

Atualização ELK - Versão 7.4 > 7.10

Atualização do ElasticSearch e Kibana da versão 7.4 para a versão 7.10.

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Processo de atualização

Antes de iniciar o processo de atualização, recomendamos, além da realização de um backup (snapshot), atentar-se caso esteja atualizando seu servidor da versão 16.04 para 18.04 antes de atualizar o ELK, que ao passar pela mensagem de alerta das aplicações ociosas (vide screenshot abaixo), selecionar a opção "N", conforme demonstrada abaixo, pois caso a opção "Y" seja selecionada nesse passo, a instalação do Elasticsearch será removida pela atualização.

```
Searching for obsolete software
Reading state information... Done

Remove obsolete packages?

74 packages are going to be removed.

Continue [yN] Details [d]n
```

Atualização ELK em Ubuntu

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 -u elastic:senhacorreta* -X GET "localhost:9200?pretty"
```

**no campo de "senhacorreta", preencha com a senha de acesso do usuário elastic.*

```
{
  "name" : "templetelk",
  "cluster_name" : "elasticsearch",
  "cluster_uuid" : "hZMo5K0rSeSSZ2KvskaYsA",
  "version" : {
    "number" : "7.4.0",
    "build_flavor" : "default",
    "build_type" : "deb",
    "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. Antes de iniciarmos a atualização, aconselhamos que seja feito backup do arquivo "jvm.options"

Acesse a pasta:

```
$ cd /etc/elasticsearch
```

Faça backup do arquivo:

```
cp jvm.options jvm.options_old
```

4. 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.
```

5. Liste as versões disponíveis da aplicação:

```
$ apt-cache madison elasticsearch
```

Se ao executar o comando acima, não retornar as versões da aplicação, como na imagem abaixo, execute os próximos comandos, caso seja mostrado a listagem com as versões disponíveis, pule para o passo seguinte.

```
root@templetelk:~# apt-cache madison elasticsearch
root@templetelk:~#
```

```
$ wget -qO - https://artifacts.elastic.co/GPG-KEY-elasticsearch | apt-key add -
```

```
root@templetelk:/# wget -qO - https://artifacts.elastic.co/GPG-KEY-elasticsearch | apt-key add -
OK
```

```
$ sh -c 'echo "deb https://artifacts.elastic.co/packages/7.x/apt stable main" >
/etc/apt/sources.list.d/elastic-7.x.list'
```

```
root@templetelk:/# sh -c 'echo "deb https://artifacts.elastic.co/packages/7.x/apt stable main" > /etc/apt/sources.list.d/elastic-7.x.list'
```

```
$ apt update
```

```
root@templetelk:~# apt update
Get:1 https://artifacts.elastic.co/packages/7.x/apt stable InRelease [13.7 kB]
Get:2 https://artifacts.elastic.co/packages/7.x/apt stable/main amd64 Packages [93.4 kB]
Hit:3 http://br.archive.ubuntu.com/ubuntu focal InRelease
Get:4 http://br.archive.ubuntu.com/ubuntu focal-updates InRelease [114 kB]
Get:5 http://br.archive.ubuntu.com/ubuntu focal-backports InRelease [108 kB]
Get:6 http://br.archive.ubuntu.com/ubuntu focal-updates/main i386 Packages [601 kB]
Get:7 http://security.ubuntu.com/ubuntu focal-security InRelease [114 kB]
Get:8 https://artifacts.elastic.co/packages/7.x/apt stable/main i386 Packages [70.5 kB]
Get:9 http://br.archive.ubuntu.com/ubuntu focal-updates/main amd64 Packages [1,567 kB]
Get:10 http://br.archive.ubuntu.com/ubuntu focal-updates/main Translation-en [301 kB]
Get:11 https://esm.ubuntu.com/infra/ubuntu focal-infra-security InRelease [7,426 B]
Get:12 http://br.archive.ubuntu.com/ubuntu focal-updates/main amd64 c-n-f Metadata [14.7 kB]
Get:13 http://br.archive.ubuntu.com/ubuntu focal-updates/universe i386 Packages [666 kB]
Get:14 http://br.archive.ubuntu.com/ubuntu focal-updates/universe amd64 Packages [902 kB]
Get:15 https://esm.ubuntu.com/infra/ubuntu focal-infra-updates InRelease [7,425 B]
Get:16 http://br.archive.ubuntu.com/ubuntu focal-updates/universe Translation-en [200 kB]
Get:17 http://security.ubuntu.com/ubuntu focal-security/main amd64 Packages [1,235 kB]
Get:18 http://security.ubuntu.com/ubuntu focal-security/main i386 Packages [375 kB]
Get:19 http://security.ubuntu.com/ubuntu focal-security/main Translation-en [217 kB]
Get:20 http://security.ubuntu.com/ubuntu focal-security/main amd64 c-n-f Metadata [9,560 B]
Fetched 6,617 kB in 3s (1,921 kB/s)
Reading package lists... Done
Building dependency tree
Reading state information... Done
17 packages can be upgraded. Run 'apt list --upgradable' to see them.
```

Execute o comando abaixo para exibir as versões disponíveis do Elasticsearch:

