- Continuous Integration (Rebase) to make sure that Team B is starting work on the latest version of code.
- Continuous Delivery to deliver production ready code.
- Continuous Deployment to automate deployment process.
- Jenkins Terminology:
 - Project —> Jobs (Freestyle, Pipeline, Github Org, Folder (multi teams), Multi-branch Pipeline, Setup Job
 - **Multi-branch**: My role was to manage Feature and Master branch.
 - Feature branch: As soon as developers pushes the change it triggers —> unit test —> Component test -> Optional: deploy feature branch directly to development environment
 - Master branch: Unit test —> Integration test —> Container built (Docker) —> Container Scanning (Vulnerabilities oat Container level #checkmarks) —> Deploy to test environment —> Functional test —> During a Sprint, use release(tags) —> Triggers another pipeline responsible for production environment
 - Build(Add Build Step) with Parameters—> Build Triggers —> Build Environment —> Artifacts and Repo (fingerprints) (workspace)
 - Build Tools (maven pom.xml) (Ant: build.xml)
 - SCM: git config -> git clone -> +x permission -> configure Github: (GitHub hook -> add creds -> github trigger)
 - Testing —> Install ant/maven —> setup ssh —> build steps —> Post Build Actions
 - Notifications —> Jenkins Config —> SMTP server notification —> Post Build Actions
 - Distributed Builds —> Master-Agent —> Managed Nodes
 - Plugins: Ant, LDAP, Pipeline, SSH, GitHub, Gradle...
 - Security: Global Security ON -> Manage Jenkins (AccessContro)
 - Backup: JENKINS HOME
- Build Process
 - Start Jenkins -> Install Plugins for the Build Tool
 - Global Config Steps
 - Create Pipeline that uses build tool
 - Update tools config files (.xml)
- Jenkins Process
 - Code Commit to SCM
 - Jenkins server detect Commit
 - Jenkins server pull those changes and start new build
 - if build fails -> notify teams
 - If build successful —> Deploy build in test server
 - After testing —> generate feedback —> Notify
- Jenkins Installation
 - Jenkins Master:
 - wget jenkins.repo
 - import jenkins.io.key
 - install Jenkins, java, git
 - enable Jenkins and restart Jenkins

Port: 8080

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