



# Jenkins Intro

8

Academic Hours

# Jenkins Intro

## Overview

**Jenkins is a must tool for DevOps.** It allows to build pipelines very quickly and improving software development lifecycle. It's the must have tool for every DevOps team. Introduce us to Jenkins & its features, will help us getting started with Jenkins (CI Sever). Understand the concepts of CI/CD, the difference between them. Learn and get familiar with Jenkins and how to use jenkins efficiently.

Jenkins is the main tool used today for DevOps processes. The aim of this course it to get to know Jenkins, its architectures, the concepts behind it and to build some basic pipeline jobs.



### Target Audience

This course is for anyone who is interested in **DevOps**.



### Objectives

User will learns

- ┆ What CI/CD is
- ┆ What is Jenkins
- ┆ Understand the concepts of continuous inspection, continuous integration, and continuous deployment, and the difference between them
- ┆ The concept & architecture of Jenkins
- ┆ How to install & configure Jenkins
- ┆ Create and execute Different Jenkins jobs
- ┆ Integrate Jenkins with 3rd party tools like Git, Jira, Docker, etc.
- ┆ Best practices of working with Jenkins
- ┆ Learn how to configure and extend Jenkins functionality with Jenkins plugins





# Content

## Module 01 Intro

- | What is DevOps
- | CI/CD
- | Agile, sprints
- | History
- | Dev vs Ops

## Module 02 Jenkins

- | Terminology
- | Architecture
- | Concept
- | Installing
- | Adding plugins
- | Configuring Jenkins
- | Dashboards/ Views
- | Slave master architecture
- | Configuring Jenkins – Plugins users, etc.
- | Configure Roles / Credentials

## Module 03 Jobs

- | Jobs
- | Create different job types
- | Adding scripts to the job
- | Multi-phase / Pipelines
- | Build
- | Test
- | Deploy
- | Automation (build form CLI, nightly build, triggers, etc.)

## Module 04 BlueOcean

- | New Jenkins 2 GUI
- | Create pipeline with BlueOcean

## Module 05 Jenkins pipeline as code

- | What is Jenkins file
- | How to we manage Jenkins file
- | Working with Jenkins file
- | Building pipelines
- | SCM integration
- | Build triggers (commit, branch, etc.)

## Module 06 Hands On

- | Practice all we have learned
- | Build Docker containers with pipelines
- | Full CI/CD cycle

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