

DEVOPS

INTERMEDIATE

5 DAYS

GitHub for Effective Source Control

Build a strong foundation in GitHub by understanding repository management, collaboration workflows, and branching strategies. Learn how to manage code versions, automate development processes, and apply security and access controls for effective team based software delivery.

Why GitHub?

Robust Version Control

GitHub is built on Git, a widely adopted and powerful version control system. It provides a solid foundation for managing code changes, tracking history, branching, and merging, ensuring code integrity and allowing teams to work efficiently.

Code Hosting and Accessibility

GitHub provides a secure and reliable platform for hosting code repositories. It ensures your code is accessible to your team members from anywhere, enabling remote collaboration and flexible work arrangements.

Collaboration and Teamwork

GitHub is designed to facilitate collaboration among developers and teams.

What you'll be able to do

- ✓ Gain a solid understanding of the fundamentals of GitHub
- ✓ Learn about Setting Up and Configuring GitHub
- ✓ Learn how to collaborate effectively using GitHub's features
- ✓ Explore different branching models and strategies for managing code changes, branching, and merging effectively.
- ✓ Understand Code Versioning and Release Management
- ✓ Gain a thorough understanding of Integrations and Automation
- ✓ Explore GitHub's security features, including access controls

Who this is for

- Developers
- Project Managers
- DevOps Engineers
- Quality Assurance/Test Engineers
- Technical Leads and Architects
- Release Managers
- Business Analysts

Curriculum

01 Git and GitHub Foundations

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

02 Repos and Branching

- Apply repos and branching with GitHub in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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03 Collaborative Workflows and Code Review

- Apply collaborative workflows and code review with GitHub in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
- Validate outcomes, logs, and failure modes
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04 Issues and Project Management

- Apply issues and project management with GitHub in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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05 Security and Access Controls

- Apply security and access controls with GitHub in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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06 CI/CD Integration

- Apply ci/cd integration with GitHub in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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07 Releases and Versioning

- Apply releases and versioning with GitHub in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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08 GitHub Pages and Insights

- Apply github pages and insights with GitHub in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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09 Hooks and Customization

- Apply hooks and customization with GitHub in practical DevOps workflows
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10 Troubleshooting

- Apply troubleshooting with GitHub in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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11 Advanced Features

- Apply advanced features with GitHub in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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12 Workflow Optimization

- Apply workflow optimization with GitHub in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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