

Detailed overview of the **AWS Certified DevOps Engineer – Professional** certification, followed by a practical **7-day learning plan** to guide your preparation efficiently:

## AWS Certified DevOps Engineer – Professional (DOP-C02) — In Detail

### Certification Overview

- **Level:** Professional
- **Exam Duration:** 180 minutes (3 hours)
- **Number & Format of Questions:** 75 questions—multiple choice and multiple response
- **Cost:** USD 300

([Amazon Web Services, Inc.](#))

This certification validates advanced skills in provisioning, operating, and managing AWS environments, particularly focusing on continuous delivery, automation, security, and reliability in distributed systems. It's meant for professionals with a strong DevOps background.

([Amazon Web Services, Inc.](#))

### Recommended Experience

To take this exam, AWS expects you to have:

- **2+ years** of experience provisioning, operating, and managing AWS environments
- Experience with **software development, scripting, and highly automated infrastructure**
- Familiarity with **CI/CD, security controls, monitoring, and governance**

([Amazon Web Services, Inc.](#))

### Exam Domains & Weightings

According to the DOP-C02 (Professional) exam outline:

Domain	Weight	Focus Areas
SDLC Automation	22%	CI/CD processes: CodePipeline, CodeBuild, CodeDeploy, artifacts, automated testing
Configuration Management & Infrastructure as Code (IaC)	17%	CloudFormation, Systems Manager, OpsWorks, reusable infra templates
Resilient Cloud Solutions	15–16%	High availability, multi-AZ/multi-account setups, disaster recovery
Monitoring & Logging	15%	CloudWatch, CloudTrail, X-Ray, alerting and observability
Incident & Event Response	14%	Automated response, event handling, failure recovery
Security & Compliance	16–17%	IAM, least privilege, encryption, audit logging, governance
( <a href="#">Towards The Cloud</a> , <a href="#">CyberPanel</a> , <a href="#">certmates.com</a> , <a href="#">Spacelift</a> )		

## Key Technical Topics

To succeed, you should master:

- **CI/CD Pipelines** (CodeCommit, CodePipeline, CodeBuild, CodeDeploy)
- **Artifact Management** (CodeArtifact, ECR, S3)
- **Deployment Strategies**: Blue/green, canary, immutable deployments, across ECS, Lambda, EC2
- **IaC Tools**: CloudFormation, OpsWorks, Systems Manager
- **Resilience**: Multi-AZ, multi-region, backups, DR strategies
- **Monitoring & Logging**: CloudWatch metrics/logs, CloudTrail, X-Ray
- **Incident Response**: Alarms, events, automation via Lambda or Systems Manager
- **Security & Governance**: IAM best practices, secrets management, encryption, auditing  
([Spacelift](#), [testpreptraining.com](#))

## Insights from the Field

Many certified professionals emphasize scenario-based questions requiring multiple AWS services to solve a problem:

“This test has so many long-winded questions and lots of scenarios that require the use of 2 or more services...”

([Reddit](#))

Commonly recommended resources include:

- **Stephane Maarek’s Udemy course** (hands-on focused)
- **Tutorials Dojo practice exams**
- **AWS Exam Readiness digital course**

([Reddit](#))

<https://www.sqldbachamps.com>

## 7-Day Learning Plan — AWS DevOps Engineer Professional

Assuming you can dedicate around **4–5 hours a day**, here's a structured plan:

### Day 1 – Exam Foundations & SDLC Automation

- Study the **exam guide** and domain structure
- Review **CI/CD pipeline fundamentals** with CodeCommit, CodePipeline, CodeBuild, CodeDeploy
- Lab: Build a simple pipeline with automated testing and deployment

### Day 2 – Advanced CI/CD & Artifact Management

- Deep dive into **artifact handling** (CodeArtifact, ECR, S3), plus build strategies
- Explore **immutable** and **blue/green** deployment patterns
- Lab: Create an immutable deployment pipeline leveraging CodeDeploy strategies

### Day 3 – IaC & Configuration Management

- Learn services such as **CloudFormation**, **OpsWorks**, and **Systems Manager**
- Study IaC best practices and reusable templates
- Lab: Deploy a multi-tier stack using CloudFormation and automate config with Systems Manager

### Day 4 – Resiliency, High Availability & DR

- Understand **multi-AZ / multi-region architectures** and DR strategies
- Lab: Implement a high-availability architecture across AZs (e.g., auto-scaling and failover mechanisms)

### Day 5 – Monitoring, Logging & Incident Response

- Master CloudWatch, CloudTrail, X-Ray and alerting workflows
- Learn automated incident responses (e.g., CloudWatch alarms invoking Lambdas or SSM)
- Lab: Set up a monitoring solution with triggered auto-remediation actions

### Day 6 – Security, Governance & Compliance

- Study IAM, secrets, encryption, and audit practices
- Tools like KMS, Secrets Manager, security in pipeline builds
- Lab: Secure a CI/CD workflow with encrypted parameters, least-privilege IAM, and audit logs

