

# Elasticsearch

**สมเกียรติ ปุ๋ยสูงเนิน**

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# Software Requirement

JDK 1.7 +

Elasticsearch 1.7.1

# 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

\$ bin/elasticsearch

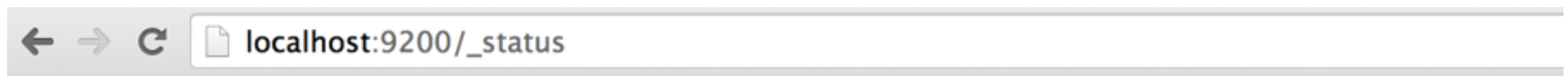
```
[2014-10-05 11:05:13,687][INFO ][node
4-09-30T09:07:17Z] ] [Gremlin] version[1.3.4], pid[13984], build[a70f3cc/201
[2014-10-05 11:05:13,687][INFO ][node] ] [Gremlin] initializing ...
[2014-10-05 11:05:13,693][INFO ][plugins] ] [Gremlin] loaded [], sites []
[2014-10-05 11:05:16,851][INFO ][node] ] [Gremlin] initialized
[2014-10-05 11:05:16,851][INFO ][node] ] [Gremlin] starting ...
[2014-10-05 11:05:16,960][INFO ][transport] ] [Gremlin] bound_address {inet[/0:0:0:0:0:0:0:0:9300]},
