

## Day - 1

- **Agenda of the training: Tools and Technologies**

- Continuous Integration and Delivery Process
- Problem That Build and Release Java Solves
- Explore the Build and Release Java background, approach, and best practices
- Integrate test automation with Build and Release Java
- Implement continuous testing
- Learn how Build and Release Java practices and principles improve software quality and efficiency
- Understand the differences between Build and Release Java and traditional operational methodologies
- Discover the major steps required to successfully implement delivery pipelines
- Build and Release Java Transition to a Project
- Understanding the Continuous Integration and Deployment (CI/CD)
- Implement Build and Release Java - Organization & Culture

- **Operating Systems**

- Introduction of Linux Operating System
- Linux User Commands
- Linux Admin Commands
- Windows Administrator fundamental

- **Concept and Process**

- Software Configuration Management overview
- Elements of Software Configuration Management
- Introduction of Version management / Source Code Management
- Overview of Build management
- Overview of Packaging management
- Build and Release Concept and Process
- Overview of Release and Deployment management
- DevOps Concept and Process
- Continuous Integration and Delivery Process

- **Source Code Management**

- Subversion(svn) Fundamental
- Git Fundamental
- Git Advance

- **Build Tools**

- Apache Ant Fundamental
- Apache Maven Fundamental
- Apache Maven Advance
- MsBuild Fundamental
- Gradle Fundamental

- **Scripting**

- Powershell Scripting - Fundamental
- Bash(Shell) Scripting - Fundamental
- Ruby Programming - Fundamental

- **Package Management in Linux and Windows**

- Yum
- apt-get
- Nuget
- RPM

- **Artifact Repository Tools**

- Sonatype Nexus

- **Configuration Management Tools**

- Chef Fundamental
- Chef Advance
- Puppet Fundamental

- **Incident Management tools**

- Jira Fundamental

- **Continuous Integration Tools**

- Jenkins Fundamental
- Jenkins Advance

- **CI/CD Concept and Implementation**

- Concept of Continuous Integration
- Concept of Continuous Deployment
- Concept of Continuous Delivery
- CI/CD Implementation