

DEVOPS

ADVANCED

5 DAYS

Continuous Integration, Delivery and Deployment with TeamCity

Build a strong foundation in CI/CD using TeamCity to automate builds, testing, and deployments. Learn how to configure workflows, integrate quality checks through plugins, and monitor pipelines to ensure reliable and efficient software delivery.

Why TeamCity?

Reliable CI pipelines

Build, test, and package with TeamCity agents and configs.

Faster feedback

Surface build status, history, and quality signals early.

Controlled deployments

Automate promotions across environments.

Extensible delivery

Integrate VCS, artifacts, and third-party tools.

What you'll be able to do

- ✓ Understanding the fundamental principles and concepts of CI/CD.
- ✓ Learn how to configure TeamCity for different types of projects and workflows.
- ✓ Learn how to set up automated testing using TeamCity.
- ✓ Learn how to automate the deployment of applications using TeamCity.
- ✓ Learn how to use and configure plugins for tasks such as code coverage analysis, static code analysis, and code quality checks.
- ✓ Learn how to monitor the build and deployment process using TeamCity's monitoring tools.

Who this is for

- Software developers
- DevOps engineers
- IT professionals
- Project managers
- Quality assurance engineers
- System administrators

Curriculum

01 CI/CD and TeamCity Foundations

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

02 Server and Agent Setup

- Apply server and agent setup with TeamCity in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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03 Build Configs and VCS Integration

- Apply build configs and vcs integration with TeamCity in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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04 Testing and Code Quality

- Apply testing and code quality with TeamCity in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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05 Dependencies and Artifacts

- Apply dependencies and artifacts with TeamCity in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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06 Deployments and Build Chains

- Apply deployments and build chains with TeamCity in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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07 Plugins and Integrations

- Apply plugins and integrations with TeamCity in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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- Capture reusable patterns for team standards

08 Monitoring and Notifications

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

09 Docker/K8s/Cloud Advanced Topics

- Apply docker/k8s/cloud advanced topics with TeamCity in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
- Capture reusable patterns for team standards

10 Production Pipeline Operations

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

11 Security and Access

- Apply security and access with TeamCity in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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12 Best Practices

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