

Setting Up Jenkins Pipeline to Deploy Docker Swarm..

Description

Project objective:

You have to develop an environment for Docker networking.

1. Set Up Docker

- Install Docker on all the hosts
- Initialize Docker .

2. Set Up Jenkins:

- Install Jenkins on a separate server.
- Install necessary plugins like Git plugin, Docker plugin, Pipeline plugin, etc.

3. Configure Jenkins for Docker and Git:

- Set up credentials in Jenkins for accessing Docker and Git repositories.
- Configure Jenkins to communicate with your Docker.

4. Create a Jenkins Pipeline:

- write a pipeline script to build and push docker image to the docker hub

5. Commit and Push Jenkinsfile:

- Commit the `Jenkinsfile` to your Git repository.

6. Set Up Webhooks:

- In your GitHub repository, go to Settings > Webhooks > Add webhook.
- Add the Jenkins URL followed by `/github-webhook/` as the Payload URL.

7. Trigger the Pipeline:

- Make a change in your repository and push it. This should trigger the Jenkins pipeline.

8. Monitoring and Maintenance:

- Monitor the pipeline runs and debug any issues that may arise.

9. Push the Docker image to the docker hub

10. Configure EC2 instance to run the created docker image in the Jenkins.

Github link: <https://github.com/navyamanju/Docker-Swarn.git>