

DEVOPS

ADVANCED

5 DAYS

Continuous Integration, Delivery, and Deployment with AWS Pipeline

Build a strong foundation in CI/CD on AWS by understanding pipeline fundamentals, automation, and infrastructure as code. Learn how to design, secure, monitor, and troubleshoot build and deployment pipelines using AWS services for reliable and compliant software delivery.

Why AWS Pipelines?

Faster Time to Market

CI/CD pipelines enable faster and more frequent releases, reducing the time to market for new products or features.

Increased Efficiency

CI/CD pipelines automate the build, test, and deployment processes, reducing the time and effort required to release new features or updates.

Cost-Effective

AWS provides cost-effective solutions for CI/CD pipelines, allowing businesses to save money on infrastructure and maintenance costs.

What you'll be able to do

- ✓ Understanding the fundamentals of CI/CD
- ✓ Learn AWS services for CI/CD
- ✓ Learn how to automate builds, tests, and deployments
- ✓ Understanding infrastructure as code
- ✓ Learn to monitor and troubleshoot pipelines
- ✓ Understanding the security and compliance considerations involved in implementing CI/CD pipelines

Who this is for

- Developers
- DevOps Engineers
- Release Managers
- Quality Assurance (QA) Team
- Security Team
- Operations Team
- Data Scientists/Engineers
- Business Analysts
- Data Scientists/Engineers

Curriculum

01 CI/CD Foundations on AWS

- Apply ci/cd foundations on aws with AWS CodePipeline 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 AWS CodePipeline in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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03 Build and Test Stages

- Apply build and test stages with AWS CodePipeline in practical DevOps workflows
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04 Deploy Stages

- Apply deploy stages with AWS CodePipeline in practical DevOps workflows
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05 Configuration Management

- Apply configuration management with AWS CodePipeline in practical DevOps workflows
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06 Security Controls

- Apply security controls with AWS CodePipeline in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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07 Monitoring Pipelines

- Apply monitoring pipelines with AWS CodePipeline in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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08 Containerized Deployments

- Apply containerized deployments with AWS CodePipeline in practical DevOps workflows
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09 Canary Deployments

- Apply canary deployments with AWS CodePipeline in practical DevOps workflows
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10 Blue-Green Deployments

- Apply blue-green deployments with AWS CodePipeline in practical DevOps workflows
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11 Service Integrations

- Apply service integrations with AWS CodePipeline in practical DevOps workflows
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12 Best Practices

- Apply best practices with AWS CodePipeline in practical DevOps workflows
- Complete hands-on labs with realistic scenarios
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