

# AWS Certified DevOps Engineer - Professional

EXAMINATION CONTENT OUTLINE



# About AWS Exam

## Exam Process

- **AWS Certification helps learners build credibility and confidence** by validating their cloud expertise with an industry-recognized credential and organizations identify skilled professionals to lead cloud initiatives using AWS.
- Organizations need individuals with cloud skills to help transform their business. **AWS Training and Certification helps you build and validate your cloud skills so you can get more out of the cloud.** Our content is built by experts at AWS and updated regularly to keep pace with AWS updates, so you can be sure you're learning the latest and keeping your cloud skills fresh.
- **We offer both digital and classroom training,** so you can choose to learn online at your own pace or learn best practices from an instructor. Whether you are just starting out, building on existing IT skills, or sharpening your cloud knowledge, AWS Training and Certification can help you be more effective and do more in the cloud.



# Overview of AWS Certified DevOps Engineer - Professional

## The AWS Certified DevOps Engineer –

Professional exam validates technical expertise in provisioning, operating, and managing distributed application systems on the AWS platform. Exam concepts you should understand for this exam include the ability to:

- Implement and manage continuous delivery systems and methodologies on AWS
- Understand, 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 the AWS platform
- Design, manage, and maintain tools to automate operational processes







## Eligible candidates for this exam have:

- AWS Certified Developer - Associate or AWS Certified SysOps Administrator - Associate certification recommended
- Two or more years' experience provisioning, operating, and managing AWS environments
- Experience developing code in at least one high-level programming language
- Experience in automation and testing via scripting/programming
- Understanding of agile and other development processes and methodologies

## Application Payment

Our test delivery vendor, PSI, accepts Visa, MasterCard, or American Express card numbers. Discover, Diner's Club, and JCB cards are currently not accepted.

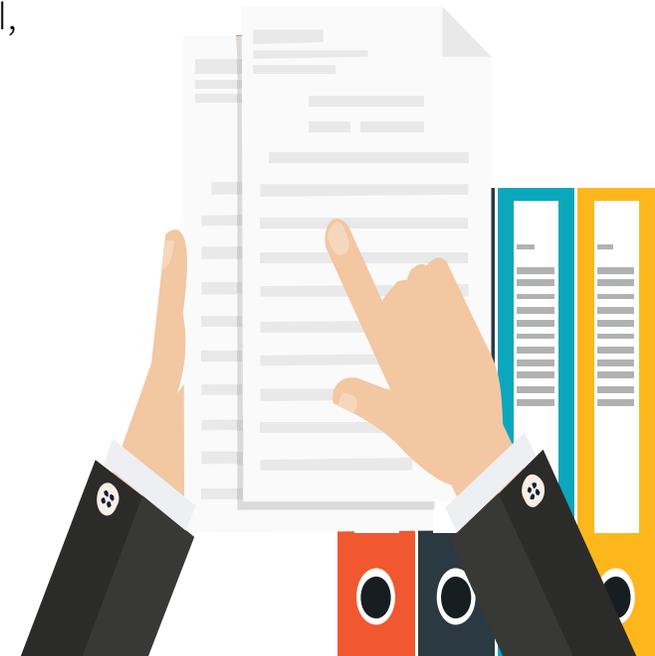
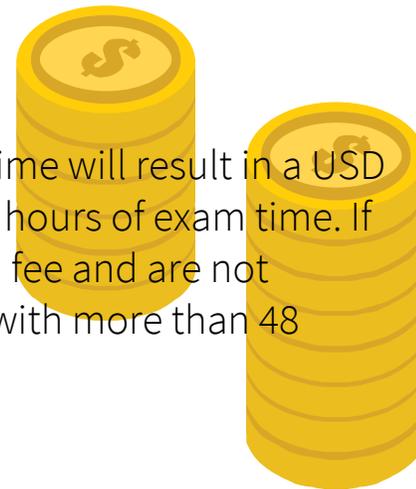
For countries that have implemented a Value Added Tax (VAT), customers will be charged the applicable rate as determined by their country.

## To generate a receipt

To generate a receipt for an exam you registered for in PSI, access your AWS Certification Account within the AWS Training and Certification Portal and click "Manage PSI Exams." From PSI, click "View Details" beside the scheduled exam to find the "Print Receipt" button.

## Rescheduling/ Refund

Rescheduling or cancelling a PSI exam within 48 hours of your exam time will result in a USD 60 fee. You will not be able to reschedule or cancel an exam within 24 hours of exam time. If you miss your scheduled exam appointment, you will forfeit the exam fee and are not eligible for a refund. A full refund is provided if you cancel your exam with more than 48 hours' notice.



# AWS Certified Advanced Networking - Specialty

## Exam Pattern

Each certification candidate is required to pass a written examination that consists of multiple-choice questions. The available mode of languages: English, Japanese, Korean, Simplified Chinese.

The duration of exam is 2 hours 50 minutes.

