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
```

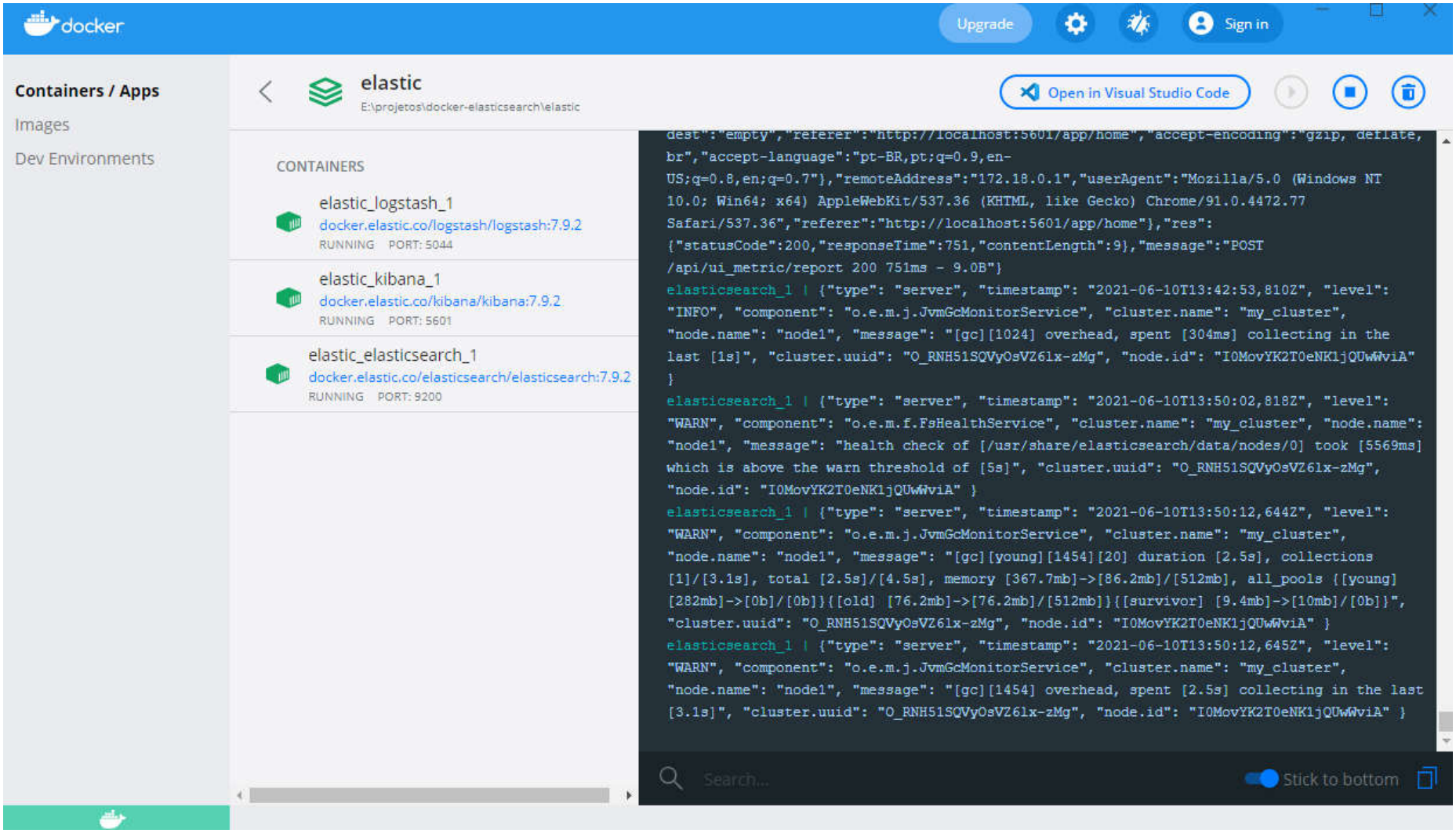
Docker Desktop Windows

```
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
```

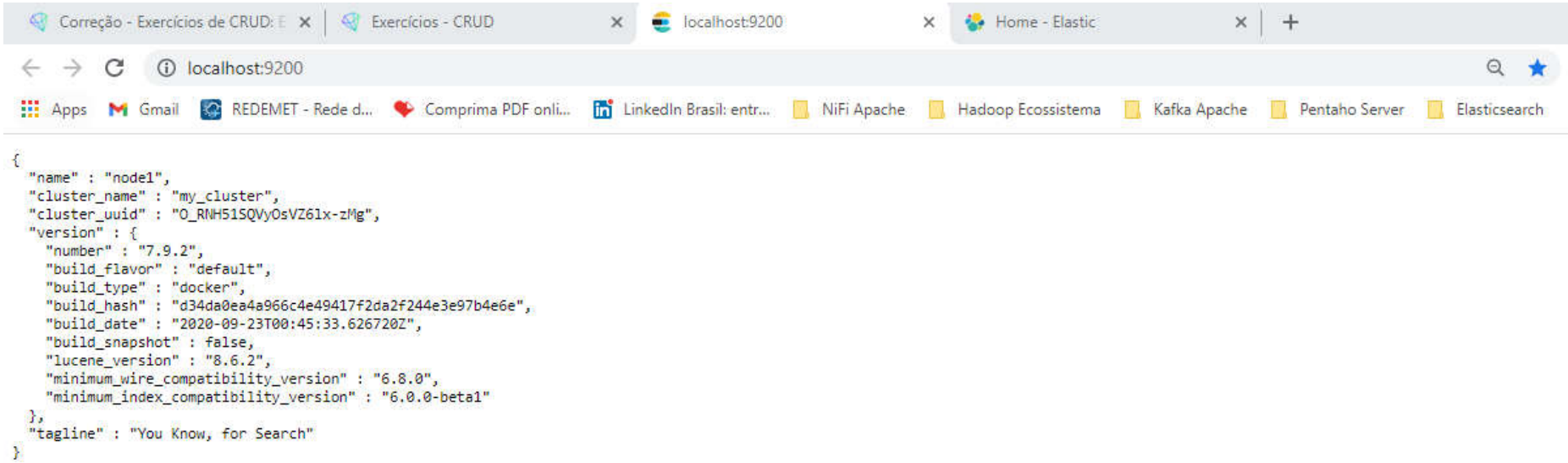
```
PS E:\projetos\docker-elasticsearch\elastic> docker ps
CONTAINER ID   IMAGE                                                  COMMAND                  CREATED        STATUS          PORTS                                                                                  NAMES
d3d012693acc   docker.elastic.co/logstash/logstash:7.9.2              "/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   elastic_logstash_1
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, 9300/tcp                                    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_RNH51SQVyOsVZ61x-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_RNH51SQVyOsVZ61x-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_RNH51SQVyOsVZ61x-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_RNH51SQVyOsVZ61x-zMg", "node.id": "I0MovYK2T0eNK1jQUwWviA" }
Search...
Stick to bottom

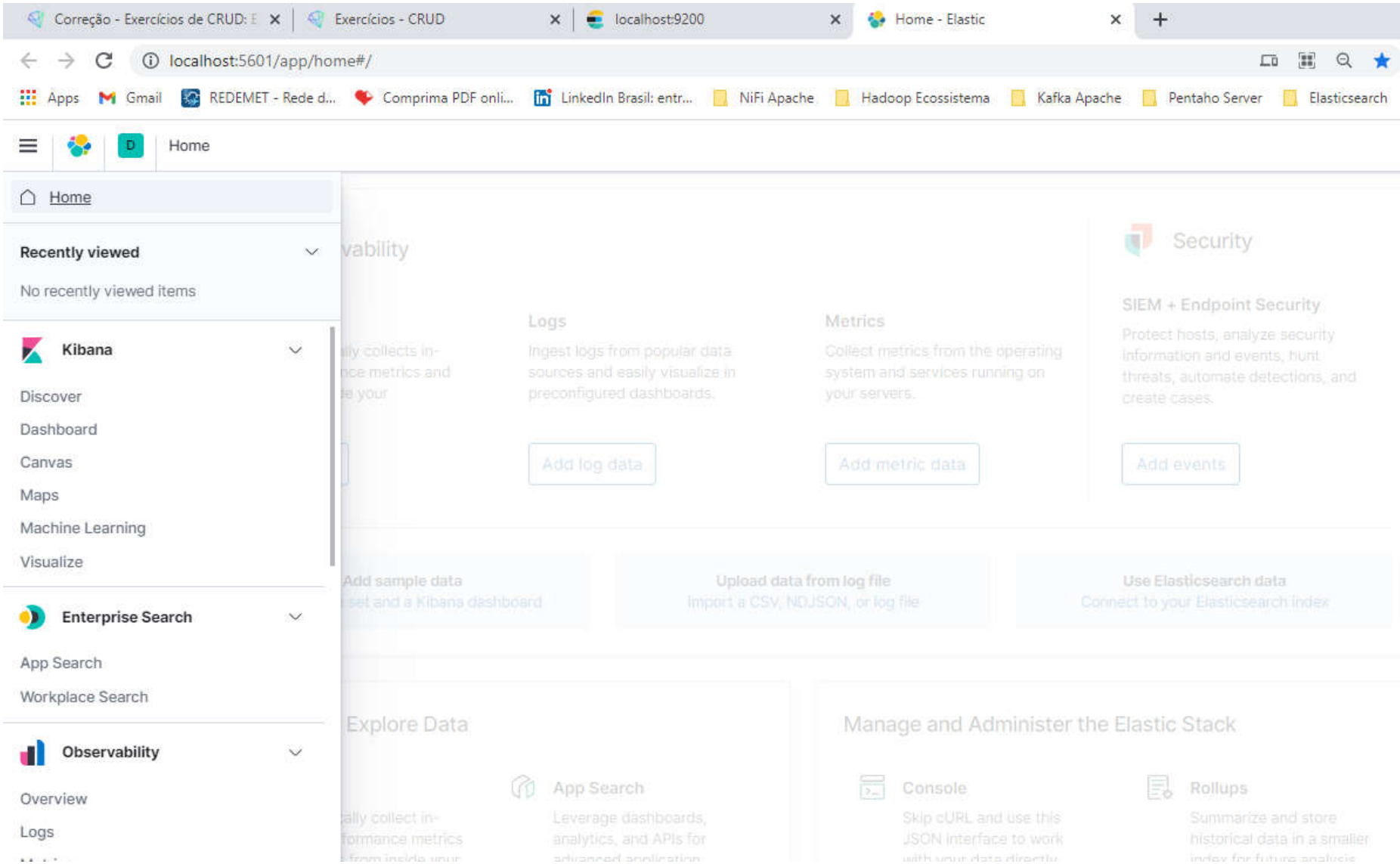
Acessado o Elasticsearch

http://localhost:9200



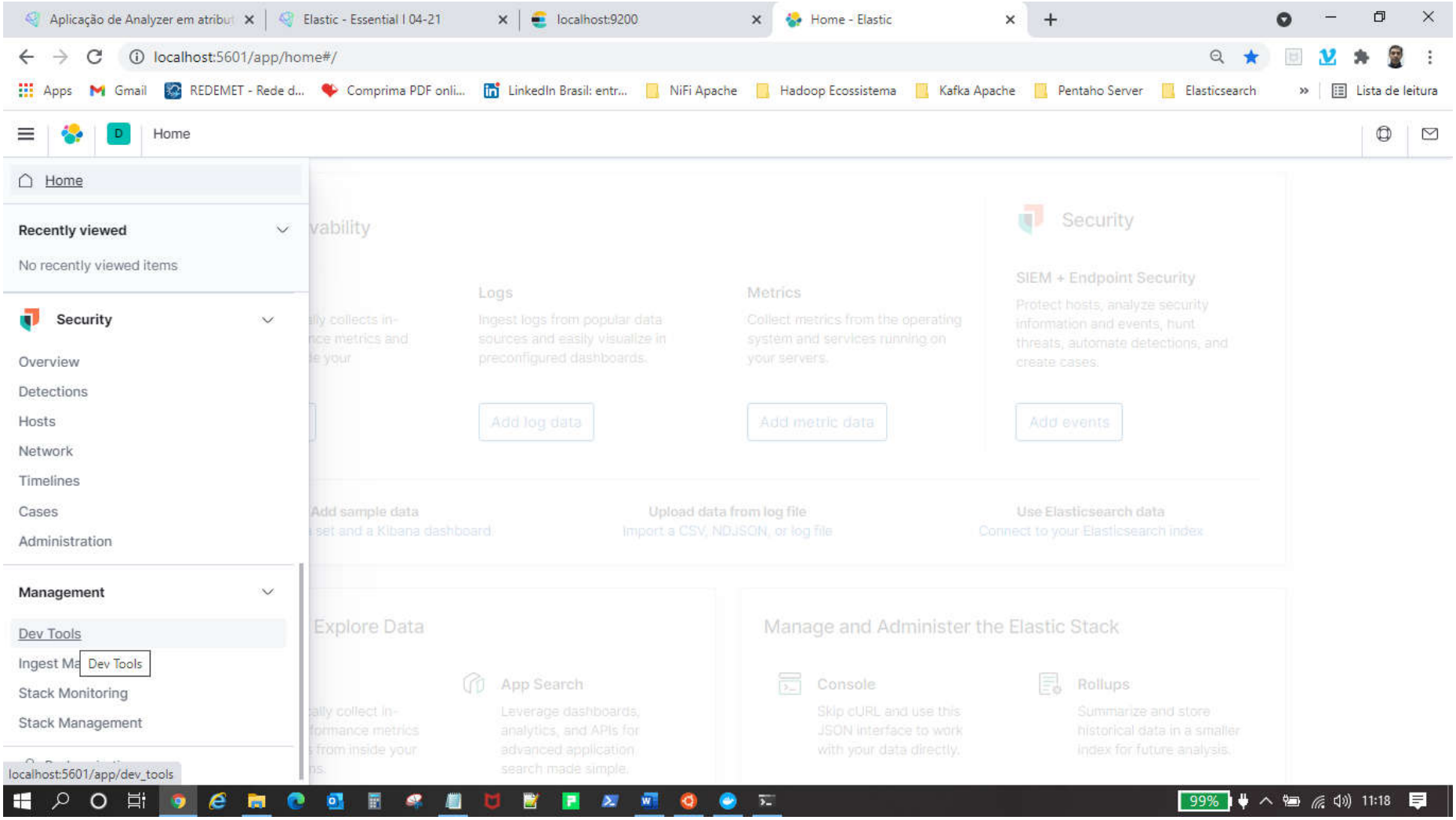
Acessando o KIBANA

http://localhost:5601



Exercitando Analyzer

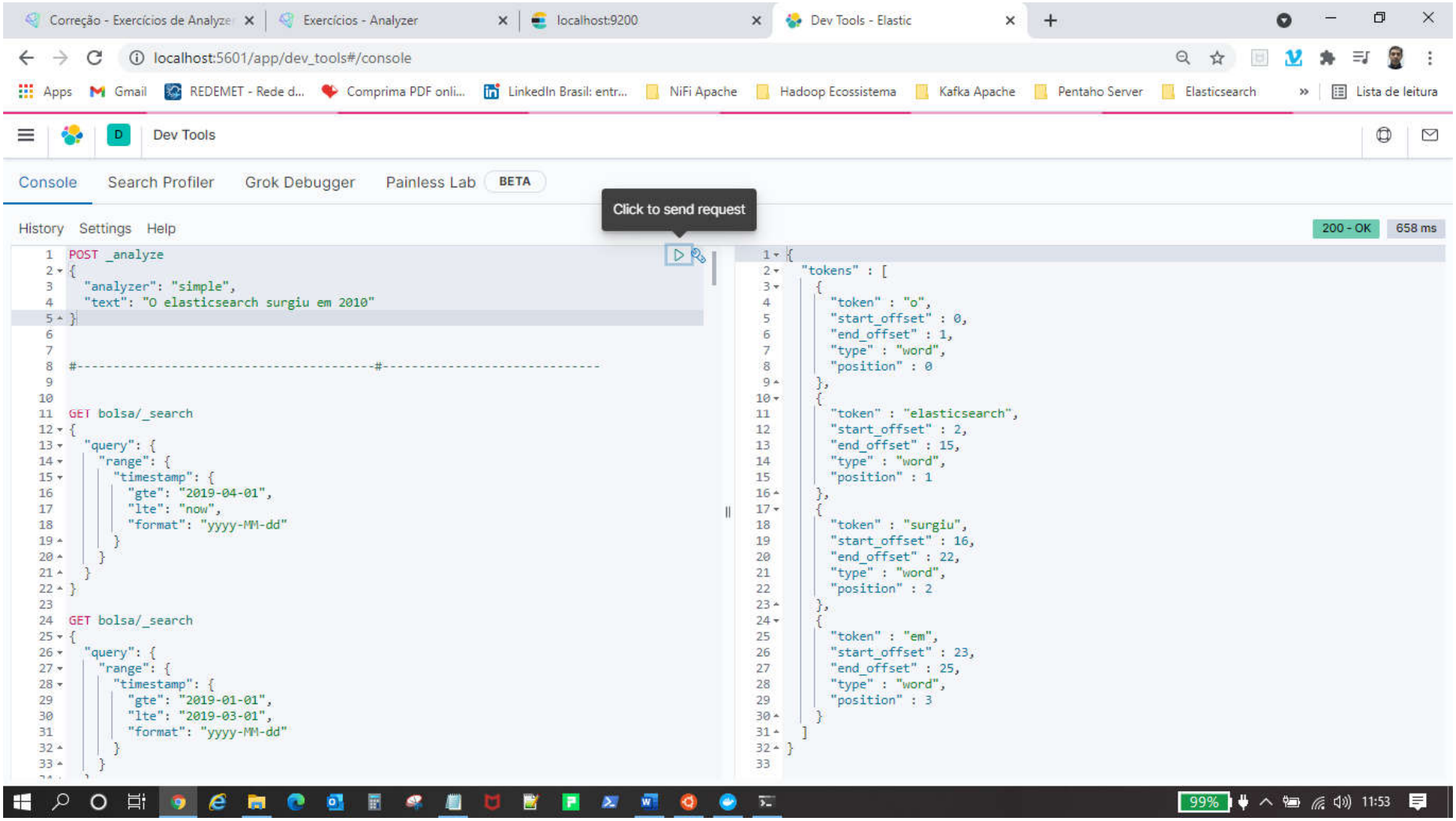
Acessar o MENU -> Dev Tools



