

DEVOPS

ADVANCED

5 DAYS

CircleCI for CI/CD

Build a strong foundation in CI/CD using CircleCI to automate builds, testing, and deployments. Learn how to configure secure pipelines, apply deployment strategies, and integrate CircleCI with existing development tools and services for reliable software delivery.

Why CircleCI?

Automation and Efficiency

CircleCI automates the build, test, and deployment processes, reducing manual effort and increasing efficiency.

Scalability

CircleCI's cloud-based infrastructure allows for scalable and parallelized builds, making it suitable for projects of any size.

Flexibility and Compatibility

CircleCI supports a wide range of programming languages, frameworks, and integrations. This flexibility enables your team to work with their preferred tech stack and easily integrate CircleCI into your existing development ecosystem.

What you'll be able to do

- ✓ Gain an overview of CircleCI and its core concepts
- ✓ Learn how to define build processes and run tests using CircleCI
- ✓ Get deeper insights into the configuration options available in CircleCI
- ✓ Learn about different deployment strategies supported by CircleCI
- ✓ Learn how to seamlessly integrate CircleCI into your existing development stack and leverage external services for testing, artifact storage, notifications, and more
- ✓ Understand security considerations in CI/CD workflows and learn how to configure CircleCI securely

Who this is for

- Developers
- DevOps Engineers
- Release Managers
- QA/Testers
- Project Managers

Curriculum

01 CI/CD and CircleCI Foundations

- Apply ci/cd and circleci foundations with CircleCI in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

02 Build and Test Pipelines

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

03 Advanced Configuration

- Apply advanced configuration with CircleCI in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
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04 Deployment Strategies

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

05 Integrations and Notifications

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

06 Security and Compliance

- Apply security and compliance with CircleCI in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
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07 Performance Optimization

- Apply performance optimization with CircleCI in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
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08 Advanced Testing

- Apply advanced testing with CircleCI in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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09 Custom Orbs and Extensions

- Apply custom orbs and extensions with CircleCI in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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10 Monitoring and Metrics

- Apply monitoring and metrics with CircleCI in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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11 Troubleshooting

- Apply troubleshooting with CircleCI in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
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12 Best Practices

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