publish_address {inet[/192.168.1.34:9300]}
[2014-10-05 11:05:16,987][INFO ][discovery] ] [Gremlin] elasticsearch/8mAGrNt_Sf0EUhJHekxmKQ
[2014-10-05 11:05:20,005][INFO ][cluster.service] ] [Gremlin] new_master [Gremlin][8mAGrNt_Sf0EUhJHekxmKQ] [
somkiatpui.local][inet[/192.168.1.34:9300]], reason: zen-disco-join (elected_as_master)
[2014-10-05 11:05:20,024][INFO ][http] ] [Gremlin] bound_address {inet[/0:0:0:0:0:0:0:0:9200]},
publish_address {inet[/192.168.1.34:9200]}
[2014-10-05 11:05:20,024][INFO ][node] ] [Gremlin] started
[2014-10-05 11:05:20,044][INFO ][gateway] ] [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

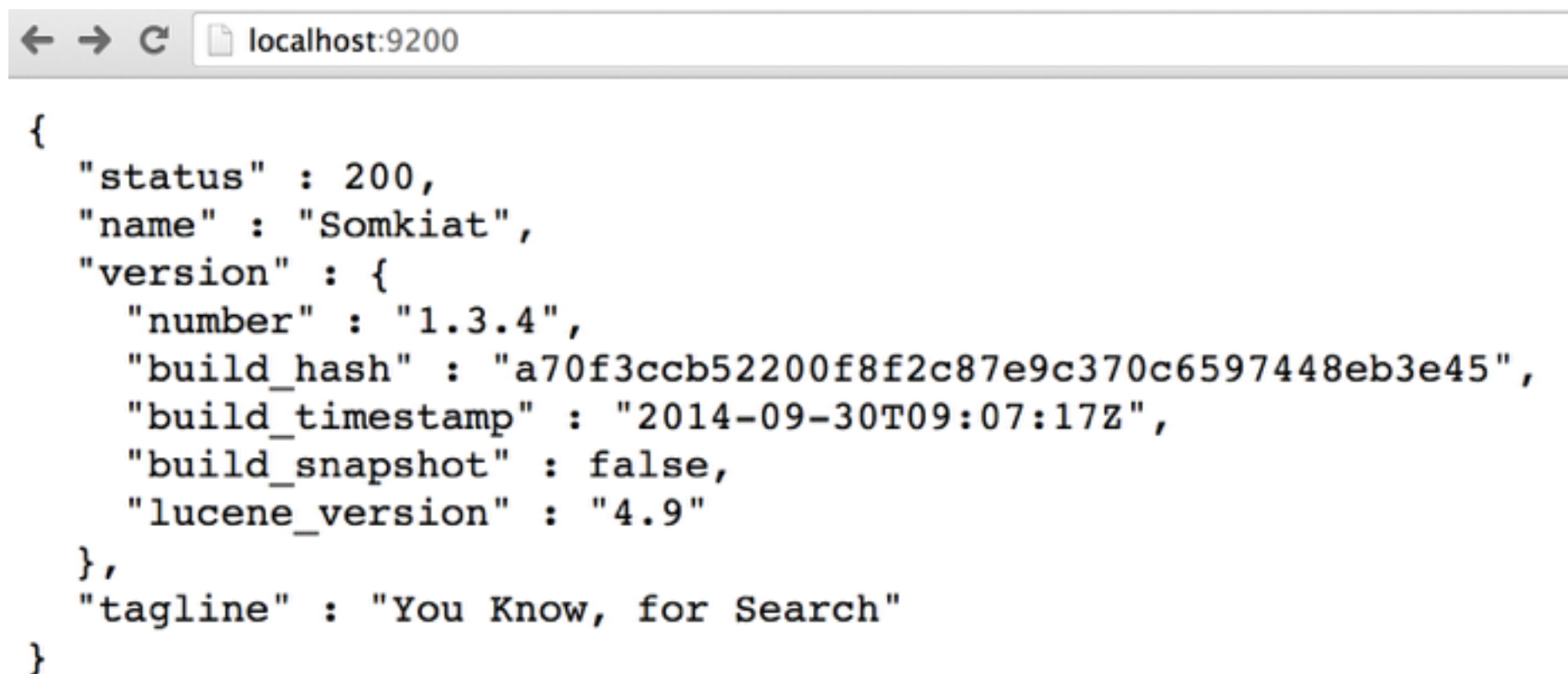
HTTP REST



# เปลี่ยนชื่อ Node

config/elasticsearch.yml

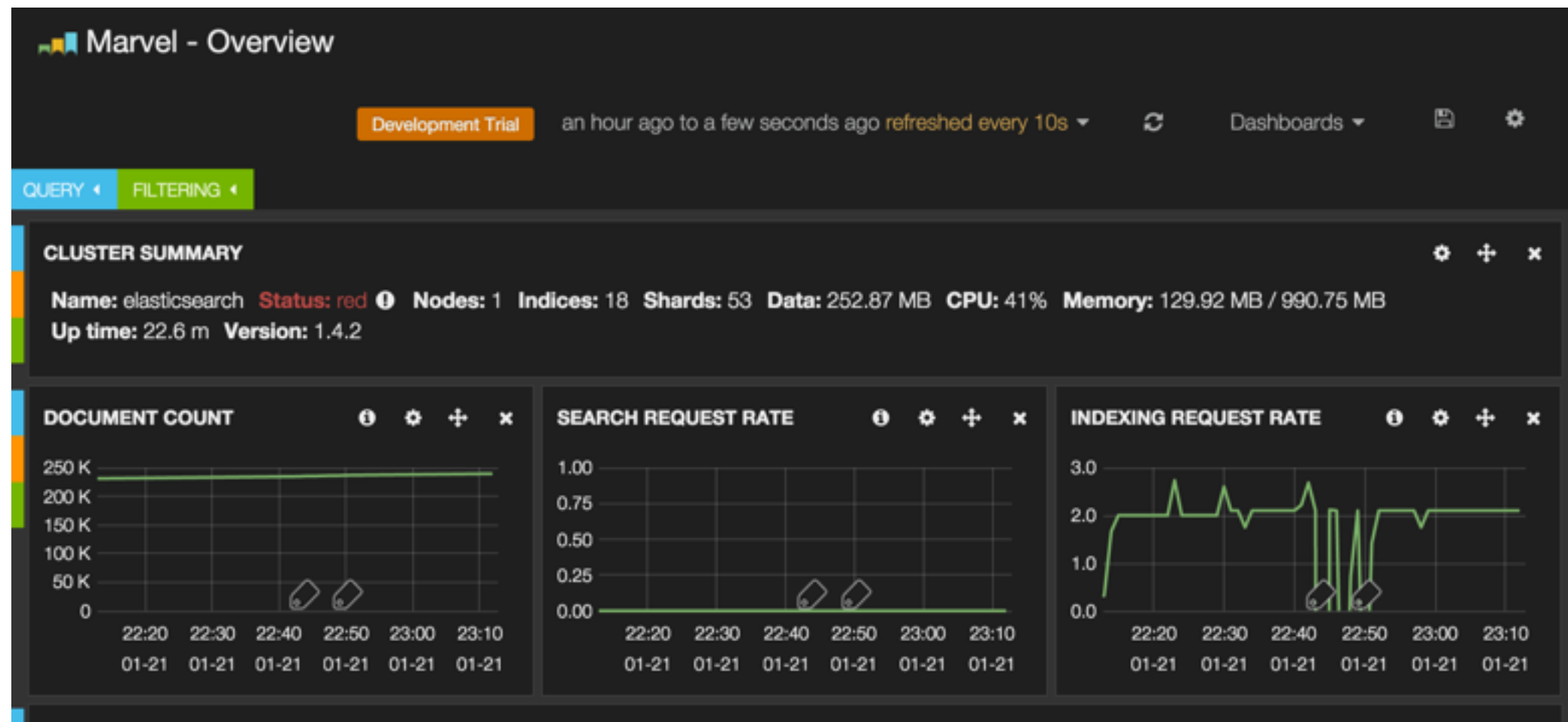
node.name=Somkiat