### Day 7 – Practice Exam & Final Review

- Take a **full-length practice test** (AWS official or trusted provider)
- Review mistakes and revisit weak areas
- Skim relevant **AWS whitepapers** (e.g., Well-Architected Framework, DevOps guidelines)
- Aim for consistent **≥ 80%** to be exam-ready

### Summary Checklist

- **Day 1:** Exam overview & pipeline basics
- **Day 2:** CI/CD advanced & deployment strategies
- **Day 3:** IaC and configuration management
- **Day 4:** Resiliency & DR
- **Day 5:** Observability & incident response
- **Day 6:** Security & governance
- **Day 7:** Practice exam and final polish

**7-day focused study checklist** for the **AWS Certified DevOps Engineer – Professional (DOP-C02)** exam.

This is a tough certification (professional level), but with a structured plan, you can cover the key topics in one week — assuming you already have hands-on experience with AWS and CI/CD tools.

Here's a **7-Day Study Checklist** designed for intense preparation:

## 📅 7-Day AWS DevOps Engineer – Professional Study Plan

### Day 1 – Exam Overview & CI/CD Foundations

#### ◆ Understand the Exam Blueprint

- Read the [AWS DOP-C02 Exam Guide](#)
- Understand the 6 domains:
  - SDLC Automation (22%)
  - Configuration Management & IaC (17%)
  - Resilient Cloud Solutions (15%)
  - Monitoring & Logging (15%)
  - Incident & Event Response (14%)
  - Security & Compliance Automation (17%)

#### ◆ Key Services to Review

- **CodeCommit, CodeBuild, CodeDeploy, CodePipeline**
- **CloudFormation & CDK basics**
- **Elastic Beanstalk for deployments**
- **Git & CI/CD workflows (branching, triggers, approvals)**

#### 📌 Hands-On:

- Create a simple **CodePipeline** with CodeCommit → CodeBuild → CodeDeploy to EC2.

### Day 2 – Infrastructure as Code & Configuration Management

#### ◆ CloudFormation & CDK

- StackSets, ChangeSets, Nested Stacks
- Parameters, Mappings, Conditions, Outputs
- Drift detection and rollback

#### ◆ Configuration Management

- **Systems Manager (SSM):** Parameter Store, State Manager, Patch Manager, Run Command
- **OpsWorks & Chef/Puppet basics**

#### 📌 Hands-On:

- Deploy an EC2 + ALB setup with CloudFormation
- Store environment configs in **SSM Parameter Store**
- Patch EC2 using **Patch Manager**

### Day 3 – Monitoring, Logging & Observability

#### ◆ CloudWatch

- Metrics, Logs, Alarms, Composite Alarms
- CloudWatch Logs Insights
- Dashboards and Cross-Account Monitoring

#### ◆ X-Ray

- Tracing microservices & analyzing latency

#### ◆ AWS Config & CloudTrail

- Resource compliance checks
- Detecting drift and security misconfigurations

#### 📌 Hands-On:

- Create CloudWatch alarm that triggers SNS
- Run CloudWatch Logs Insights queries
- Enable AWS Config rules for compliance

### Day 4 – Security & Compliance Automation

#### ◆ IAM Best Practices

- Cross-account roles, Permissions boundaries, SCPs
- Identity Center (SSO), Secrets Manager, KMS

#### ◆ Compliance Automation

- GuardDuty, Security Hub, Inspector, Macie
- Automating remediation with EventBridge + Lambda

#### 📌 Hands-On:

- Enable **GuardDuty** in multi-account setup
- Automate remediation for public S3 bucket (via EventBridge + Lambda)

### Day 5 – High Availability & Resiliency

#### ◆ Resilient Architectures

- Multi-AZ, Multi-Region deployments
- Auto Scaling (EC2, ECS, DynamoDB, Aurora)
- Blue/Green & Canary Deployments
- Elastic Load Balancing (ALB/NLB)

#### ◆ Disaster Recovery

- RTO/RPO strategies: Backup & Restore, Pilot Light, Warm Standby, Multi-Site Active/Active

#### 📌 Hands-On:

- Deploy Blue/Green with **CodeDeploy**
- Configure Auto Scaling Group with lifecycle hooks

### Day 6 – Incident & Event Response

#### ◆ Incident Automation

- EventBridge event patterns
- Step Functions for automated response workflows
- CloudWatch alarms → Systems Manager Automation Documents (SSM Docs)

#### ◆ GameDay Scenarios

- Simulate EC2 failure & Auto Healing
- Rollback failed deployments automatically

#### 📌 Hands-On:

- Automate EC2 reboot on CPU threshold
- Trigger rollback on CodeDeploy failure

## Day 7 – Practice Tests & Review

### ◆ Review & Final Prep

- Go over **Whitepapers**:
  - AWS Well-Architected Framework
  - DevOps on AWS
  - Infrastructure as Code
- Focus on weak domains from Days 1-6

### ◆ Practice Tests

- Do at least **2 full-length practice exams**
- Review **every wrong answer** — understand why

### 📌 Recommended Practice Sources

- **Tutorials Dojo / Jon Bonso practice exams**
- **AWS Official Sample Questions**
- **Whizlabs / ExamPro mocks**

### ✅ Quick Tips

- **Focus on Scenario-Based Thinking**: The exam is 75% scenario questions. Think about *automation first* solutions.
- **Know Tradeoffs**: For each service, know when NOT to use it (e.g., why use CodeDeploy over Elastic Beanstalk).
- **Hands-On is King**: Build and break things in a sandbox account — the exam tests real-world problem solving.

