

AWS Certified DevOps Engineer - Professional Exam Prep

AWS DevOps Engineer Professional. CI/CD, IaC, monitoring, and incident response.

IT Certifications Instructor: Nick Williams • 5 sections • 42 lessons • 13.00h total

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About this course

This course prepares you for the AWS Certified DevOps Engineer Professional exam. We cover CI/CD, infrastructure as code, monitoring, logging, and incident response. Hands-on labs, real scenarios, and practice exams included.

Course curriculum

Section 1: Foundations and Exam Strategy

- **Understanding the DOP-C02 Exam Structure (12m)**
Learn the exam domains, question types, and scoring to build a solid foundation for your study plan.
- **Creating Your Personalized Study Plan (8m)**
Step-by-step guide to building a realistic study schedule that fits your current workload and learning style.
- **Essential AWS Services for DevOps Professionals (15m)**
Get a focused overview of the core AWS services you must know, from CodePipeline to CloudWatch.
- **Common Exam Pitfalls and How to Avoid Them (10m)**
Real case study analysis of typical mistakes and practical tips to sidestep them during the exam.
- **Setting Up Your AWS Practice Environment (18m)**
Downloadable template to configure a safe, cost-effective lab environment for hands-on practice.
- **Time Management Techniques for the Exam (9m)**
Problem-solving session on pacing yourself through the 3-hour exam without rushing or getting stuck.
- **Reviewing the Official Exam Guide (7m)**
How to use the official AWS exam guide as a checklist to ensure you cover all necessary topics.

Section 2: Core DevOps Concepts & Services

- **CI/CD Pipelines with AWS CodePipeline (22m)**
Learn how to design and troubleshoot scalable CI/CD pipelines using real-world deployment scenarios.
- **Infrastructure as Code with AWS CloudFormation (25m)**
Step-by-step guide to creating, updating, and managing infrastructure stacks reliably.
- **Configuration Management with AWS Systems Manager (18m)**
Practical techniques for automating configuration across fleets of EC2 instances and on-premises servers.
- **Container Orchestration with Amazon ECS and EKS (28m)**
Real case study analysis of deploying and managing containerized applications at scale.
- **Serverless Application Deployment with AWS Lambda (20m)**
Problem-solving session on building and optimizing serverless DevOps workflows.
- **Monitoring and Logging with CloudWatch and X-Ray (24m)**
Downloadable template for setting up comprehensive monitoring and distributed tracing.
- **Security and Compliance Automation (16m)**
Learn how to integrate security checks and compliance reporting into your DevOps pipelines.
- **Cost Optimization for DevOps Workloads (14m)**
Practical strategies to manage and reduce costs while maintaining performance and reliability.
- **High Availability and Disaster Recovery Strategies (21m)**
Step-by-step guide to designing resilient systems across multiple AWS regions.

Section 3: Advanced Deployment Strategies

- **Blue-Green and Canary Deployments in AWS (23m)**
Real case study analysis of implementing zero-downtime deployment strategies.
- **Automating Database Migrations with DMS (19m)**
Problem-solving session on minimizing risk during database schema changes and migrations.
- **Infrastructure Testing with AWS CodeBuild (17m)**
Downloadable template for creating automated test suites for your infrastructure code.
- **Managing Secrets and Credentials Securely (15m)**
Learn how to use AWS Secrets Manager and Parameter Store effectively in your pipelines.
- **Network Automation with AWS CloudFormation (20m)**
Step-by-step guide to automating VPC, subnet, and security group configurations.
- **Event-Driven Architectures with EventBridge (18m)**
Practical techniques for building decoupled, event-driven DevOps workflows.
- **Hybrid Cloud Connectivity with Direct Connect (16m)**
Real-world scenarios for integrating on-premises systems with AWS DevOps tools.

Section 4: Monitoring, Logging, and Troubleshooting

- **Setting Up Comprehensive CloudWatch Dashboards (22m)**
Downloadable template for creating actionable dashboards for your DevOps environment.
- **Alerting and Incident Response Automation (20m)**
Problem-solving session on building automated responses to common production issues.
- **Log Analysis with CloudWatch Logs Insights (18m)**
Step-by-step guide to querying and analyzing logs to troubleshoot complex issues.
- **Distributed Tracing with AWS X-Ray (25m)**
Real case study analysis of tracing requests across microservices architectures.
- **Performance Tuning for EC2 and Containers (21m)**
Practical techniques for identifying and resolving performance bottlenecks.
- **Security Incident Investigation with GuardDuty (16m)**
Learn how to respond to security findings and automate remediation steps.
- **Cost Anomaly Detection and Budget Alerts (14m)**
Downloadable template for setting up proactive cost monitoring and alerts.
- **Troubleshooting Common Deployment Failures (24m)**
Problem-solving session with real exam-style scenarios and solutions.

Section 5: Exam Practice and Final Preparation

- **Practice Exam Strategy and Review (28m)**
How to take practice tests effectively and learn from your mistakes.
- **Domain 1: SDLC Automation Practice Questions (22m)**
Problem-solving session with detailed explanations for SDLC automation scenarios.
- **Domain 2: Configuration Management Practice Questions (20m)**
Real case study analysis of configuration management challenges and solutions.

- **Domain 3: Monitoring and Logging Practice Questions (25m)**
Step-by-step breakdown of complex monitoring and logging exam questions.
- **Domain 4: Deployment Strategies Practice Questions (23m)**
Downloadable template for comparing different deployment strategies in exam scenarios.
- **Domain 5: Security and Compliance Practice Questions (26m)**
Real-world security scenarios that mirror the exam's approach to compliance.
- **Domain 6: Disaster Recovery Practice Questions (19m)**
Problem-solving session on designing resilient systems under exam constraints.
- **Full-Length Mock Exam Walkthrough (35m)**
Complete walkthrough of a full-length mock exam with detailed explanations.
- **Last-Minute Review Checklist (12m)**
Downloadable checklist to ensure you're ready for exam day.
- **Exam Day Strategies and Tips (10m)**
Practical advice for managing stress and maximizing performance during the exam.
- **Post-Exam: Next Steps and Certification Maintenance (8m)**
Learn how to maintain your certification and continue your DevOps journey.

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