

DEVOPS

ADVANCED

5 DAYS

Continuous Integration, Delivery, and Deployment via Azure DevOps

Build a strong foundation in CI/CD using Azure DevOps by understanding core integration, delivery, and deployment concepts. Learn how to design, build, and manage pipelines while applying best practices for collaboration and reliable software delivery.

Why Azure DevOps?

Streamline software development

Azure DevOps provides an end-to-end solution for managing software development, this allows businesses to streamline their software development process, automate repetitive tasks, and reduce errors.

Continuous Delivery and Deployment: Azure DevOps also supports Continuous Delivery and Deployment, this reduces the time to market and enables businesses to respond to customer needs and feedback more quickly.

Continuous Integration

Azure DevOps supports Continuous Integration, which reduces the time and effort required for manual testing and ensures that all changes are thoroughly tested before being released.

What you'll be able to do

- ✓ Understanding the key concepts of Continuous Integration, Delivery, and Deployment
- ✓ Gain a comprehensive understanding of the Azure DevOps platform
- ✓ Hands-on experience using Azure DevOps to create build and release pipelines
- ✓ Learn about the best practices for implementing a CI/CD pipeline with Azure DevOps
- ✓ Learn how to collaborate effectively with team members when using Azure DevOps for CI/CD

Who this is for

- Software developers
- Software engineers
- IT professionals
- DevOps engineers
- Test Engineers
- Project Managers
- IT Managers

Curriculum

01 CI/CD Foundations on Azure DevOps

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

02 Pipeline Setup

- Apply pipeline setup with Azure DevOps in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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03 Boards and Work Items

- Apply boards and work items with Azure DevOps in practical DevOps workflows
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04 Reposing Strategies

- Apply reposing strategies with Azure DevOps in practical DevOps workflows
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05 Code Quality and Testing

- Apply code quality and testing with Azure DevOps in practical DevOps workflows
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06 Deployment Strategies

- Apply deployment strategies with Azure DevOps in practical DevOps workflows
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07 Security and Compliance

- Apply security and compliance with Azure DevOps in practical DevOps workflows
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08 Reporting and Monitoring

- Apply reporting and monitoring with Azure DevOps in practical DevOps workflows
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09 Extensibility and External Tools

- Apply extensibility and external tools with Azure DevOps in practical DevOps workflows
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10 Azure Service Integrations

- Apply azure service integrations with Azure DevOps in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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11 Automated Testing Patterns

- Apply automated testing patterns with Azure DevOps in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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12 Best Practices

- Apply best practices with Azure DevOps in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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- Capture reusable patterns for team standards