AWS CERTIFIED CLOUD PRACTITIONER Course

The AWS Certified Cloud Practitioner (CLF–C02) exam is intended for individuals who can effectively demonstrate overall knowledge of the AWS Cloud, independent of a specific job role.

آنچه خواهید آموخت

- Explain the value of the AWS Cloud.

- Understand and explain the AWS shared responsibility model.

- Understand security best practices.

- Understand AWS Cloud costs, economics, and billing practices.

- Describe and position the core AWS services, including compute, network, database, and storage services.

- Identify AWS services for common use cases.

سرفصل ها

Domain 1: Cloud Concepts (24% of scored content)

Domain 2: Security and Compliance (30% of scored content)

Domain 3: Cloud Technology and Services (34% of scored content)

Domain 4: Monitoring and Analytics, Pricing and Support (12% of scored content)

Domain 1: Cloud Concepts

Define the benefits of the AWS Cloud.

What is Cloud Computing?

What is a Client–Server Model?

Deployment Models for Cloud Computing

Benefits of Cloud Computing

🌐 info@gandotech.com
📍 Lisbon, Sintra, Mirante St, No3, 2/C
📱 +351 911970800
✉ P.Code: 27 45-039

Understanding the advantages of high availability, elasticity, and agility

Understand the benefits of and strategies for migration to the AWS Cloud.

Interacting with AWS

AWS Global Infrastructure

AWS Cloud Adoption Framework (AWS CAF)

Migration Strategies

AWS Snow Family

Innovation with AWS

The AWS Well–Architected Framework

Domain 2: Security and Compliance

Create an AWS Account

Protect the AWS Root User

Understand the AWS shared responsibility model.

Security and the AWS Shared Responsibility Model

Introduction to AWS Identity and Access Management

Role Based Access in AWS

Following IAM Best Practices

User Permission and Access

AWS Organizations

Compliance

Denial–of–Service Attacks

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Additional Security Services

Domain 3: Cloud Technology and Services

Identify AWS compute services.

Amazon Elastic Compute Cloud (Amazon EC2)

Amazon EC2 Instance Types

Amazon EC2 Pricing

Scaling Amazon EC2

Elastic Load Balancer

Directing Traffic with Elastic Load Balancing

Messaging and Queueing

Monolithic Applications and Microservices

Amazon Simple Notification Service (Amazon SNS)

Amazon Simple Queue Service (Amazon SQS)

Additional Compute Services

Serverless Computing

Identify AWS database services.

Amazon Relational Database Service (Amazon RDS)

Amazon DynamoDB

Comparing Amazon RDS and Amazon DynamoDB

Amazon Redshift

AWS Database Migration Service (AWS DMS)

Additional Database Services

Identify AWS network services.

Regions

Selecting a Region

Availability Zones

Edge Locations

How to Provision AWS Resources

AWS Elastic Beanstalk and AWS CloudFormation

Connectivity to AWS

Subnets and Network Access Control Lists

Global Networking

Identify AWS storage services.

Instance Stores and Amazon Elastic Block Store (Amazon EBS)

Amazon Simple Storage Service (Amazon S3)

Comparing Amazon EBS and Amazon S3

Amazon Elastic File System (Amazon EFS)

Identify AWS artificial intelligence and machine learning (AI/ML) services and analytics services.

AWS Data Lake Related Services

Amazon S3

AWS Glue Data Catalog

Amazon S3 and Glue Data Catalog

AWS Services Used for Data Movement

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AWS Services for Data Processing

AWS Services for Analytics

AWS Services for Predictive Analytics and Machine Learning

EMR, Glue Jobs, Lambda, Kinesis Analytics, RedShift

Introduction to AWS LakeFormation

Domain 4: Billing, Pricing, and Support

Amazon CloudWatch

AWS CloudTrail

AWS Trusted Advisor

AWS Free Tier

AWS Pricing Concepts

Billing Dashboard

Consolidated Billing

AWS Budgets

AWS Cost Explorer

AWS Marketplace

مخاطبان دوره

The target candidate has up to 6 months of exposure to AWS Cloud design, implementation, and/or operations. This certification is ideal for candidates who are from non–IT backgrounds. These candidates might be in the early stages of pursuing an AWS Cloud career or might work with people in AWS Cloud roles. Recommended AWS knowledge The target candidate should have AWS knowledge in the following areas:

- AWS Cloud concepts

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- Security and compliance in the AWS Cloud

- Core AWS services

- Economics of the AWS Cloud

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:

- Coding

- Cloud architecture design

- Troubleshooting

- Implementation

- Load and performance testing

Refer to Appendix A for a list of technologies and concepts that might appear on the exam, a list of in–scope AWS services and features, and a list of out–of–scope AWS services and features.