**Jenkins with Devops Course Content**

**Duration – 5 days**

**Introduction**

**Devops fundamental**

**Preparation for Jenkins environment**

Configuring Linux In VM

Linux Ubuntu Installation

Installing Java

Installing Jenkins

IP Address Configuration

**Managing Jenkins**

Working with IP Tables

Top 5 Jenkins Plugins

Installing Jenkins Plugins

Creating First Admin User

**Working with Jenkins UI**

First jenkins Job

Build First Job

Installing Git along Apache2 Server

Creating SSH Key

Git Pull Request Builder Job

Build For Github Pull Request

**Devops Essentials**

Software Development Lifecycle (SDLC)

What is DevOps?

Value of DevOps

Measuring DevOps - Metrics

How Agile Practice Applies to DevOps

Concept of Source & Version Control

DevOps Automation

Concept of Git

Continuous Integration and Delivery in DevOps 

**Conclusion**

Jenkins Essential Training

Jenkins is a configuration management tool in JAVA) for testing and reporting on isolated changes in a larger code base instantly on non-developer machine automatically every time someone pushes new code into the source repository. It enables developers to find and solve defects in a code base rapidly and to automate testing of their builds It has lots of advantages of always knowing if all tests work and getting fast feedback. The speedy comments is crucial so you always recognize right

Module 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

Module 2 : What is Jenkins? History of Jenkins Release of Jenkins Jenkins Vs Jenkins Enterprise

Module 3: Jenkins Installation Prerequisites Installing jenkins using Yum Installing as a Service Starting and Stopping jenkins

Module 4: 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

Module 5: Creating a Simple Job Simple Java and Maven Based Application

Module 6: Jobs Scheduling in Jenkins Manually Building Build Trigger based on fixed schedule Build

Trigger by script Build Trigger Based on pushed to git