# Analyzing logs using-Elasticsearch, Fluentd, and Kibana(EFK)

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# Agenda

Why EFK

• Elasticsearch, Fluentd, Kibana Overview

Demo

High Availability

# Why EFK

#### Before EFK

- Log files across the server
- Grep/shell scripting mess
- Production system access

#### EFK:

- Detecting log patterns
- Easily Searchable
- Trouble-shooting issues

#### Elasticsearch

- Elasticsearch is a search server based on Lucene.
- It provides a distributed, multitenant-capable fulltext search engine with a RESTful web interface and schema-free JSON documents.

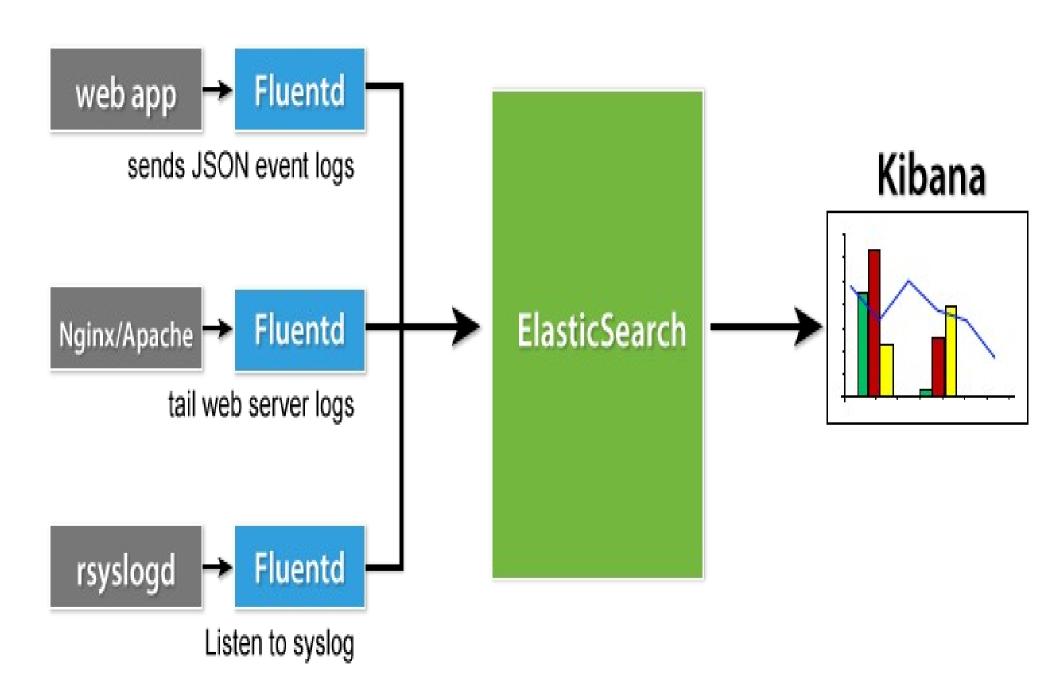
#### Kibana

 Kibana is an open source (Apache Licensed), browser based analytics and search dashboard for Elasticsearch.

Explore and visualize your data

### **Fluentd**

- Fluentd is an open source data collector for unified logging layer.
- Fluentd allows you to unify data collection and consumption for a better use and understanding of data.



# **DEMO**

#### **Fluentd**

Fluentd has 5 types of plugins: Input, Parser,
Output, Formatter and Buffer

# **Input Plugins:**

- in forward
- in\_http
- in\_tail
- in exec
- in\_syslog

# Output Plugins:

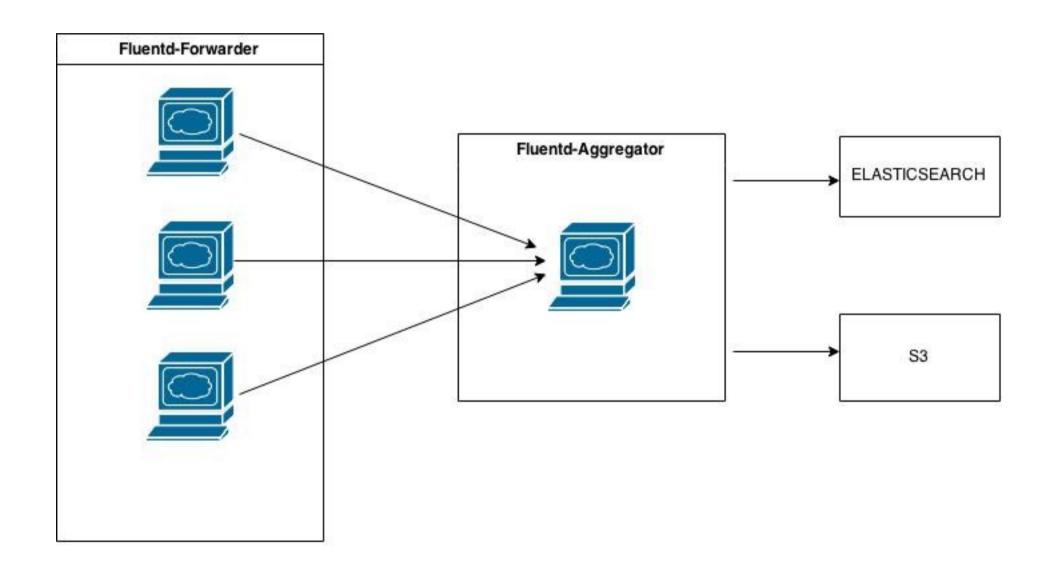
- out\_forward
- out\_mongo
- out\_file
- out\_s3

# **Buffer Plugins:**

Buffer plugins are used by buffered output plugins, such as out\_file, out\_forward, etc

- buf\_memory
- buf file

## **Fluentd Setup**



#### **HIGH AVAILABILITY**

