1. ELK Stack □□

ELK Stack?

- □ □□□ □□□ □□□ □□□□ □□□ □□□ □□□ □□ Opensource
- Elasticsearch / Logstash / Kibana□ □□ ELK□□ □□□□ □□□ , fileBeat□ □□□□□ ELK Stack□□ □□ .

Component□ □□

- **filebeat** : □□□□ □□□ □□□□□□ logstash□ □□□ □□ □□ (logstash□□ □□□□□□ , □□□□□□ json□□ □□□□ □□ □□ logstash□ □□□ □□ elasticsearch□□ □□□ □ □□ □)
- **Logstash** : filebeat□□ □□ □□ , □□□□ □□□ □□□□□□ Elasticsearch□ □□□ □□
- **Elasticsearch** : logstash□□ □□□□ □□□□ DB□ □□
- **Kibana** : Elasticsearch□□ □□□ □□□□ □□□ □□

□□□ □□□

Component	Hardware	□ □	□ □

Elasticsearch	cpu	8Core	
Elasticsearch	mem	□□:16GB□□:64GB□□	8GB□□□□□□□□□□□□□□□□□

Elasticsearch	disk	SSD□□	* s s d □ □ i o □ □ □ □ □ d e a d l i n e □ □ n o o p □ □ □ □ □ c f q : r / r , d e a d l i n e :

Kibana	cpu	8 Core	
Kibana	mem	□□1GB□□:4GB□□	
Kibana	disk	□□□□	
Logstash	cpu	2 Core	
Logstash	mem	2GB	

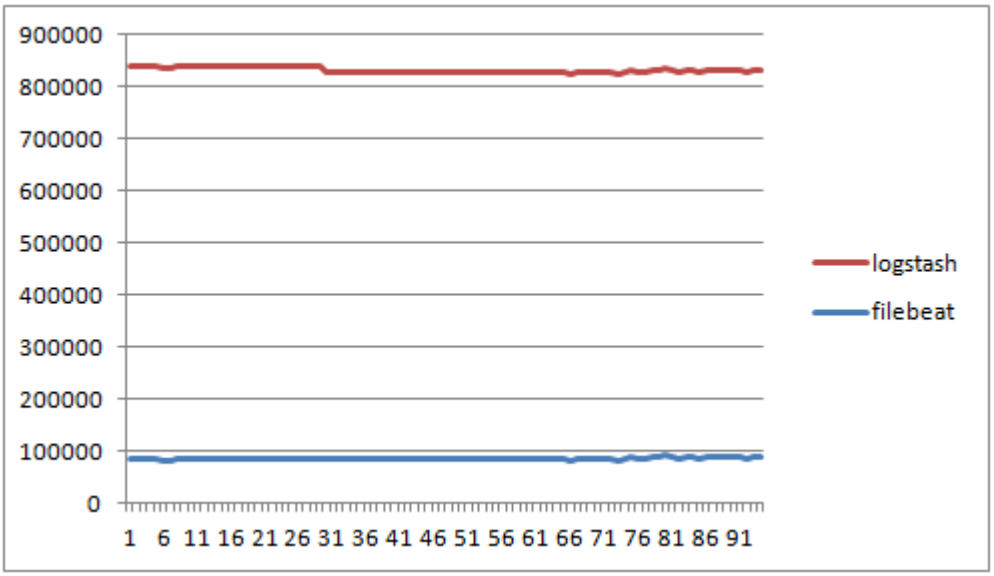
L o g s t a s h	d i s k	□ □ □ □	

* Elasticsearch□□ □□□□ □□□□ □□ □□ □□

(□□ □□□□ * □□□□) * □□□□ □□□□□ □□□□□ □□ □□□□□

ELK Data Flow

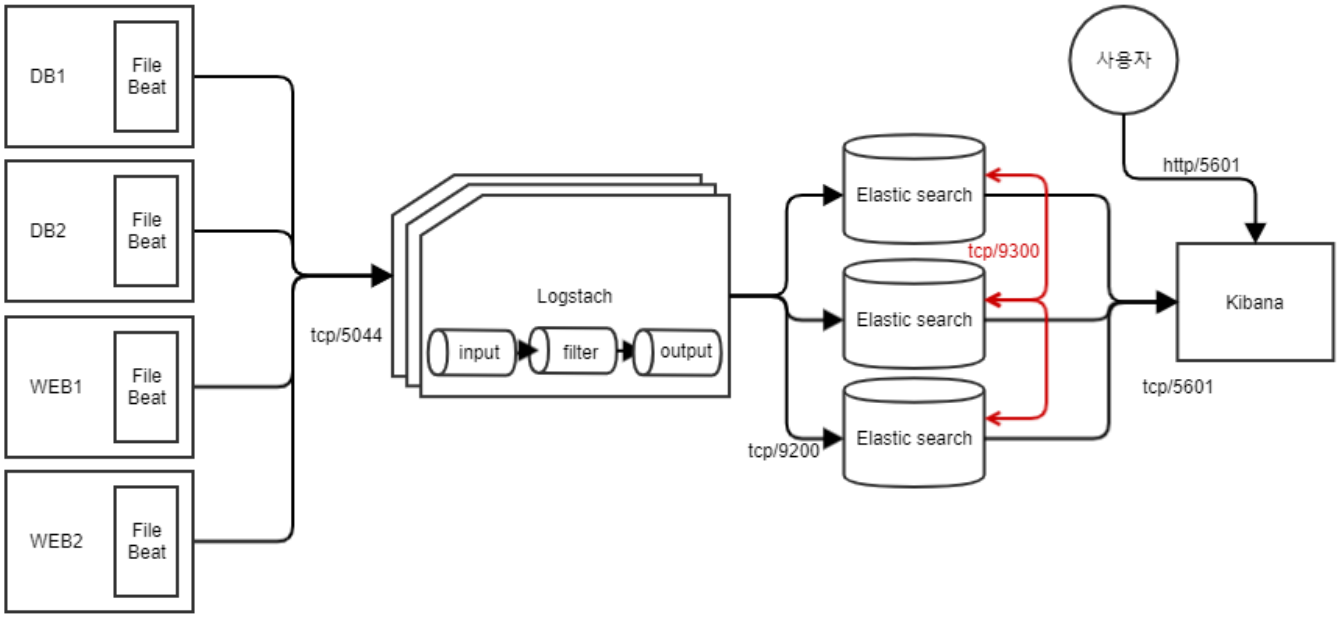
1. Node□ □□□□□ filebeat□□□ logstash□ □□□□□ ElasticSearch□ □□ □□□□□ □□ .
2. filebeat / logstash□ RSS□□□ □□□□ □□
   - □□ □□□□□ □□ 1Mbyte□ □□□□□ □□ □□□□□ □□ , □ 100□□□ □□□□□ □□ □□



