Elasticsearch

For Developer

SPRINT3R

Siam Chamnankit Co., Ltd., Odd-e (Thailand) Co., Ltd. and Alliance

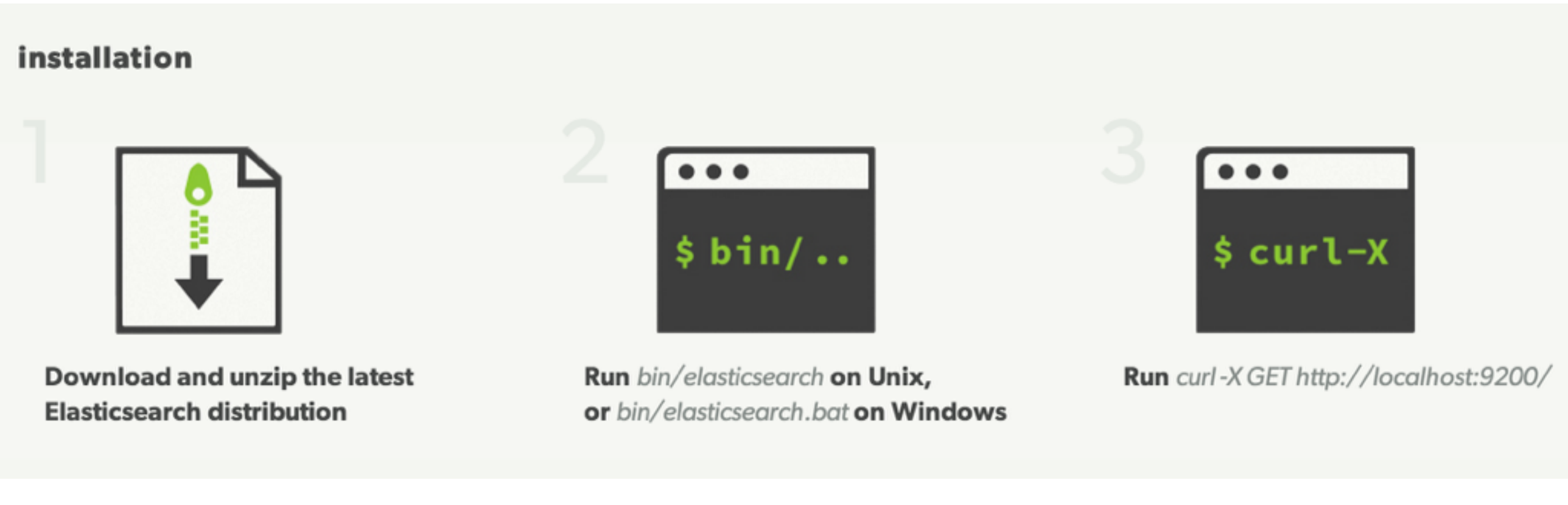
Software Requirement

JDK 1.7 +

Elasticsearch 1.7.3

Installation

https://www.elastic.co/downloads/elasticsearch

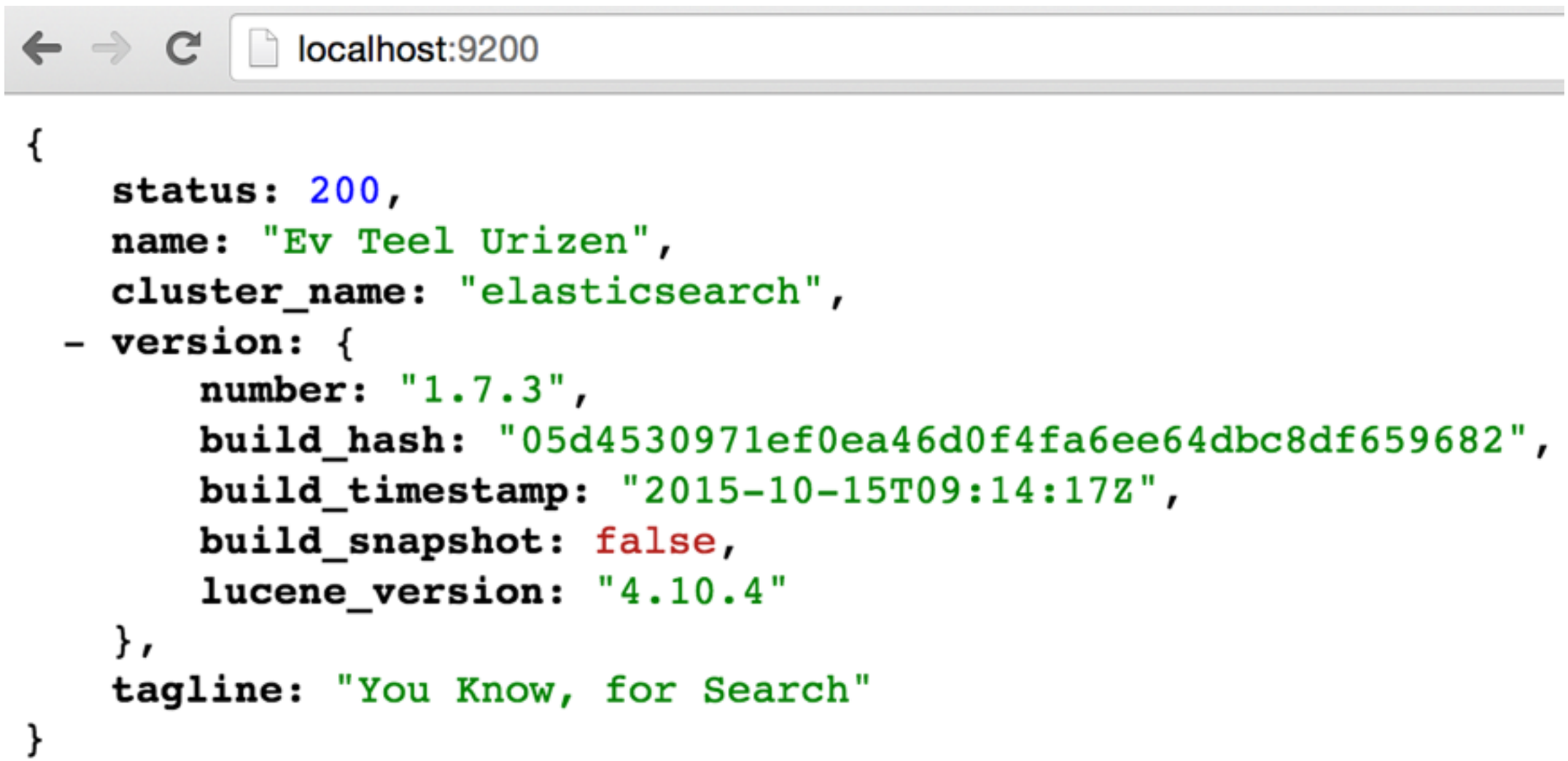


Starting

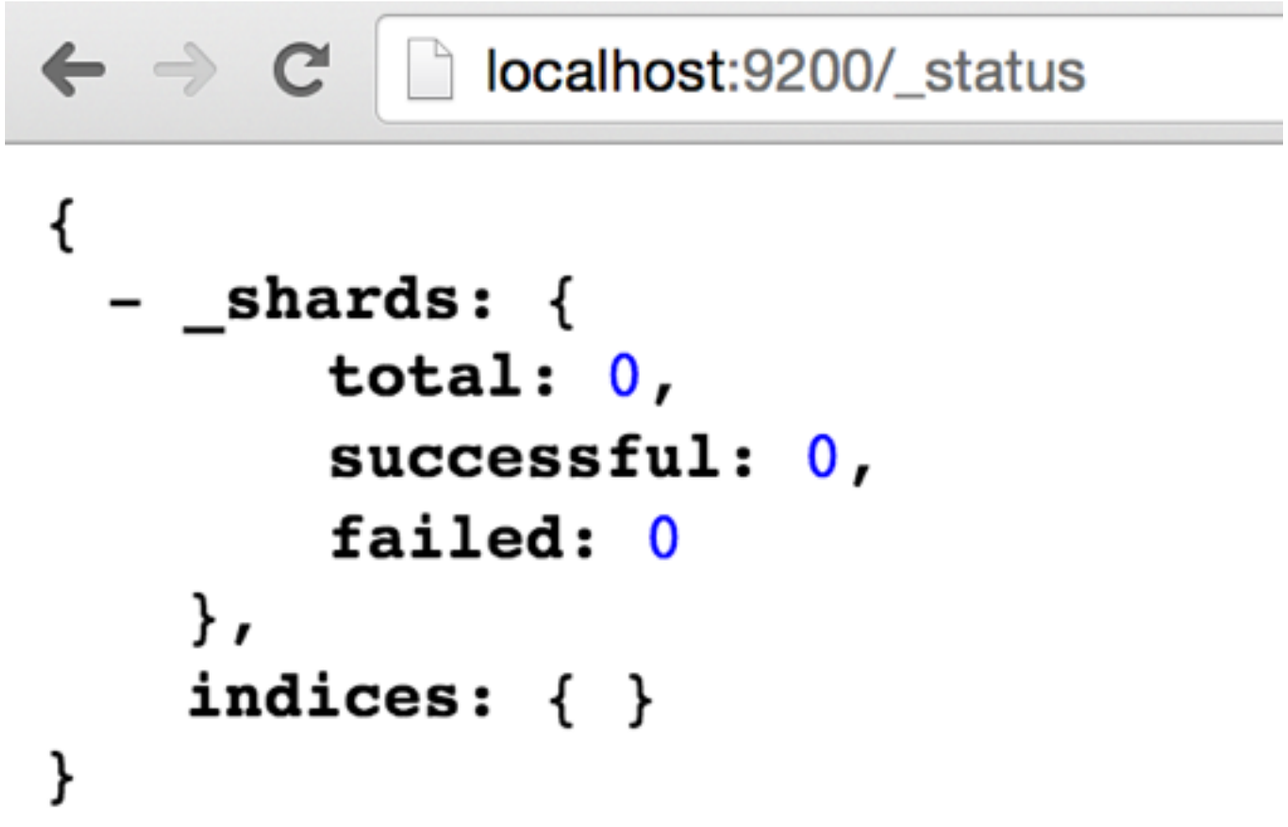
$ bin/elasticsearch

```
[2015-10-23 23:49:45,877][INFO ][node                     ] [Ev Teel Urizen] version[1.7.3], pid[8456], build[05d45
30/2015-10-15T09:14:17Z]
[2015-10-23 23:49:45,879][INFO ][node                     ] [Ev Teel Urizen] initializing ...
[2015-10-23 23:49:46,014][INFO ][plugins                  ] [Ev Teel Urizen] loaded [], sites []
[2015-10-23 23:49:46,064][INFO ][env                      ] [Ev Teel Urizen] using [1] data paths, mounts [[/ (/dev