```
$ apt-cache madison elasticsearch
```


elasticsearch	7.14.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.14.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.13.4	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.13.3	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.13.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.13.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.13.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.12.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.12.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.11.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.11.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.11.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.10.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.10.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.10.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.9.3	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.9.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.9.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.9.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.8.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.8.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.7.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.7.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.6.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.6.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.6.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.5.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.5.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.5.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.4.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.4.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.4.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.3.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.3.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.3.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.2.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.2.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.1.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.1.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.0.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
elasticsearch	7.0.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages

6. Selecionando a versão 7.10.0 do Elasticsearch:

```
$ apt-get install elasticsearch=7.10.0
```

```
root@templetelk:~# apt-get install elasticsearch=7.10.0
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages will be upgraded:
  elasticsearch
1 upgraded, 0 newly installed, 0 to remove and 16 not upgraded.
Need to get 319 MB of archives.
After this operation, 43.5 MB of additional disk space will be used.
Get:1 https://artifacts.elastic.co/packages/7.x/apt stable/main amd64 elasticsearch amd64 7.10.0 [319 MB]
Fetched 319 MB in 39s (8,114 kB/s)
(Reading database ... 189924 files and directories currently installed.)
Preparing to unpack .../elasticsearch_7.10.0_amd64.deb ...
Unpacking elasticsearch (7.10.0) over (7.4.0) ...
Setting up elasticsearch (7.10.0) ...
Installing new version of config file /etc/elasticsearch/jvm.options ...
Installing new version of config file /etc/elasticsearch/log4j2.properties ...
Installing new version of config file /etc/default/elasticsearch ...
Created elasticsearch keystore in /etc/elasticsearch/elasticsearch.keystore
Processing triggers for systemd (245.4-4ubuntu3.15) ...
```

```
Configuration file '/etc/elasticsearch/jvm.options'
==> Modified (by you or by a script) since installation.
==> Package distributor has shipped an updated version.
What would you like to do about it ? Your options are:
    Y or I  : install the package maintainer's version
    N or O  : keep your currently-installed version
    D       : show the differences between the versions
    Z       : start a shell to examine the situation
The default action is to keep your current version.
*** jvm.options (Y/I/N/O/D/Z) [default=N] ? Y
```

7. Abra o arquivo jvm.options:

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

8. Insira os campos abaixo no arquivo:

```
# log4j 2
-Dlog4j.shutdownHookEnabled=false
-Dlog4j2.disable.jmx=true
-Dlog4j2.formatMsgNoLookups=true
```

9. Salve as alterações apertando ESC no teclado e em seguida digite:

```
: w!
```

10. Recarregue os serviços:

```
$ systemctl daemon-reload
```

11. Inicie os serviços do ElasticSearch:

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

12. 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: enabled)
   Active: active (running) since Wed 2022-02-09 15:44:33 -03; 2min 39s ago
     Docs: https://www.elastic.co
    Main PID: 41177 (java)
      Tasks: 60 (limit: 4612)
     Memory: 1.2G
    CGroup: /system.slice/elasticsearch.service
            └─41177 /usr/share/elasticsearch/jdk/bin/java -Xshare:auto -Des.networkaddress.cache.ttl=60 -Des.networkaddress.cache.negative.ttl=10
              └─41370 /usr/share/elasticsearch/modules/x-pack-ml/platform/linux-x86_64/bin/controller

Feb 09 15:44:18 templetelk systemd[1]: Starting Elasticsearch...
Feb 09 15:44:33 templetelk systemd[1]: Started Elasticsearch.

