

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,		elastic_logstash_1			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		elastic_kibana_1			
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,		elastic_elasticsearch_1			9300/tcp

Docker



 docker




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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

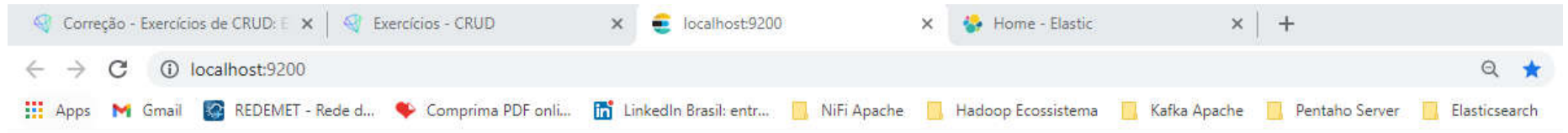
 **elastic_elasticsearch_1**
docker.elastic.co/elasticsearch/elasticsearch:7.9.2
RUNNING PORT: 9200

```
dest":"empty","referrer":"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","referrer":"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_RNH51SQVYOsVZ61x-zMg", "node.id": "IOMovYK2T0eNK1jQUwWviA" }
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_RNH51SQVYOsVZ61x-zMg", "node.id": "IOMovYK2T0eNK1jQUwWviA" }
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_RNH51SQVYOsVZ61x-zMg", "node.id": "IOMovYK2T0eNK1jQUwWviA" }
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_RNH51SQVYOsVZ61x-zMg", "node.id": "IOMovYK2T0eNK1jQUwWviA" }
```

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 the Kibana web interface in a browser window. The browser's address bar displays `localhost:5601/app/home#`. The browser's tab bar includes several open tabs: "Correção - Exercícios de CRUD: E", "Exercícios - CRUD", "localhost:9200", and "Home - Elastic". The browser's bookmark bar shows various links including "Apps", "Gmail", "REDEMET - Rede d...", "Comprima PDF onli...", "LinkedIn Brasil: entr...", "NiFi Apache", "Hadoop Ecosystema", "Kafka Apache", "Pentaho Server", and "Elasticsearch".

The Kibana interface features a left-hand navigation sidebar with the following sections:

- Home** (selected)
- Recently viewed**: No recently viewed items.
- Kibana**: Discover, Dashboard, Canvas, Maps, Machine Learning, Visualize.
- Enterprise Search**: App Search, Workplace Search.
- Observability**: Overview, Logs.

The main content area displays several cards for data ingestion and management:

- Logs**: Ingest logs from popular data sources and easily visualize in preconfigured dashboards. Includes an "Add log data" button.
- Metrics**: Collect metrics from the operating system and services running on your servers. Includes an "Add metric data" button.
- Security**: SIEM + Endpoint Security. Protect hosts, analyze security information and events, hunt threats, automate detections, and create cases. Includes an "Add events" button.
- Add sample data**: Set up a sample data source and a Kibana dashboard.
- Upload data from log file**: Import a CSV, NDJSON, or log file.
- Use Elasticsearch data**: Connect to your Elasticsearch index.

The bottom section of the interface is divided into two main areas:

- Explore Data**: Includes **App Search** (Leverage dashboards, analytics, and APIs for advanced application monitoring).
- Manage and Administer the Elastic Stack**: Includes **Console** (Skip cURL and use this JSON interface to work with your data directly) and **Rollups** (Summarize and store historical data in a smaller index for future analysis).

Exercitando Agregações

Acessar o MENU -> Dev Tools

The screenshot shows the Elastic Kibana interface in a web browser. The browser's address bar displays `localhost:5601/app/home#`. The Kibana sidebar on the left contains the following menu items:

- Home
- Recently viewed (No recently viewed items)
- Security
 - Overview
 - Detections
 - Hosts
 - Network
 - Timelines
 - Cases
 - Administration
- Management
 - Dev Tools (highlighted)
 - Ingest Manager
 - Stack Monitoring
 - Stack Management

The main content area shows the 'Home' dashboard with sections for Logs, Metrics, and Security. The 'Dev Tools' menu item is highlighted, and the browser's address bar shows the path `localhost:5601/app/dev_tools`.

