Writeup for Deploying ELK Stack on Docker Container

Aim:

To deploy ELK Stack on a Docker container to implement continuous monitoring.

Technologies used:

- Docker: To create a container for installing ELK Stack.
- ELK Stack: To implement continuous monitoring.
- Git: To connect and push files from the local system to GitHub.
- GitHub: To store the Angular application.

Steps:

- 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.