

JENKINS USER BOOT CAMP (JAVA/PYTHON)

2 Days Classroom
2 Days Live Online

Individual: \$1650.00

Group: \$1550.00

GSA: \$1450.00

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COURSE OVERVIEW

This hands-on Jenkins training course enables engineering and development teams to use a practical end-to-end DevOps Pipeline to create, test and deploy Java and Python code using Jenkins. Our lab environment and classroom model is deeply interactive, giving students hands-on practice and access to an expert in the classroom so they can return to work ready.

COURSE OUTLINE

Part 1: Source Control Management with Git

1. Purpose and overview of Git
2. Use cases for Git
3. Git flow
4. Git providers
5. Git configuration
6. Finding help on Git
7. Creating Local Git Repositories
8. Basic Commands: add, commit, status, log
9. Comparing commits: git diff
10. Using a Repository: git push
11. Branches: creating, merging and deleting
12. Resolving merge conflicts
13. Managing Pull Requests
14. Using SSH keys with git platform private repositories

Part 2: Continuous Integration/Continuous Deployment with Jenkins

1. Continuous Integration / Continuous Delivery(CI/CD): Jenkins
2. CI/CD= Continuous Integration / Continuous Deployment
3. Jenkins use case, purpose & history
4. Architecture
5. Using Plugins
6. Initializing a Jenkins Master
7. Projects / jobs
8. Freestyle UI jobs
9. CI/CD as Code: Pipeline Projects
10. Declarative versus Scripted pipelines
11. Views and folders

12. Managing credentials and secrets
13. Distributing workloads – Master and Agent nodes
14. Integrating with Git: Source Control Management
15. Triggers: Scheduled Polling and Webhooks
16. Notifications: Instant Messaging Integration
17. Requiring human input and approval
18. Automated code linting and testing
19. Jenkins Integration with managed nodes
20. Continuous deployment through Jenkins

Part 3: Code Deployment and Release Management

1. Java
 - Building an artifact
 - Storing Artifacts locally
2. Python
 - Building an artifact
 - Storing Artifacts locally

Part 4: Notifications with Slack

1. Integration setup
2. Using Slack for CI/CD notifications

Part 5: Linux Management

See website for complete outline...

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