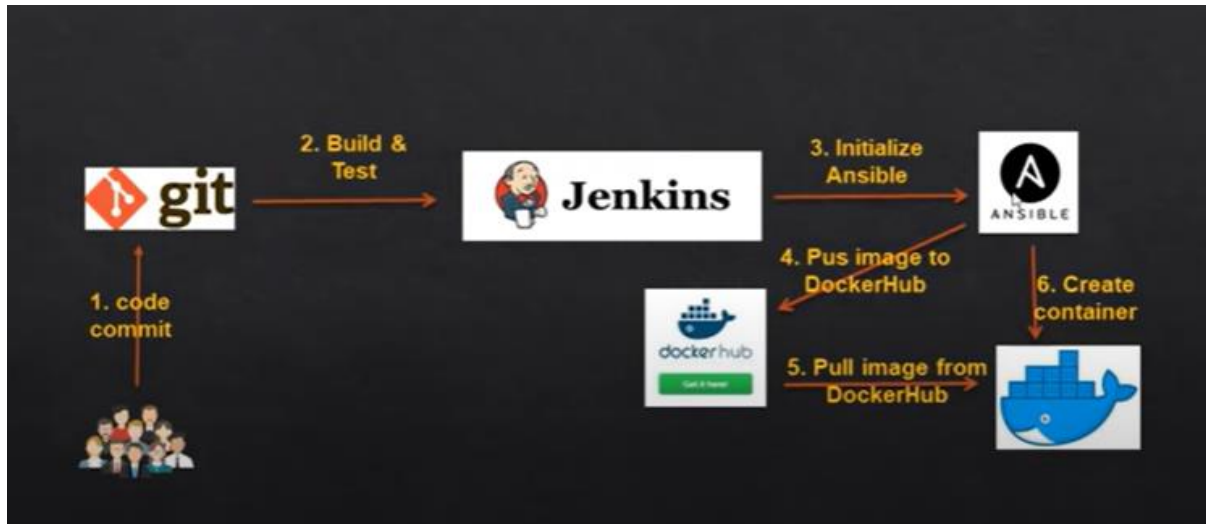


# DevOps Project – 4

## Objective:

In this project, we will see how to use *Git, Jenkins, Ansible, DockerHub*.

We will create Docker image on ansible server through Jenkins job and pushed it onto DockerHub.



## PreRequisites

1. Jenkins
2. Ansible server
3. Docker should be installed on ansible server
4. Should login to "docker hub" on ansible server.
5. Docker Hub account

## Create an docker image

1. Login to Jenkins console
2. Create *Jenkins job*, Fill the following details,
  - *Source Code Management:*
    - Repository : [https://github.com/yadneshingole/CI-CD\\_Project.git](https://github.com/yadneshingole/CI-CD_Project.git)
    - Branches to build : \*/main
  - *Build:*
    - Root POM:pom.xml
    - Goals and options : clean install package
  - *Post Steps*

- *Send files or execute commands over SSH*
  - Name: ansible\_server
  - Source files : webapp/target/\*.war
  - Remove prefix : webapp/target
  - Remote directory : //opt//docker
- *Send files or execute commands over SSH*
  - Name: ansible\_server
  - Source files : Dockerfile
  - Remote directory : //opt//docker
  - Exec Command:
    - cd /opt/docker
    - docker build -t demo .
    - docker tag demo yaingole/demo:1.0
    - docker push yaingole/demo:1.0
    - docker rmi demo:1.0 yaingole/demo:1.0

3. Login to Docker host and check images and containers. (no images and containers)
4. login to docker hub and check. shouldn't find images with for demo
5. Execute Jenkins job
6. check images in Docker hub. Now you could able to see new images pushed to yaingole Docker\_Hub