

# Elasticsearch

## For Developer



**logstash**

# Software Requirement

JDK 1.7 +

Elasticsearch 1.7.3

# Installation

<http://www.elasticsearch.org/download/>

## installation

1



**Download and unzip the latest Elasticsearch distribution**

2



**Run *bin/elasticsearch* on Unix,  
or *bin/elasticsearch.bat* on Windows**

3



**Run *curl -X GET http://localhost:9200/***

# Starting Elasticsearch

\$ bin/elasticsearch

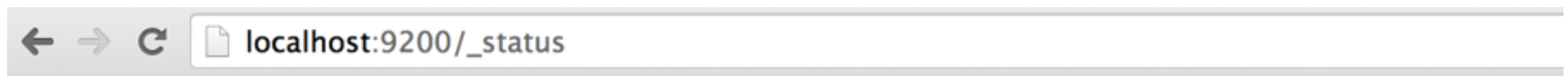
```
[2014-10-05 11:05:13,687][INFO ][node
4-09-30T09:07:17Z]
[2014-10-05 11:05:13,687][INFO ][node
[2014-10-05 11:05:13,693][INFO ][plugins
[2014-10-05 11:05:16,851][INFO ][node
[2014-10-05 11:05:16,851][INFO ][node
[2014-10-05 11:05:16,960][INFO ][transport
publish_address {inet[/192.168.1.34:9300]}
[2014-10-05 11:05:16,987][INFO ][discovery
[2014-10-05 11:05:20,005][INFO ][cluster.service
somkiatpui.local][inet[/192.168.1.34:9300]], reason: zen-disco-join (elected_as_master)
[2014-10-05 11:05:20,024][INFO ][http
publish_address {inet[/192.168.1.34:9200]}
[2014-10-05 11:05:20,024][INFO ][node
[2014-10-05 11:05:20,044][INFO ][gateway
] [Gremlin] version[1.3.4], pid[13984], build[a70f3cc/201
] [Gremlin] initializing ...
] [Gremlin] loaded [], sites []
] [Gremlin] initialized
] [Gremlin] starting ...
] [Gremlin] bound_address {inet[/0:0:0:0:0:0:0:0:9300]},
] [Gremlin] elasticsearch/8mAGrNt_Sf0EUhJHekxmkQ
] [Gremlin] new_master [Gremlin][8mAGrNt_Sf0EUhJHekxmkQ] [
] [Gremlin] bound_address {inet[/0:0:0:0:0:0:0:0:9200]},
] [Gremlin] started
] [Gremlin] recovered [0] indices into cluster_state
```

# Welcome to Elasticsearch

```
← → ↻ localhost:9200

{
  "status" : 200,
  "name" : "Gremlin",
  "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"
}
```

# ตรวจสอบสถานะ



```
{"_shards":{"total":0,"successful":0,"failed":0},"indices":{}}
```

# มันทำงานอย่างไร

bin/

elasticsearch  
plugin

config/

elasticsearch.yml  
logging.yml

lib/

data/

# Default port

**9300**

Internal communication

**9200**

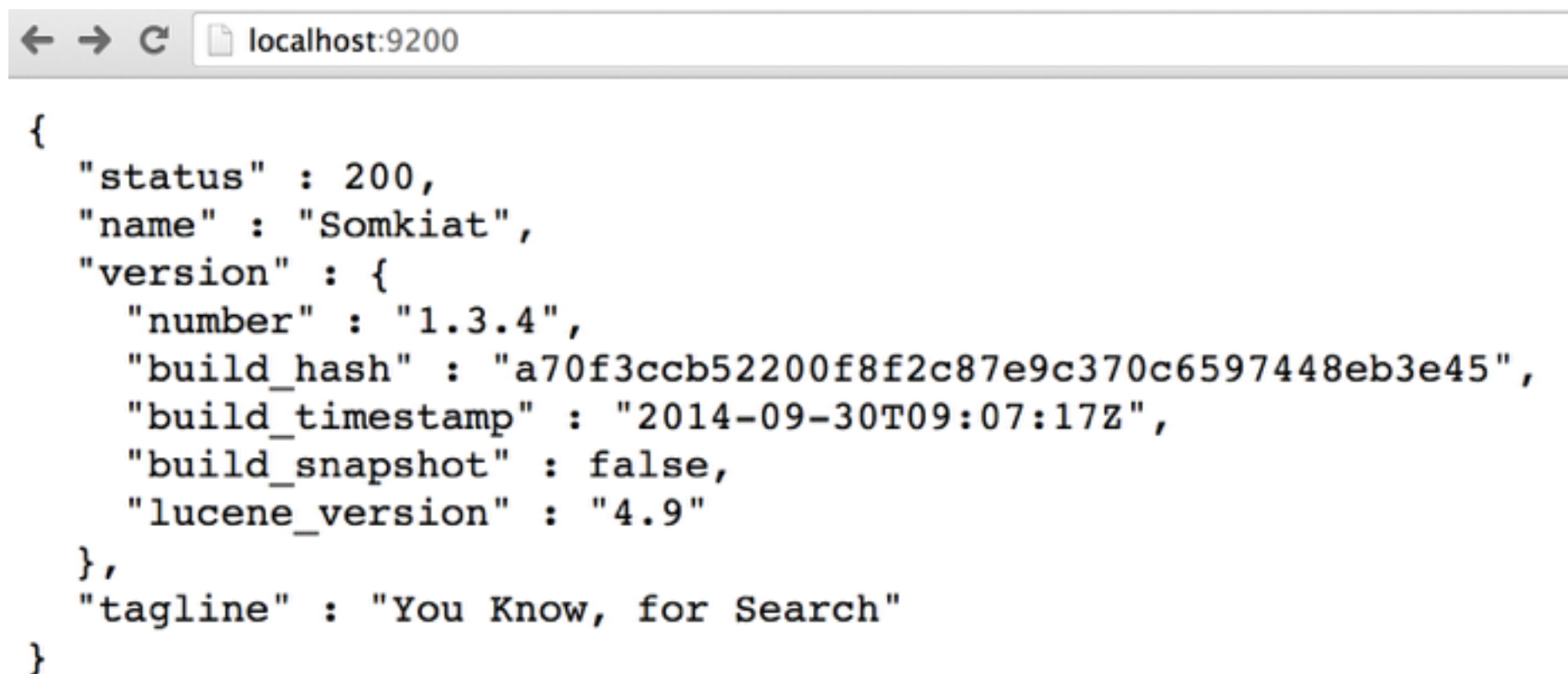
HTTP REST



# เปลี่ยนชื่อ Node

config/elasticsearch.yml

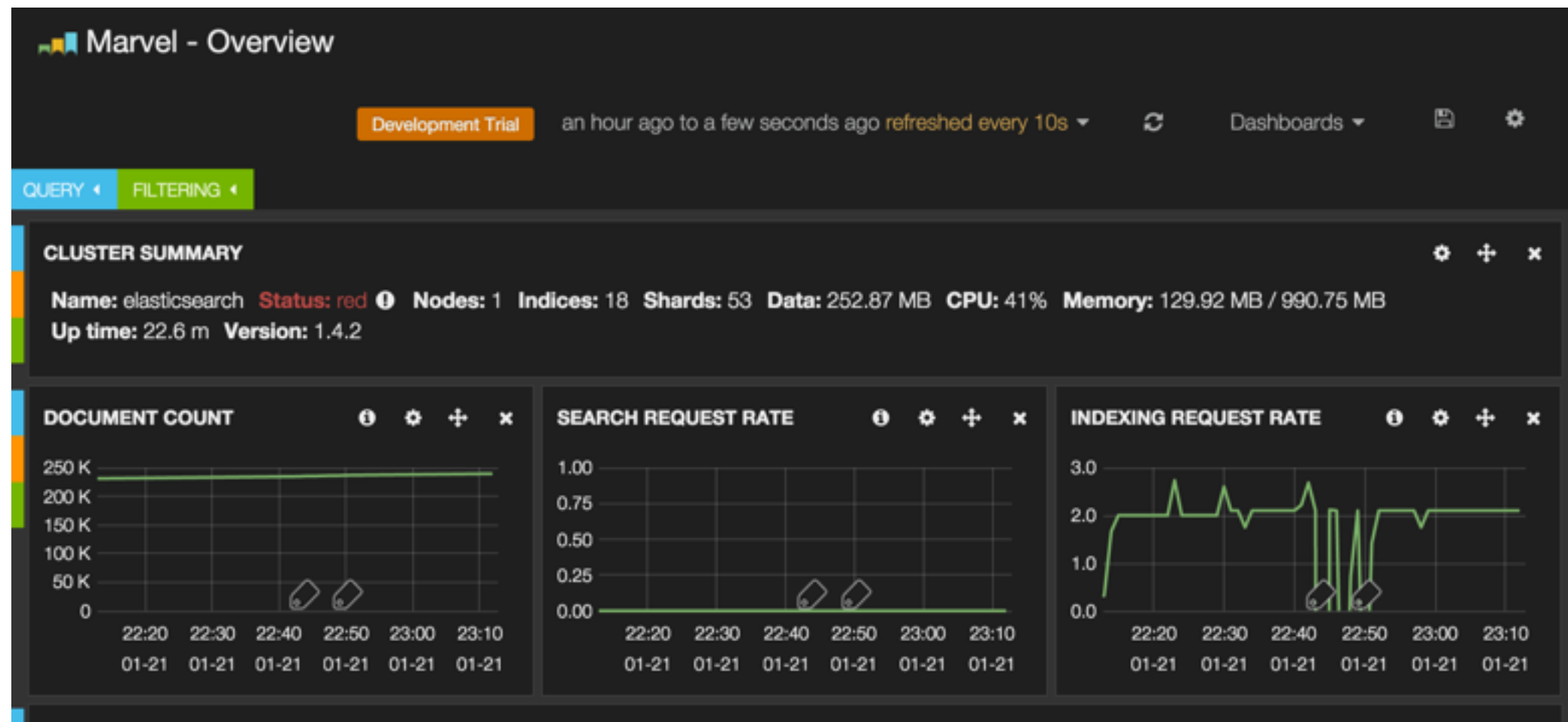
node.name=Somkiat



```
{
  "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"
}
```

