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Jenkins Unleashed

From Setup to Supercharge in 3 days

FA-0274 · 3 days

DevOps, Cloud & Infrastructure

Introduction

Welcome to the comprehensive Jenkins training program! Jenkins has become an indispensable tool in the realm of DevOps, empowering teams to automate their software development processes efficiently.

Whether you're a beginner looking to get started or a seasoned professional aiming to enhance your skills, this three-day training outline will equip you with the knowledge and practical insights needed to leverage Jenkins effectively in your projects.

Learning outcomes

Upon completion of this training, participants will:

- Understand the fundamentals of Jenkins and its role in the CI/CD pipeline.
- Gain hands-on experience with Jenkins installation and configuration.
- Explore advanced topics such as Jenkins integration with Docker, AWS, Ansible, Maven, and Git.
- Learn best practices for ensuring security in Jenkins environments.
- Discover tips and tricks for optimizing Jenkins workflows.
- Master Jenkins Pipeline and the creation of Jenkinsfiles.
- Implement CI/CD pipelines combining Jenkins, Docker, Maven, and other tools.

Prerequisites

- Good understanding of software development and DevOps concepts.
- Familiarity with version control systems such as Git.
- Experience with Terminal and CLI.
- Knowledge of scripting languages.

- Experience using Linux.
- Familiarity with SSH and remoting.
- Understanding of basic firewalls and linux security concepts.

Training outline

1. Introduction & Installation

1. Overview of Jenkins
2. Importance of CI/CD in modern software development
3. Steps to install Jenkins on different platforms (Windows, Linux, macOS)

2. Getting Started with Jenkins

1. Exploring Jenkins Dashboard
2. Creating and configuring Jenkins jobs
3. Understanding Jenkins plugins and their significance

3. Jenkins & Docker

1. Introduction to Docker and containerization
2. Integrating Jenkins with Docker
3. Building Docker images using Jenkins pipelines

4. Jenkins & AWS

1. Overview of AWS services relevant to Jenkins
2. Setting up Jenkins on AWS EC2 instances
3. Deploying applications to AWS using Jenkins

5. Jenkins & Ansible

1. Understanding Ansible automation tool
2. Integrating Ansible with Jenkins for infrastructure provisioning
3. Automating deployment processes with Ansible playbooks

6. Jenkins & Security

1. Securing Jenkins installation
2. Managing user permissions and access control
3. Implementing security best practices in Jenkins pipelines

7. Jenkins Tips & Tricks

1. Performance optimization techniques
2. Pipeline debugging strategies
3. Jenkins troubleshooting tips

8. Jenkins & Email

1. Configuring email notifications in Jenkins
2. Customizing email templates
3. Handling email notifications for pipeline stages

9. Jenkins & Maven

1. Overview of Apache Maven build tool
2. Setting up Maven projects in Jenkins
3. Managing dependencies and artifacts with Jenkins and Maven

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