/disk1)]], net usable_space [45.5gb], net total_space [232.6gb], types [hfs]
[2015-10-23 23:49:48,956][INFO ][node                     ] [Ev Teel Urizen] initialized
[2015-10-23 23:49:48,957][INFO ][node                     ] [Ev Teel Urizen] starting ...
[2015-10-23 23:49:49,073][INFO ][transport                ] [Ev Teel Urizen] bound_address {inet[/0:0:0:0:0:0:0:0:9
300]}, publish_address {inet[/192.168.1.34:9300]}
[2015-10-23 23:49:49,138][INFO ][discovery                ] [Ev Teel Urizen] elasticsearch/DHigYPCkRi661MxqqmZRpw
[2015-10-23 23:49:52,928][INFO ][cluster.service          ] [Ev Teel Urizen] new_master [Ev Teel Urizen][DHigYPCkRi
661MxqqmZRpw][MacBook-Pro-2.local][inet[/192.168.1.34:9300]], reason: zen-disco-join (elected_as_master)
[2015-10-23 23:49:52,947][INFO ][http                     ] [Ev Teel Urizen] bound_address {inet[/0:0:0:0:0:0:0:0:9
200]}, publish_address {inet[/192.168.1.34:9200]}
[2015-10-23 23:49:52,948][INFO ][node                     ] [Ev Teel Urizen] started
[2015-10-23 23:49:52,957][INFO ][gateway                  ] [Ev Teel Urizen] recovered [0] indices into cluster_sta
te
```

Welcome to Elasticsearch



ตรวจสอบสถานะ



CAT API


```
=^.^=
/_cat/allocation
/_cat/shards
/_cat/shards/{index}
/_cat/master
/_cat/nodes
/_cat/indices
/_cat/indices/{index}
/_cat/segments
/_cat/segments/{index}
/_cat/count
/_cat/count/{index}
/_cat/recovery
/_cat/recovery/{index}
/_cat/health
/_cat/pending_tasks
/_cat/aliases
/_cat/aliases/{alias}
/_cat/thread_pool
/_cat/plugins
/_cat/fielddata
/_cat/fielddata/{fields}
```