## Response Types:

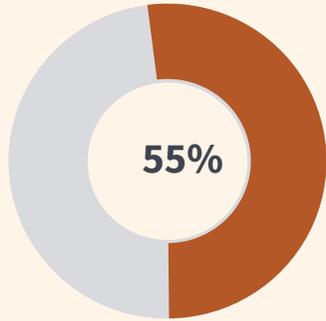
There are two types of questions on the examination:

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

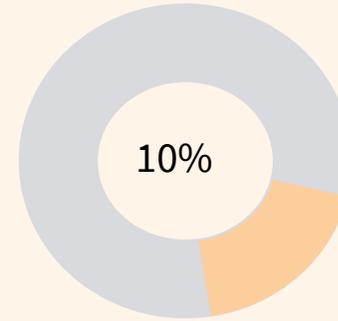
Format	Duration
MCQs/ Multiple answer	170 minutes



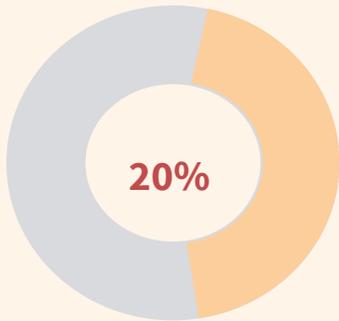
# AWS Certified DevOps Engineer - Professional Blueprint



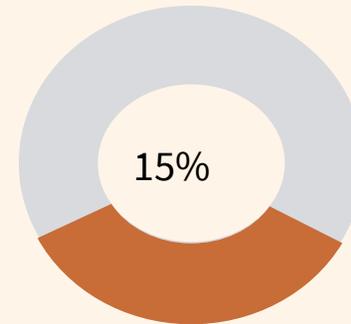
**Domain 1: Continuous  
Delivery and Process  
Automation**



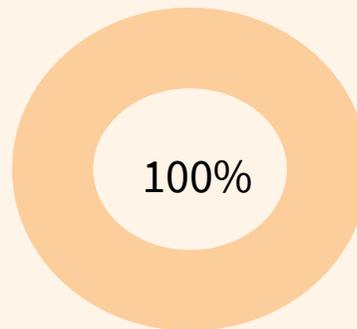
**Domain 3: Security,  
Governance, and Validation**



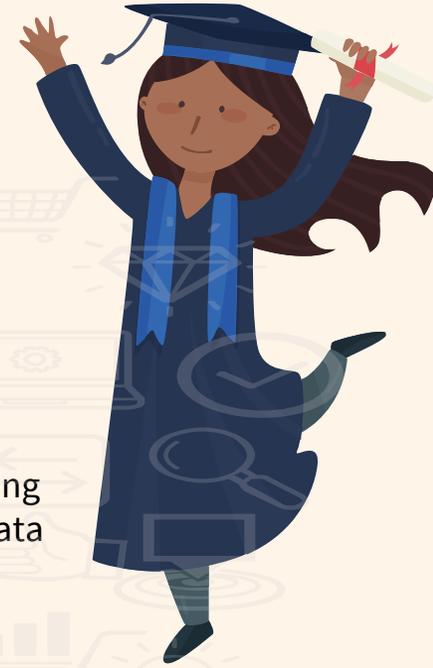
**Domain 2: Monitoring,  
Metrics, and Logging**



**Domain 4: High  
Availability and  
Elasticity**



**TOTAL**



1. Your current log analysis application takes more than four hours to generate a report of the top 10 users of your web application. You have been asked to implement a system that can report this information in real time, ensure that the report is always up to date, and handle increases in the number of requests to your web application.

Choose the option that is cost-effective and can fulfil the requirements.

- A. Publish your data to CloudWatch Logs, and configure your application to auto scale to handle the load on demand.
- B. Publish your log data to an Amazon S3 bucket. Use AWS CloudFormation to create an Auto Scaling group to scale your post-processing application which is configured to pull down your log files stored in Amazon S3.
- C. Post your log data to an Amazon Kinesis data stream, and subscribe your log-processing application so that is configured to process your logging data.
- D. Configure an Auto Scaling group to increase the size of your Amazon EMR cluster.

Ans: D. Configure an Auto Scaling group to increase the size of your Amazon EMR cluster.

2. After reviewing the last quarter's monthly bills, management has noticed an increase in the overall bill from Amazon. After researching this increase in cost, you discovered that one of your new services is doing a lot of GET Bucket API calls to Amazon S3 to build a metadata cache of all objects in the applications bucket. Your boss has asked you to come up with a new cost-effective way to help reduce the amount of these new GET Bucket API calls.

What process should you use to help mitigate the cost?

- A. Update your Amazon S3 buckets' lifecycle policies to automatically push a list of objects to a new bucket, and use this list to view objects associated with the application's bucket.
- B. Create a new DynamoDB table. Use the new DynamoDB table to store all metadata about all objects uploaded to Amazon S3. Any time a new object is uploaded, update the application's internal Amazon S3 object metadata cache from DynamoDB.
- C. Using Amazon SNS, create a notification on any new Amazon S3 objects that automatically updates a new DynamoDB table to store all metadata about the new object. Subscribe the application to the Amazon SNS topic to update its internal Amazon S3 object metadata cache from the DynamoDB table.
- D. Upload all images to Amazon SQS, set up SQS lifecycles to move all images to Amazon S3, and initiate an Amazon SNS notification to your application to update the

Ans: C Using Amazon SNS, create a notification on any new Amazon S3 objects that automatically updates a new DynamoDB table to store all metadata about the new object. Subscribe the application to the Amazon SNS topic to update its internal Amazon S3 object metadata cache from the DynamoDB table.

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