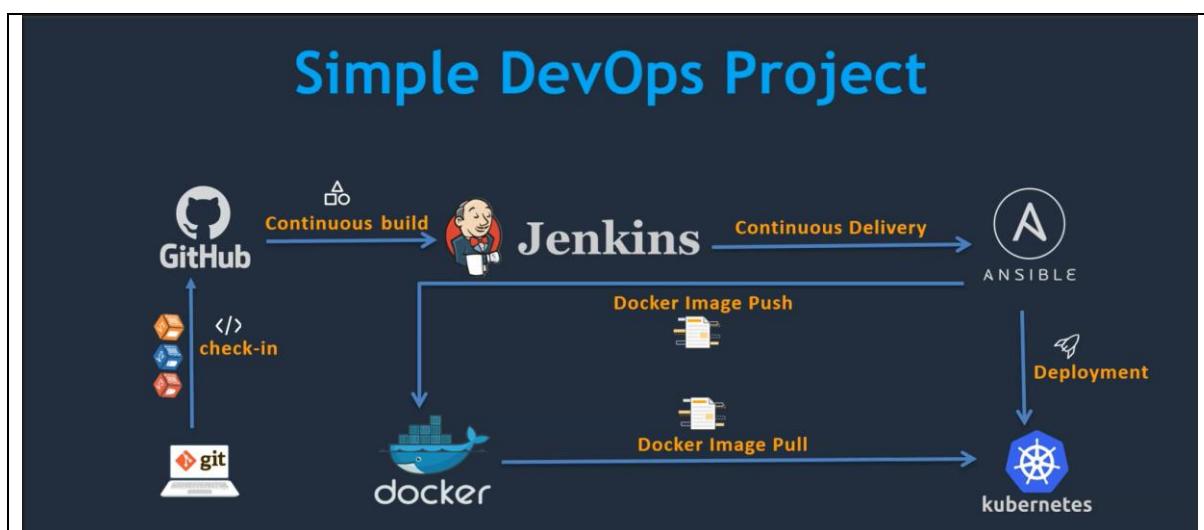


Simple Devops Projects

Requirements : CI/CD pipeline System

- Git - local version control system.
- GitHub - As Distributed version control system.
- Jenkins - Continuous Integration tool.
- Maven - As a Build Tool.
- Ansible - Configuration Management & Deployment tool.
- docker - Containerization
- Kubernetes - As Container Management Tool.

Flow Diagram :-



What Do we Cover?

Build and Deploy on Tomcat Server.

Setup CI/CD with GitHub, Jenkins, Maven & Tomcat.

- Setup Jenkins
- Setup & Configure Maven , Git.
- Setup Tomcat Server.
- Integrating GitHub,Maven ,Tomcat Server with Jenkins
- Create a CI and CD Job.
- Test the Deployment.

