

Elasticsearch

สมเกียรติ ปุ๋ยสูงเนิน

SPRINT3R โดย บริษัท สยามชำนัญกิจ จำกัด บริษัท ออด-อี (ประเทศไทย) จำกัด และพันธมิตร

Software Requirement

JDK 1.7 +

Elasticsearch 1.4.2

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

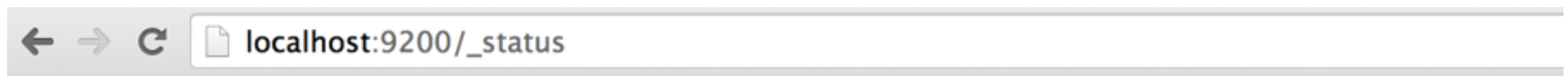
```
[2014-10-05 11:05:13,687][INFO ][node
4-09-30T09:07:17Z] ] [Gremlin] version[1.3.4], pid[13984], build[a70f3cc/201
[2014-10-05 11:05:13,687][INFO ][node] ] [Gremlin] initializing ...
[2014-10-05 11:05:13,693][INFO ][plugins] ] [Gremlin] loaded [], sites []
[2014-10-05 11:05:16,851][INFO ][node] ] [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

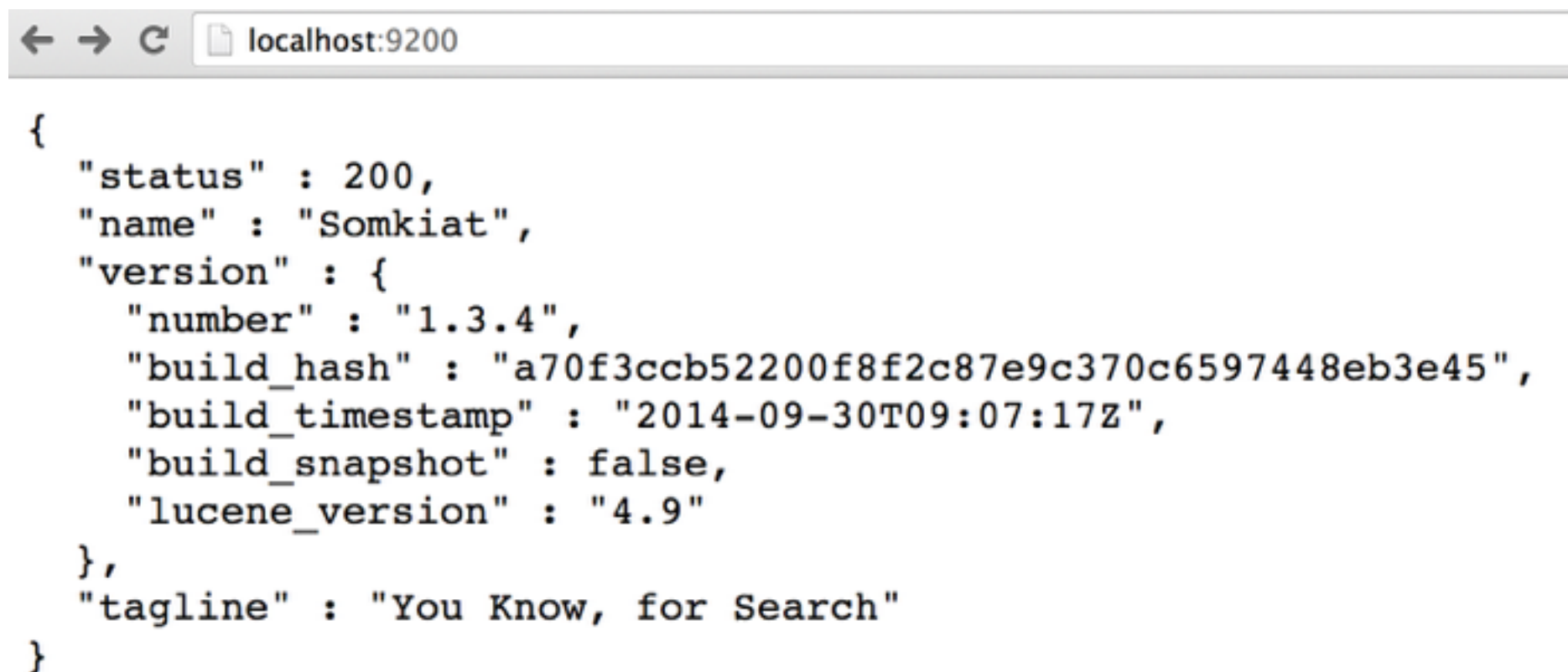
9200

HTTP REST

เปลี่ยนชื่อ Node

config/elasticsearch.yml

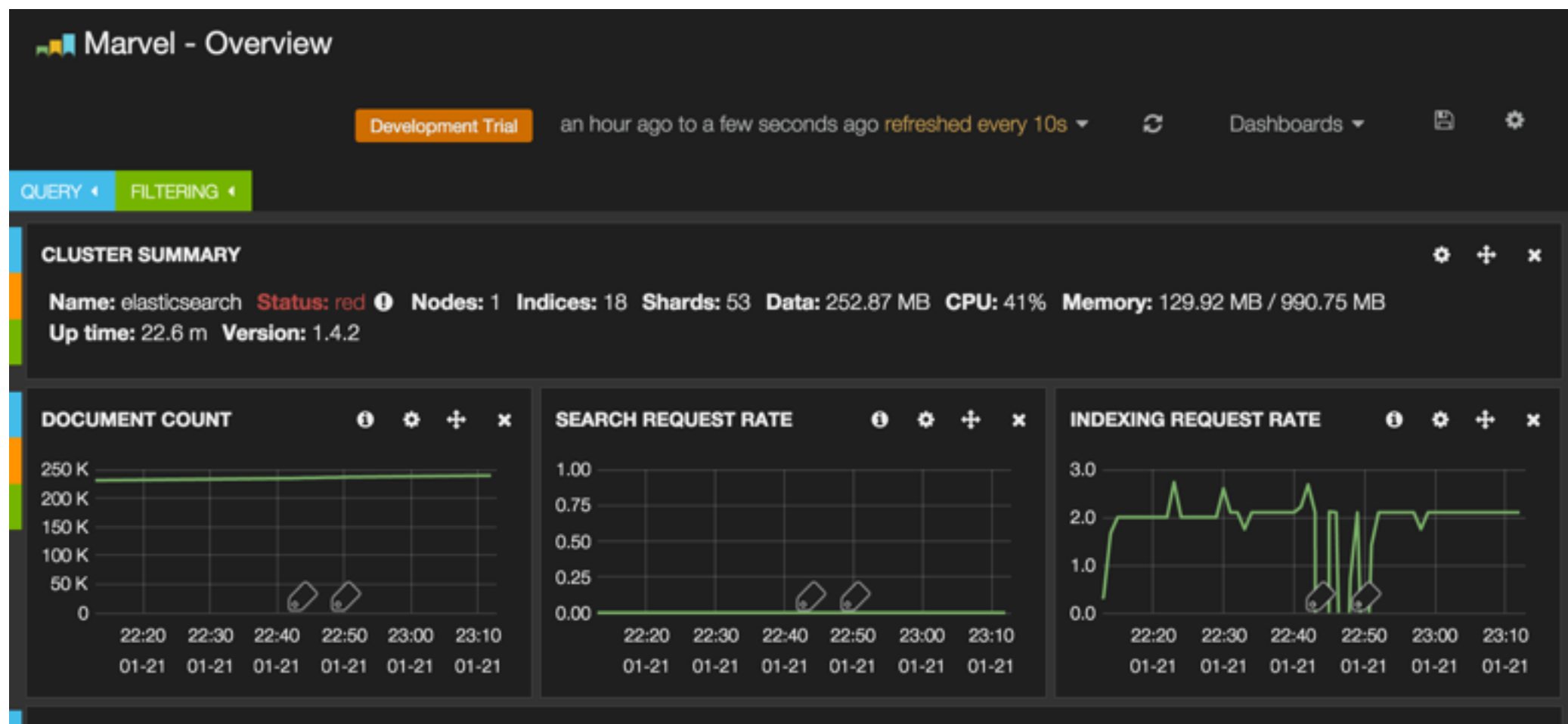
node.name=Somkiat



