

Day - 1

- **Let's 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**

- o Object Properties and Method
- o Accessing and Displaying the Object
- o Primitive and Reference Type and Primitive Wrapper Type
- o Class ,Constructor and new Operator
- o Inheritance
- o Getter and Setter Method
- Static Class

- **Jenkins Installation**

- o Prerequisites
- o Installing Jenkins using Yum
- o Installing Jenkins using Apt
- o Installing Jenkins using MSI
- o Installing Jenkins using Tomcat
- o Installing as a Service

Starting and Stopping Jenkins

- **Jenkins Dashboard Tour**

- o Understand Freestyle Project
- o Freestyle General Tab
- o Freestyle Source Code Management Tab
- o Freestyle Build Triggers Tab
- o Freestyle Build Environment
- o Freestyle Build
- o Freestyle Post-build Actions
- o Manage Jenkins
- o My Views
- o Credentials
- o People
- Build History

Day - 2

- **Creating a Simple Job**

- Simple Java and Maven Based Application
- Simple Java and Ant Based Application
- Simple Java and Grovy Based Application
- Simple DOTNET and MSBuild Based Application
- Simple C++ using Batch Application

Day - 3

- **Creating a Simple Job**

- Adding a Linux Node
- Adding a Windows Nodes
- Nodes Management using Jenkins
- Jenkins Nodes High Availability

- **Creating a Simple Job**

- CI Build Pipeline & Dashboard
- Email Notification
- Advance Email Notification
- Slack Notification

- **Jenkins Advance - Administrator**

- Security in Jenkins
- Authorization in Jenkins
- Authentication in Jenkins
- Managing folder/subfolder
- Jenkins Upgrade
- Jenkins Backup
- Jenkins Restore
- Jenkins Command Line