

Lesson: CI/CD Pipeline

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What is CI/CD

- CI:- Continuous Integration
- CD:- Continuous Development
- Why do we need CI/CD?
- Lab 5 what you did, think about a scenario if you want to make changes to your web app what all steps you need to redo?

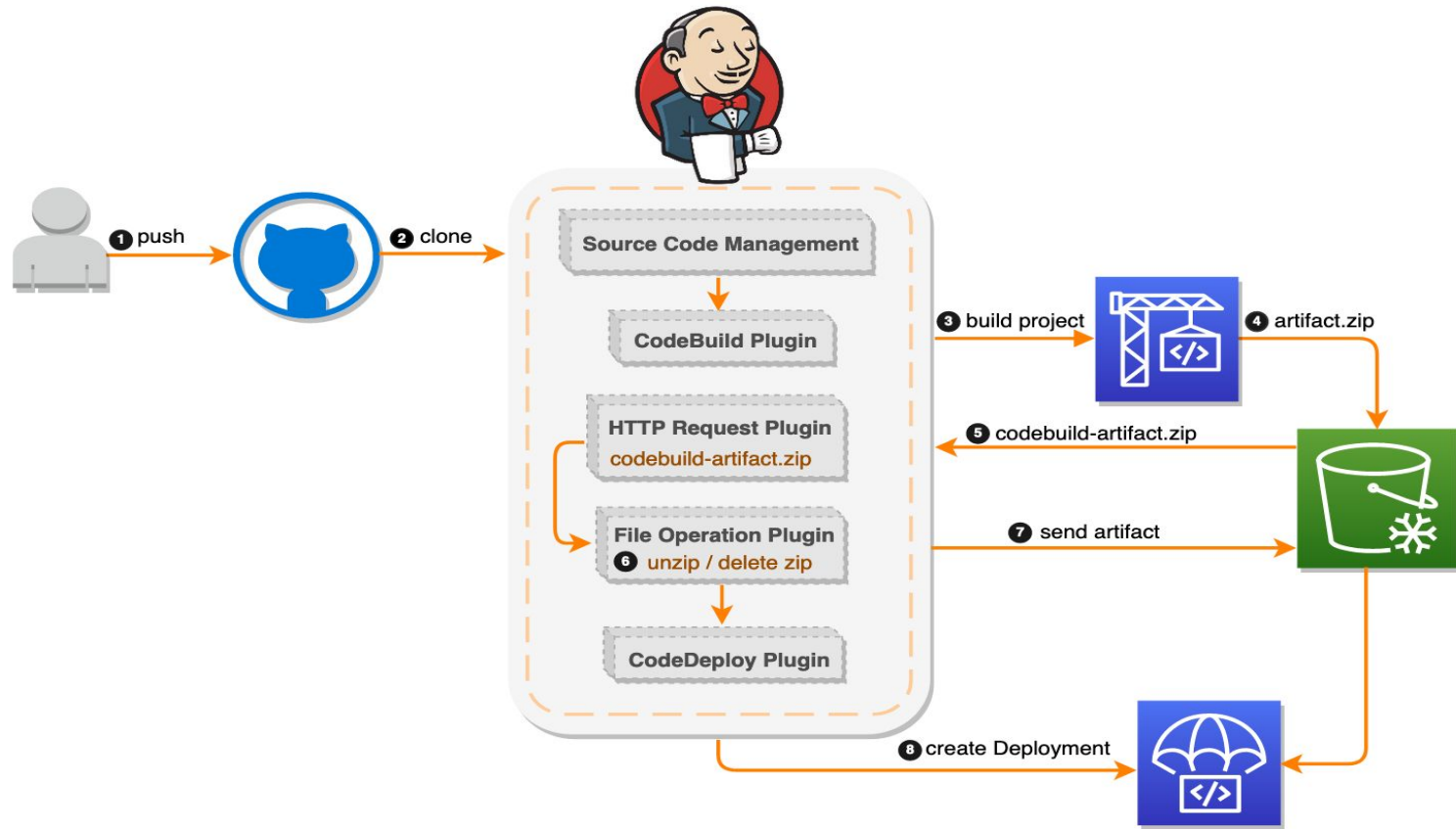


Image taken from :-

<https://aws.amazon.com/blogs/devops/setting-up-a-ci-cd-pipeline/>

Why do we need CI/CD

- Continuous App Deployment
- Who uses CI/CD
 - All Agile teams use CI/CD
 - Mutual/UP all of them use Jenkins Pipeline
- Continuous Software Development/Deployment (Change Management)

Jenkins

- OpenSource
- Pipeline Steps:
 - Build
 - Deployment
 - Notifications
 - Multiple Environments (Dev/Test/Production)
 - Deploy to Server without manual or human intervention
 - Automatic Roll Over in case of failure
 - Ability to Backup and Restore

CodeBuild/Jenkins

- Plugin
- Access to AWS resource
- Build Stage:- You will need to have proper Build commands
- Notification:- Slack, Email
- Deployment should be just one click

Demo

- AWS codeCommit CI/CD pipeline demo