**Task Description:**

1. Install Jenkins on a Docker container. Jenkins should be run on Port 8081.
2. Create a sample project in Jenkins to just checkout code from git.
3. (OPTIONAL: For extra praise create a Docker compose file for running Jenkins)

**Task Notes: (Over view of steps followed)**

1. As the task description suggests, I'm writing 2 roles that you can find inside roles folder:

- prepare: this role install all what we need to run Docker using the public role geerlingguy.docker (https://github.com/geerlingguy/ansible-role-docker)

- jenkins: this role provision jenkins as docker container, created a persistent docker volume for jenkins whre we mount /var/jenkins\_home

- pull official jenkins image

- build custom jenkins docker image based on official jenkins image pulled before

- start jenkins using docker\_container ansible module

1. Ec2 instance running on RHEL-7.4 was chosen for demo purpose

**Host public IP: 54.206.10.234**

(As this is for demo purpose Elastic IP haven’t been associated)

1. Created required security groups so that Jenkins server installed on top of Docker can be accessed by any.
2. Github plugin was integrated with Jenkins so that, **every time any code commits are published to Github, GitHub will trigger a new Jenkins job**
3. **Sample project is created in Github and tested for Jenkins Integration (Screen shot attached)**

**Footnotes:**

**Jenkins up and running URL:** (Screen shot attached below)

<http://54.206.10.234:8081/>

Credentials: admin/admin

**GitHub Repo:** <https://github.com/swetha87/Ansible-Jenkins-Docker>