```
{
  "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"
}
```

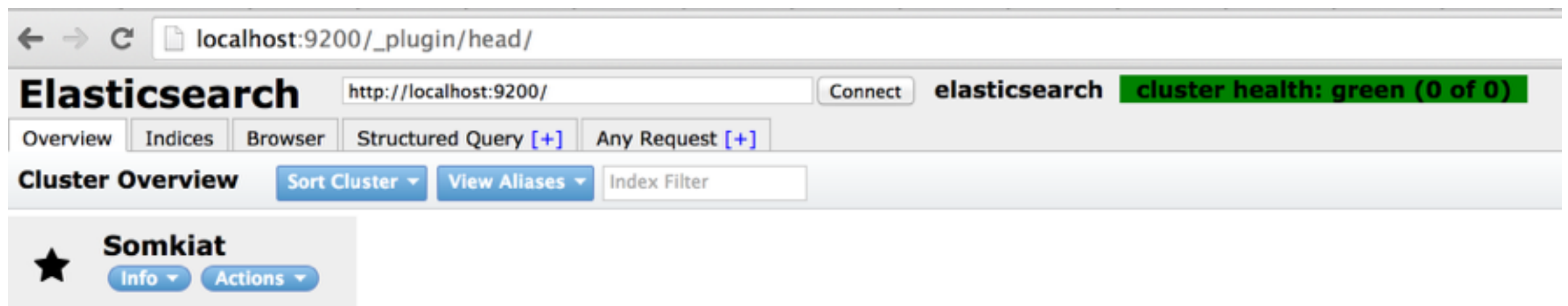
ติดตั้ง Plugin

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



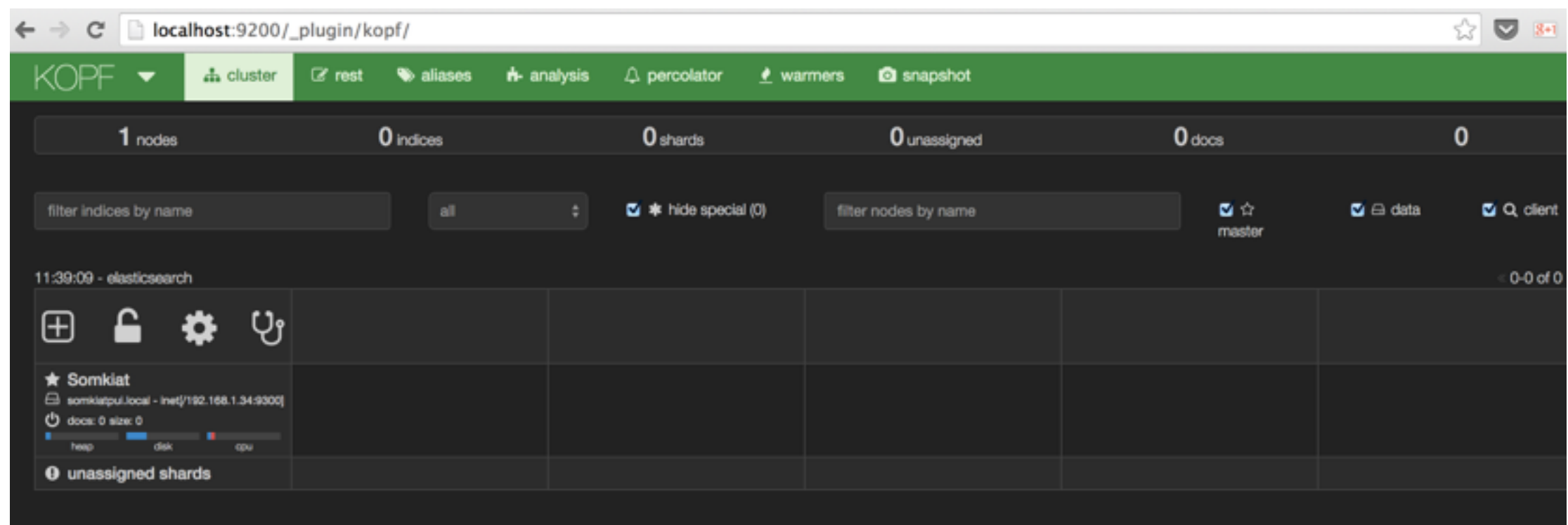
ติดตั้ง Plugin

```
$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



Index

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


REST APIs

ขอ 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. The browser address bar displays `localhost:9200/_plugin/head/`. The page title is **Elasticsearch**. The URL bar shows `http://localhost:9200/` with a **Connect** button. The cluster name is **elasticsearch** and the cluster health is **yellow (5 of 10)**. The navigation menu includes **Overview**, **Indices**, **Browser**, **Structured Query [+]**, and **Any Request [+]**. The **Cluster Overview** section has buttons for **Sort Cluster**, **View Aliases**, and an **Index Filter** input. The **blog** index is highlighted with a size of **3.46ki (3.46ki)** and **docs: 1 (1)**. Below the index name are **Info** and **Actions** buttons. The node allocation table shows two nodes: **Unassigned** (marked with a warning icon) and **Somkiat** (marked with a star icon). The **Unassigned** node has five empty slots (0-4). The **Somkiat** node has five slots (0-4), all of which are green, indicating they are assigned to the **blog** index.

Node	0	1	2	3	4
Unassigned					
Somkiat					

ตรวจสอบผลการทำงาน

localhost:9200/_plugin/kopf/





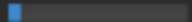
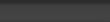
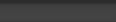





KOPF

cluster rest aliases analysis percolator warmers snapshot

1 nodes 1 indices 10 shards 5 unassigned

filter indices by name all ☒ * hide special (0) filter nodes by name

16:02:51 - elasticsearch

   	blog shards: 5 * 2 docs: 1 size: 3.46KB		
★ Somkiat somkiatpui.local - Inet[192.168.1.34:9300] docs: 1 size: 3.46KB  heap  disk  cpu	    		
! unassigned shards	