

Elasticsearch

Logstash

K Kibana

Elastic Stack: Log ve Ötesi

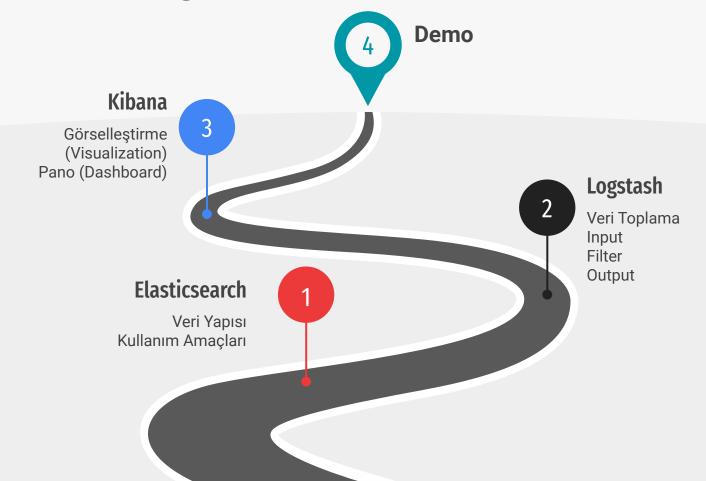
Hoşgeldiniz

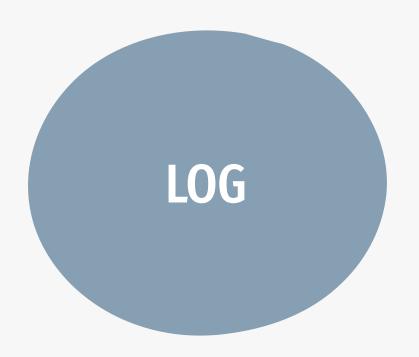
Ahmed Enis ERKAYA

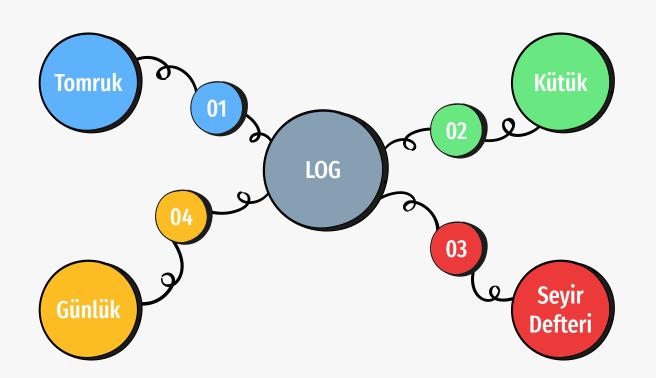
Yazılım Mühendisi, Seyyah, Kahve eniserkaya.com