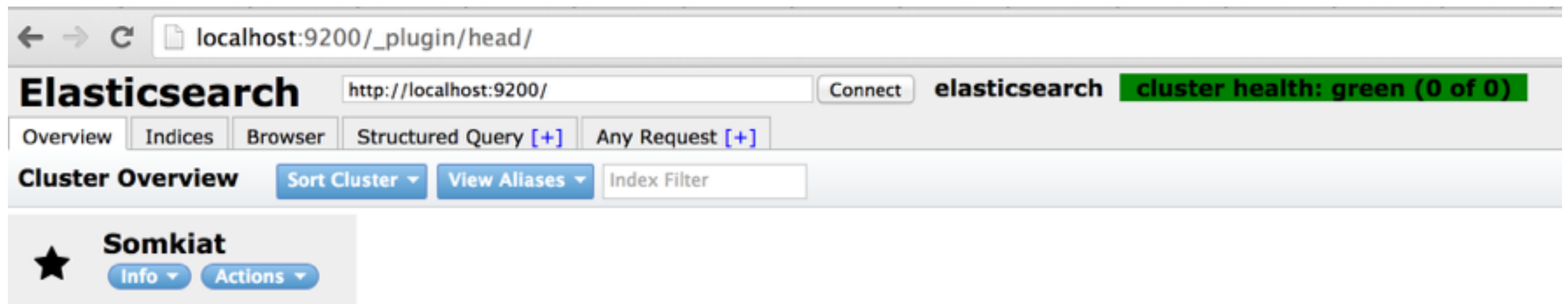
# ติดตั้ง Plugin

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



# ติดตั้ง Plugin

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



# 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

ชี้ อ 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

The screenshot shows the Elasticsearch Kibana interface at `localhost:9200/_plugin/head/`. The main header displays the Elasticsearch logo, the connection URL `http://localhost:9200/`, a 'Connect' button, and the cluster name 'elasticsearch' with a status of 'cluster health: yellow (5 of 10)'. Below the header, there are tabs for 'Overview', 'Indices', 'Browser', 'Structured Query [+]', and 'Any Request [+]'.

The 'Cluster Overview' section is active, showing a 'Sort Cluster' dropdown, a 'View Aliases' dropdown, and an 'Index Filter' input field. The main content area displays the 'blog' index with a size of 3.46ki (3.46ki) and 1 document. Below this, there are two rows of node allocation:

- Unassigned:** A row of five empty boxes labeled 0, 1, 2, 3, and 4.
- Somkiat:** A row of five green boxes labeled 0, 1, 2, 3, and 4, indicating that all five shards are assigned to the 'Somkiat' node.

Each node row has an 'Info' and 'Actions' button next to it.