DOCKER ASSIGNMENT

```
Step 1: install docker and docker-compose up
Step 2: create a file docker-compose.yml
version: '3.7'
services:
 nginx:
  image: nginx:latest
  container_name: nginx
  ports:
   - "80:80"
  volumes:
   - ./nginx/logs:/var/log/nginx
  networks:
   - efk
 elasticsearch:
  image: docker.elastic.co/elasticsearch/elasticsearch:7.9.3
  container name: elasticsearch
  environment:
   - discovery.type=single-node
   - ES JAVA OPTS=-Xms512m -Xmx512m
  ports:
   - "9200:9200"
  networks:
   - efk
 kibana:
  image: docker.elastic.co/kibana/kibana:7.9.3
  container name: kibana
  environment:
   - ELASTICSEARCH_HOSTS=http://elasticsearch:9200
  ports:
   - "5601:5601"
  networks:
   - efk
 filebeat:
  image: docker.elastic.co/beats/filebeat:7.9.3
  container name: filebeat
  volumes:
   - ./filebeat.yml:/usr/share/filebeat/filebeat.yml
   - ./nginx/logs:/var/log/nginx
```

environment:

ELASTICSEARCH_HOSTS: "http://elasticsearch:9200" SETUP_KIBANA_HOST: "http://kibana:5601"

networks:

- efk

depends_on:

- elasticsearch

Step 3: create a configuration file filebeat.yml

filebeat.inputs:

type: log enabled: true paths:

- /var/log/nginx/access.log
- /var/log/nginx/error.log

output.elasticsearch:

hosts: ["http://elasticsearch:9200"]

setup.kibana:

host: "http://kibana:5601"

Step 4: Running the Stack with the command

docker-compose up -d

Step 5: Access the Components

• Nginx: http://localhost

• **Kibana:** http://localhost:5601

Visualizing Ngnix logs in kibana

Results:



