

# IMPLEMENTING A CI/CD PIPELINE

3 Days Classroom  
3 Days Live Online

Individual: \$2450.00

Group: \$2350.00

GSA: \$2340.00

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## COURSE OVERVIEW

This three-day, instructor-led, hands-on, technical class gives DevOps team members the ability to automate an entire end-to-end CI/CD pipeline. Primary tools used in class include Github, Chef, and Jenkins. You will also use ChefSpec, Inspec, Test Kitchen, Groovy, Maven, and JFrog Artifactory. This is a fast-paced, technical, lab-centric course, and you will leave with best practice experience in building a sample pipeline.

### COURSE OUTLINE

#### Technology Overview

1. Terraform - Infrastructure control (optional with 5-day delivery)
2. Git - Source Control Management
3. Chef - Configuration Management
4. Inspec - Cookbook Testing
5. Jenkins - Continuous Integration
6. Docker - Containerization (optional for 4-day delivery)

#### Part 1: Terraform - Infrastructure Automation (optional with 5-day delivery)

1. Terraform use and purpose
2. Getting started with Terraform
3. General concepts
4. Installation
5. Configuration Files
6. Provisioning and Building Infrastructure
7. Changing Infrastructure
8. Destroying Infrastructure
9. Resource Dependencies
10. Input Variables
11. Output Variables
12. Modules - Pre-defined Configurations
13. Remote state management
14. Terraform Enterprise
15. Triggering a Plan from Version Control
16. Workspaces
17. Terraform Enterprise Runs

18. Migration from Open Source to Enterprise

19. AWS

20. Azure

#### Part 2: Git - Source Control Management

1. Purpose and overview of Git
2. Use cases for Git
3. Git workflow
4. Github, Bitbucket and other Git providers
5. Installation and configuration
6. Finding help on Git
7. Creating Local Git Repositories
8. Basic Git Commands
9. Comparing commits
10. Using a Remote Repository
11. Branching and Merging
12. Using SSH keys with Git private repositories

#### Part 3: Chef - Configuration Management

1. Chef Architecture and call flow
2. Chef Use cases
3. Idempotence
4. Resources
5. Recipes
6. Cookbooks
7. Integration Testing and Test Kitchen
8. Chef Server - a central management repository

**See website for full outline**

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