

Professional Exam Guide (DOP-C02)

# AWS Certified DevOps Engineer



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# **AWS Certified DevOps Engineer: Professional Exam Guide (DOP-C02)**

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# AWS Certified DevOps Engineer - Professional (DOP-C02)

The AWS Certified DevOps Engineer - Professional (DOP-C02) exam is intended for individuals who perform a DevOps engineer role. The exam validates a candidate's technical expertise in provisioning, operating, and managing distributed systems and services on AWS.

## Topics

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## Introduction

The [AWS Certified DevOps Engineer - Professional \(DOP-C02\)](#) exam is intended for individuals who perform a DevOps engineer role. The exam validates a candidate's technical expertise in provisioning, operating, and managing distributed systems and services on AWS.

The exam also validates a candidate's ability to complete the following tasks:

- Implement and manage continuous delivery systems and methodologies on AWS.
- Implement and automate security controls, governance processes, and compliance validation.
- Define and deploy monitoring, metrics, and logging systems on AWS.

- Implement systems that are highly available, scalable, and self-healing on AWS.
- Design, manage, and maintain tools to automate operational processes.

## Target Candidate Description

The target candidate should have 2 or more years of experience in provisioning, operating, and managing AWS environments. The target candidate also has experience with the software development lifecycle and programming and/or scripting.

## Recommended General IT Knowledge and Experience

The target candidate should have the following experience:

- Experience in building highly automated infrastructure
- Experience in administering operating systems
- Experience with modern development and operations processes and methodologies

## Recommended AWS Knowledge and Experience

The target candidate should have experience in securing AWS infrastructure.

## Job Tasks That Are Out of Scope for the Target Candidate

The following list contains job tasks that the target candidate is not expected to be able to perform. This list is non-exhaustive. These tasks are out of scope for the exam:

- Possess advanced networking knowledge (for example, advanced routing algorithms, failover techniques).
- Provide deep-level security recommendations to developers.
- Design, query, and optimize the performance of databases.
- Develop full-stack application code.

# Exam Content

## Response Types

There are two types of questions on the exam:

- **Multiple choice:** Has one correct response and three incorrect responses (distractors)
- **Multiple response:** Has two or more correct responses out of five or more response options

Select one or more responses that best complete the statement or answer the question.

Distractors, or incorrect answers, are response options that a candidate with incomplete knowledge or skill might choose. Distractors are generally plausible responses that match the content area.

Unanswered questions are scored as incorrect; there is no penalty for guessing. The exam includes 65 questions that affect your score.

## Unscored Content

The exam includes 10 unscored questions that do not affect your score. AWS collects information about performance on these unscored questions to evaluate these questions for future use as scored questions. These unscored questions are not identified on the exam.

## Exam Results

The AWS Certified DevOps Engineer - Professional (DOP-C02) exam has a pass or fail designation. The exam is scored against a minimum standard established by AWS professionals who follow certification industry best practices and guidelines.

Your results for the exam are reported as a scaled score of 100–1,000. The minimum passing score is 750. Your score shows how you performed on the exam as a whole and whether you passed. Scaled scoring models help equate scores across multiple exam forms that might have slightly different difficulty levels.

Your score report could contain a table of classifications of your performance at each section level. The exam uses a compensatory scoring model, which means that you do not need to achieve a passing score in each section. You need to pass only the overall exam.

Each section of the exam has a specific weighting, so some sections have more questions than other sections have. The table of classifications contains general information that highlights your strengths and weaknesses. Use caution when you interpret section-level feedback.

## Content Outline

This exam guide includes weightings, content domains, and task statements for the exam. This guide does not provide a comprehensive list of the content on the exam. However, additional context for each task statement is available to help you prepare for the exam.

The exam has the following content domains and weightings:

- [Content Domain 1: SDLC Automation \(22% of scored content\)](#)
- [Content Domain 2: Configuration Management and IaC \(17% of scored content\)](#)
- [Content Domain 3: Resilient Cloud Solutions \(15% of scored content\)](#)
- [Content Domain 4: Monitoring and Logging \(15% of scored content\)](#)
- [Content Domain 5: Incident and Event Response \(14% of scored content\)](#)
- [Content Domain 6: Security and Compliance \(17% of scored content\)](#)

## Service References

The following sections provide detailed information about AWS services, technologies, and concepts relevant to this certification exam:

- [Technologies and Concepts](#)
- [In-Scope AWS Services](#)

## Content Domain 1: SDLC Automation

### Task Statement 1.1: Implement CI/CD pipelines.

#### Knowledge of:

- Software development lifecycle (SDLC) concepts, phases, and models
- Pipeline deployment patterns for single- and multi-account environments

**Skills in:**

- Configuring code, image, and artifact repositories
- Using version control to integrate pipelines with application environments
- Setting up build processes (for example, AWS CodeBuild)
- Managing build and deployment secrets (for example, AWS Secrets Manager, AWS Systems Manager Parameter Store)
- Determining appropriate deployment strategies (for example, AWS CodeDeploy)

**Task Statement 1.2: Integrate automated testing into CI/CD pipelines.****Knowledge of:**

- Different types of tests (for example, unit tests, integration tests, acceptance tests, user interface tests, security scans)
- Reasonable use of different types of tests at different stages of the CI/CD pipeline

**Skills in:**

- Running builds or tests when generating pull requests or code merges (for example, CodeBuild)
- Running load/stress tests, performance benchmarking, and application testing at scale
- Measuring application health based on application exit codes
- Automating unit tests and code coverage
- Invoking AWS services in a pipeline for testing

**Task Statement 1.3: Build and manage artifacts.****Knowledge of:**

- Artifact use cases and secure management
- Methods to create and generate artifacts
- Artifact lifecycle considerations

**Skills in:**

- Creating and configuring artifact repositories (for example, AWS CodeArtifact, Amazon S3, Amazon Elastic Container Registry [Amazon ECR])
- Configuring build tools for generating artifacts (for example, CodeBuild, AWS Lambda)
- Automating Amazon EC2 instance and container image build processes (for example, EC2 Image Builder)

**Task Statement 1.4: Implement deployment strategies for instance, container, and serverless environments.****Knowledge of:**

- Deployment methodologies for various platforms (for example, Amazon EC2, Amazon Elastic Container Service [Amazon ECS], Amazon Elastic Kubernetes Service [Amazon EKS], Lambda)
- Application storage patterns (for example, Amazon Elastic File System [Amazon EFS], Amazon S3, Amazon Elastic Block Store [Amazon EBS])
- Mutable deployment patterns in contrast to immutable deployment patterns
- Tools and services available for distributing code (for example, CodeDeploy, Image Builder)

**Skills in:**

- Configuring security permissions to allow access to artifact repositories (for example, AWS Identity and Access Management [IAM], CodeArtifact)
- Configuring deployment agents (for example, CodeDeploy agent)
- Troubleshooting deployment issues
- Using different deployment methods (for example, blue/green, canary)

## Content Domain 2: Configuration Management and IaC

### Task Statement 2.1: Define cloud infrastructure and reusable components to provision and manage systems throughout their lifecycle.

#### Knowledge of:

- Infrastructure as code (IaC) options and tools for AWS
- Change management processes for IaC-based platforms
- Configuration management services and strategies

#### Skills in:

- Composing and deploying IaC templates (for example, AWS Serverless Application Model [AWS SAM], AWS CloudFormation, AWS Cloud Development Kit [AWS CDK])
- Applying CloudFormation stack sets across multiple accounts and AWS Regions
- Determining optimal configuration management services (for example, AWS OpsWorks, AWS Systems Manager, AWS Config, AWS AppConfig)
- Implementing infrastructure patterns, governance controls, and security standards into reusable IaC templates (for example, AWS Service Catalog, CloudFormation modules, AWS CDK)

### Task Statement 2.2: Deploy automation to create, onboard, and secure AWS accounts in a multi-account or multi-Region environment.

#### Knowledge of:

- AWS account structures, best practices, and related AWS services

#### Skills in:

- Standardizing and automating account provisioning and configuration
- Creating, consolidating, and centrally managing accounts (for example, AWS Organizations, AWS Control Tower)

- Applying IAM solutions for multi-account and complex organization structures (for example, SCPs, assuming roles)
- Implementing and developing governance and security controls at scale (AWS Config, AWS Control Tower, AWS Security Hub, Amazon Detective, Amazon GuardDuty, Service Catalog, SCPs)

## **Task Statement 2.3: Design and build automated solutions for complex tasks and large-scale environments.**

### **Knowledge of:**

- AWS services and solutions to automate tasks and processes
- Methods and strategies to interact with the AWS software-defined infrastructure

### **Skills in:**

- Automating system inventory, configuration, and patch management (for example, Systems Manager, AWS Config)
- Developing AWS Lambda function automations for complex scenarios (for example, AWS SDKs, Lambda, AWS Step Functions)
- Automating the configuration of software applications to the desired state (for example, OpsWorks, Systems Manager State Manager)
- Maintaining software compliance (for example, Systems Manager)

## **Content Domain 3: Resilient Cloud Solutions**

### **Task Statement 3.1: Implement highly available solutions to meet resilience and business requirements.**

#### **Knowledge of:**

- Multi-AZ and multi-Region deployments (for example, compute layer, data layer)
- SLAs
- Replication and failover methods for stateful services
- Techniques to achieve high availability (for example, Multi-AZ, multi-Region)

**Skills in:**

- Translating business requirements into technical resiliency needs
- Identifying and remediating single points of failure in existing workloads
- Enabling cross-Region solutions where available (for example, Amazon DynamoDB, Amazon RDS, Amazon Route 53, Amazon S3, Amazon CloudFront)
- Configuring load balancing to support cross-AZ services
- Configuring applications and related services to support multiple Availability Zones and AWS Regions while minimizing downtime

**Task Statement 3.2: Implement solutions that are scalable to meet business requirements.****Knowledge of:**

- Appropriate metrics for scaling services
- Loosely coupled and distributed architectures
- Serverless architectures
- Container platforms

**Skills in:**

- Identifying and remediating scaling issues
- Identifying and implementing appropriate auto scaling, load balancing, and caching solutions
- Deploying container-based applications (for example, Amazon Elastic Container Service [Amazon ECS], Amazon Elastic Kubernetes Service [Amazon EKS])
- Deploying workloads in multiple Regions for global scalability
- Configuring serverless applications (for example, Amazon API Gateway, AWS Lambda, AWS Fargate)

## **Task Statement 3.3: Implement automated recovery processes to meet RTO and RPO requirements.**

### **Knowledge of:**

- Disaster recovery concepts (for example, RTO, RPO)
- AWS Backup and recovery strategies (for example, pilot light, warm standby)
- Recovery procedures

### **Skills in:**

- Testing failover of Multi-AZ and multi-Region workloads (for example, Amazon RDS, Amazon Aurora, Route 53, CloudFront)
- Identifying and implementing appropriate cross-Region AWS Backup and recovery strategies (for example, AWS Backup, Amazon S3, AWS Systems Manager)
- Configuring a load balancer to recover from backend failure

## **Content Domain 4: Monitoring and Logging**

### **Task Statement 4.1: Configure the collection, aggregation, and storage of logs and metrics.**

#### **Knowledge of:**

- How to monitor applications and infrastructure
- Amazon CloudWatch metrics (for example, namespaces, metrics, dimensions, and resolution)
- Real-time log ingestion
- Encryption options for at-rest and in-transit logs and metrics (for example, client-side and server-side, AWS Key Management Service [AWS KMS])
- Security configurations (for example, IAM roles and permissions to allow for log collection)

#### **Skills in:**

- Securely storing and managing logs

- Creating CloudWatch metrics from log events by using metric filters
- Creating CloudWatch metric streams (for example, Amazon S3 or Amazon Kinesis Data Firehose options)
- Collecting custom metrics (for example, using the CloudWatch agent)
- Managing log storage lifecycles (for example, Amazon S3 lifecycles, CloudWatch log group retention)
- Processing log data by using CloudWatch log subscriptions (for example, Amazon Kinesis, AWS Lambda, Amazon OpenSearch Service)
- Searching log data by using filter and pattern syntax or Amazon CloudWatch Logs Insights
- Configuring encryption of log data (for example, AWS KMS)

## **Task Statement 4.2: Audit, monitor, and analyze logs and metrics to detect issues.**

### **Knowledge of:**

- Anomaly detection alarms (for example, CloudWatch anomaly detection)
- Common CloudWatch metrics and logs (for example, CPU utilization with Amazon EC2, queue length with Amazon RDS, 5xx errors with an Application Load Balancer [ALB])
- Amazon Inspector and common assessment templates
- AWS Config rules
- AWS CloudTrail log events

### **Skills in:**

- Building CloudWatch dashboards and Amazon QuickSight visualizations
- Associating CloudWatch alarms with CloudWatch metrics (standard and custom)
- Configuring AWS X-Ray for different services (for example, containers, Amazon API Gateway, Lambda)
- Analyzing real-time log streams (for example, using Amazon Kinesis Data Streams)
- Analyzing logs with AWS services (for example, Amazon Athena, CloudWatch Logs Insights)

## **Task Statement 4.3: Automate monitoring and event management of complex environments.**

### **Knowledge of:**

- Event-driven, asynchronous design patterns (for example, S3 Event Notifications or Amazon EventBridge events to Amazon Simple Notification Service [Amazon SNS] or Lambda)
- Capabilities of auto scaling for a variety of AWS services (for example, EC2 Auto Scaling groups, RDS storage auto scaling, Amazon DynamoDB, Amazon Elastic Container Service [Amazon ECS] capacity provider, Amazon Elastic Kubernetes Service [Amazon EKS] autoscalers)
- Alert notification and action capabilities (for example, CloudWatch alarms to Amazon SNS, Lambda, EC2 automatic recovery)
- Health check capabilities in AWS services (for example, ALB target groups, Amazon Route 53)

### **Skills in:**

- Configuring solutions for auto scaling (for example, DynamoDB, EC2 Auto Scaling groups, RDS storage auto scaling, ECS capacity provider)
- Creating CloudWatch custom metrics and metric filters, alarms, and notifications (for example, Amazon SNS, Lambda)
- Configuring S3 events to process log files (for example, by using Lambda) and deliver log files to another destination (for example, OpenSearch Service, CloudWatch Logs)
- Configuring EventBridge to send notifications based on a particular event pattern
- Installing and configuring agents on EC2 instances (for example, AWS Systems Manager Agent [SSM Agent], CloudWatch agent)
- Configuring AWS Config rules to remediate issues
- Configuring health checks (for example, Route 53, ALB)

## Content Domain 5: Incident and Event Response

### Task Statement 5.1: Manage event sources to process, notify, and take action in response to events.

#### Knowledge of:

- AWS services that generate, capture, and process events (for example, AWS Health, Amazon EventBridge, AWS CloudTrail)
- Event-driven architectures (for example, fan out, event streaming, queuing)

#### Skills in:

- Integrating AWS event sources (for example, AWS Health, EventBridge, CloudTrail)
- Building event processing workflows (for example, Amazon Simple Queue Service [Amazon SQS], Amazon Kinesis, Amazon Simple Notification Service [Amazon SNS], AWS Lambda, AWS Step Functions)

### Task Statement 5.2: Implement configuration changes in response to events.

#### Knowledge of:

- Fleet management services (for example, AWS Systems Manager, AWS Auto Scaling)
- Configuration management services (for example, AWS Config)

#### Skills in:

- Applying configuration changes to systems
- Modifying infrastructure configurations in response to events
- Remediating a non-desired system state