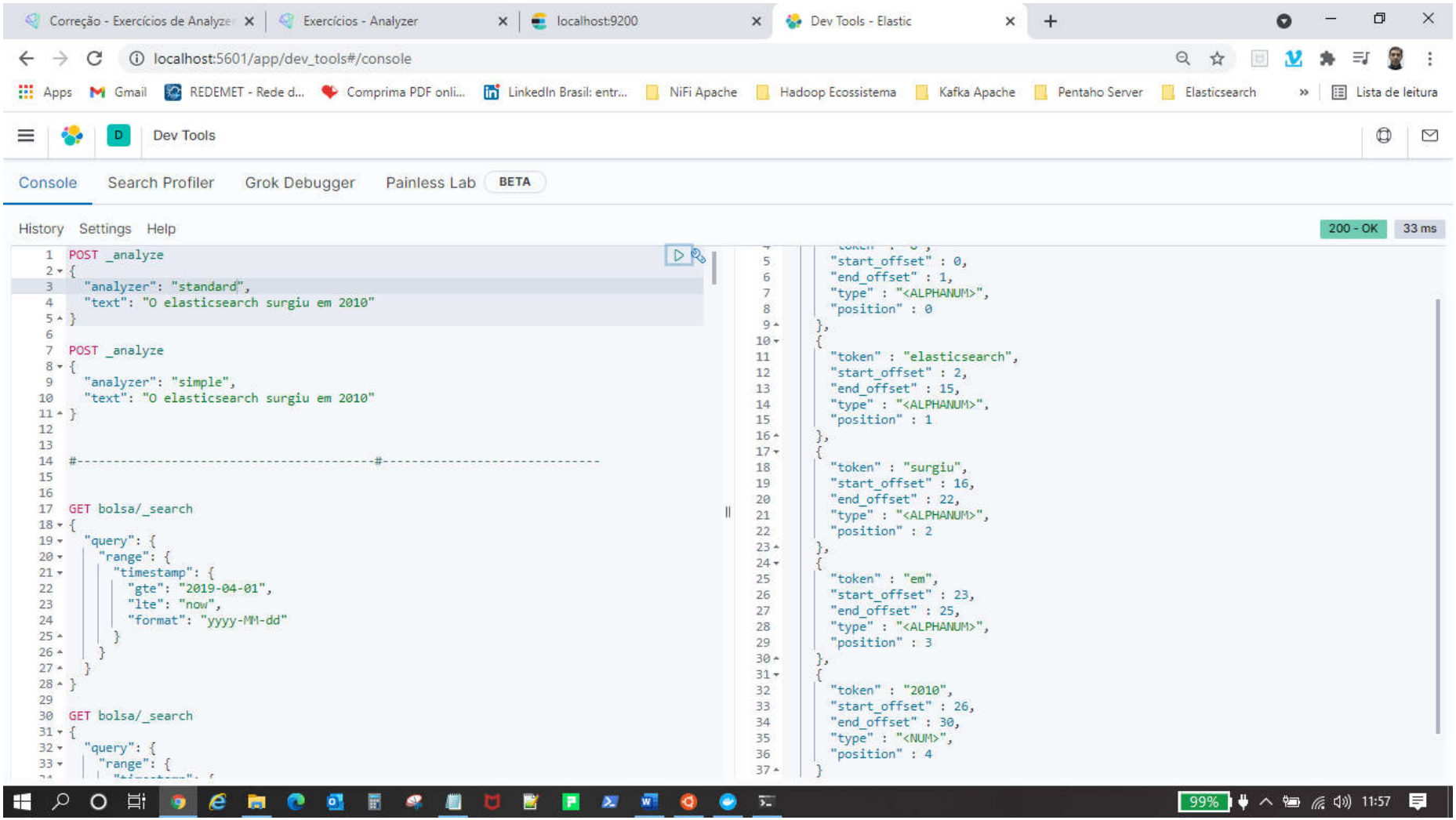
1. Criar os Analyzer simple, standard, brazilian e portuguese para a seguinte frase:

- O elasticsearch surgiu em 2010

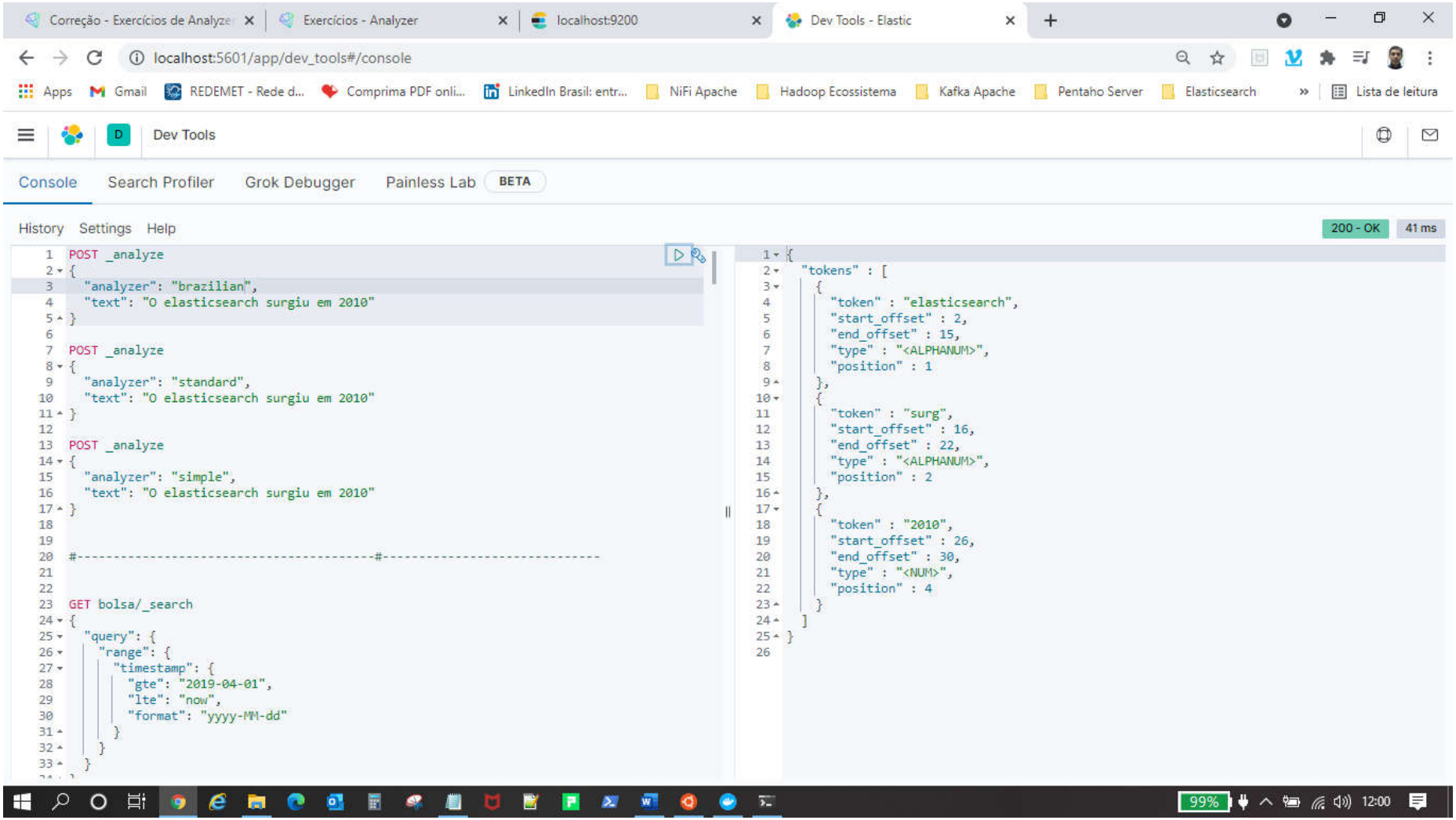
O **simple** deixa tudo minúsculo, remove os números. Por exemplo, 2010 não existe no print abaixo