**Day-by-Day AWS DevOps Engineer – Professional Study Checklist** in a clean, trackable **table format** so you can mark off each task as you finish.

**1 7-Day AWS DevOps Engineer – Professional Study Checklist**

Day	Topics & Services	Hands-On Tasks	Status 
Day 1	<b>Exam Overview &amp; CI/CD Foundations</b> <ul style="list-style-type: none"><li>• Read AWS DOP-C02 Exam Guide</li><li>• Review 6 domains &amp; weightage</li><li>• Deep dive into CodeCommit, CodeBuild, CodeDeploy, CodePipeline</li><li>• Elastic Beanstalk deployment basics</li><li>• Git branching &amp; CI/CD workflow best practices</li></ul>	 Build a CodePipeline with CodeCommit → CodeBuild → CodeDeploy (EC2 deployment)	<input type="checkbox"/>
Day 2	<b>Infrastructure as Code &amp; Config Management</b> <ul style="list-style-type: none"><li>• CloudFormation: StackSets, ChangeSets, Nested Stacks</li><li>• Parameters, Conditions, Drift Detection</li><li>• CDK basics</li><li>• AWS Systems Manager (SSM): Parameter Store, Run Command, Patch Manager</li><li>• OpsWorks (Chef/Puppet) basics</li></ul>	 Deploy EC2 + ALB via CloudFormation  Store app config in Parameter Store  Patch EC2 using Patch Manager	<input type="checkbox"/>
Day 3	<b>Monitoring, Logging &amp; Observability</b> <ul style="list-style-type: none"><li>• CloudWatch: Metrics, Logs, Alarms, Dashboards</li><li>• CloudWatch Logs Insights queries</li><li>• X-Ray for tracing microservices</li><li>• AWS Config rules, drift detection</li><li>• CloudTrail event logging &amp; auditing</li></ul>	 Create a CloudWatch Alarm → SNS notification  Run Logs Insights query  Enable AWS Config rules and review compliance results	<input type="checkbox"/>
Day 4	<b>Security &amp; Compliance Automation</b> <ul style="list-style-type: none"><li>• IAM roles, Permission Boundaries, SCPs</li><li>• Identity Center (SSO)</li><li>• Secrets Manager, KMS encryption</li><li>• GuardDuty, Security Hub, Inspector, Macie</li><li>• Automate remediation via EventBridge + Lambda</li></ul>	 Enable GuardDuty and Security Hub  Create EventBridge + Lambda to auto-remediate public S3 bucket	<input type="checkbox"/>
Day 5	<b>High Availability &amp; Resiliency</b> <ul style="list-style-type: none"><li>• Multi-AZ, Multi-Region architecture patterns</li><li>• Auto Scaling groups, lifecycle hooks</li><li>• Blue/Green &amp; Canary deployments</li><li>• ALB vs NLB trade-offs • Disaster recovery strategies (RTO/RPO)</li></ul>	 Deploy Blue/Green deployment with CodeDeploy  Configure ASG with lifecycle hooks & health checks	<input type="checkbox"/>

Day	Topics & Services	Hands-On Tasks	Status
			<input checked="" type="checkbox"/>
Day 6	<b>Incident &amp; Event Response</b> <ul style="list-style-type: none"><li>• EventBridge event patterns &amp; routing</li><li>• Step Functions workflows</li><li>• SSM Automation Documents</li><li>• Automate rollback on failure</li><li>• GameDay-style fault injection</li></ul>	Automate EC2 reboot when CPU > threshold  Trigger CodeDeploy rollback on failure	<input type="checkbox"/>
Day 7	<b>Full Review &amp; Practice Tests</b> <ul style="list-style-type: none"><li>• Review AWS Whitepapers: Well-Architected, DevOps on AWS, IaC</li><li>• Review weak domains from Days 1-6</li><li>• Take 2 practice exams (Tutorials Dojo, ExamPro, or AWS official)</li><li>• Analyze every incorrect answer</li></ul>	Do 2 full-length timed practice tests  Focus on weak areas & revisit notes	<input type="checkbox"/>

## Usage:

- **Print this table** or keep it digital in Notion/Excel/Google Sheets.
- **Tick the Status column** as you complete each task.
- Spend **4-5 hours/day** minimum for this to work in just 7 days.