Realizar os exercícios no índice bolsa

1. Calcular a média do campo volume

The screenshot shows a web browser window with the Elastic Dev Tools console open. The browser tabs include 'Correção - Exercícios de Agregação', 'Exercícios - Agregações', 'localhost:9200', and 'Dev Tools - Elastic'. The address bar shows 'localhost:5601/app/dev_tools#/console'. The console has tabs for 'Console', 'Search Profiler', 'Grok Debugger', 'Painless Lab', and 'BETA'. The 'Console' tab is active, showing a history of commands and their results.

The first command in the history is a GET request to `bolsa/_search` with the following JSON body:

```
1 GET bolsa/_search
2 {
3   "size": 0,
4   "aggs": {
5     "media": {
6       "avg": {
7         "field": "volume"
8       }
9     }
10  }
11 }
```

The response to this query is shown on the right side of the console:

```
1 {
2   "took" : 319,
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" : 1111,
13      "relation" : "eq"
14    },
15    "max_score" : null,
16    "hits" : [ ]
17  },
18  "aggregations" : {
19    "media" : {
20      "value" : 2.2785241222772276E8
21    }
22  }
23 }
```

The second command in the history is a GET request to `produto/_search` with the following JSON body:

```
18 GET produto/_search
19 {
20   "query": {
21     "match": {
22       "descricao": "compativel"
23     }
24   }
25 }
```

The third command in the history is a PUT request to `produto` with the following JSON body:

```
28 PUT produto
29 {
30   "settings": {
31     "index": {
32       "number_of_shards": "1",
33       "number_of_replicas": "0"
34     }
35   }
36 }
```

The bottom of the screen shows the Windows taskbar with various application icons and a system tray displaying 99% battery, network status, and the time 14:47.

2. Calcular a estatística do campo close

The screenshot shows the Elastic Dev Tools console with a query and its response.

Query:

```
1 GET bolsa/_search
2 {
3   "size": 0,
4   "aggs": {
5     "media": {
6       "stats": {
7         "field": "close"
8       }
9     }
10  }
11 }
12
13 GET bolsa/_search
14 {
15   "size": 0,
16   "aggs": {
17     "media": {
18       "avg": {
19         "field": "volume"
20       }
21     }
22   }
23 }
24
25 -----
26
27
28
29
30 GET produto/_search
31 {
32   "query": {
33     "match": {
```

Response:

```
1 {
2   "took" : 932,
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" : 1111,
13      "relation" : "eq"
14    },
15    "max_score" : null,
16    "hits" : [ ]
17  },
18  "aggregations" : {
19    "media" : {
20      "count" : 1111,
21      "min" : 15.28,
22      "max" : 178.13,
23      "avg" : 49.94570477047705,
24      "sum" : 55489.678
25    }
26  }
27 }
28
```

The response status is 200 - OK and the execution time is 950 ms.

3. Visualizar os documentos do dia 2019-04-01 até agora. (hits = 3)

The screenshot shows a web browser with the URL `localhost:5601/app/dev_tools#/console`. The browser tabs include "Correção - Exercícios de Agregação", "Exercícios - Agregações", "localhost:9200", and "Dev Tools - Elastic". The browser's address bar shows the URL. The browser's toolbar includes icons for Apps, Gmail, REDEMET - Rede d..., Comprima PDF onli..., LinkedIn Brasil: entr..., NiFi Apache, Hadoop Ecossistema, Kafka Apache, Pentaho Server, Elasticsearch, and a "Lista de leitura" button.

