

# Atualização Elasticsearch

1. Efetuar login no servidor com um cliente SSH.
2. Para confirmar qual versão do Elasticsearch você possui instalada atualmente, execute o comando abaixo e em seguida verifique o campo de "number":

```
$ curl -X GET "localhost:9200?pretty"
```

```
{
  "name" : "edipo-dev",
  "cluster_name" : "elasticsearch",
  "cluster_uuid" : "7RqI3a0uReyIKR5DTX45_g",
  "version" : {
    "number" : "7.4.0",
    "build_flavor" : "default",
    "build_type" : "rpm",
    "build_hash" : "22e1767283e61a198cb4db791ea66e3f11ab9910",
    "build_date" : "2019-09-27T08:36:48.569419Z",
    "build_snapshot" : false,
    "lucene_version" : "8.2.0",
    "minimum_wire_compatibility_version" : "6.8.0",
    "minimum_index_compatibility_version" : "6.0.0-beta1"
  },
  "tagline" : "You Know, for Search"
}
```

3. Pare os serviços do Elasticsearch:

```
$ sudo systemctl stop elasticsearch.service
```

```
[root@edipo-dev ~]# sudo systemctl status elasticsearch.service
● elasticsearch.service - Elasticsearch
   Loaded: loaded (/usr/lib/systemd/system/elasticsearch.service; enabled; vendor preset: disabled)
   Active: inactive (dead) since Thu 2022-02-03 18:27:06 -03; 4s ago
     Docs: http://www.elastic.co
   Process: 5556 ExecStart=/usr/share/elasticsearch/bin/elasticsearch -p ${PID_DIR}/elasticsearch.pid --quiet (code=exited, status=143)
  Main PID: 5556 (code=exited, status=143)

Feb 03 17:16:33 edipo-dev elasticsearch[5556]: at org.elasticsearch.bootstrap.Elasticsearch.main(Elasticsearch.java:115)
Feb 03 17:16:33 edipo-dev elasticsearch[5556]: at org.elasticsearch.bootstrap.Elasticsearch.main(Elasticsearch.java:92)
Feb 03 17:16:33 edipo-dev elasticsearch[5556]: Caused by: java.lang.IllegalArgumentException: Unconditional Delete not supported
Feb 03 17:16:33 edipo-dev elasticsearch[5556]: at org.apache.logging.log4j.core.appender.rolling.action.DeleteAction.<init>(DeleteAction.java:71)
Feb 03 17:16:33 edipo-dev elasticsearch[5556]: at org.apache.logging.log4j.core.appender.rolling.action.DeleteAction.createDeleteAction(DeleteAction.java:212)
Feb 03 17:16:33 edipo-dev elasticsearch[5556]: ... 25 more
Feb 03 17:16:33 edipo-dev elasticsearch[5556]: 2022-02-03 18:16:33,016 main ERROR Null object returned for Delete in DefaultRolloverStrategy.
Feb 03 17:17:02 edipo-dev systemd[1]: Started Elasticsearch.
Feb 03 18:27:05 edipo-dev systemd[1]: Stopping Elasticsearch...
Feb 03 18:27:06 edipo-dev systemd[1]: Stopped Elasticsearch.
```

