Elasticsearch Monitoring

Why doesn't the number of documents I see in SPM match the number of documents in my Elasticsearch index

SPM collects index stats from primary shards only. To see the total number of documents in an index, select all shards in that index and choose "sum". The list of shards and the "sum" function can be found in the "Shard filter" in the Index Stats report.

Can SPM collect metrics even when Elasticsearch HTTP API is disabled

Each SPM agent collects Elasticsearch metrics only from the local node by accessing the Stats API via HTTP. To allow only local access add the following to elasticsearch.yml. Don't forget to restart each ES node to whose elasticsearch.yml you add this.

```
http.host: "127.0.0.1"
```

Can I point SPM monitor to a non-localhost Elasticsearch node

Yes. Adjust /opt/spm/spm-monitor/conf/spm-monitor-config-*TOKEN_HERE*-default.properties and change the SPM_MONITOR_ES_NODE_HOSTPORT property from the default localhost:9200 value to use an alternative hostname:port. After that restart SPM monitor (if you are running a standalone version) or Elasticsearch process(es) with embedded SPM monitor.

My Elasticsearch is protected by basic HTTP authentication, can I use SPM

Yes. You just need to adjust /opt/spm/spm-monitor/conf/spm-monitor-config-*TOKEN_HERE*-default.properties file by adding the following two properties (replace values with your real username and password):

```
SPM_MONITOR_ES_NODE_BASICAUTH_USERNAME=yourUsername
SPM_MONITOR_ES_NODE_BASICAUTH_PASSWORD=yourPassword
```

Restart your SPM monitor after this change (either with **sudo service spm-monitor restart** in case of standalone monitor or by restarting Elasticsearch node if you are using in-process javaagent).

I am using SPM for Elasticsearch monitor and I don't see Index (and/or Refresh/Flush/Merge) stats, why is that

SPM for Elasticsearch monitor collects Index stats only from primary shards, so it is possible that you installed SPM monitor on some Elasticsearch node which hosts only replicas. The same is also true for Refresh/Flush and Merge stats. Also note that SPM Elasticsearch monitor should be installed on all your Elasticsearch nodes to get the complete picture of your cluster in SPM Reports UI.