The Dev Tools interface is open, showing the "Console" tab. The "History" tab is also visible. The console displays three queries and their results:

```
1 GET bolsa/_search
2 {
3   "query": {
4     "range": {
5       "@timestamp": {
6         "gte": "2019-04-01",
7         "lte": "now"
8       }
9     }
10  }
11 }
12
13 GET bolsa/_search
14 {
15   "size": 0,
16   "aggs": {
17     "media": {
18       "stats": {
19         "field": "close"
20       }
21     }
22   }
23 }
24
25 GET bolsa/_search
26 {
27   "size": 0,
28   "aggs": {
29     "media": {
30       "avg": {
31         "field": "volume"
32       }
33     }
34   }
35 }
```

The results of the queries are displayed on the right side of the console. The first query returns three documents, each representing a stock market entry for the date 2019-04-17. The second query returns one document, representing a stock market entry for the date 2019-04-12. The third query returns one document, representing a stock market entry for the date 2019-04-05.

The first document (line 26) has the following fields:

```
26 "low": 120.1,
27 "close": 121.77,
28 "open": 120.94,
29 "timestamp": "2019-04-17"
```

The second document (line 32) has the following fields:

```
32 {
33   "_index": "bolsa",
34   "_type": "_doc",
35   "_id": "EmEw_Hk8zUroh1c2ypUT",
36   "_score": 1.0,
37   "_source": {
38     "volume": 83159600,
39     "high": 120.98,
40     "@timestamp": "2019-04-12T00:00:00.000-03:00",
41     "low": 118.58,
42     "close": 120.95,
43     "open": 119.81,
44     "timestamp": "2019-04-12"
45   }
46 }
```

The third document (line 47) has the following fields:

```
47 {
48   "_index": "bolsa",
49   "_type": "_doc",
50   "_id": "E2Ew_Hk8zUroh1c2ypUT",
51   "_score": 1.0,
52   "_source": {
53     "volume": 99731237,
54     "high": 120.43,
55     "@timestamp": "2019-04-05T00:00:00.000-03:00",
56     "low": 118.1,
57     "close": 119.89,
58     "open": 118.95,
59     "timestamp": "2019-04-05"
60 }
```

The bottom of the screen shows the Windows taskbar with various application icons and a system tray showing 99% battery, network status, and the time 14:52.

4. Calcular a estatística do campo open do período do dia 2019-04-01 até agora

Mostra os documentos pesquisados e a estatística dela

The screenshot shows the Elastic Dev Tools interface in a web browser. The console displays a series of GET requests to the `bolsa/_search` endpoint. The first request includes a range query for the `@timestamp` field from `2019-04-01` to `now`, and an aggregation named `estatistica` with a `stats` sub-aggregation on the `open` field. The response shows individual documents with fields like `low`, `close`, `open`, and `timestamp`. The second request is identical but without the aggregation. The third request is partially visible. A tooltip "Click to send request" points to the send button. The status bar at the bottom shows "200 - OK" and "683 ms".

```
1 GET bolsa/_search
2 {
3   "query": {
4     "range": {
5       "@timestamp": {
6         "gte": "2019-04-01",
7         "lte": "now"
8       }
9     }
10  },
11  "aggs": {
12    "estatistica": {
13      "stats": {
14        "field": "open"
15      }
16    }
17  }
18 }
19
20 GET bolsa/_search
21 {
22   "query": {
23     "range": {
24       "@timestamp": {
25         "gte": "2019-04-01",
26         "lte": "now"
27       }
28     }
29   }
30 }
31
32 GET bolsa/_search
33 {
```

```
41   "low": 118.95,
42   "close": 120.95,
43   "open": 119.81,
44   "timestamp": "2019-04-12"
45 },
46 },
47 {
48   "_index": "bolsa",
49   "_type": "_doc",
50   "_id": "E2Ew_Hk8zUroh1c2ypUT",
51   "_score": 1.0,
52   "_source": {
53     "volume": 99731237,
54     "high": 120.43,
55     "@timestamp": "2019-04-05T00:00:00.000-03:00",
56     "low": 118.1,
57     "close": 119.89,
58     "open": 118.95,
59     "timestamp": "2019-04-05"
60   }
61 },
62 },
63 },
64 "aggregations": {
65   "estatistica": {
66     "count": 3,
67     "min": 118.95,
68     "max": 120.94,
69     "avg": 119.89999999999999,
70     "sum": 359.7
71   }
72 }
73 }
74 }
```