4. Liste as versões disponíveis da aplicação:

```
$ yum --showduplicates list elasticsearch
```

```
[root@edipo-dev ~]# yum --showduplicates list elasticsearch
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: mirror.nbtelecom.com.br
 * epel: d2l2kl7pfhq30w.cloudfront.net
 * extras: mirror.nbtelecom.com.br
 * updates: mirror.nbtelecom.com.br
Installed Packages
elasticsearch.x86_64                                7.4.0-1                                @elasticsearch-7.x
Available Packages
elasticsearch.x86_64                                7.0.0-1                                elasticsearch-7.x
elasticsearch.x86_64                                7.0.0-1                                kibana-7.x
elasticsearch.x86_64                                7.0.1-1                                elasticsearch-7.x
elasticsearch.x86_64                                7.0.1-1                                kibana-7.x
elasticsearch.x86_64                                7.1.0-1                                elasticsearch-7.x
elasticsearch.x86_64                                7.1.0-1                                kibana-7.x
elasticsearch.x86_64                                7.1.1-1                                elasticsearch-7.x
elasticsearch.x86_64                                7.1.1-1                                kibana-7.x
elasticsearch.x86_64                                7.2.0-1                                elasticsearch-7.x
elasticsearch.x86_64                                7.2.0-1                                kibana-7.x
elasticsearch.x86_64                                7.2.1-1                                elasticsearch-7.x
elasticsearch.x86_64                                7.2.1-1                                kibana-7.x
elasticsearch.x86_64                                7.3.0-1                                elasticsearch-7.x
elasticsearch.x86_64                                7.3.0-1                                kibana-7.x
elasticsearch.x86_64                                7.3.1-1                                elasticsearch-7.x
elasticsearch.x86_64                                7.3.1-1                                kibana-7.x
elasticsearch.x86_64                                7.3.2-1                                elasticsearch-7.x
elasticsearch.x86_64                                7.3.2-1                                kibana-7.x
elasticsearch.x86_64                                7.4.0-1                                elasticsearch-7.x
elasticsearch.x86_64                                7.4.0-1                                kibana-7.x
elasticsearch.x86_64                                7.4.1-1                                elasticsearch-7.x
```

5. Selecionando a versão 7.10.0 do Elasticsearch:

```
$ sudo yum install elasticsearch-7.10.0-1.x86_64
```

```
[root@edipo-dev ~]# sudo yum install elasticsearch-7.10.0-1.x86_64
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
 * base: mirror.nbtelecom.com.br
 * epel: d2l2kl7pfhq30w.cloudfront.net
 * extras: mirror.nbtelecom.com.br
 * updates: mirror.nbtelecom.com.br
Resolving Dependencies
--> Running transaction check
--> Package elasticsearch.x86_64 0:7.4.0-1 will be updated
--> Package elasticsearch.x86_64 0:7.10.0-1 will be an update
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package                               Arch      Version      Repository      Size
=====
Updating:
elasticsearch                         x86_64    7.10.0-1     elasticsearch-7.x    304 M
=====
Transaction Summary
=====
Upgrade 1 Package

Total download size: 304 M
Is this ok [y/d/N]: y
Downloading packages:
Delta RPMs disabled because /usr/bin/applydeltarpm not installed.
elasticsearch-7.10.0-x86_64.rpm      | 304 MB  00:00:47
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Updating : elasticsearch-7.10.0-1.x86_64                                1/2
warning: /etc/elasticsearch/jvm.options created as /etc/elasticsearch/jvm.options.rpmnew
warning: /etc/elasticsearch/log4j2.properties created as /etc/elasticsearch/log4j2.properties.rpmnew
  Cleanup : elasticsearch-7.4.0-1.x86_64                                2/2
Created elasticsearch keystore in /etc/elasticsearch/elasticsearch.keystore
  Verifying : elasticsearch-7.10.0-1.x86_64                                1/2
  Verifying : elasticsearch-7.4.0-1.x86_64                                2/2

Updated:
  elasticsearch.x86_64 0:7.10.0-1

Complete!
[root@edipo-dev ~]#
```

6. Após a atualização concluir, inicie os serviços do Elasticsearch:

```
$ sudo systemctl start elasticsearch.service
```

7. Execute o status do Elasticsearch para verificar se a aplicação foi iniciada com sucesso:

```
$ sudo systemctl status elasticsearch.service
```