## Task Statement 5.3: Troubleshoot system and application failures.

### Knowledge of:

- AWS metrics and logging services (for example, Amazon CloudWatch, AWS X-Ray)
- AWS service health services (for example, AWS Health, CloudWatch, Systems Manager OpsCenter)
- Root cause analysis

### Skills in:

- Analyzing failed deployments (for example, AWS CodePipeline, AWS CodeBuild, AWS CodeDeploy, AWS CloudFormation, CloudWatch synthetic monitoring)
- Analyzing incidents regarding failed processes (for example, auto scaling, Amazon Elastic Container Service [Amazon ECS], Amazon Elastic Kubernetes Service [Amazon EKS])

## Content Domain 6: Security and Compliance

### Task Statement 6.1: Implement techniques for identity and access management at scale.

#### Knowledge of:

- Appropriate usage of different IAM entities for human and machine access (for example, users, groups, roles, identity providers, identity-based policies, resource-based policies, session policies)
- Identity federation techniques (for example, using IAM identity providers and AWS IAM Identity Center)
- Permission management delegation by using IAM permissions boundaries
- Organizational SCPs

#### Skills in:

- Designing policies to enforce least privilege access
- Implementing role-based and attribute-based access control patterns

- Automating credential rotation for machine identities (for example, AWS Secrets Manager)
- Managing permissions to control access to human and machine identities (for example, enabling multi-factor authentication [MFA], AWS Security Token Service [AWS STS], IAM profiles)

## **Task Statement 6.2: Apply automation for security controls and data protection.**

### **Knowledge of:**

- Network security components (for example, security groups, network ACLs, routing, AWS Network Firewall, AWS WAF, AWS Shield)
- Certificates and public key infrastructure (PKI)
- Data management (for example, data classification, encryption, key management, access controls)

### **Skills in:**

- Automating the application of security controls in multi-account and multi-Region environments (for example, AWS Security Hub, AWS Organizations, AWS Control Tower, AWS Systems Manager)
- Combining security controls to apply defense in depth (for example, AWS Certificate Manager [ACM], AWS WAF, AWS Config, AWS Config rules, Security Hub, Amazon GuardDuty, security groups, network ACLs, Amazon Detective, Network Firewall)
- Automating the discovery of sensitive data at scale (for example, Amazon Macie)
- Encrypting data in transit and data at rest (for example, AWS Key Management Service [AWS KMS], AWS CloudHSM, ACM)

## **Task Statement 6.3: Implement security monitoring and auditing solutions.**

### **Knowledge of:**

- Security auditing services and features (for example, AWS CloudTrail, AWS Config, VPC Flow Logs, AWS CloudFormation drift detection)

- AWS services for identifying security vulnerabilities and events (for example, GuardDuty, Amazon Inspector, IAM Access Analyzer, AWS Config)
- Common cloud security threats (for example, insecure web traffic, exposed AWS access keys, S3 buckets with public access enabled or encryption disabled)

### **Skills in:**

- Implementing robust security auditing
- Configuring alerting based on unexpected or anomalous security events
- Configuring service and application logging (for example, CloudTrail, Amazon CloudWatch Logs)
- Analyzing logs, metrics, and security findings

## **Technologies and Concepts**

The following list contains technologies and concepts that might appear on the exam. This list is non-exhaustive and is subject to change. The order and placement of the items in this list is no indication of their relative weight or importance on the exam:

- Application deployment
- Application integration
- Application pipelines
- Automation
- Code repository best practices
- Cost optimization
- Deployment requirements
- Hybrid deployments
- IAM policies
- Metrics, monitoring, alarms, and logging
- Network ACL and security group design and implementation
- Operational best practices
- Rollback procedures

# In-scope AWS services and features

The following list contains AWS services and features that are in scope for the exam. This list is non-exhaustive and is subject to change. AWS offerings appear in categories that align with the offerings' primary functions:

## Topics

- [Analytics](#)
- [Application Integration](#)
- [Compute](#)
- [Containers](#)
- [Database](#)
- [Developer Tools](#)
- [Management and Governance](#)
- [Networking and Content Delivery](#)
- [Security, Identity, and Compliance](#)
- [Serverless](#)
- [Storage](#)

## Analytics

- Amazon Athena
- Amazon EMR
- Amazon Kinesis Data Firehose
- Amazon Kinesis Data Streams
- Amazon OpenSearch Service
- Amazon QuickSight

## Application Integration

- Amazon AppFlow
- Amazon EventBridge

## Compute

- AWS App Runner
- Amazon EC2
- Amazon EC2 Auto Scaling
- EC2 Image Builder
- AWS Elastic Beanstalk
- AWS Serverless Application Repository

## Containers

- AWS App2Container
- AWS Copilot
- Amazon Elastic Container Registry (Amazon ECR)
- Amazon Elastic Container Service (Amazon ECS)
- Amazon Elastic Kubernetes Service (Amazon EKS)
- Amazon EKS Distro
- AWS Fargate
- Red Hat OpenShift Service on AWS (ROSA)

## Database

- Amazon Aurora
- Amazon Aurora Serverless v2
- AWS Database Migration Service (AWS DMS)
- Amazon DocumentDB (with MongoDB compatibility)
- Amazon DynamoDB
- Amazon ElastiCache
- Amazon MemoryDB for Redis
- Amazon RDS
- Amazon Redshift

## Developer Tools

- AWS CLI
- AWS Cloud Development Kit (AWS CDK)
- AWS CloudShell
- AWS CodeArtifact
- AWS CodeBuild
- AWS CodeDeploy
- Amazon CodeGuru
- AWS CodePipeline
- AWS CodeStar
- AWS Fault Injection Simulator (AWS FIS)
- AWS SDKs and Tools
- AWS X-Ray

## Management and Governance

- AWS Auto Scaling
- AWS CloudFormation
- AWS CloudTrail
- Amazon CloudWatch
- Amazon CloudWatch Logs
- AWS Compute Optimizer
- AWS Config
- AWS Control Tower
- AWS Health
- AWS License Manager
- Amazon Managed Grafana
- Amazon Managed Service for Prometheus
- AWS OpsWorks

- AWS Organizations
- AWS Proton
- AWS Resilience Hub
- AWS Service Catalog
- AWS Systems Manager
- AWS Trusted Advisor

## **Networking and Content Delivery**

- Amazon API Gateway
- AWS Client VPN
- Amazon CloudFront
- Elastic Load Balancing (ELB)
- AWS PrivateLink
- Amazon Route 53
- AWS Site-to-Site VPN
- AWS Transit Gateway
- Amazon VPC

## **Security, Identity, and Compliance**

- AWS Certificate Manager (ACM)
- AWS CloudHSM
- Amazon Cognito
- Amazon Detective
- AWS Directory Service
- Amazon GuardDuty
- AWS IAM Identity Center
- AWS Identity and Access Management (IAM)
- Amazon Inspector

- AWS Key Management Service (AWS KMS)
- Amazon Macie
- AWS Network Firewall
- AWS Resource Access Manager (AWS RAM)
- AWS Secrets Manager
- AWS Security Hub
- AWS Security Token Service (AWS STS)
- AWS Shield
- AWS WAF

## Serverless

- AWS Lambda
- AWS Serverless Application Model (AWS SAM)
- Amazon Simple Notification Service (Amazon SNS)
- Amazon Simple Queue Service (Amazon SQS)
- AWS Step Functions

## Storage

- AWS Backup
- Amazon Elastic Block Store (Amazon EBS)
- AWS Elastic Disaster Recovery
- Amazon Elastic File System (Amazon EFS)
- Amazon FSx for Lustre
- Amazon FSx for NetApp ONTAP
- Amazon FSx for OpenZFS
- Amazon FSx for Windows File Server
- Amazon S3
- Amazon S3 Glacier
- AWS Storage Gateway

# Survey

How useful was this exam guide? Let us know by [taking our survey](#).