```

13. Para conferir a versão do Elasticsearch, execute:

```
$ curl -u elastic:senhacorreta* -X GET "localhost:9200/?pretty"
```

**no campo de "senhacorreta", preencha com a senha de acesso do usuário elastic.*

```

{
  "name" : "templetelk",
  "cluster_name" : "elasticsearch",
  "cluster_uuid" : "hZMo5K0rSeSSZ2KvskaYsA",
  "version" : {
    "number" : "7.10.0",
    "build_flavor" : "default",
    "build_type" : "deb",
    "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"
}

```

Atualização Kibana

1. Pare os serviços do Kibana:

```
$ sudo systemctl stop kibana.service
```

2. Confirme se os serviços foram parados:

```
$ sudo systemctl status kibana.service
```

```
root@templetelk:~# sudo systemctl status kibana.service
● kibana.service - Kibana
   Loaded: loaded (/etc/systemd/system/kibana.service; enabled; vendor preset: enabled)
   Active: inactive (dead) since Wed 2022-02-09 16:11:04 -03; 16s ago
     Process: 1022 ExecStart=/usr/share/kibana/bin/kibana -c /etc/kibana/kibana.yml (code=exited, status=0/SUCCESS)
    Main PID: 1022 (code=exited, status=0/SUCCESS)

Feb 08 17:01:02 templetelk systemd[1]: Started Kibana.
Feb 09 16:10:56 templetelk systemd[1]: Stopping Kibana...
Feb 09 16:11:04 templetelk systemd[1]: kibana.service: Succeeded.
Feb 09 16:11:04 templetelk systemd[1]: Stopped Kibana.
```

3. Liste as versões disponíveis da aplicação:

```
$ apt-cache madison kibana
```

kibana	7.14.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.14.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.13.4	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.13.3	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.13.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.13.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.13.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.12.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.12.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.11.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.11.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.11.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.10.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.10.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.10.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.9.3	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.9.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.9.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.9.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.8.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.8.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.7.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.7.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.6.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.6.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.6.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.5.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.5.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.5.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.4.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.4.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.4.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.3.2	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.3.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.3.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.2.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.2.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.1.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.1.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.0.1	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages
kibana	7.0.0	https://artifacts.elastic.co/packages/7.x/apt	stable/main	amd64	Packages

4. Selecionando a versão 7.10.0 do Kibana:

```
$ apt-get install kibana=7.10.0
```

```
root@templetelk:~# apt-get install kibana=7.10.0
Reading package lists... Done
Building dependency tree
Reading state information... Done
The following packages will be upgraded:
  kibana
1 upgraded, 0 newly installed, 0 to remove and 16 not upgraded.
Need to get 257 MB of archives.
After this operation, 20.1 MB disk space will be freed.
Get:1 https://artifacts.elastic.co/packages/7.x/apt stable/main amd64 kibana amd64 7.10.0 [257 MB]
Fetched 257 MB in 39s (6,535 kB/s)
(Reading database ... 189886 files and directories currently installed.)
Preparing to unpack .../kibana_7.10.0_amd64.deb ...
Stopping kibana service... OK
Unpacking kibana (7.10.0) over (7.4.0) ...
Setting up kibana (7.10.0) ...
Installing new version of config file /etc/default/kibana ...
Installing new version of config file /etc/init.d/kibana ...
```

Na opção abaixo, coloque como “N” para que o seu arquivo kibana.yml configurado atualmente

não seja substituído:

```
Configuration file '/etc/kibana/kibana.yml'
==> Modified (by you or by a script) since installation.
==> Package distributor has shipped an updated version.
What would you like to do about it ? Your options are:
  Y or I  : install the package maintainer's version
  N or O  : keep your currently-installed version
  D       : show the differences between the versions
  Z       : start a shell to examine the situation
The default action is to keep your current version.
*** kibana.yml (Y/I/N/O/D/Z) [default=N] ? N
```

