

DEVOPS

ADVANCED

5 DAYS

Configuration Management with Chef

Build a strong foundation in configuration management using Chef to automate infrastructure provisioning and management. Learn Chef architecture, write and manage recipes and cookbooks, and apply best practices to maintain consistent and scalable infrastructure environments.

Why Chef?

Consistency

Chef allows your team to define system configuration in code, reducing the risk of errors and simplifying troubleshooting.

Compliance

Chef can help your business ensure compliance with industry standards and regulations by automating the configuration of systems to meet those standards.

Scalability

Chef's automation capabilities make it easier to manage large-scale deployments and ensure that all systems are configured correctly.

What you'll be able to do

- ✓ Gain a solid understanding of Configuration Management
- ✓ Learn the architecture of Chef and its components such as Chef Server, Chef Workstation, and Chef Client
- ✓ Learn how to write Chef recipes using the Ruby programming language
- ✓ Master the skill of managing Chef resources, including how to create and manage cookbooks, data bags, and roles
- ✓ Learn how to use Chef to automate infrastructure

Who this is for

- DevOps Engineers
- Infrastructure Engineers
- System Administrators
- Release Engineers
- Developers
- IT Professionals
- Network Engineers
- Database Administrators

Curriculum

01 Chef Foundations and Architecture

- Apply chef foundations and architecture with Chef in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

02 Recipes, Resources, and Cookbooks

- Apply recipes, resources, and cookbooks with Chef in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

03 Roles, Workflow, and Best Practices

- Apply roles, workflow, and best practices with Chef in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

04 Testing and CI/CD with Chef

- Apply testing and ci/cd with chef with Chef in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
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05 Secrets Management

- Apply secrets management with Chef in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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06 Cloud and Hybrid Infrastructure

- Apply cloud and hybrid infrastructure with Chef in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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07 Containers and Cloud-Native Apps

- Apply containers and cloud-native apps with Chef in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

08 Windows Infrastructure

- Apply windows infrastructure with Chef in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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09 High Availability and Scale

- Apply high availability and scale with Chef in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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10 Habitat and Extensions

- Apply habitat and extensions with Chef in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
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11 Compliance

- Apply compliance with Chef in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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12 Troubleshooting

- Apply troubleshooting with Chef in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards