SRE Take Home Challenge [ Assignment 1 ]

Description: Assignments has 3 parts, performed as written below, which can be evaluated based on *Definition of Done*as provided.

**Part 1** *Custom Jenkins Docker image with role based auth strategy plugin*

**NOTE:**  Custom image is pushed to docker hub in candidate’s repository. Please use the below commands to Pull and run the image. This docker image has been created on Desktop Docker on local system. As well as required roles and users has been provisioned.

Pull Docker image:

docker pull kgrishma/jenkins:v1

Run Docker image:

docker run -p 8080:8080 -p 50000:50000 -v /var/run/docker.sock:/var/run/docker.sock kgrishma/jenkins:v1

Access Jenkins in browser:

<http://localhost:8080>

Content Location:

DockerHub : <https://hub.docker.com/repository/registry-1.docker.io/kgrishma/jenkins/tags?page=1>

GitHub : <https://github.com/gc25/jenkins.git>

**Part 2** *Automate build and publish image using a Pipeline with engaging ‘Pipeline’ plugin specifically*

The pipeline name “Automate-Jenkins-Image” is pre-configured within the container. One can run the pipeline to build and push the image back.

NOTE: Currently a basic test case is running.

**Part 3** *Run docker image on Docker host*

This docker image is working fine with hosted Desktop Docker. It have high probability to run on other environments as well.

NOTE: Desktop Docker is the best docker service to customize and run the image locally.