5. Após a atualização finalizar, recarregue os serviços:

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

6. Inicie os serviços do Kibana:

```
$ sudo systemctl start kibana.service
```

7. Verifique se os serviços foram iniciados com sucesso:

```
$ sudo systemctl status kibana.service
```

```
root@templetelk:~# sudo systemctl status kibana.service
● kibana.service - Kibana
   Loaded: loaded (/etc/systemd/system/kibana.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2022-02-09 16:38:39 -03; 8s ago
     Main PID: 43125 (node)
        Tasks: 11 (limit: 4612)
       Memory: 198.5M
      CGroup: /system.slice/kibana.service
              └─43125 /usr/share/kibana/bin/./node/bin/node /usr/share/kibana/bin/./src/cli/dist

Feb 09 16:38:39 templetelk systemd[1]: Started Kibana.
```

8. Acesse a aplicação e faça login para confirmar o sucesso da atualização:

HELP v 7.10.0

[Kibana documentation](#)

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Atualização ELK em CentOS/Red Hat

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: d2lzk17pfhq30w.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: d2lzk17pfhq30w.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.jvmOptions(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"
}
```


Atualização Kibana

1. Pare os serviços do Kibana:

```
$ sudo systemctl stop kibana.service
```

2. Confirme se os serviços foram parados:

```
$ sudo systemctl status kibana.service
```

```
[root@edipo-dev ~]# systemctl status kibana.service
● kibana.service - Kibana
   Loaded: loaded (/etc/systemd/system/kibana.service; enabled; vendor preset: disabled)
   Active: inactive (dead) since Fri 2022-02-04 11:45:47 -03; 6s ago
     Process: 5006 ExecStart=/usr/share/kibana/bin/kibana -c /etc/kibana/kibana.yml (code=exited, status=0/SUCCESS)
    Main PID: 5006 (code=exited, status=0/SUCCESS)

Feb 03 17:16:02 edipo-dev systemd[1]: Started Kibana.
Feb 03 18:50:36 edipo-dev systemd[1]: [/etc/systemd/system/kibana.service:3] Unknown lvalue 'StartLimitIntervalSec' in section 'Unit'
Feb 03 18:50:36 edipo-dev systemd[1]: [/etc/systemd/system/kibana.service:4] Unknown lvalue 'StartLimitBurst' in section 'Unit'
Feb 03 18:50:41 edipo-dev systemd[1]: [/etc/systemd/system/kibana.service:3] Unknown lvalue 'StartLimitIntervalSec' in section 'Unit'
Feb 03 18:50:41 edipo-dev systemd[1]: [/etc/systemd/system/kibana.service:4] Unknown lvalue 'StartLimitBurst' in section 'Unit'
Feb 04 11:45:45 edipo-dev systemd[1]: Stopping Kibana...
Feb 04 11:45:47 edipo-dev systemd[1]: Stopped Kibana.
```

3. Liste as versões disponíveis da aplicação:

```
$ yum --showduplicates list kibana
```

```
[root@edipo-dev ~]# yum --showduplicates list kibana
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
kibana.x86_64                                7.4.0-1                                @elasticsearch-7.x
Available Packages
kibana.x86_64                                7.0.0-1                                elasticsearch-7.x
kibana.x86_64                                7.0.0-1                                kibana-7.x
kibana.x86_64                                7.0.1-1                                elasticsearch-7.x
kibana.x86_64                                7.0.1-1                                kibana-7.x
kibana.x86_64                                7.1.0-1                                elasticsearch-7.x
kibana.x86_64                                7.1.0-1                                kibana-7.x
kibana.x86_64                                7.1.1-1                                elasticsearch-7.x
kibana.x86_64                                7.1.1-1                                kibana-7.x
kibana.x86_64                                7.1.1-1                                kibana-7.x
kibana.x86_64                                7.2.0-1                                elasticsearch-7.x
kibana.x86_64                                7.2.0-1                                kibana-7.x
kibana.x86_64                                7.2.1-1                                elasticsearch-7.x
kibana.x86_64                                7.2.1-1                                kibana-7.x
kibana.x86_64                                7.2.1-1                                kibana-7.x
kibana.x86_64                                7.3.0-1                                elasticsearch-7.x
kibana.x86_64                                7.3.0-1                                kibana-7.x
kibana.x86_64                                7.3.1-1                                elasticsearch-7.x
kibana.x86_64                                7.3.1-1                                kibana-7.x
kibana.x86_64                                7.3.1-1                                kibana-7.x
kibana.x86_64                                7.3.2-1                                elasticsearch-7.x
kibana.x86_64                                7.3.2-1                                kibana-7.x
kibana.x86_64                                7.4.0-1                                elasticsearch-7.x
kibana.x86_64                                7.4.0-1                                kibana-7.x
kibana.x86_64                                7.4.1-1                                elasticsearch-7.x
kibana.x86_64                                7.4.1-1                                kibana-7.x
kibana.x86_64                                7.4.1-1                                kibana-7.x
kibana.x86_64                                7.4.2-1                                elasticsearch-7.x
kibana.x86_64                                7.4.2-1                                kibana-7.x
kibana.x86_64                                7.4.2-1                                kibana-7.x
kibana.x86_64                                7.5.0-1                                elasticsearch-7.x
kibana.x86_64                                7.5.0-1                                kibana-7.x
kibana.x86_64                                7.5.1-1                                elasticsearch-7.x
kibana.x86_64                                7.5.1-1                                kibana-7.x
kibana.x86_64                                7.5.1-1                                kibana-7.x
kibana.x86_64                                7.5.2-1                                elasticsearch-7.x
kibana.x86_64                                7.5.2-1                                kibana-7.x
kibana.x86_64                                7.5.2-1                                kibana-7.x
kibana.x86_64                                7.6.0-1                                elasticsearch-7.x
kibana.x86_64                                7.6.0-1                                kibana-7.x
```

4. Selecionando a versão 7.10.0 do Kibana:

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

