Day - 1

- **Lets understand Continuous Integration**
  - What is Continuous Integration
  - Benefits of Continuous Integration
  - What is Continuous Delivery
  - What is Continuous Deployment
  - Continuous Integration Tools
  - Jenkins Vs TeamCity Vs Bamboo
- **What is Jenkins**
  - Object Properties and Method
  - Accessing and Displaying the Object
  - Primitive and Reference Type and Primitive Wrapper Type
  - Class ,Constructor and new Operator
  - Inheritance
  - Getter and Setter Method
  - Static Class
- **Jenkins Installation**
  - Prerequisites
  - Installing Jenkins using Yum
  - Installing Jenkins using Apt
  - Installing Jenkins using MSI

- **Jobs Scheduling in Jenkins**
  - Manually Building
  - Build Trigger based on fixed schedule
  - Build Trigger by script
  - Build Trigger Based on pushed to git
- **Useful Jobs Configuration**
  - Jenkins Jobs parameterised
  - Execute concurrent builds
  - Jobs Executors
  - Build Other Projects
  - Build after other projects are built
  - Throttle Builds
- **Reports in Jenkins**
  - Junit Report
  - SonarQube Reports
  - Jacoco Reports
  - Coverity Reports
  - Selenium Reports
  - Test Results
  - Cucumber Reports
- **Jenkins Integration with other tools**

- **Notification & Feedback in Jenkins**
  - CI Build Pipeline & Dashboard
  - Email Notification
  - Advance Email Notification
  - Slack Notification
- **Jenkins Advance**
  - Security in Jenkins
  - Authorization in Jenkins
  - Authentication in Jenkins
  - Managing folder/subfolder
  - Jenkins Upgrade
  - Jenkins Backup
  - Jenkins Restore
  - Jenkins Command Line
  - Jenkins Api Programming
  - Deep dive into Jenkins Pipeline
  - Jenkins Multi-configuration Project
  - Jenkins Multibranch Pipeline

- Installing Jenkins using Tomcat
- Installing as a Service
- Starting and Stopping Jenkins
- **Jenkins Dashboard Tour**
  - Understand Freestyle Project
  - Freestyle General Tab
  - Freestyle Source Code Management Tab
  - Freestyle Build Triggers Tab
  - Freestyle Build Environment
  - Freestyle Build
  - Freestyle Post-build Actions
  - Manage Jenkins
  - My Views
  - Credentials
  - People
  - Build History
- **Creating a Simple Job**
  - Simple Java and Maven Based Application
  - Simple Java and Ant Based Application
  - Simple Java and Grovy Based Application

- Jira
- Git
- SonarQube
- Maven
- Junit
- Chef
- Puppet
- Ansible
- Docker
- AWS
- Jacoco
- Coverity
- Selenium