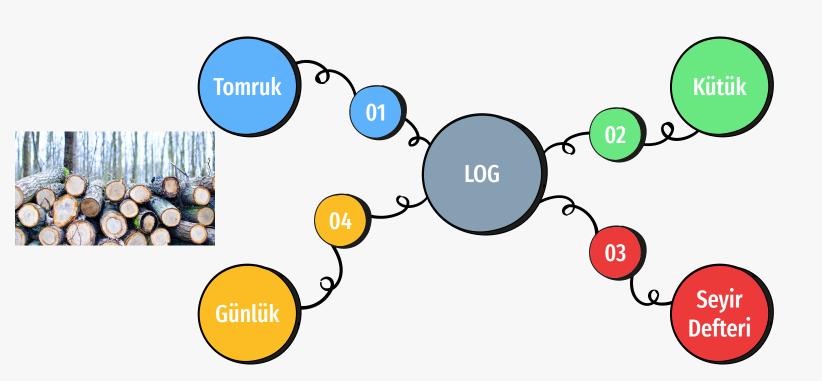


ElasticStack: Log ve Ötesi



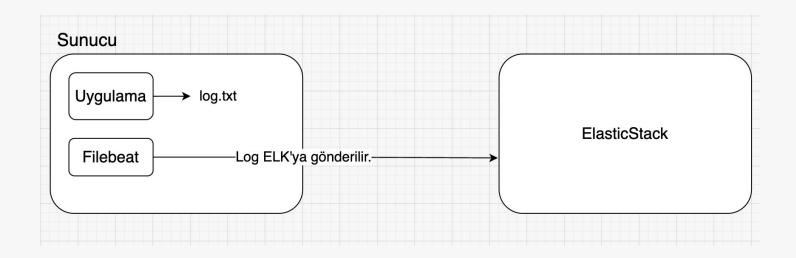






Uygulama Logu

Log Yönetimi

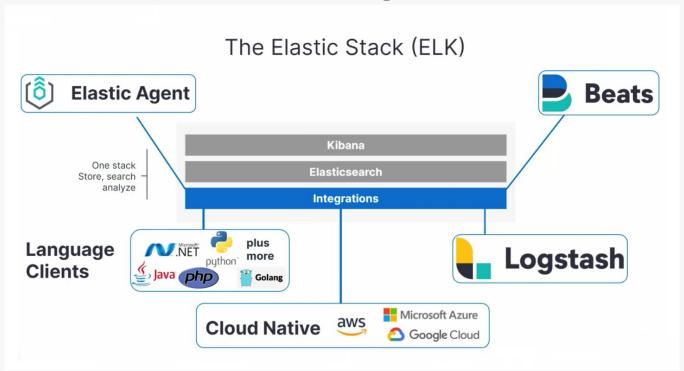


Kubernetes üzerinde çalışan bir uygulamada log dosyası nerede tutulur?

Zamanla büyüyen log verisi nasıl yönetilir?

Binlerce sayfadan oluşan metin içerikleri üzerinde hızlı bir şekilde *arama* nasıl gerçekleştirilir?

ElasticStack (Elasticsearch, Logstash, Kibana)





Elasticsearch

- Dağıtık
- Açık kaynak kodlu
- NoSQL, doküman tabanlı
- Full Text Search
- Veri Tipi
 - Enlem boylam (geo-point)
 - o Int, Float vb.
- Dev Tools
- REST API

Bir JSON objesi ...

```
"title": "You Know, for Search",
   "author_first_name": "Shay",
   "author_last_name": "Banon",
   "post_date": "2010-02-08T19...",
   "body_l10n": "Elasticsearch is an
open source, distributed, RESTful,
search engine which is built...",
...
}
```

... Elasticsearch için bir dokümandır.



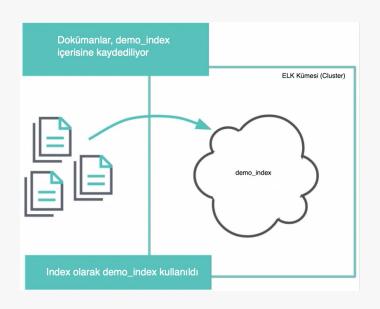
Elasticsearch

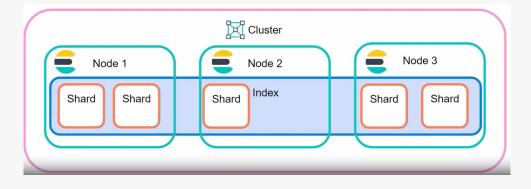
| title | category | date | author_first_name | author_last_name | author_company | Blog Text |
|---|-----------------|-------------------|-------------------|------------------|----------------|----------------------------------|
| You Know, for Search | Engineering | February 08, 2010 | Shay | Banon | Elastic | Elasticsearch is a distributed |
| How we saved \$100,000/month by keeping our own software up to date | User Stories | April 27, 2022 | George | Kobar | Elastic | Let's start with the bottom line |

```
field

{
    "title": "You Know, for Search",
    "author_first_name": "Shay",
    "author_last_name": "Banon",
    "post_date": "2010-02-08T19...",
    "body_l10n": "Elasticsearch is a
    distributed, RESTful, search engine which is
    built...",
    ...
}
```

Elasticsearch Veriyi Nasıl Saklıyor?

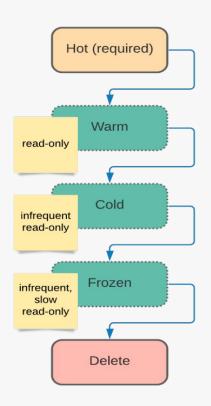




Elasticsearch Temel Kavramlar

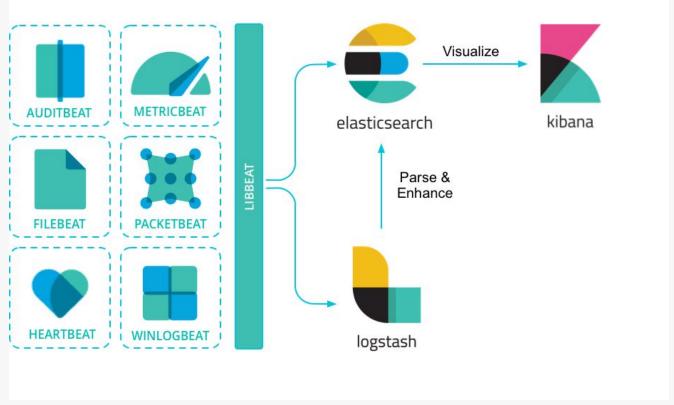
- 1. Cluster
- 2. Node
- 3. Index
- 4. Document
- 5. Shard