```
[root@edipo-dev ~]# sudo yum install kibana-7.10.0-1.x86_64
Loaded plugins: fastestmirror
Loading mirror speeds from cached hostfile
epel/x86_64/metalink | 45 kB 00:00:00
* base: mirror.nbtelecom.com.br
* epel: d2l2kl7pfhq30w.cloudfront.net
* extras: mirror.nbtelecom.com.br
* updates: mirror.nbtelecom.com.br
base | 3.6 kB 00:00:00
elasticsearch-7.x | 1.3 kB 00:00:00
epel | 4.7 kB 00:00:00
extras | 2.9 kB 00:00:00
kibana-7.x | 1.3 kB 00:00:00
nodesource | 2.5 kB 00:00:00
updates | 2.9 kB 00:00:00
(1/2): epel/x86_64/updateinfo | 1.0 MB 00:00:00
(2/2): epel/x86_64/primary_db | 7.0 MB 00:00:00
Resolving Dependencies
--> Running transaction check
--> Package kibana.x86_64 0:7.4.0-1 will be updated
--> Package kibana.x86_64 0:7.10.0-1 will be an update
--> Finished Dependency Resolution

Dependencies Resolved

=====
Package Arch Version Repository Size
=====
Updating:
kibana x86_64 7.10.0-1 elasticsearch-7.x 245 M
=====
Transaction Summary
=====
Upgrade 1 Package

Total download size: 245 M
Is this ok [y/d/N]: y
Downloading packages:
Delta RPMs disabled because /usr/bin/applydeltarpm not installed.
kibana-7.10.0-1.x86_64.rpm | 245 MB 00:00:38
Running transaction check
Running transaction test
Transaction test succeeded
Running transaction
  Updating : kibana-7.10.0-1.x86_64 1/2
warning: /etc/kibana/kibana.yml created as /etc/kibana/kibana.yml.rpmnew
Stopping kibana service...Stopping kibana (via systemctl): [ OK ]
  Cleanup : kibana-7.4.0-1.x86_64 2/2
  Verifying : kibana-7.10.0-1.x86_64 1/2
  Verifying : kibana-7.4.0-1.x86_64 2/2

Updated:
kibana.x86_64 0:7.10.0-1

Complete!
```

5. Após a atualização finalizar, recarregue os serviços:

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

6. Inicie os serviços do Kibana:

```
$ sudo systemctl start kibana.service
```

7. Verifique se os serviços foram iniciados com sucesso:

```
● kibana.service - Kibana
   Loaded: loaded (/etc/systemd/system/kibana.service; enabled; vendor preset: enabled)
   Active: active (running) since Wed 2022-02-09 16:38:39 -03; 8s ago
     Main PID: 43125 (node)
        Tasks: 11 (limit: 4612)
       Memory: 198.5M
      CGroup: /system.slice/kibana.service
              └─43125 /usr/share/kibana/bin/./node/bin/node /usr/share/kibana/bin/./src/cli/dist

Feb 09 16:38:39 templetelk systemd[1]: Started Kibana.
```

8. Acesse a aplicação e faça login para confirmar o sucesso da atualização:

