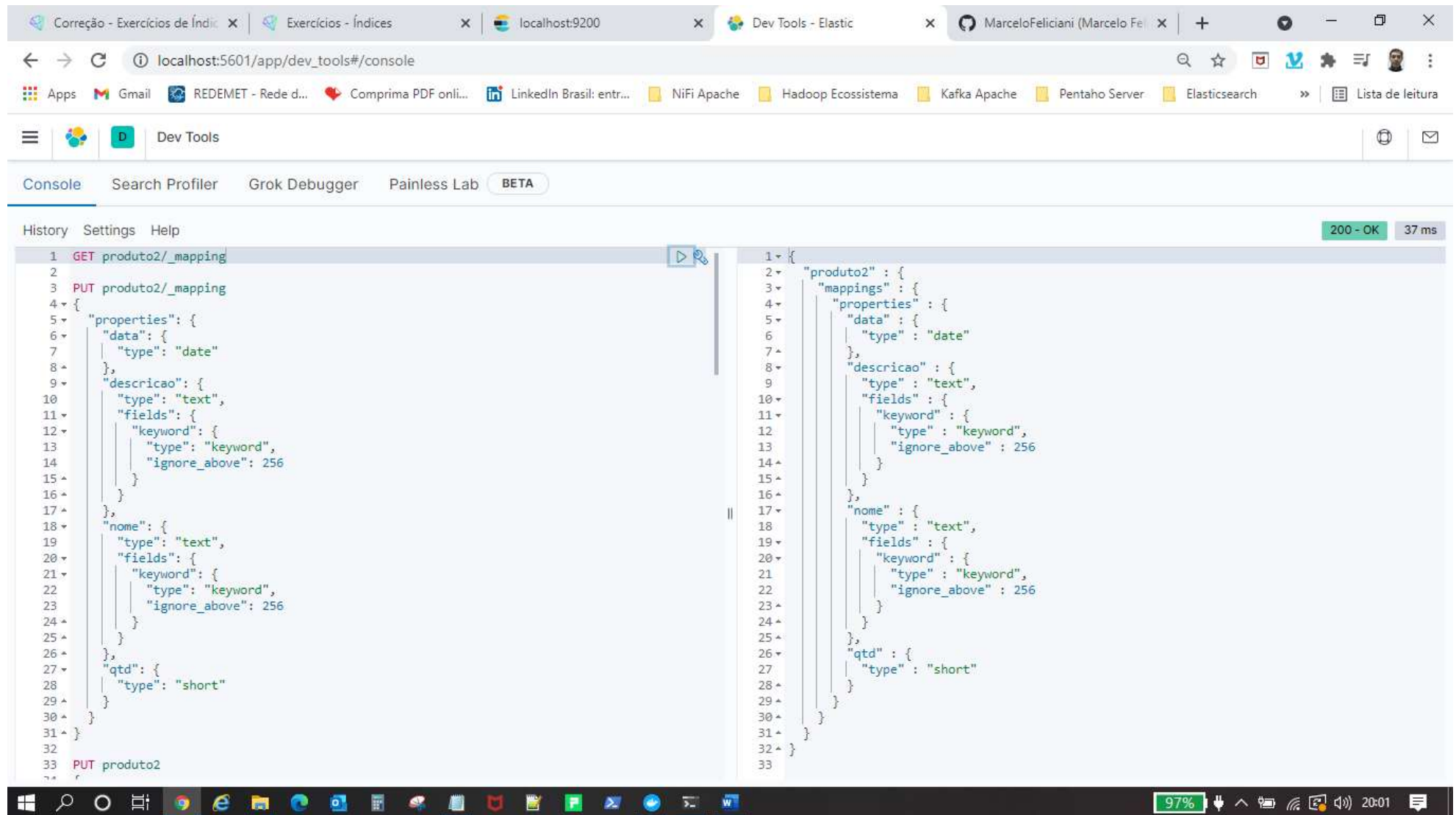
200 - OK 32 ms

```
1 GET produto/_count
2
3 GET produto2/_count
4
5 GET produto2/_search
6
7 POST _reindex
8 {
9   "source": {
10     "index": "produto"
11   },
12   "dest": {
13     "index": "produto2"
14   }
15 }
16
17 GET produto2/_mapping
18
19 PUT produto2/_mapping
20 {
21   "properties": {
22     "data": {
23       "type": "date"
24     },
25     "descricao": {
26       "type": "text",
27       "fields": {
28         "keyword": {
29           "type": "keyword",
30           "ignore_above": 256
31         }
32       }
33     }
34   }
35 }
```

```
1 {
2   "count" : 4,
3   "_shards" : {
4     "total" : 1,
5     "successful" : 1,
6     "skipped" : 0,
7     "failed" : 0
8   }
9 }
10
```

97% 20:12

7. Visualizar o mapeamento do índice produto2



The screenshot displays a web browser window with the Elastic Dev Tools console open. The console shows a GET request to `localhost:5601/app/dev_tools#/console` and the response for the `produto2/_mapping` endpoint. The response is a JSON object containing the mapping for the `produto2` index.

```
1 GET produto2/_mapping
2
3 PUT produto2/_mapping
4 {
5   "properties": {
6     "data": {
7       "type": "date"
8     },
9     "descricao": {
10      "type": "text",
11      "fields": {
12        "keyword": {
13          "type": "keyword",
14          "ignore_above": 256
15        }
16      }
17    },
18    "nome": {
19      "type": "text",
20      "fields": {
21        "keyword": {
22          "type": "keyword",
23          "ignore_above": 256
24        }
25      }
26    },
27    "qtd": {
28      "type": "short"
29    }
30  }
31 }
32
33 PUT produto2
```

The response JSON is as follows:

```
1 {
2   "produto2" : {
3     "mappings" : {
4       "properties" : {
5         "data" : {
6           "type" : "date"
7         },
8         "descricao" : {
9           "type" : "text",
10          "fields" : {
11            "keyword" : {
12              "type" : "keyword",
13              "ignore_above" : 256
14            }
15          }
16        },
17        "nome" : {
18          "type" : "text",
19          "fields" : {
20            "keyword" : {
21              "type" : "keyword",
22              "ignore_above" : 256
23            }
24          }
25        },
26        "qtd" : {
27          "type" : "short"
28        }
29      }
30    }
31  }
32 }
```

The status bar at the bottom of the console indicates a 200 OK response with a 37 ms execution time.

8. Fechar o índice produto

OS DADOS NÃO FICARÃO DISPONÍVEIS.

OS METADADOS PODEM SER VISUALIZADOS

The screenshot shows a web browser window with the address bar at `localhost:5601/app/dev_tools#/console`. The browser's tab bar includes several tabs, with the active one being "Dev Tools - Elastic". The browser's address bar also shows a search bar and various icons. Below the browser window, the DevTools console is open, displaying a REST client history on the left and a JSON response on the right.

The REST client history on the left shows a list of requests:

- 1 POST produto/_close
- 2 GET produto2/_mapping
- 3 GET produto/_count
- 4 GET produto2/_count
- 5 GET produto2/_search
- 6 POST _reindex
- 7 { "source": { "index": "produto" }, "dest": { "index": "produto2" } }
- 8 GET produto2/_mapping
- 9 PUT produto2/_mapping
- 10 { "properties": { "data": { "type": "date" }, "descricao": { "type": "text", "fields": { "keyword": { "type": "keyword" } } } }

The JSON response on the right is:

```
{
  "acknowledged": true,
  "shards_acknowledged": true,
  "indices": {
    "produto": {
      "closed": true
    }
  }
}
```

The status bar at the bottom of the console shows "200 - OK" and "29163 ms". A tooltip "Click to send request" is visible over the "Send" button in the REST client interface.

9. Pesquisar todos os documentos no índice produto

ELE ESTÁ FECHADO, ENTÃO NÃO CONSIGO FAZER A PESQUISA

The screenshot shows a web browser window with multiple tabs. The active tab is 'localhost:5601/app/dev_tools#/console'. The browser's address bar shows the URL 'localhost:5601/app/dev_tools#/console'. The page content displays a REST client interface with a list of requests on the left and a response on the right.

Requests List:

- 1 GET produto/_search
- 2 POST produto/_close
- 3 GET produto2/_mapping
- 4 GET produto/_count
- 5 GET produto2/_count
- 6 GET produto2/_search
- 7 POST _reindex
- 8 { "source": { "index": "produto" }, "dest": { "index": "produto2" } }
- 9 GET produto2/_mapping
- 10 PUT produto2/_mapping
- 11 { "properties": { "data": { "type": "date" }, "descricao": { "type": "text", "fields": { "..." } } } }

Response:

```
1 {
2   "error" : {
3     "root_cause" : [
4       {
5         "type" : "index_closed_exception",
6         "reason" : "closed",
7         "index_uuid" : "SX-JC33dQs2GfJT8kyejYg",
8         "index" : "produto"
9       }
10    ],
11    "type" : "index_closed_exception",
12    "reason" : "closed",
13    "index_uuid" : "SX-JC33dQs2GfJT8kyejYg",
14    "index" : "produto"
15  },
16  "status" : 400
17 }
18
```

The response status is 400 - Bad Request, and the response time is 672 ms.

10. Abrir o índice produto

OS DADOS ESTÃO LIBERADOS PARA ACESSO

The screenshot shows a web browser window with the address bar at `localhost:5601/app/dev_tools#/console`. The browser's tab bar includes several tabs, with the active one being 'Dev Tools - Elastic'. The browser's bookmark bar shows various links, including 'Apps', 'Gmail', 'REDEMET - Rede d...', 'Comprima PDF onli...', 'LinkedIn Brasil: entr...', 'NiFi Apache', 'Hadoop Ecossistema', 'Kafka Apache', 'Pentaho Server', 'Elasticsearch', and 'Lista de leitura'.

The DevTools interface is open, showing the 'Console' tab. The 'History' pane on the left lists a series of REST client requests:

- 1 POST produto/_open
- 2 GET produto/_search
- 4 POST produto/_close
- 6 GET produto2/_mapping
- 8 GET produto/_count
- 10 GET produto2/_count
- 12 GET produto2/_search
- 14 POST _reindex
- 16 {
- 17 | "source": {
- 18 | | "index": "produto"
- 19 | },
- 20 | "dest": {
- 21 | | "index": "produto2"
- 22 | }
- 23 }
- 24
- 25 GET produto2/_mapping
- 26
- 27 PUT produto2/_mapping
- 28 {
- 29 | "properties": {
- 30 | | "data": {
- 31 | | | "type": "date"
- 32 | | },
- 33 | | "descricao": {
- 34 | | | "type": "text"
- 35 | | }
- 36 | }
- 37 }

The 'Response' pane on the right shows a JSON object:

```
{
  "acknowledged": true,
  "shards_acknowledged": true
}
```

At the top right of the response pane, the status '200 - OK' and the time '5054 ms' are displayed. The Windows taskbar at the bottom shows the system clock at 20:19 and a battery level of 97%.