Index Lifecycle Management



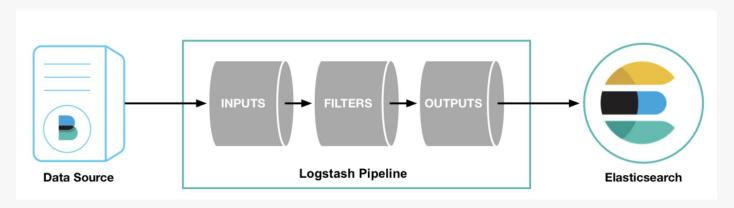
```
_ilm/policy/ilm_aken
"phases": {
   "min_age": "0ms",
   "actions": {
       "max_size": "50gb",
       "max age": "1m"
      "set_priority": {
       "priority": 100
 "warm": {
    "actions": {}
 "cold": {
   "min_age": "2m",
   "actions": {}
    "min_age": "3m",
    "actions": {}
```

Beats



Logstash

• Açık kaynak veri toplama motorudur.



Logstash

```
# This is a comment. You should use comments to describe
# parts of your configuration.
input {
    ...
}

filter {
    ...
}

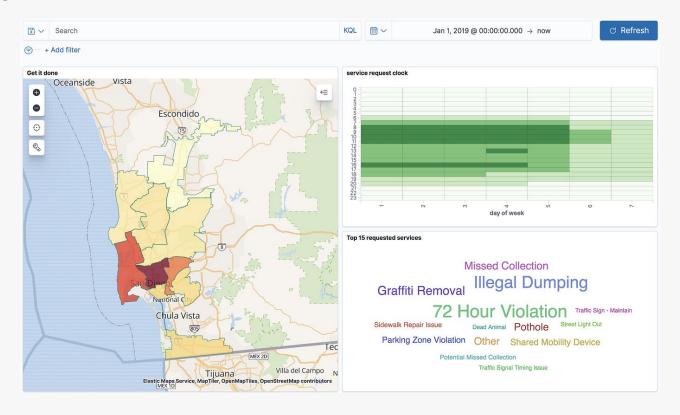
output {
    ...
}
```

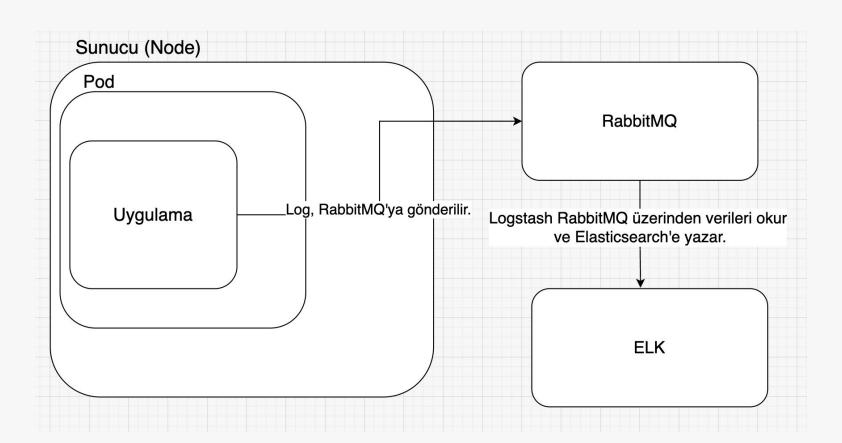
```
input {
    twitter {
        consumer_key => "enter_your_consumer_key_here"
        consumer_secret => "enter_your_secret_here"
        keywords => ["cloud"]
        oauth_token => "enter_your_access_token_here"
        oauth_token_secret => "enter_your_access_token_secret_here"
    beats {
        port => "5044"
output {
    elasticsearch {
        hosts => ["IP Address 1:port1", "IP Address 2:port2", "IP Address 3"]
    file {
        path => "/path/to/target/file"
```

Kibana

- Elastic Stack içerisine açılan bir penceredir.
- Discover
- Visualizations, Lens, Dashboards
- Maps

Kibana





Demo Zamanı

Teşekkürler, sorular?:)