

Algorithm for Deploying ELK stack on Docker

Step 01 : Installing Docker

↳ The Docker has been installed in previous lesson 02 itself

Step 02 : Creating Docker Network

We should create Docker network to enable communication between the ELK stack components

command is "docker network create elk-network"

Step 03 : Run Elasticsearch Containers

Start the elasticsearch container, ensure to set the discovery.type to 'single-node' for a simple setup

"docker run -d --name elasticsearch --net elk-network
-p 9200:9200"

Step 04 : Run Logstash Containers

Run the logstash container, specify the configuration file. creating a logstash configuration file

"docker run -d --name logstash --net elk-network
-v /path/to/logstash.conf:/logstash"

Step 05 : Run Kibana Containers

Start the kibana container connection it to the same network

"docker run -d --name kibana --net elk-network
-p 5601:5601 docker.elastic.co/kibana"

step 6: Verify setup

check the containers are running without issues
docker ps

step 7: to access Kibana Dashboard

Open a web browser & go to 'http://localhost:5601'
to access the Kibana dashboard.