1. Deploy Artifacts on a Tomcat Server

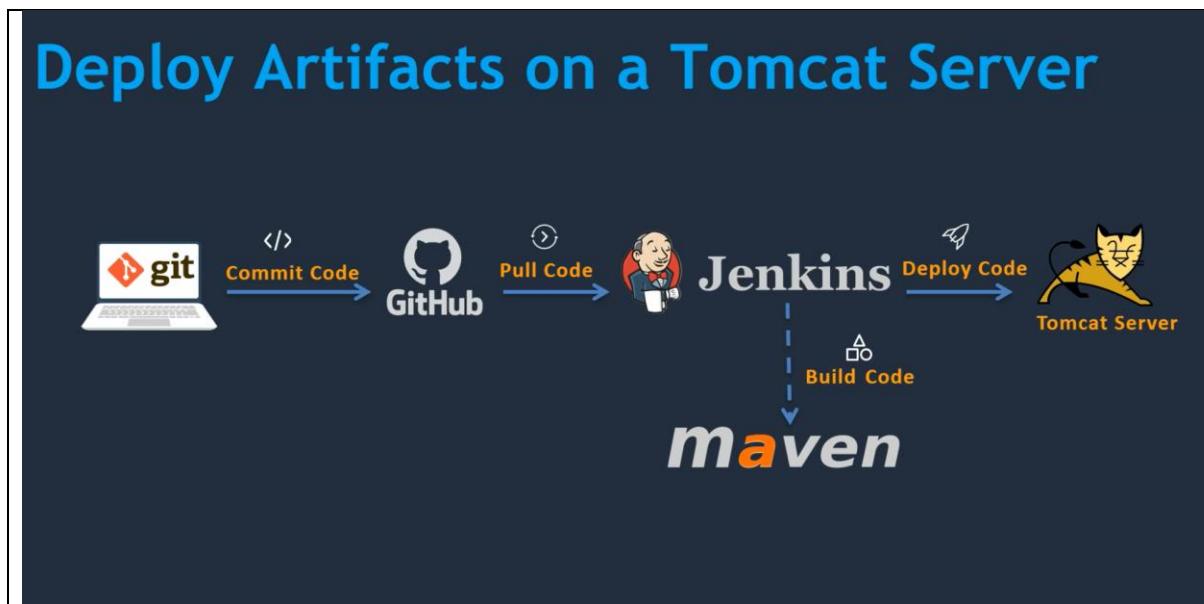


Fig. Deploy Artifacts on a Tomcat Server

Build and Deploy on Container.

Setup CI/CD with GitHub, Jenkins, Maven & Docker.

- Setting up the docker Environment.
- Write DockerFile.
- Create an Image and Container on Docker Host.
- Integrate Docker Host with Jenkins.
- Create CI/CD Job on Jenkins to build and deploy on container.

2. Deploy Artifacts on a Container

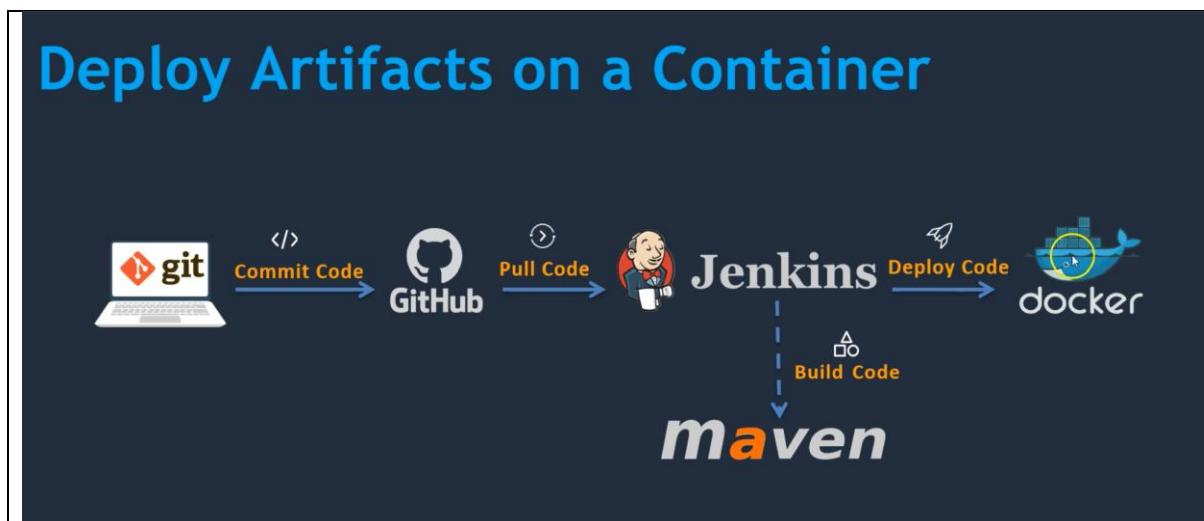


Fig. Deploy Artifacts on a Docker Container

Build and Deploy on Container.

CI/CD with GitHub, Jenkins, Maven, Ansible & Docker.

- Setting up the Ansible Server