8. Se caso ao verificar o status da aplicação você se deparar com a mensagem de erro abaixo:

```
-- Unit elasticsearch.service has begun starting up.
Feb 03 19:21:29 edipo-dev systemd-entrypoint[8158]: Exception in thread "main" java.lang.RuntimeException: starting java failed with [1]
Feb 03 19:21:29 edipo-dev systemd-entrypoint[8158]: output:
Feb 03 19:21:29 edipo-dev systemd-entrypoint[8158]: error:
Feb 03 19:21:29 edipo-dev systemd-entrypoint[8158]: Unrecognized VM option 'UseConcMarkSweepGC'
Feb 03 19:21:29 edipo-dev systemd-entrypoint[8158]: Error: Could not create the Java Virtual Machine.
Feb 03 19:21:29 edipo-dev systemd-entrypoint[8158]: Error: A fatal exception has occurred. Program will exit.
Feb 03 19:21:29 edipo-dev systemd-entrypoint[8158]: at org.elasticsearch.tools.launchers.JvmErgonomics.flagsFinal(JvmErgonomics.java:126)
Feb 03 19:21:29 edipo-dev systemd-entrypoint[8158]: at org.elasticsearch.tools.launchers.JvmErgonomics.finalJvmOptions(JvmErgonomics.java:88)
Feb 03 19:21:29 edipo-dev systemd-entrypoint[8158]: at org.elasticsearch.tools.launchers.JvmErgonomics.choose(JvmErgonomics.java:59)
Feb 03 19:21:29 edipo-dev systemd-entrypoint[8158]: at org.elasticsearch.tools.launchers.JvmOptionsParser.parseJvmOptions(JvmOptionsParser.java:137)
Feb 03 19:21:29 edipo-dev systemd-entrypoint[8158]: at org.elasticsearch.tools.launchers.JvmOptionsParser.main(JvmOptionsParser.java:95)
Feb 03 19:21:29 edipo-dev systemd[1]: elasticsearch.service: main process exited, code=exited, status=1/FAILURE
Feb 03 19:21:29 edipo-dev systemd[1]: Failed to start Elasticsearch.
-- Subject: Unit elasticsearch.service has failed
-- Defined-By: systemd
-- Support: http://lists.freedesktop.org/mailman/listinfo/systemd-devel
--
-- Unit elasticsearch.service has failed.
--
-- The result is failed.
Feb 03 19:21:29 edipo-dev systemd[1]: Unit elasticsearch.service entered failed state.
Feb 03 19:21:29 edipo-dev systemd[1]: elasticsearch.service failed.
```

9. Acesse o arquivo “jvm.options”:

```
$ vim /etc/elasticsearch/jvm.options
```

10. Substitua:

```
- XX: +UseConcMarkSweepGC
- XX: CMSInitiatingOccupancyFraction=75
- XX: +UseCMSInitiatingOccupancyOnly
```

Por:

```
8-13: - XX: +UseConcMarkSweepGC
8-13: - XX: CMSInitiatingOccupancyFraction=75
8-13: - XX: +UseCMSInitiatingOccupancyOnly
```

```
## GC configuration
8-13: -XX:+UseConcMarkSweepGC
8-13: -XX:CMSInitiatingOccupancyFraction=75
8-13: -XX:+UseCMSInitiatingOccupancyOnly
```

11. Recarregue os serviços:

```
$ sudo systemctl daemon-reload
```

12. Tente iniciar novamente os serviços do ElasticSearch:

```
$ sudo systemctl start elasticsearch.service
```

13. Verifique se a aplicação foi iniciada com sucesso:

```
$ sudo systemctl status elasticsearch.service
```

```
● elasticsearch.service - Elasticsearch
   Loaded: loaded (/usr/lib/systemd/system/elasticsearch.service; enabled; vendor preset: disabled)
   Active: active (running) since Tue 2022-02-08 00:16:51 -03; 1 day 11h ago
     Docs: https://www.elastic.co
    Main PID: 10112 (java)
    CGroup: /system.slice/elasticsearch.service
            └─10112 /usr/share/elasticsearch/jdk/bin/java -Xshare:auto -Des.networkaddress.cache.ttl=60 -Des.networkaddress.cache.negative...
            └─10299 /usr/share/elasticsearch/modules/x-pack-ml/platform/linux-x86_64/bin/controller
```

14. Para conferir a versão do ElasticSearch, execute:

```
$ curl -X GET "localhost:9200?pretty"
```

```
{
  "name" : "edipo-dev",
  "cluster_name" : "elasticsearch",
  "cluster_uuid" : "7RqI3a0uReyIKR5DTX45_g",
  "version" : {
    "number" : "7.10.0",
    "build_flavor" : "default",
    "build_type" : "rpm",
    "build_hash" : "51e9d6f22758d0374a0f3f5c6e8f3a7997850f96",
    "build_date" : "2020-11-09T21:30:33.964949Z",
    "build_snapshot" : false,
    "lucene_version" : "8.7.0",
    "minimum_wire_compatibility_version" : "6.8.0",
    "minimum_index_compatibility_version" : "6.0.0-beta1"
  },
  "tagline" : "You Know, for Search"
}
```

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