```
{
  "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"
}
```

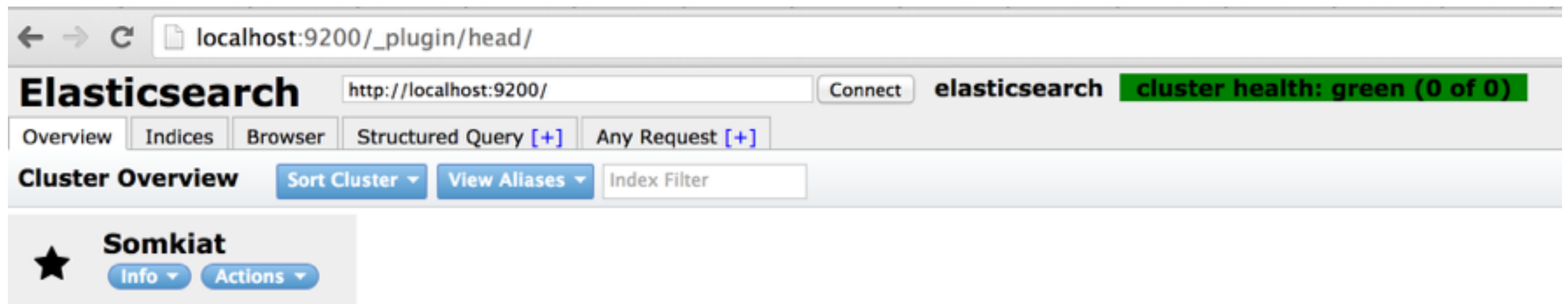
# ติดตั้ง Plugin

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



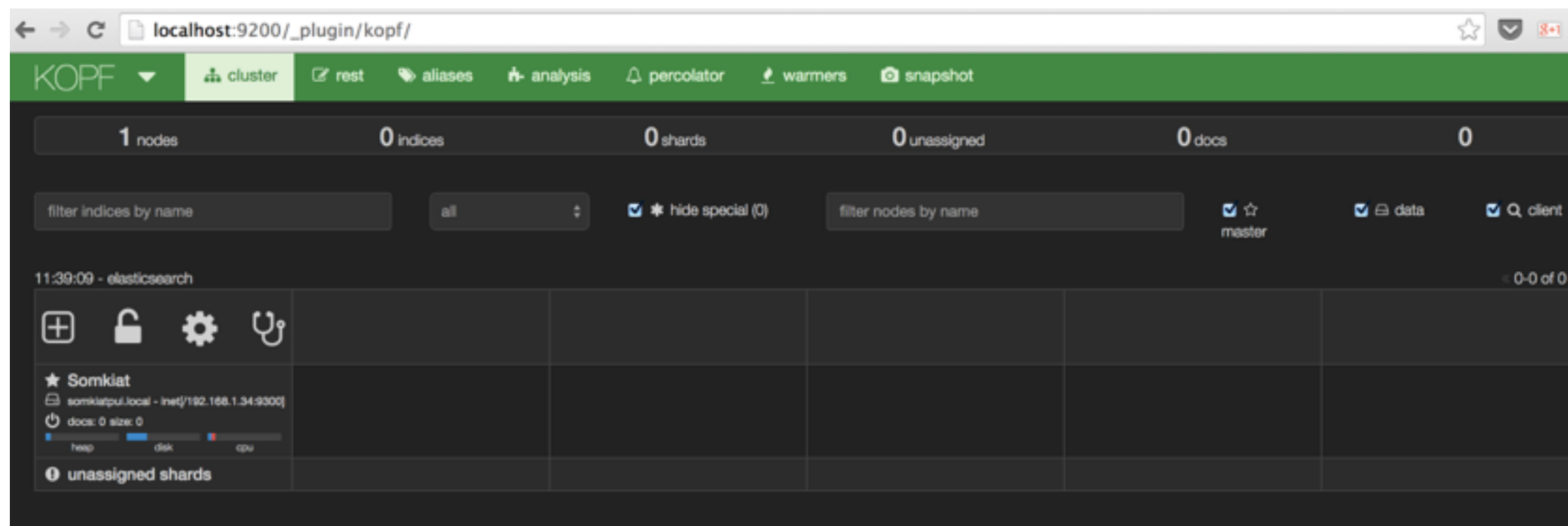
# ติดตั้ง Plugin

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



# 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

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 includes buttons for **Sort Cluster**, **View Aliases**, and an **Index Filter** input field.

The **blog** index is highlighted, showing a size of **3.46ki (3.46ki)** and **docs: 1 (1)**. Below this, there are **Info** and **Actions** buttons.

The node allocation section shows two nodes:

- Unassigned**: Represented by a warning icon and five empty boxes labeled 0, 1, 2, 3, and 4.
- Somkiat**: Represented by a star icon and five green boxes labeled 0, 1, 2, 3, and 4, indicating that all shards are assigned to this node.

# ตรวจสอบผลการทำงาน

