## QCAT - Bug #1093

## Server failure: massive requests over API error in elasticsearch

12 Oct 2016 12:02 - Kurt Gerber

Status: Closed Start date: 12 Oct 2016 **Priority:** Normal Due date: % Done: 100% Assignee: **Estimated time:** 0.00 hour Category: Target version: **QCAT Backlog** Spent time: 0.00 hour Resolution:

### Description

### **Problem**

During the Night between 11.10 and 12.10.2016, before midnight, massive requests to the api have happened which produced errors in elasticsearch.

The requests all came from the following IP address: 81.142.94.122

I guess it is UNCCD, but I have to ask them...

This request started on 11/Oct/2016:23:39:04:

```
81.142.94.122 - - [11/Oct/2016:23:39:04 +0200] "GET /en/api/v1/questionnaires/?page=5902268 HTTP/1 .1" 500 1345 "-" "Java/1.7.0_55" 81.142.94.122 - - [11/Oct/2016:23:39:04 +0200] "GET /en/api/v1/questionnaires/?page=3882341 HTTP/1 .1" 500 1345 "-" "Java/1.7.0_55"
```

with more than 10 requests per second.

In elasticsearch each request produced this error message:

```
[2016-10-11 23:39:04,441][DEBUG][action.search.type ] [Peggy Carter] [qcat_wocat_1][0], node
[kv7klLv0RAW7S_yCAHe7Xw], [P], v[16], s[STARTED], a[id=fGjNxJO3TSq6pYGh5XWD1A]: Failed to execute
[org.elasticsearch.action.search.SearchRequest@4418d4ae] lastShard [true]
RemoteTransportException[[Peggy Carter][127.0.0.1:9300][indices:data/read/search[phase/query]]]; n
ested: QueryPhaseExecutionException[Result window is too large, from + size must be less than or e
qual to: [10000] but was [97208550]. See the scroll api for a more efficient way to request large
data sets. This limit can be set by changing the [index.max_result _window] index level parameter.
1;
Caused by: QueryPhaseExecutionException[Result window is too large, from + size must be less than
or equal to: [10000] but was [97208550]. See the scroll api for a more efficient way to request la
rge data sets. This limit can be set by changing the [index.max_result_window] index level paramet
er.]
                   \verb|at org.e| lastic search.search.internal.Default Search Context.pre Process (Default Search Context
java:200)
                   at org.elasticsearch.search.query.QueryPhase.preProcess(QueryPhase.java:103)
                   at org.elasticsearch.search.SearchService.createContext(SearchService.java:674)
                   at org.elasticsearch.search.SearchService.createAndPutContext(SearchService.java:618)
                   at org.elasticsearch.search.Service.executeQueryPhase(SearchService.java:369)
```

at org.elasticsearch.search.action.SearchServiceTransportAction\$SearchQueryTransportHandle r.messageReceived(SearchServiceTransportAction.java:368)

at org.elasticsearch.search.search.searchServiceTransportAction\$SearchQueryTransportHandle

at org.elasticsearch.search.action.SearchServiceTransportAction\$SearchQueryTransportHandler.messageReceived(SearchServiceTransportAction.java:365)

at org.elasticsearch.transport.TransportService\$4.doRun(TransportService.java:350)

at org.elasticsearch.common.util.concurrent.AbstractRunnable.run(AbstractRunnable.java:37)

 $\verb|at java.util.concurrent.ThreadPoolExecutor.runWorker(ThreadPoolExecutor.java:1142)| \\$ 

at java.util.concurrent.ThreadPoolExecutor\$Worker.run(ThreadPoolExecutor.java:617)

at java.lang.Thread.run(Thread.java:745)

This produced a log file of more than 1 GB per hour.

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After 2:00 in the morning of 12.10.2016 /var/log run out of space and the application crashed.

# **Solution for the moment:**

• IP Adresse 81.142.94.122 blocked completely in the firewall

## Subtasks:

Task # 1094: fail2ban rule to ban ip adresses spoofing qcat

Task # 1095: More robust behavior of elasticsearch

Closed

#### History

## #1 - 05 Dec 2016 08:37 - Kurt Gerber

- Status changed from New to Closed

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