200 - OK 683 ms

99% 14:55

Se colocar size 0 mostra apenas a estatística dos documentos pesquisados.

The screenshot shows the Elastic Dev Tools console in a web browser. The browser tabs include 'Correção - Exercícios de Agregação', 'Exercícios - Agregações', 'localhost:9200', and 'Dev Tools - Elastic'. The address bar shows 'localhost:5601/app/dev_tools#/console'. The console has tabs for 'Console', 'Search Profiler', 'Grok Debugger', 'Painless Lab', and 'BETA'. The 'Console' tab is active, showing a history of commands and their results.

The first command in the history is a GET request to `bolsa/_search` with the following query:

```
1 GET bolsa/_search
2 {
3   "size": 0,
4   "query": {
5     "range": {
6       "@timestamp": {
7         "gte": "2019-04-01",
8         "lte": "now"
9       }
10    }
11  },
12  "aggs": {
13    "estatistica": {
14      "stats": {
15        "field": "open"
16      }
17    }
18  }
19 }
```

The second command is another GET request to `bolsa/_search` with the same query structure, but with a different aggregation configuration:

```
22 GET bolsa/_search
23 {
24   "query": {
25     "range": {
26       "@timestamp": {
27         "gte": "2019-04-01",
28         "lte": "now"
29       }
30     }
31   },
32   "aggs": {
33     "estatistica": {
34       "stats": {
35         "field": "open"
36       }
37     }
38   }
39 }
```

The response for the first query is shown on the right side of the console:

```
1 {
2   "took": 1,
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": 3,
13      "relation": "eq"
14    },
15    "max_score": null,
16    "hits": [ ]
17  },
18  "aggregations": {
19    "estatistica": {
20      "count": 3,
21      "min": 118.95,
22      "max": 120.94,
23      "avg": 119.89999999999999,
24      "sum": 359.7
25    }
26  }
27 }
```

The console status bar at the bottom right shows '200 - OK' and '337 ms'.

5. Calcular a mediana do campo open

Não existe mediana

A media aparece no 50% = 35,63

The screenshot displays the Elasticsearch Dev Tools interface. The left pane shows a GET request to `/bolsa/_search` with the following JSON body:

```
1 GET bolsa/_search
2 {
3   "size": 0,
4   "aggs": {
5     "mediana": {
6       "percentiles": {
7         "field": "open",
8         "percents": [
9           1,
10          5,
11          25,
12          50,
13          75,
14          95,
15          99
16        ]
17      }
18    }
19  }
20 }
```

The right pane shows the JSON response, with the median value for the 50th percentile highlighted:

```
1 {
2   "took" : 1311,
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" : 1111,
13      "relation" : "eq"
14    },
15    "max_score" : null,
16    "hits" : [ ]
17  },
18  "aggregations" : {
19    "mediana" : {
20      "values" : {
21        "1.0" : 19.0486,
22        "5.0" : 23.7915,
23        "25.0" : 27.05438454545454,
24        "50.0" : 35.6325641025641,
25        "75.0" : 65.06527777777778,
26        "95.0" : 109.10950000000001,
27        "99.0" : 151.07500000000005
28      }
29    }
30  }
31 }
```

The status bar at the bottom indicates 200 - OK and 1741 ms.

