

## Algorithm- Deploying ELK Stack on Docker Container

- Install Docker on your System and configure.
- Git Clone to pull the ELK Docker Repository.
- Pull an automatically built image from the Docker registry.
- Open the docker-compose.yml file in a texteditor, and edit the code using ->  
**sudo nano docker-compose.yml**
- Build the image with: **sudo docker-compose build elk.**
- Open the Dockerfile located in the repository directory: **sudo nano Dockerfile.**
- Build the image using either docker build or docker-**compose.**
- Run the build to install the plugin.
- The command publishes the following ports:
  - 5601 serves the Kibana web interface.
  - 9200 for Elasticsearch JSON interface.
  - 5044 for Logstash Beats interface.
- Access the Kibana web interface with: **http://localhost:5601.**
- To run the ELK container with Docker compose, use: **sudo docker-compose up elk.**
- Successfully installed and run the ELK stack on Docker Container.