

AWS Cloud Practitioner Essentials



Course Outline:

Module 1: Introduction to Amazon Web Services

- Summarize the benefits of AWS.
- Describe differences between on-demand delivery and cloud deployments.
- Summarize the pay-as-you-go pricing model.

Module 2: Compute in the Cloud

- Describe the benefits of Amazon Elastic Compute Cloud (Amazon EC2) at a basic level.
- Identify the different Amazon EC2 instance types.
- Differentiate between the various billing options for Amazon EC2
- Describe the benefits of Amazon EC2 Auto Scaling
- Summarize the benefits of Elastic Load Balancing
- Give an example of the uses for Elastic Load Balancing
- Summarize the differences between Amazon Simple Notification Service (Amazon SNS) and Amazon Simple Queue Services (Amazon SQS)
- Summarize additional AWS compute options.

Module 3: Global Infrastructure and Reliability

- Summarize the benefits of the AWS Global Infrastructure
- Describe the basic concept of Availability Zones
- Describe the benefits of Amazon CloudFront and Edge locations.
- Compare different methods for provisioning AWS services.

Module 4: Networking

- Describe the basic concepts of networking.
- Describe the difference between public and private networking resources.
- Explain a virtual private gateway using a real-life scenario.
- Explain a virtual private network (VPN) using a real-life scenario Describe the benefit of AWS Direct Connect
- Describe the benefit of hybrid deployments.
- Describe the layers of security used in an IT strategy.
- Describe which services are used to interact with the AWS global network.

Module 5: Storage and Databases

- Summarize the basic concept of storage and databases.
- Describe benefits of Amazon Elastic Block Store (Amazon EBS)
- Describe benefits of Amazon Simple Storage Service (Amazon S3)
- Describe the benefits of Amazon Elastic File System (Amazon EFS)
- Summarize various storage solutions.
- Describe the benefits of Amazon Relational Database Service (Amazon RDS)
- Describe the benefits of Amazon DynamoDB
- Summarize various database services.

Module 6: Security

- Explain the benefits of the shared responsibility model.
- Describe multi-factor authentication (MFA)
- Differentiate between the AWS Identity and Access Management (IAM) security levels.
- Describe security policies at a basic level.
- Explain the benefits of AWS Organizations
- Summarize the benefits of compliance with AWS.
- Explain primary AWS security services at a basic level.

Module 7: Monitoring and Analytics

- Summarize approaches to monitoring your AWS environment.
- Describe the benefits of Amazon CloudWatch
- Describe the benefits of AWS CloudTrail
- Describe the benefits of AWS Trusted Advisor

Module 8: Pricing and Support

- Understand AWS pricing and support models.
- Describe the AWS Free Tier
- Describe key benefits of AWS Organizations and consolidated billing.
- Explain the benefits of AWS Budgets
- Explain the benefits of AWS Cost Explorer
- Explain the primary benefits of the AWS Pricing Calculator
- Distinguish between the various AWS Support Plans
- Describe the benefits of AWS Marketplace

Module 9: Migration and Innovation

- Understand migration and innovation in the AWS Cloud
- Summarize the AWS Cloud Adoption Framework (AWS CAF)
- Summarize six key factors of a cloud migration strategy.
- Describe the benefits of various AWS data migration solutions, such as AWS Snowcone, AWS Snowball, and AWS Snowmobile
- Summarize the broad scope of innovative solutions that AWS offers.

Module 10: The Cloud Journey

- Summarize the six pillars of the AWS Well-Architected Framework
- Explain the six benefits of cloud computing.

Module 11: AWS Certified Cloud Practitioner Basics

- Determine resources for preparing for the AWS Certified Cloud Practitioner examination.
- Describe benefits of becoming AWS Certified