AWS Cloud Practitioner Essentials

Duration: 1 day
Audience: Professionnel TI

Who is this training for?

Sales, Legal, Marketing, Business Analysts, Project Managers, AWS Academy Students, and Other IT-Related Occupations.

Training objectives

- Describe the AWS Cloud Core Global Infrastructure and its six benefits.
- Describe and provide an example of the main AWS services (compute, network, databases, storage).
- Describe the AWS Well-Architected Framework, the shared responsibility model, core security services in the AWS Cloud, and the basics of migrating to the AWS Cloud.
- Explain the financial benefits of the AWS Cloud for managing a company's costs, define the key billing, account management, and pricing models, and explain how to use pricing tools to make cost-effective choices for AWS services.

Summary

This course is intended for individuals who are looking to understand the Amazon Web Services (AWS) Cloud, independent of specific technical roles. You'll learn about the concepts of Cloud, AWS Services, Security, Architecture, Pricing, and Support to build your knowledge of the AWS Cloud. This course also helps you prepare for the AWS Certified Cloud Practitioner exam.

Course outline

Module 1: Introduction to Amazon Web Services

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

Module 2: Cloud Computing

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

Module 3: Global Infrastructure and Reliability

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

Module 4: Networking

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

Module 5: Storage and Databases

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Summarize the basic concept of storage and databases.

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

Module 6: Security • Explain the benefits of the shared responsibility model.

- Describe multi-factor authentication (MFA).
- Differentiate between 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 the core AWS security services at a basic level.

Module 7: Monitoring and Analysis

- 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.

Approach and methodology

- Presentations
- Demonstrations
- Directed and Individual Exercises

Recommendations

- Business knowledge in general computing.
- Technical knowledge of general computer science.