

# Deploy ELK Stack on Docker Container

## Source Code

### Docker-compose.yml:

```
version: '3.6'

services:

  Elasticsearch:

    image: elasticsearch:7.16.2

    container_name: elasticsearch

    restart: always

    volumes:

      - elastic_data:/usr/share/elasticsearch/data/

    environment:

      ES_JAVA_OPTS: "-Xmx256m -Xms256m"

      discovery.type: single-node

    ports:

      - '9200:9200'

      - '9300:9300'

    networks:

      - elk
```

### Logstash:

```
image: logstash:7.16.2

container_name: logstash

restart: always

volumes:

  - ./logstash:/logstash_dir

command: logstash -f /logstash_dir/logstash.conf
```

depends\_on:

- Elasticsearch

ports:

- '9600:9600'

environment:

LS\_JAVA\_OPTS: "-Xmx256m -Xms256m"

networks:

- elk

## **Kibana:**

image: kibana:7.16.2

container\_name: kibana

restart: always

ports:

- '5601:5601'

### **environment:**

- ELASTICSEARCH\_URL=http://elasticsearch:9200

depends\_on:

- Elasticsearch

networks:

- elk

volumes:

elastic\_data: { }

networks:

elk:

**inlog.log:**

```
input {  
  file {  
    path => "/root/temp/inlog.log"  
  }  
}  
  
output {  
  elasticsearch {  
    hosts => ["http://elasticsearch:9200"]  
  }  
}
```