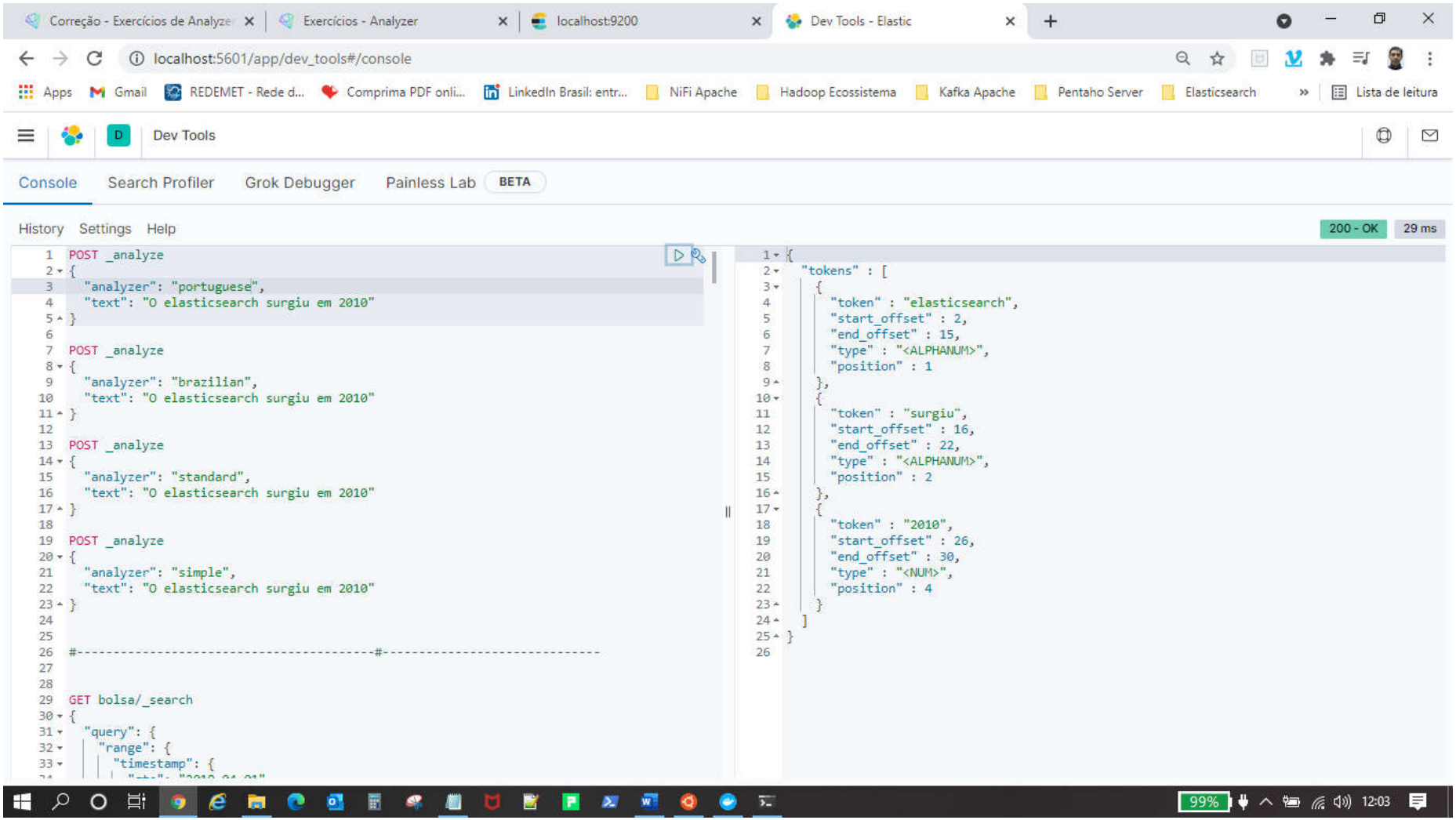
Com **standard**, todas as letras ficam minúsculas e mantém os números



Com o analyzer **brazilian**, retirou o “o”, “em” e reduziu a palavra surgiu, deixando na forma raiz



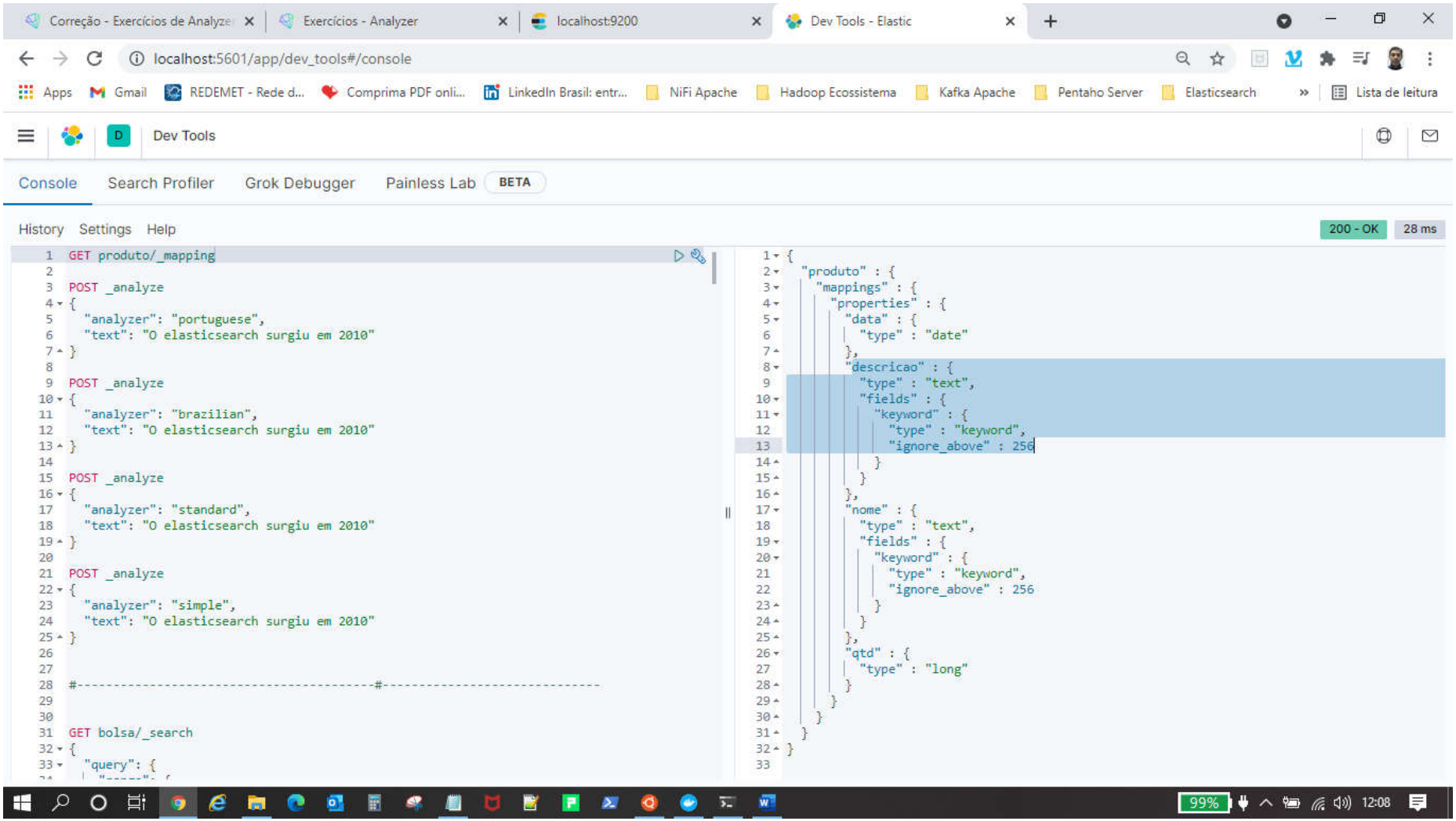
O analyzer **portuguese**, removiu o “o”, “em” e as outras palavras ficaram inteiras como no português