https://www.elastic.co/guide/en/elasticsearch/guide/current/_cat_api.html

มันทำงานอย่างไร

bin/

elasticsearch

plugin

config/

elasticsearch.yml

logging.yml

lib/

data/

Default port

9300

Internal communication

9200

HTTP REST

เปลี่ยนชื่อ Node

config/elasticsearch.yml

```
node.name=Somkiat
```

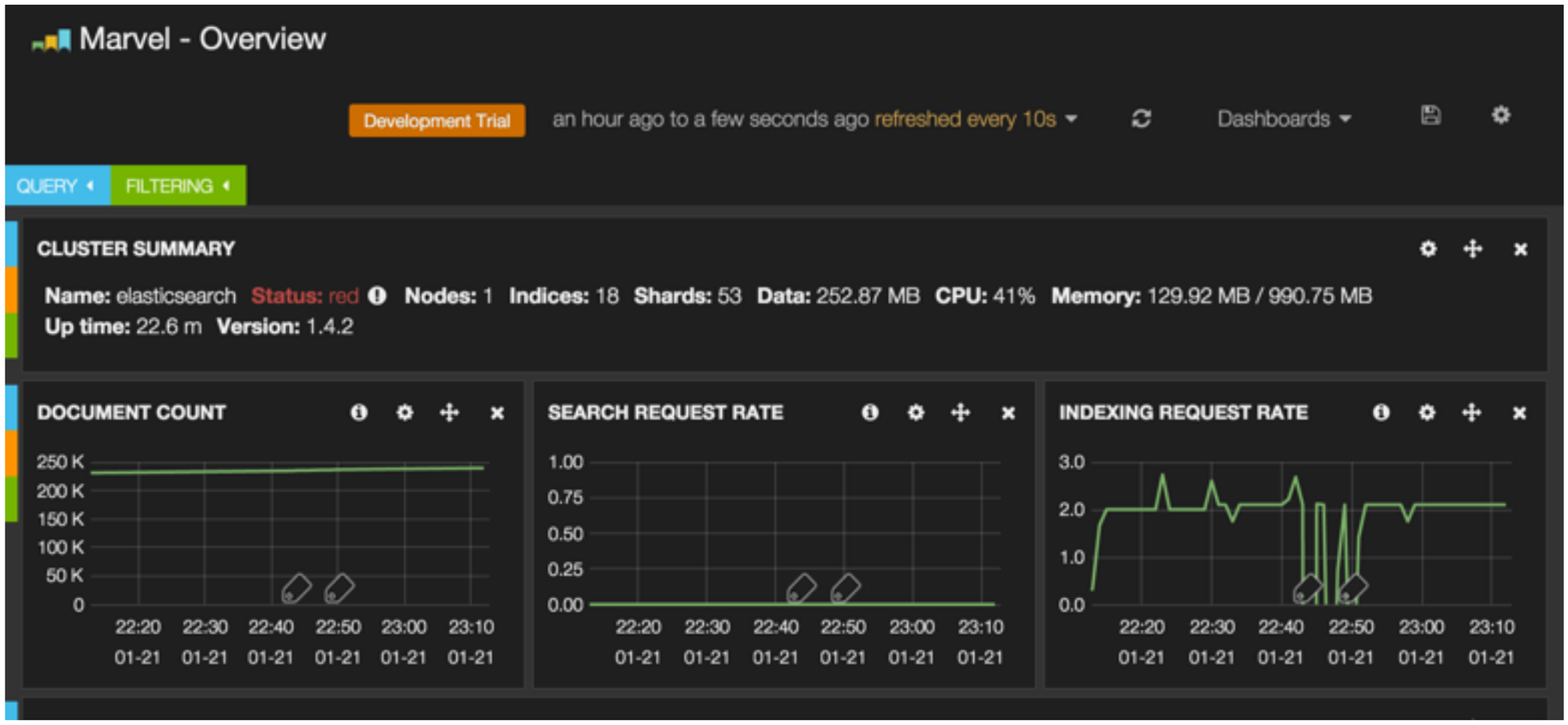
localhost:9200


```
{
  "status" : 200,
  "name" : "Somkiat",
  "version" : {
    "number" : "1.3.4",
    "build_hash" : "a70f3ccb52200f8f2c87e9c370c6597448eb3e45",
    "build_timestamp" : "2014-09-30T09:07:17Z",
    "build_snapshot" : false,
    "lucene_version" : "4.9"
  },
  "tagline" : "You Know, for Search"
}
```


