Spring Boot Microservices

Beginner to Guru

Consolidated Logging with ELK Stack

Consolidated Logging with ELK Stack

- **E** - Elasticsearch
- **L** - Logstash
- **K** - Kibana
- All products open source, supported company called **elastic**
- Elasticsearch - JSON based search engine based on Lucene
  - Highly scalable - 100s of nodes (cloud scale)

Logstash

- Data processing pipeline for log data
- Allows to:
  - Collect from multiple sources
  - Transform
  - Send

Kibana

- Data visualization tool for Elasticsearch
- Can query data and act as a dashboard
- Can also create charts, graphs, and alerts
  - Many many more features

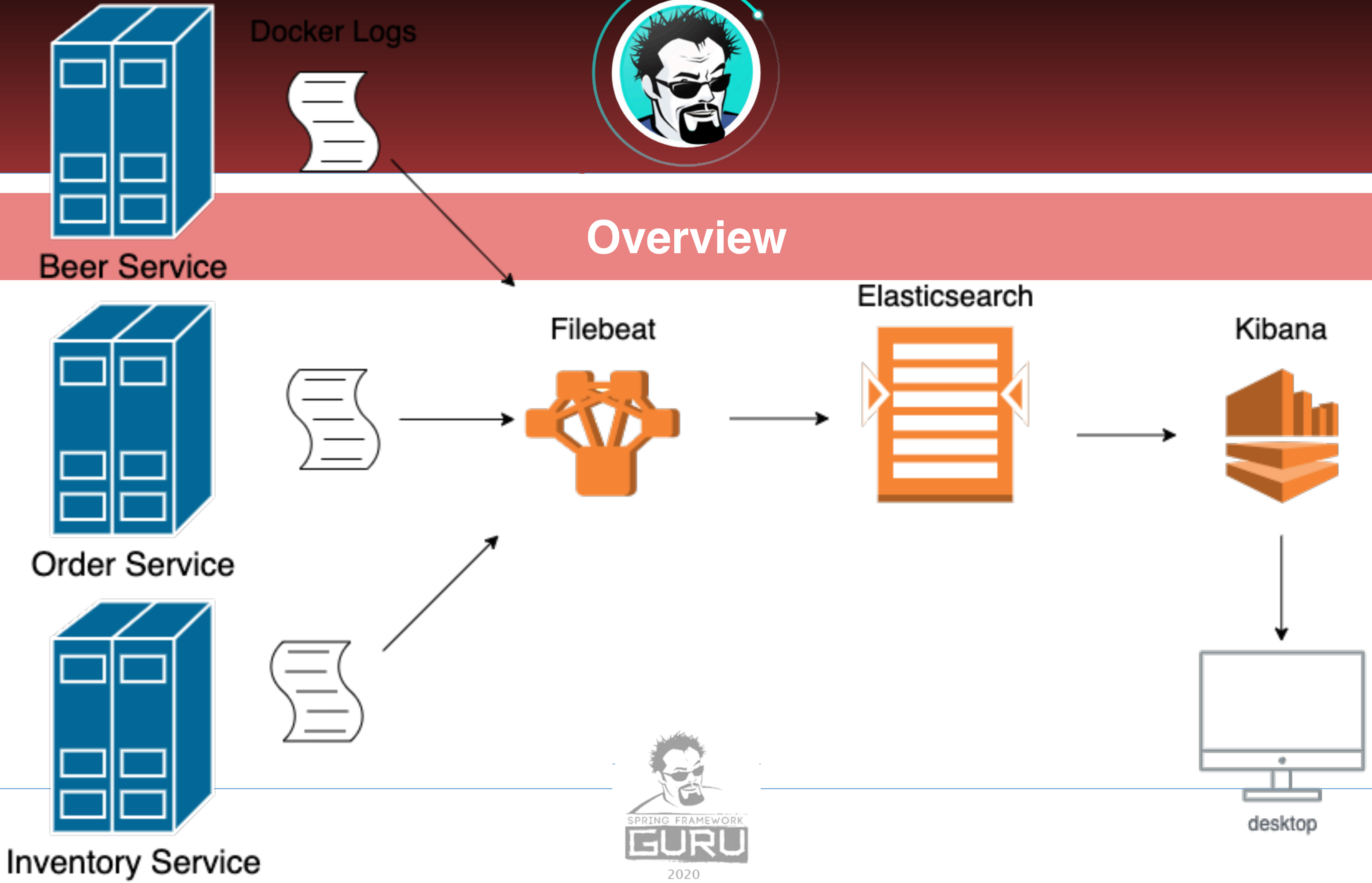
Filebeat

- Filebeat is a log shipper
- Moves log data to a destination
- Often destination is a logstash server
  - Logstash is used for further transformation before sending to Elasticseach

ELK without Logstash

- Filebeat has ability to do some transformations
- Thus, possible to skip Logstash and write directly to Elasticsearch
- Previously we setup JSON logout put
- Filebeat can convert JSON logs to JSON objects for Elasticsearch

Overview


Docker Logs
Beer Service
Order Service
Inventory Service
Filebeat
Elasticsearch
Kibana
desktop

SPRING FRAMEWORK

GURU