Elasticsearch □□

- Elasticsearch □□ □□
  - **master node** : Elasticsearch□ □□□ □□□□□ , □□ , □□□□ □□ □□□ □□□□ □□ .. □□ □□□ □□□ □□ □□□ master□□□ □□□ □□ □□□ □□□ □□ □□□□ □□□□□ 10□□□ □□□ □□ master/data □□ □□□□ □□□□□□ best practice

    - **data node** : □□ □□□□ □□□□ □□
- Cluster□□□ □□□□
    - □□□□□□ Elasticsearch□□ □□□ □□ □□ : tcp/9200
    - Elasticsearch□□□□ □□□ □□ □□ : tcp/9300
- □□ □□ / □□



DBMS (like, mysql)	Elasticsearch
database	index
table	type
row	document
column	field
schema	mapping
index	index
sql	Query DSL
select	GET (Rest API□□)

DBMS (like, mysql)	Elasticsearch
update	PUT (Rest API□□)
insert	POST (Rest API□□)
delete	DELETE (Rest API□□)

Index □□□□□ □□ □□ □□ : 6.7□□□□ □□□□□□□ □□□ □□

- hot : □□□□ □□□□ □□□
- warm : □□□□□□□ , □□ □□□□ □□ □□□
- cold : □□ □□□□ □□□ , □□□ □□ □□□□ □□□

Index □□ □□

- Create : □□□ □□
- close : □□□□ □□□□ , write□ □□
- delete : □□□ □□

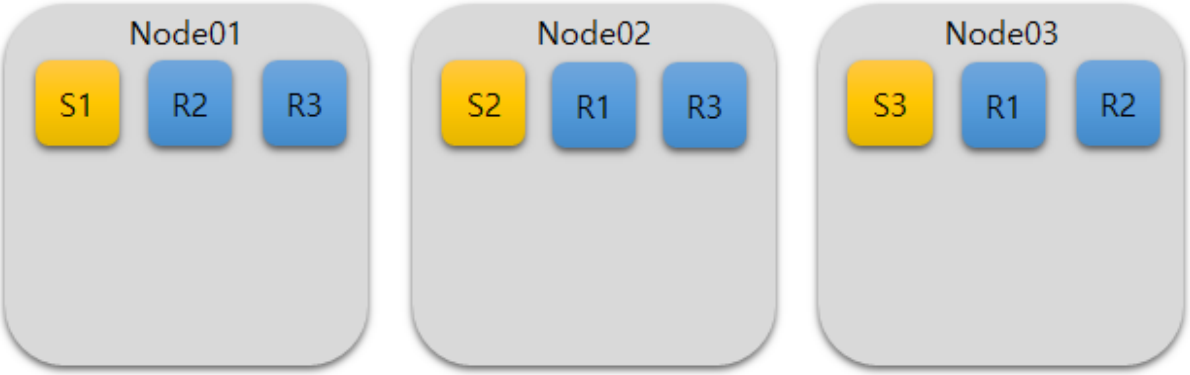
Index □□ □□

- green : □□ , □□□□□□ □□ □□□ □□
- yellow : □□ □□□□ □□□□□□ □□□□ □□ □□
- red : □□ □□□□ □□□ □□□□□□ □□□□ □□ □□ , □□□ □□□□ read/write□ □□□

□□□ □□□□ (□□□ □□□ □□□ □□ , □□□□ □□□□ □□ □□ re-index □□□□ □□□)

- shard :
  - Document□ □□□□□ □□□□□□ □□ (7.x□□□ Default□ 1□ □□ , 6.x □□□ Default□ 5)

- □□□□ □□ □□□□ □□□ □□□ □□ □□□ □□□ . shard□ □□□ □□□□□ □□ □□□ □□ (□□ □□)
- replica :
  - Primary shard(□□□□□)□□□□ □□
    shard(2□), replica(1□)□ □□□ □□ 2x1 = 2□□ replica□ □□ , replica□ □□□□ primary shard□ □□ □□□ □□ □□
  - node = 3, shard = 2, replica = 1□ □□□ □□ □□□ □□□ □□ □□



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