https://github.com/elastic/elasticsearch

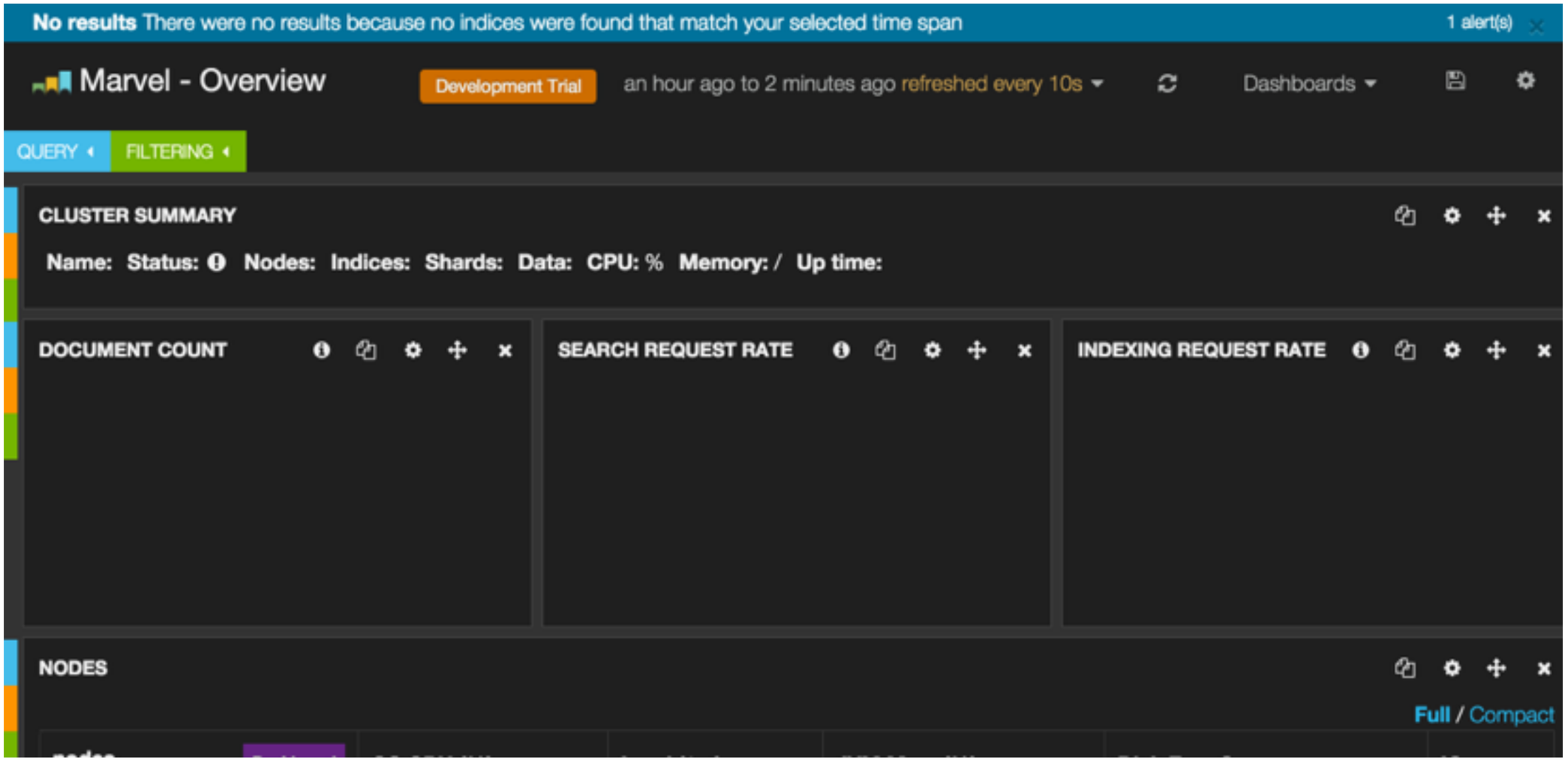
ติดตั้ง Plugin

```
$plugin -install elasticsearch/marvel/latest
```



