## JENKINS

### Getting started with Jenkins

 Getting started with Jenkins.

 Introduction to Continuous Integration.

 Install Jenkins on Linux.

 Setup of Dev Environment, QA Environment , Prod Environment for Jenkins.

 Jenkins' Architecture.

 Jenkins UI : Dashboard and Menus.

 Create Our First Jenkins Free style Job.

### Understanding stages of CI - CD

 Continuous download.

 Continuous build.

 Continuous deployment.

 Continuous testing.

 Continuous delivery.

### Continuous Integration with Jenkins

 Continuous Integration with Jenkins.

 Install Git and Jenkins GitHub Plug-in.

 Install Maven on Our Local Box.

 Configure Jenkins to Work with Java, Git and Maven.

 Create our Jenkins Project.

 Run our First Jenkins Build and Jenkins Workspace.

 Source Control Polling in Jenkins.

 Other Build Triggers of Jenkins.

 Jenkins' Shell Scripts.

 Archive Build Artifacts.

 Install and Configure Tomcat as the Staging Environment.

 Deploy to Staging Environment.

 Jenkins Build Pipeline.

 Parallel Jenkins Build.

 Deploy to Production.

 Trouble Shooting: Deploy to Production.

### Continuous Integration with Jenkins

 Continuous Integration with Jenkins.

 Install Git and Jenkins GitHub Plug-in.

 Install Maven on Our Local Box.

 Configure Jenkins to Work with Java, Git and Maven.

 Create our Jenkins Project.

 Run our First Jenkins Build and Jenkins Workspace.

 Source Control Polling in Jenkins.

 Other Build Triggers of Jenkins.

 Jenkins' Shell Scripts.

 Archive Build Artifacts.

 Install and Configure Tomcat as the Staging Environment.

 Deploy to Staging Environment.

 Jenkins Build Pipeline.

 Parallel Jenkins Build.

 Deploy to Production.

 Trouble Shooting: Deploy to Production.

**Pipeline**

**->** Pipeline as Code.

 CI-CD using Jenkins file.

 Groovy Scripting.

 Scripted Pipeline.

 Declarative Pipeline.

**GIT**

Installation

* Version Controlling
* Centralized and Distributed Version Controlling

Git Local repo and Git hub

* + - Branches
    - Git clone Push and Pull from GIT Hub
    - Git Squash and Stash
    - Git Ignore
    - Git Tags
    - Git Rebase
    - Git Amend
    - Git Log and Git reflog
    - Git Merging and Rebasing
    - Cherry picking
* Version Controlling
* Centralized and Distributed Version Controlling

Git Local repo and Git hub

* + - Branches
    - Git clone Push and Pull from GIT Hub
    - Git Squash and Stash
    - Git Ignore
    - Git Tags
    - Git Rebase
    - Git Amend
    - Git Log and Git reflog
    - Git Merging and Rebasing
    - Cherry picking

### 



