

Life in cluster

Scale as you need

- Scale up
- Scale out

คำที่ต้องเข้าใจ

- Cluster
- Node
- Shard

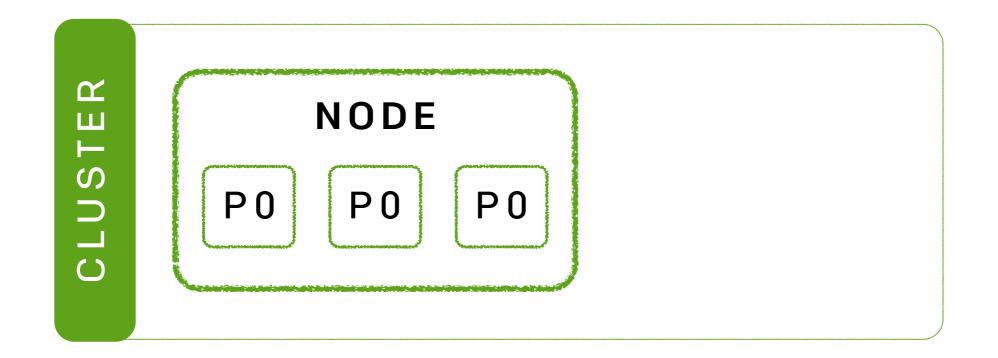
Empty cluster

NODE (MASTER)

Cluster health

GET _cluster/health GREEN, YELLOW, RED { "cluster_name": "elast.csearch", "status": "green", "timed_out": false, "number_of_nodes": 1, "number_of_data_nodes": 1, "active_primary_shards": 0, "active_shards": 0, "relocating_shards": 0, "initializing_shards": 0, "unassigned_shards": 0 }

Single node cluster + index



Create index

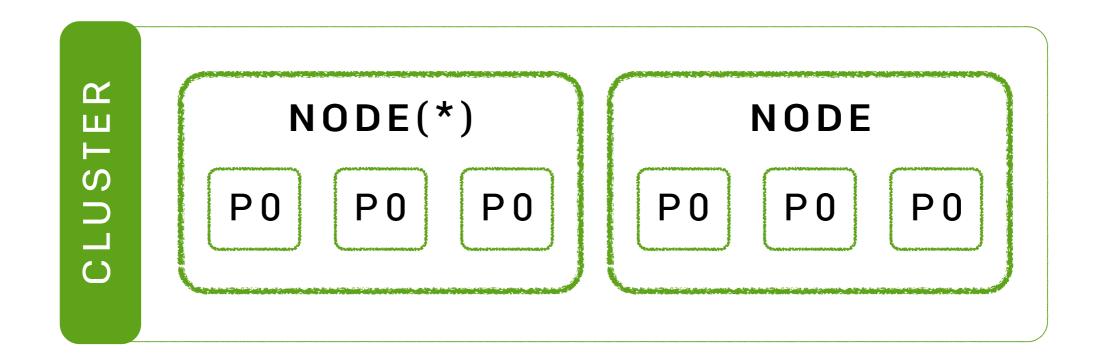
```
PUT /blog
{
   "settings": {
      "number_of_shards": 3,
      "number_of_replicas": 1
   }
}
```

Cluster health

```
GET _cluster/health
  cluster name" . "elasticsearch",
  "status" : "yellow",
  "timed out" : false,
  "number of nodes": 1,
  "number of data nodes": 1
  "active primary shards" : 3,
  "active shards" : 3,
  "relocating shards": 0,
  "initializing shards" : 0,
  "unassigned shards": 3
```

Add new node

\$bin/elasticsearch -Des.node.data=true -Des.node.master=true -Des.node.name=First \$bin/elasticsearch -Des.node.data=true -Des.node.master=false -Des.node.name=Second



Cluster health

```
GET _cluster/health
                         GOOD
                "elasticsearch",
  "cluster name"
  "status" : "green",
  "timed out" : false,
  "number of nodes": 2,
  "number of data nodes" : 2,
  "active primary shards": 4,
  "active shards": 8,
  "relocating shards" : 0,
  "initializing shards"
  "unassigned shards":
```

For scale

