

Jenkins – Fundamentals

Description

Jenkins is an open-source automation server used worldwide. It enables teams to build, test, and deploy applications reliably. This Jenkins training is designed to give participants a complete mastery of the tool. You will learn about its installation, configuration, and integration with major DevOps tools.

Why take this Jenkins training

This Jenkins course covers the essential foundations for using Jenkins in a professional environment. You will learn how to configure projects, manage users, and set up access strategies. You will also discover how to automate your processes by integrating Git, Maven, SonarQube, Selenium, and Tomcat. Each module is based on real-world use cases to ensure practical application in the workplace.

Course Content

Module 1: Course Introduction

- Course Objectives & Overview
- Introduction to Continuous Integration
- Introduction to Jenkins

Module 2: Jenkins Installation Process

- Installation of Jenkins - Part 1 - Install Java
- Installation of Jenkins - Part 2
- Advanced Jenkins Installation
- Install Jenkins on Tomcat

Module 3 : Getting Started with Jenkins

- Jenkins Dashboard & Configurations
- Creating Users & Granting Access in Jenkins
- Role Based Strategy for Users
- Creating our first Jenkins Job

Module 4 : Continuous Integration with Jenkins

- Jenkins Integration with Git using Poll SCM
- Jenkins Integration with Git using Webhooks
- Installation of Maven
- Setting up a Maven Project
- Jenkins Integration with Maven
- Introduction & Installation of SonarQube
- Code Analysis with SonarQube
- Jenkins Integration with SonarQube
- Sending Email Notifications from Jenkins
- Jenkins Integration with Selenium and TestNG
- Jenkins Integration with Tomcat for Deployment

Module 5 : Jenkins Pipelines

- Introduction To Pipelines
- Setting up Delivery Pipeline
- Setting up Build Pipeline
- Introduction to Jenkins Pipeline
- Setting Up Scripted Jenkins Pipeline
- Setting up Declarative Jenkins Pipeline

Documentation

- Digital courseware included

Participant profiles

- Software Developers
- DevOps Engineers
- System Administrators
- Software Quality Managers

Prerequisites

- Basic understanding of Software Development Lifecycle & the processes involved
- Access to a PC or Mac with internet connection to try out the working samples on the course

Objectives

- Understanding the concepts of DevOps, Continuous Integration, Continuous Delivery & Continuous Deployment
- Understanding how Jenkins fits perfectly as the CI/CD server
- Learning about the basics of a Jenkins job & its configuration options
- Source code repository
- Code Quality
- Automated Build, Test & Deployments
- Jenkins pipeline

Description

Jenkins training

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Fondamental

Classroom Registration Price (CHF)

1600

Virtual Classroom Registration Price (CHF)

1500

Duration (in Days)

2

Reference

JSK-FO