

Continuous Integration with Jenkins

Learn how to automate your software development process with Jenkins and enhance overall software quality.

Category: DevOps · Duration: 2 days

WHO IT IS FOR

- DevOps engineers, SREs and ops teams
- Teams that want hands-on practice on real scenarios

This comprehensive training program on Continuous Integration with Jenkins will teach you the concepts, best practices, and hands-on implementation of integrating Jenkins into your software development workflow. You will gain expertise in setting up and configuring Jenkins, creating pipelines, implementing build automation, and performing continuous testing and deployment. By the end of the course, you will be able to improve team collaboration, increase productivity, and ensure quick and reliable software delivery.

Prerequisites

Basic understanding of software development and version control systems.

Syllabus

- Introduction to Continuous Integration
- Benefits of Continuous Integration
- Setting up Jenkins
- Configuring Jenkins for Your Project
- Creating Jenkins Jobs
- Building and Testing with Jenkins
- Continuous Deployment with Jenkins
- Jenkins Pipeline Overview
- Implementing Build Automation
- Version Control and Jenkins Integration
- Jenkins Plugins and Extensions
- Automated Testing with Jenkins
- Monitoring and Reporting with Jenkins
- Securing Jenkins Environment

- Integrating Jenkins with Other Tools
- Best Practices for Jenkins CI
- Troubleshooting Jenkins Issues
- Scaling Jenkins for Enterprise
- Jenkins Performance Optimization
- Real-world Use Cases and Case Studies