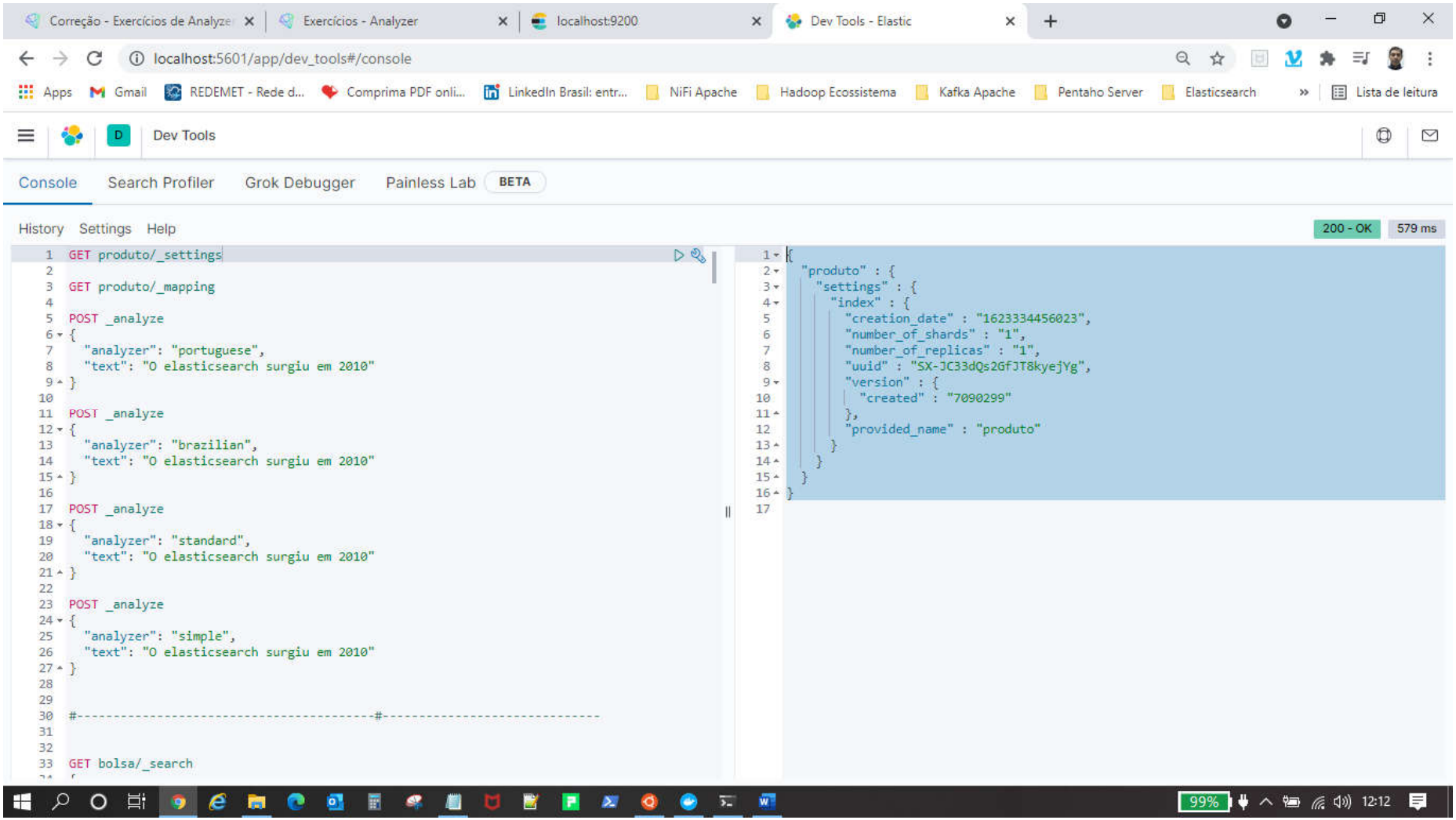
2. Realizar os passos no índice produto

a) Criar um analyzer brazilian para o atributo descricao

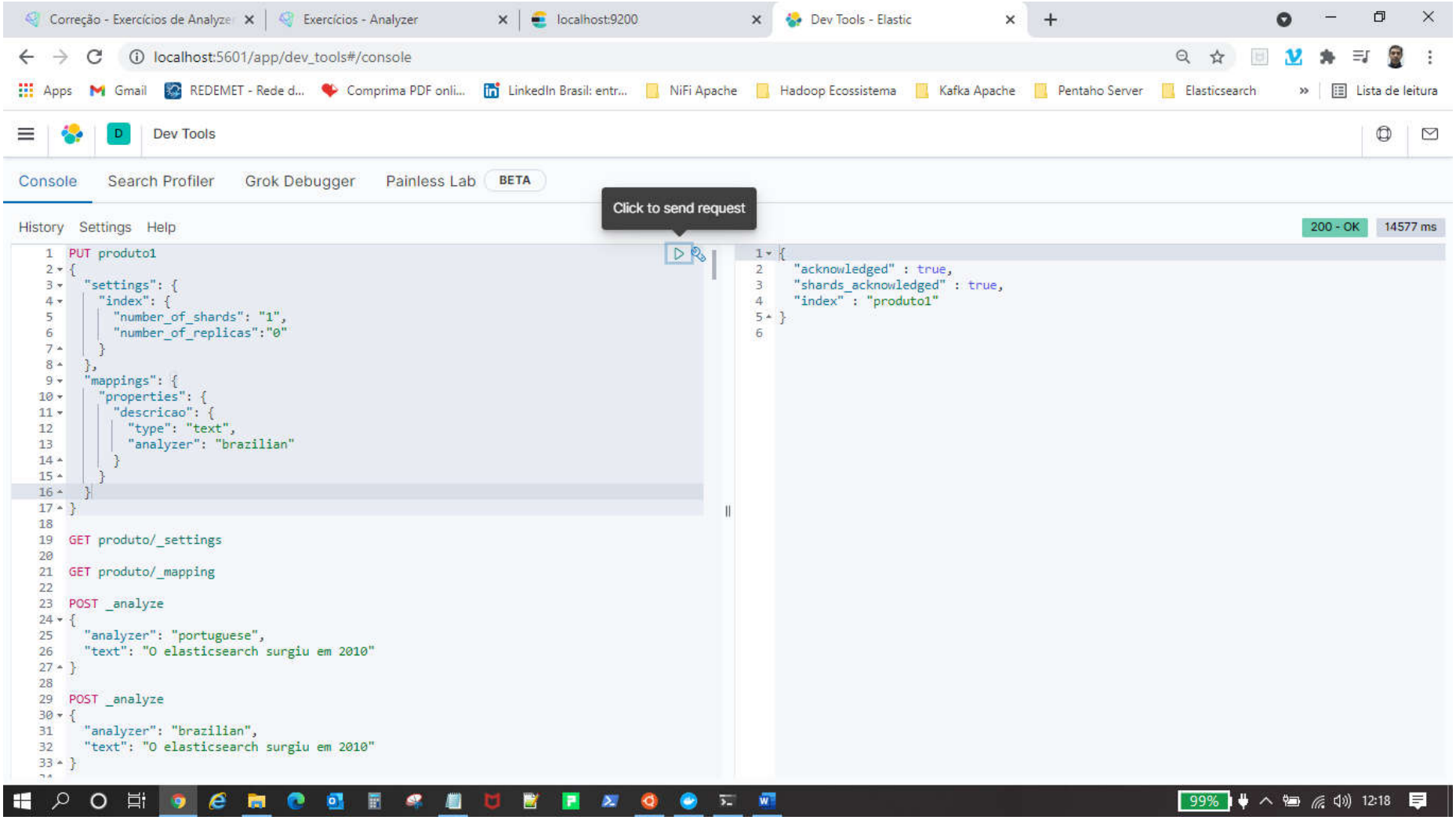
Verificando que não existe analyzer para o atributo descricao



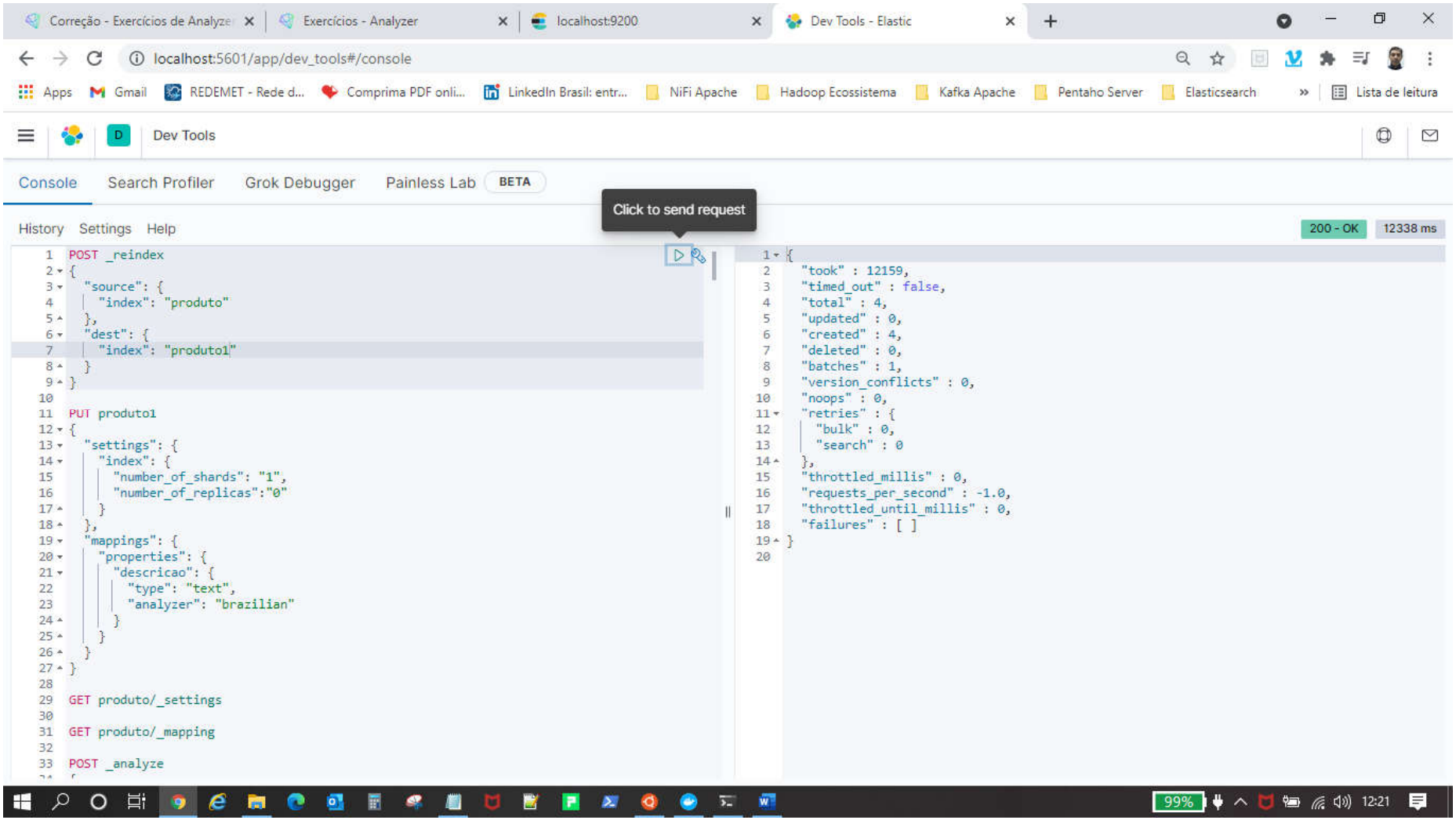
Verificar as configurações para reindexar



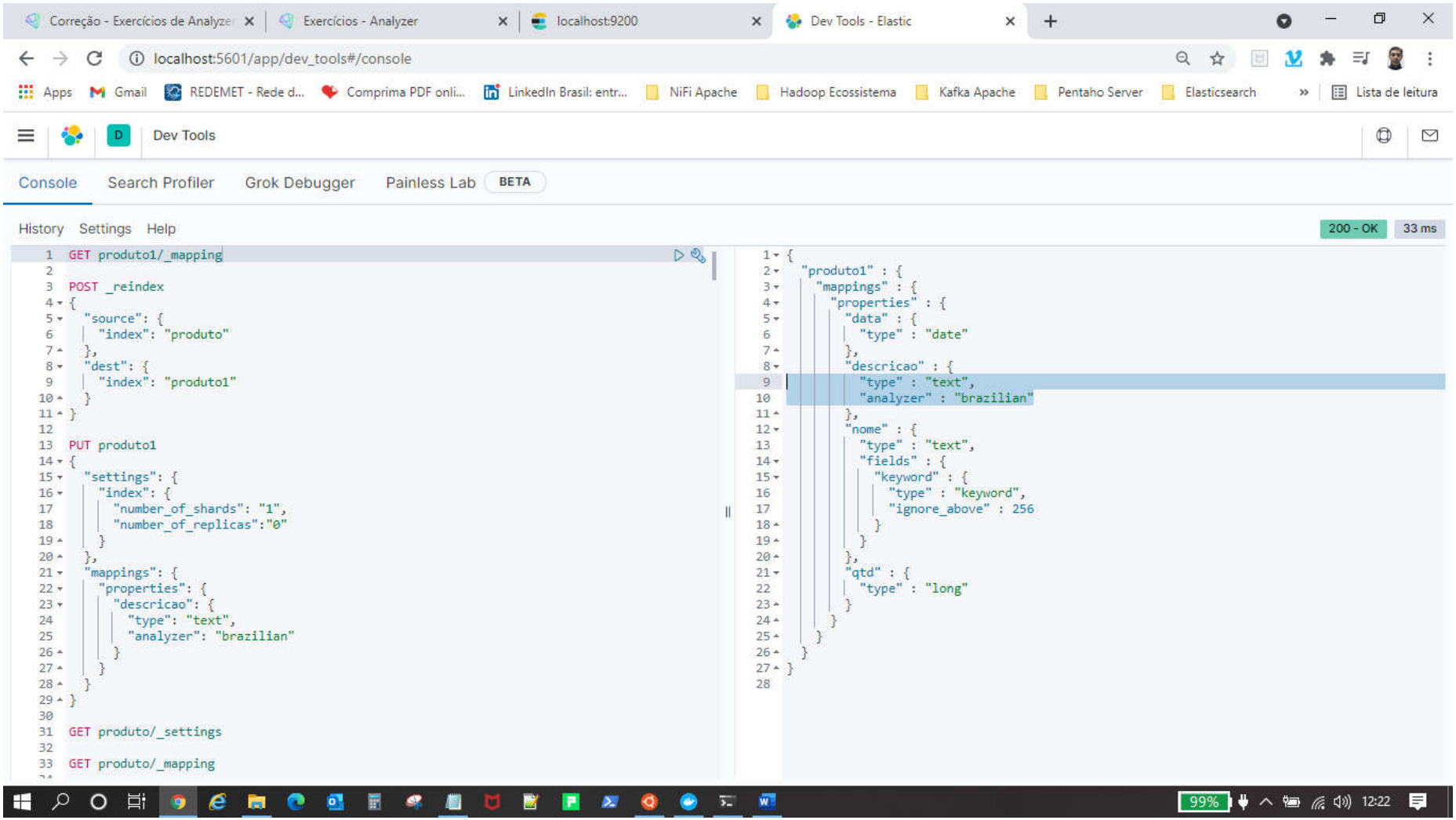
Criando o Index produto1 com o analyzer brazilian



Faz reindex do produto com produto1



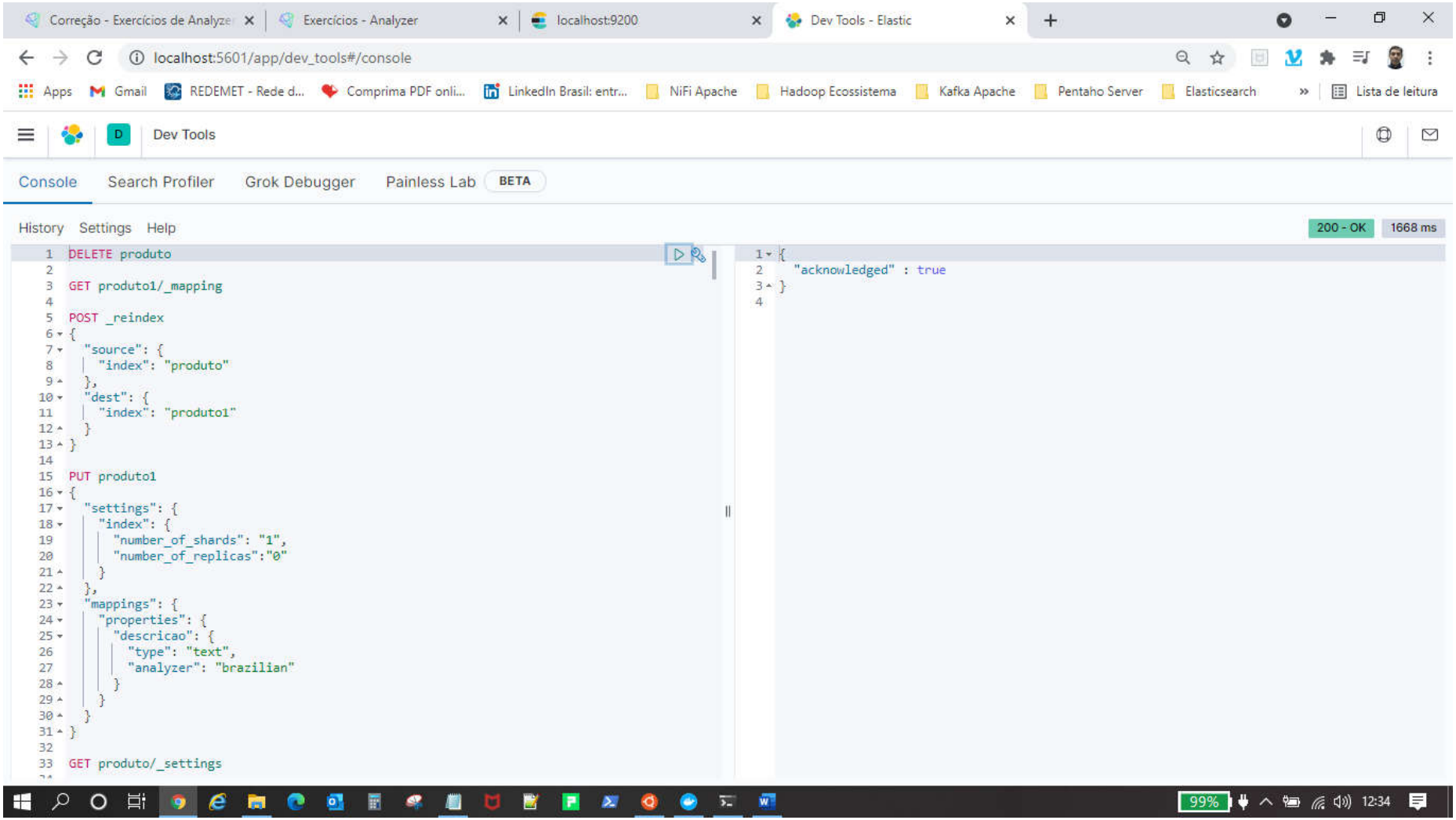
Produto1 está com analyzer brazilian e type como text



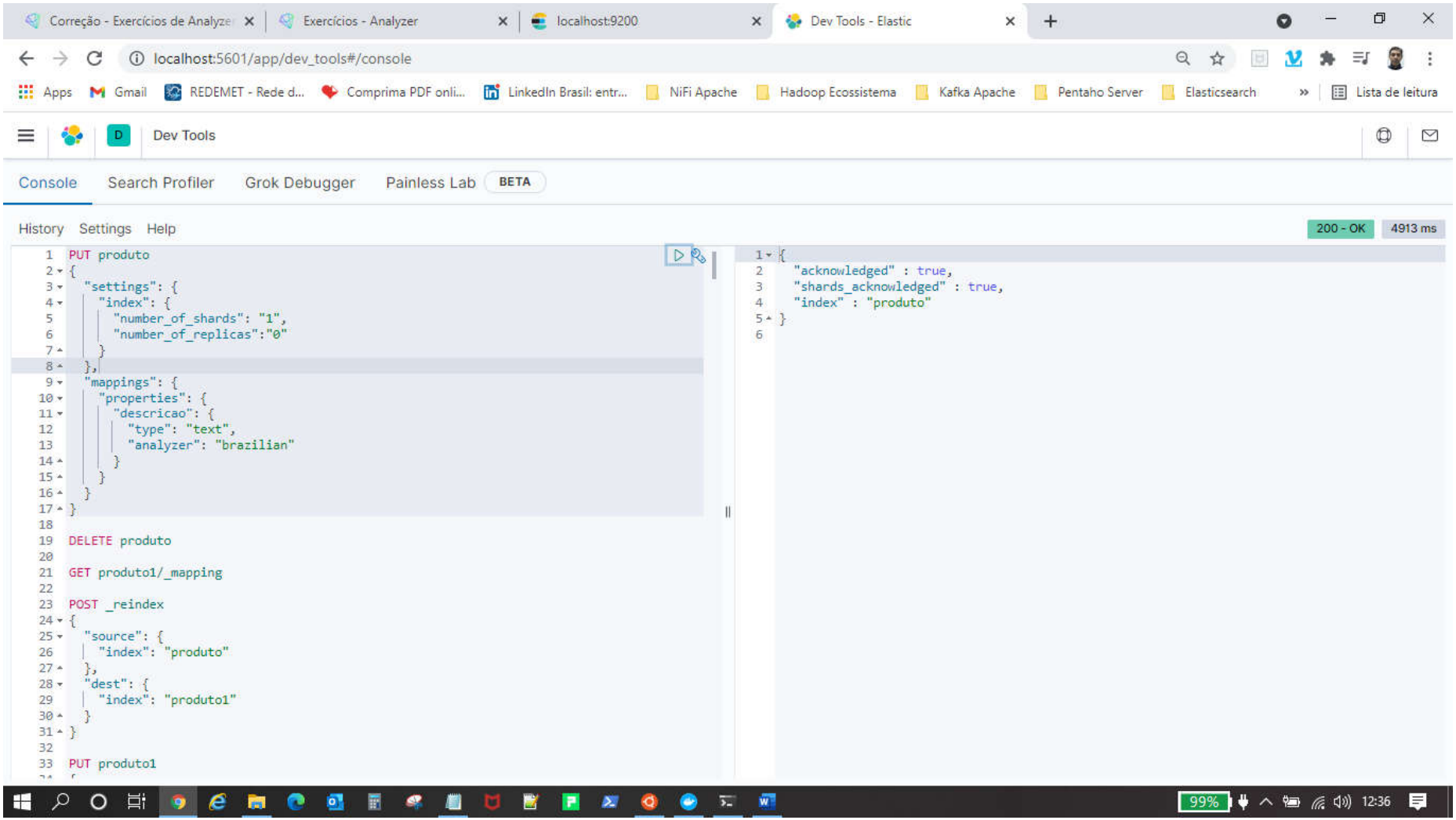
Para deixar como produto. Devo deletar o produto, pegar produto1 que está correto e reindexar novamente para produto

b) Para o atributo descricao aplicar o analzyer brazilian para o tipo de campo text e criar o atributo descricao.original com o dado do tipo keyword