6. Contar a quantidade de documentos agrupados por ano

Correção - Exercícios de Agregação x Exercícios - Agregações x localhost:9200 x Dev Tools - Elastic 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

Click to send request

200 - OK 3530 ms

```
1 GET bolsa/_search
2 {
3   "size": 0
4   , "aggs": {
5     "doc_anos": {
6       "date_histogram": {
7         "field": "@timestamp",
8         "calendar_interval": "year"
9       }
10    }
11  }
12 }

14 GET bolsa/_search
15 {
16   "size": 0
17   , "aggs": {
18     "mediana": {
19       "percentiles": {
20         "field": "open",
21         "percents": [
22           1,
23           5,
24           25,
25           50,
26           75,
27           95,
28           99
29         ]
30       }
31     }
32   }
33 }
```

```
12   "value": 1111,
13   "relation": "eq"
14 },
15   "max_score": null,
16   "hits": [ ]
17 },
18   "aggregations": {
19     "doc_anos": {
20       "buckets": [
21         {
22           "key_as_string": "1998-01-01T00:00:00.000Z",
23           "key": 883612800000,
24           "doc_count": 52
25         },
26         {
27           "key_as_string": "1999-01-01T00:00:00.000Z",
28           "key": 915148800000,
29           "doc_count": 52
30         },
31         {
32           "key_as_string": "2000-01-01T00:00:00.000Z",
33           "key": 946684800000,
34           "doc_count": 52
35         },
36         {
37           "key_as_string": "2001-01-01T00:00:00.000Z",
38           "key": 978307200000,
39           "doc_count": 52
40         },
41         {
42           "key_as_string": "2002-01-01T00:00:00.000Z",
43           "key": 1009843200000,
44           "doc_count": 52
45         }
46       ]
47     }
48   }
49 }
```

99% 15:02

7. Contar a quantidade de documentos de 2 anos atrás até hoje

The screenshot shows a web browser window with the address bar at `localhost:5601/app/dev_tools#/console`. The browser tabs include "Correção - Exercícios de Agregação", "localhost:9200", and "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 DevTools console is open, showing a "Console" tab. It displays three Elasticsearch queries and their corresponding JSON responses. The status bar at the top right of the console indicates "200 - OK" and "151 ms".

Query 1:

```
1 GET bolsa/_search
2 {
3   "size": 0,
4   "aggs": {
5     "qtd_2anos": {
6       "date_range": {
7         "field": "@timestamp",
8         "ranges": [
9           {
10            "from": "now-2y",
11            "to": "now"
12          }
13        ]
14      }
15    }
16  }
17 }
```

Query 2:

```
19 GET bolsa/_search
20 {
21   "size": 0
22   "aggs": {
23     "doc_anos": {
24       "date_histogram": {
25         "field": "@timestamp",
26         "calendar_interval": "year"
27       }
28     }
29   }
30 }
31
```

Query 3:

```
32 GET bolsa/_search
33 {
34   "size": 0,
35   "aggs": {
36     "qtd_2anos": {
37       "date_range": {
38         "field": "@timestamp",
39         "ranges": [
40           {
41             "from": "now-2y",
42             "to": "now"
43           }
44         ]
45       }
46     }
47   }
48 }
```

Response 1:

```
1 {
2   "took": 1,
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": 1111,
13      "relation": "eq"
14    },
15    "max_score": null,
16    "hits": [ ]
17  },
18  "aggregations": {
19    "qtd_2anos": {
20      "buckets": [
21        {
22          "key": "2019-06-14T19:32:50.747Z-2021-06-14T19:32:50.747Z",
23          "from": 1.560540770747E12,
24          "from_as_string": "2019-06-14T19:32:50.747Z",
25          "to": 1.623699170747E12,
26          "to_as_string": "2021-06-14T19:32:50.747Z",
27          "doc_count": 0
28        }
29      ]
30    }
31  }
32 }
```

The Windows taskbar at the bottom shows the system clock as 16:34 and a battery level of 99%.