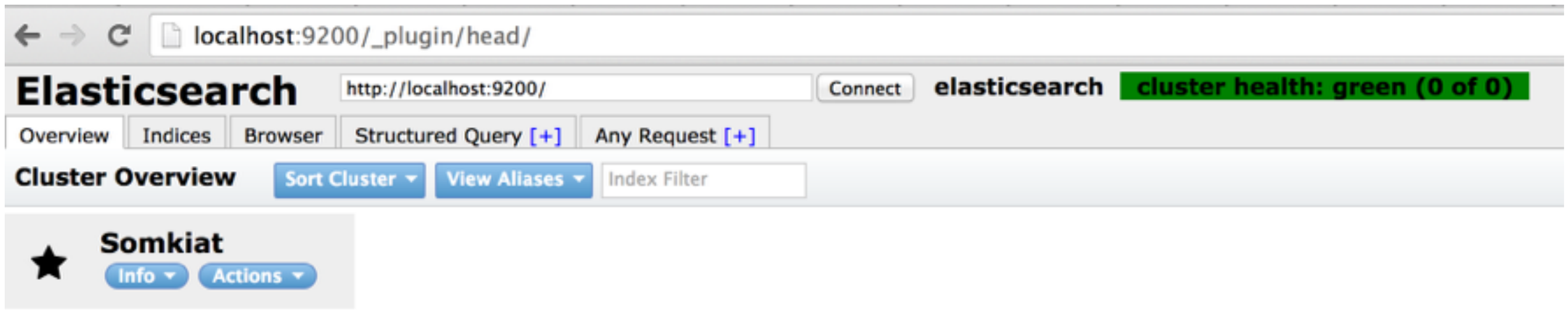
ใช้งาน marvel

http://localhost:9200/_plugin/marvel



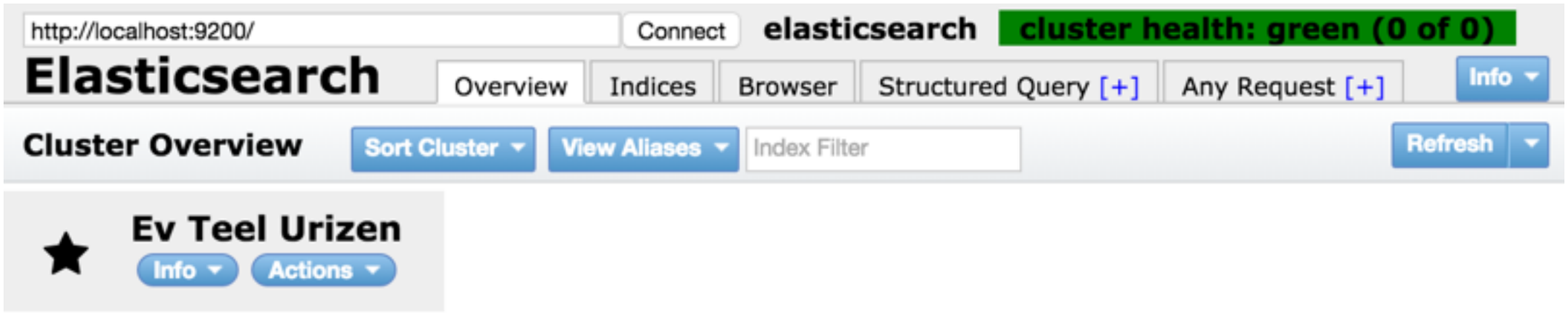
ติดตั้ง Plugin

```
$plugin -install mobz/elasticsearch-head
```



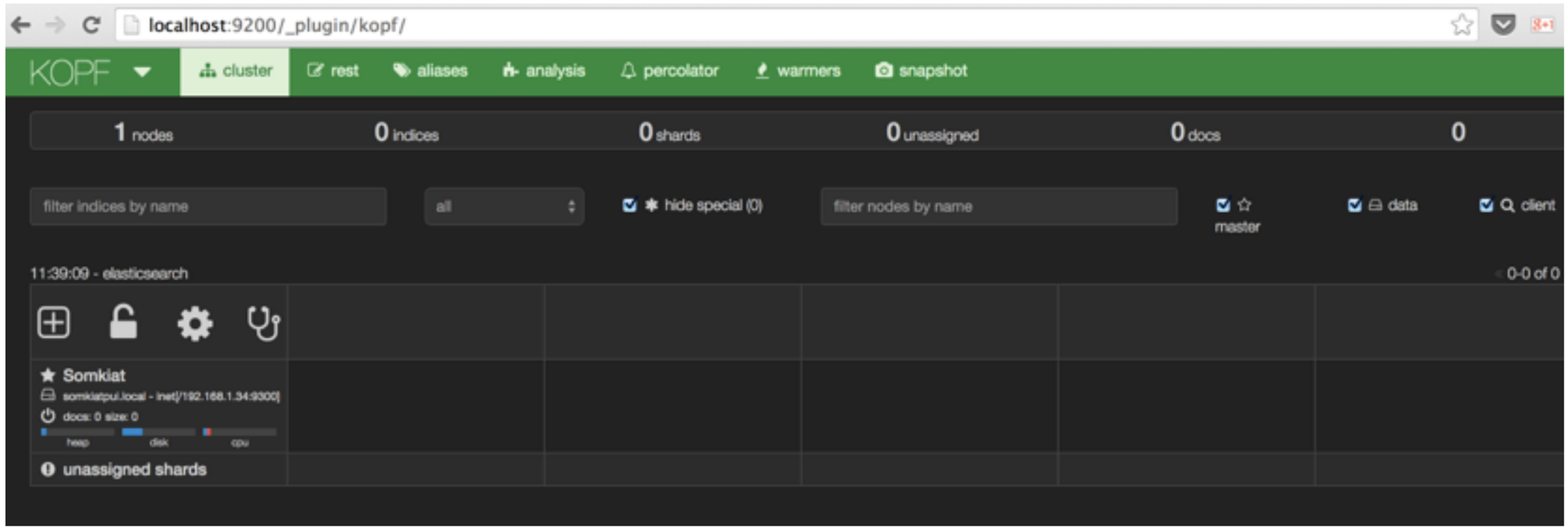
ใช้งาน head

http://localhost:9200/_plugin/head



ติดตั้ง Plugin

```
$plugin -install lmenezes/elasticsearch-kopf
```



ลบ Plugin

```
$plugin -remove mobz/elasticsearch-head
```

```
$plugin -remove head
```