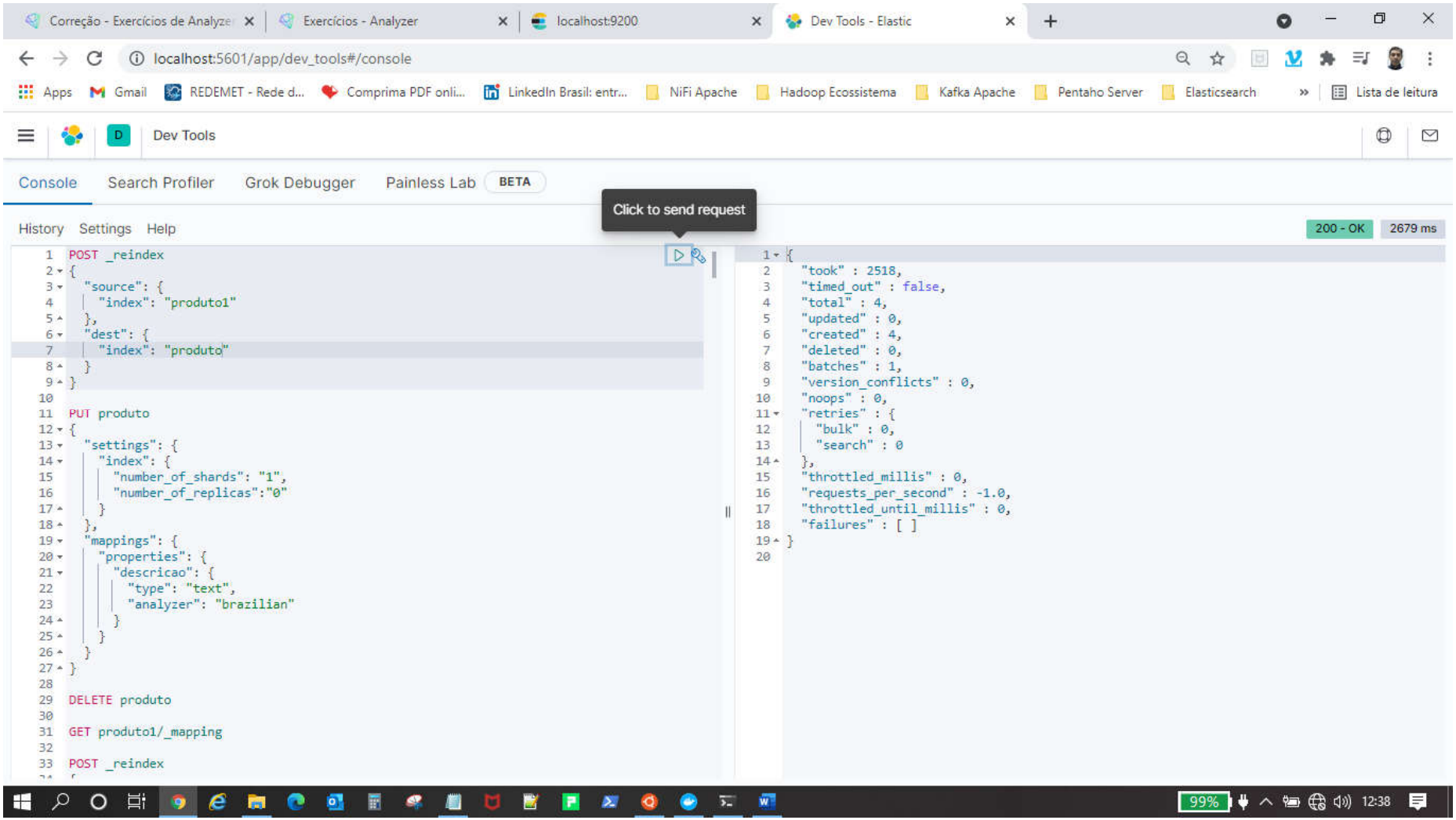
Deletando o produto



Produto criado novamente

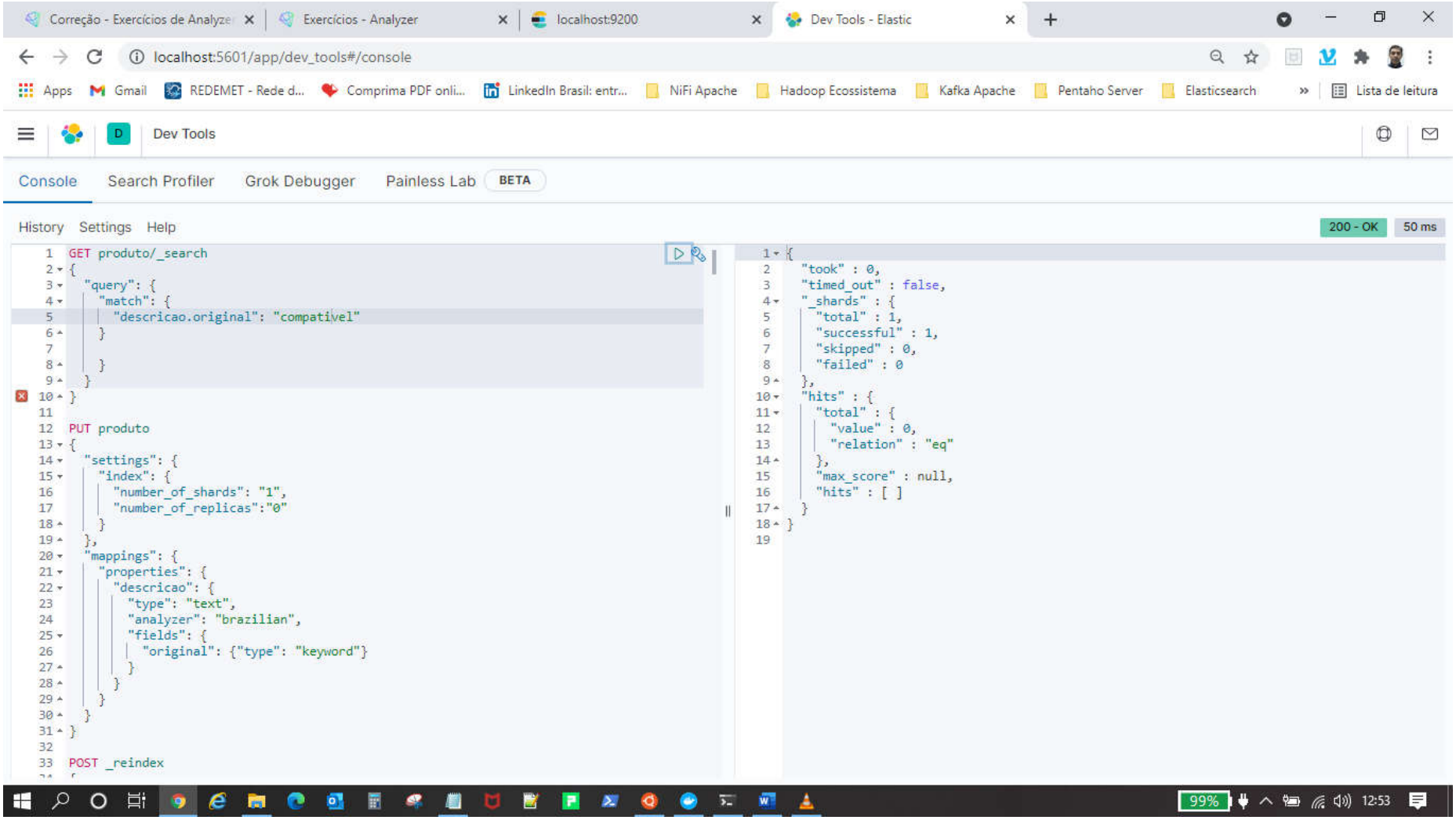


Reindex de produto1 para produto



c) Buscar a palavra “compativel” no campo descricao.original (hits = 0)

Não retornou nada porque está com o token compat



d) Buscar a palavra “compativel” no campo descrição

Encontrou por que o token está compativel