

JENKINS STANDARD COURSE

Duration: Hours

TARGET AUDIENCE

PRE-REQUISITES

COURSE CONTENTS

1. CI/CD Concepts

Continuous Integration and Continuous Delivery

2. Installing and Configuring Jenkins

- Installing Jenkins
- The Dashboard
- User Management and Security
- Adding a Jenkins Slave (Windows & Linux)
- Getting Set Up in GitHub
- Plugin Manager

3. Projects

- Freestyle Project Configuration
- Source Code Management and the Git Plugin
- Build Triggers and Git Hooks
- · Workspace Environment Variables
- Parameterized Projects
- Upstream/Downstream Projects and the Parameterized Trigger Plugin
- Folders
- Views

4. Pipelines

- Our Java Pipeline Project
- Docker Install
- · Installing and Configuring Ant



- · The Jenkinsfile o Categories of pipeline
- · Configuring and Running a Pipeline
- · Artifacts and Fingerprints

5. Testing With Jenkins

- About Testing
- Unit Testing with JUnit and Ant
- · Deploying to Apache
- Functional Testing
- Testing Code in Docker Containers with Jenkins Pipelines
- Generating JUNIT, MSTEST, CORBUTERA, CLOVER reports

6. Pipeline Enhancements o Multi-branch Pipelines and Code Promotion

- Tagging
- Notifications
- · Shared Pipeline Libraries
- The DevOps Pipeline

7. Advanced Jenkins Administration o The Jenkins CLI

- The Jenkins REST API
- Setting Up a Jenkins Master with Docker
- Setting up a Jenkins Master with Docker

8. Summary of use cases

- · Projects will both .net , java & angular
- Will be shown integration with third party tools
- · All setup will be on cloud

RELATED COURSES

Course Name	Duration	Notes

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