Create index

curl -XPUT http://localhost:9200/blog/

REST APIs

```
curl –XPUT http://localhost:9200/blog/article/1 –d
        ‘{ "title": "New version of Elastic Search",
           "content": "…",
          "tags":["announce", "elasticsearch",
                  "release"]
}'
```

REST APIs

ชื่อ INDEX

```
curl -XPUT http://localhost:9200/blog/article/1 -d
        '{ "title": "New version of Elastic Search",
           "content": "...",
          "tags":["announce", "elasticsearch",
                  "release"]
}'
```

REST APIs

ชื่อ TYPE

```
curl -XPUT http://localhost:9200/blog/article/1 -d
        '{ "title": "New version of Elastic Search",
           "content": "...",
          "tags":["announce", "elasticsearch",
                  "release"]
}'
```

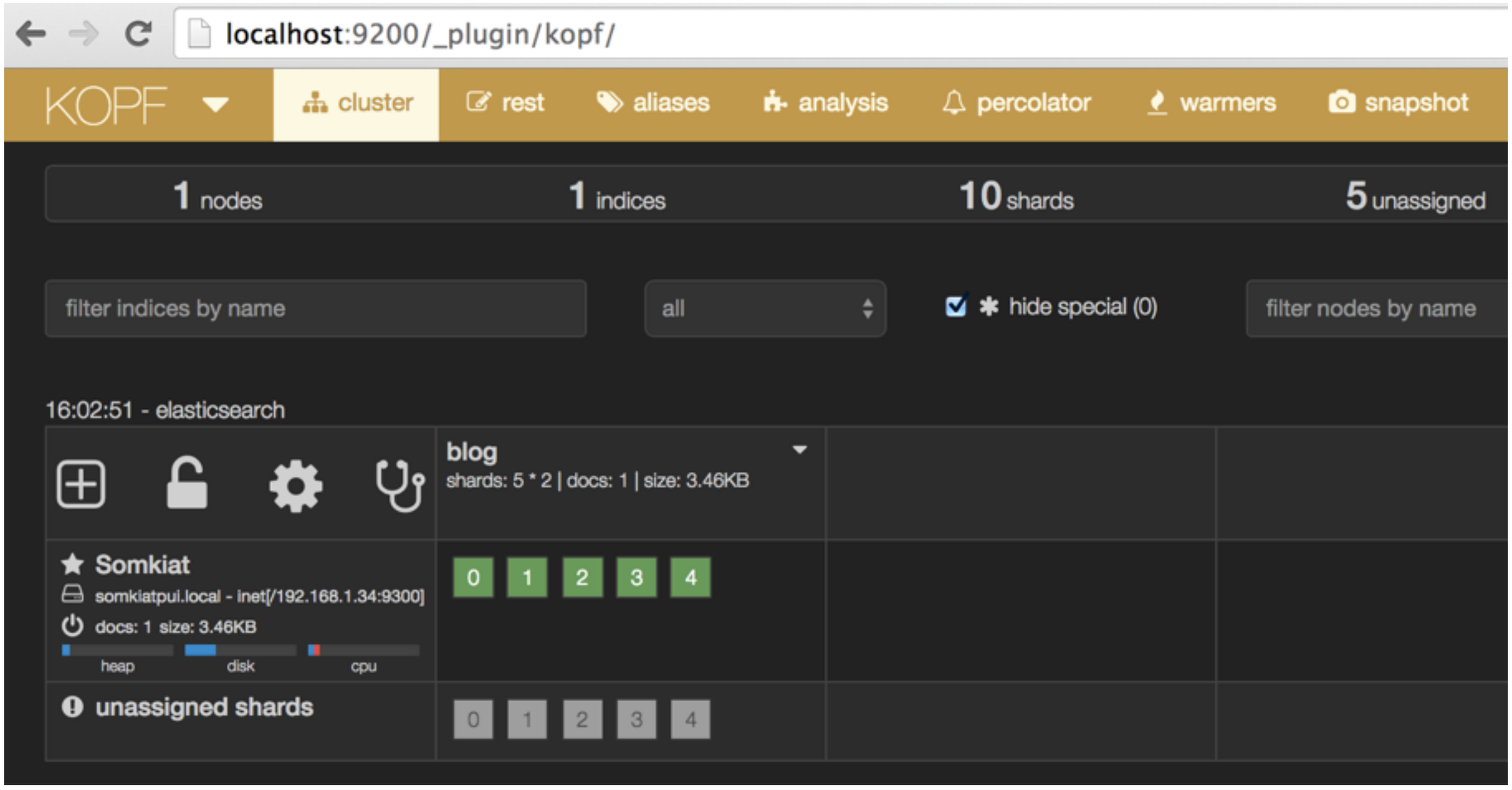
