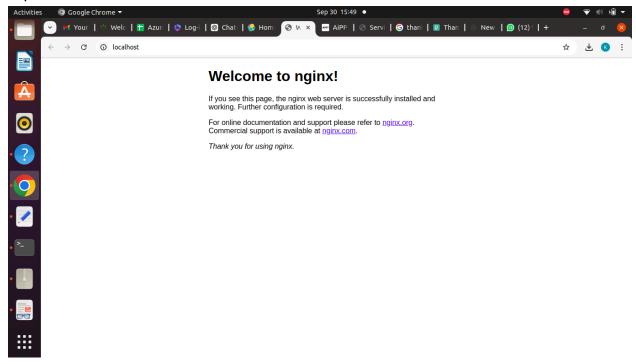
1. Elasticsearch-Filebeat-Kibana stack to monitor Nginx logs

```
Solution:
 Step 1: elk-nginx-monitoring
         cd elk-nginx-monitoring
         nano docker-compose.yml
version: '3.7'
services:
 nginx:
  image: nginx:latest
  container_name: nginx
  volumes:
   - ./nginx/nginx.conf:/etc/nginx/nginx.conf
   - ./nginx/log:/var/log/nginx
  ports:
   - "80:80"
  networks:
   - elk
 elasticsearch:
  image: docker.elastic.co/elasticsearch/elasticsearch:8.10.0
  container_name: elasticsearch
  environment:
   - discovery.type=single-node
   - xpack.security.enabled=false
  ports:
   - "9200:9200"
  networks:
   - elk
 kibana:
  image: docker.elastic.co/kibana/kibana:8.9.0
  container name: kibana
  environment:
   - ELASTICSEARCH HOSTS=http://elasticsearch:9200
ELASTICSEARCH SERVICE TOKEN=AAEAAWVsYXN0aWMva2liYW5hL2RIZmF1bH
Q6aG5kdzZubHRTZi1OTkxEcDJnTVdPQQ
```

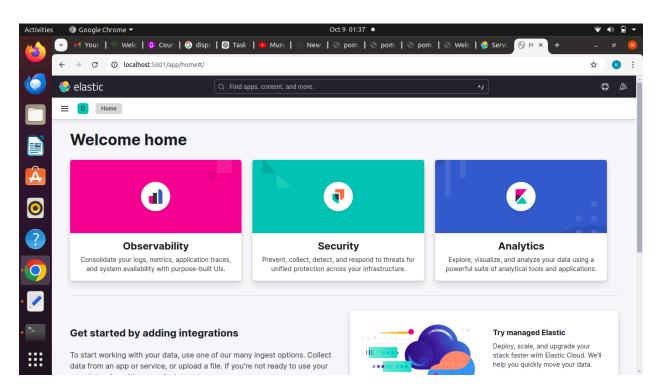
```
ports:
    - "5601:5601"
  networks:
   - elk
 filebeat:
  image: docker.elastic.co/beats/filebeat:8.10.0
  container_name: filebeat
  user: root
  volumes:
   - ./filebeat/filebeat.yml:/usr/share/filebeat/filebeat.yml
   - ./nginx/log:/var/log/nginx
  networks:
   - elk
  depends_on:
   - elasticsearch
volumes:
 esdata:
  driver: local
networks:
 elk:
  driver: bridge
Step 2: mkdir filebeat
        cd filebeat
        nano filebeat.yml
       -----filebeat.inputs:
 - type: log
  paths:
   - /var/log/nginx/access.log
   - /var/log/nginx/error.log
  fields:
   log_type: nginx
  fields_under_root: true
output.elasticsearch:
```

```
hosts: ["http://elasticsearch:9200"]
 username: "elastic"
 password: "changeme"
setup.kibana:
 host: "kibana:5601"
Step 3: touch nginx/nginx.conf
---events {
  worker_connections 1024;
}
http {
  server {
    listen 80;
     location / {
       root /usr/share/nginx/html;
       index index.html;
     }
     access_log /var/log/nginx/access.log;
    error_log /var/log/nginx/error.log;
  }
}
Step 4: run the command
         docker-compose up -d
Output:
Starting elasticsearch ... done
Starting kibana
                  ... done
Starting nginx
                  ... done
Starting filebeat ... done
```

http://localhost



http://localhost:5601



Kibana logs