ดูข้อมูลหน่อย

curl –XGET http://127.0.0.1:9200/blog/article/_mapping?pretty=true

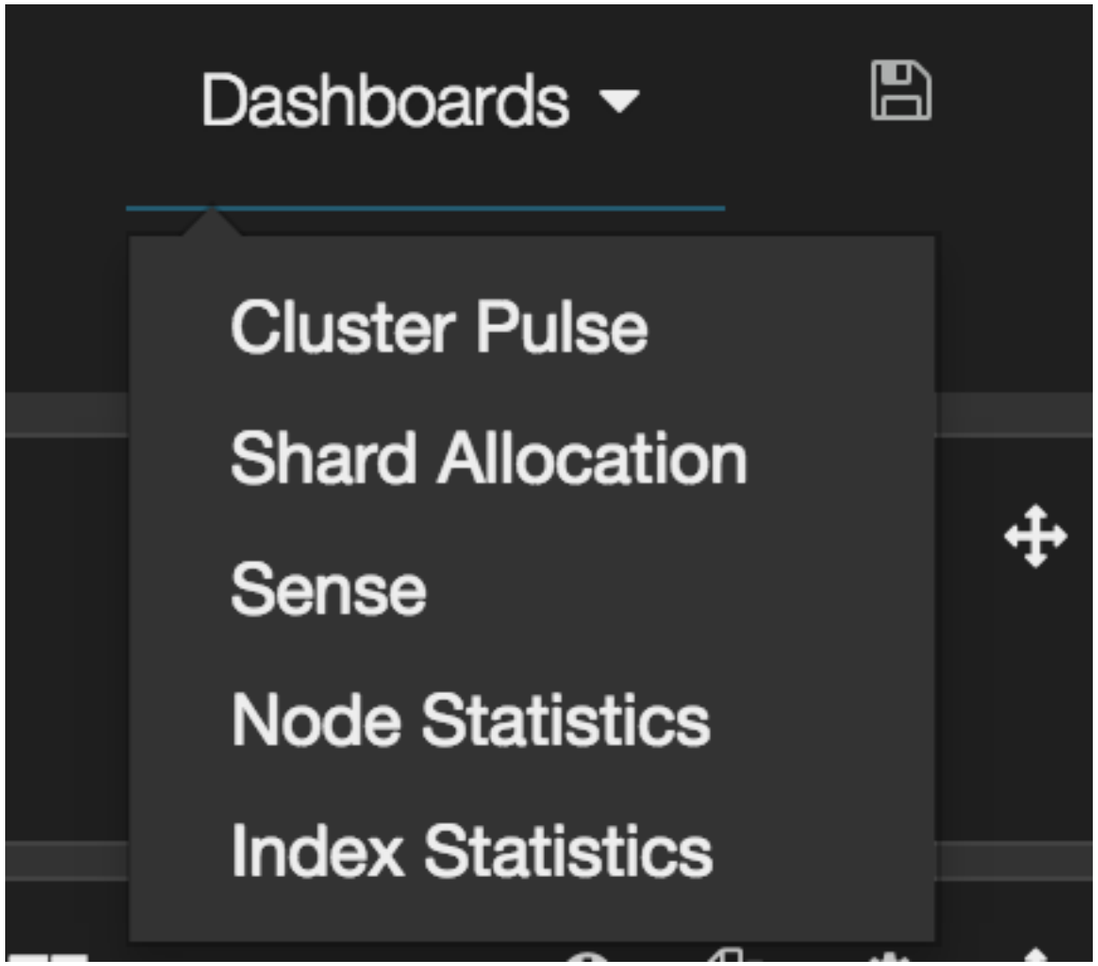

```
{
  "blog" : {
    "mappings" : {
      "article" : {
        "properties" : {
          "content" : {
            "type" : "string"
          },
          "tags" : {
            "type" : "string"
          },
          "title" : {
            "type" : "string"
          }
        }
      }
    }
  }
}
```

ตรวจสอบผลการทำงาน

ตรวจสอบผลการทำงาน



ใช้งาน Sense


Dashboards
Cluster Pulse
Shard Allocation
Sense
Node Statistics
Index Statistics

Delete index

curl -XDELETE http://localhost:9200/blog/

TIP :: Delete index

action.destructive_requires_name: true

https://www.elastic.co/guide/en/elasticsearch/reference/1.7/indices-delete-index.html