

AWS Technical Essentials

AWS Classroom Training

Course description

AWS Technical Essentials introduces you to essential AWS services and common solutions. The course covers the fundamental AWS concepts related to compute, database, storage, networking, monitoring, and security. You will start working in AWS through hands-on course experiences. The course covers the concepts necessary to increase your understanding of AWS services, so that you can make informed decisions about solutions that meet business requirements. Throughout the course, you will gain information on how to build, compare, and apply highly available, fault tolerant, scalable, and cost-effective cloud solutions.

- Course level: Fundamental
- Duration: 1 day

Activities

This course includes presentations, hands-on labs, demonstrations, videos, and knowledge checks.

Course objectives

In this course, you will learn to:

- Describe terminology and concepts related to AWS services
- Navigate the AWS Management Console
- Articulate key concepts of AWS security measures and AWS Identity and Access Management (IAM)
- Distinguish among several AWS compute services, including Amazon Elastic Compute Cloud (Amazon EC2), AWS Lambda, Amazon Elastic Container Service (Amazon ECS), and Amazon Elastic Kubernetes Service (Amazon EKS)
- Understand AWS database and storage offerings, including Amazon Relational Database Service (Amazon RDS), Amazon DynamoDB, and Amazon Simple Storage Service (Amazon S3)
- Explore AWS networking services
- Access and configure Amazon CloudWatch monitoring features

Intended audience

This course is intended for:

- Individuals responsible for articulating the technical benefits of AWS services to customers
- Individuals interested in learning how to get started with AWS
- SysOps administrators
- Solutions architects
- Developers

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Prerequisites

We recommend that attendees of this course have:

- IT experience
- Basic knowledge of common data center architectures and components (servers, networking, databases, applications, and so on)
- No prior cloud computing or AWS experience required

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Course outline

Course Introduction

Module 1: Introduction to Amazon Web Services

- Introduction to AWS Cloud
- Security in the AWS Cloud
- Hosting the employee directory application in AWS
- Hands-On Lab: Introduction to AWS Identity and Access Management (IAM)

Module 2: AWS Compute

- Compute as a service in AWS
- Introduction to Amazon Elastic Compute Cloud
- Amazon EC2 instance lifecycle
- AWS container services
- What is serverless?
- Introduction to AWS Lambda
- Choose the right compute service
- Hands-On Lab: Launch the Employee Directory Application on Amazon EC2

Module 3: AWS Networking

- Networking in AWS
- Introduction to Amazon Virtual Private Cloud (Amazon VPC)
- Amazon VPC routing
- Amazon VPC security
- Hands-On Lab: Create a VPC and Relaunch the Corporate Directory Application in Amazon EC2

Module 4: AWS Storage

- AWS storage types
- Amazon EC2 instance storage and Amazon Elastic Block Store (Amazon EBS)
- Object storage with Amazon S3
- Choose the right storage service
- Hands-On Lab: Create an Amazon S3 Bucket

Module 5: Databases

- Explore databases in AWS
- Amazon Relational Database Service
- Purpose-built databases
- Introduction to Amazon DynamoDB
- Choose the right AWS database service
- Hands-On Lab: Implement and manage Amazon DynamoDB

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Module 6: Monitoring, Optimization, and Serverless

- Monitoring
- Optimization
- Alternate serverless employee directory application architecture
- Hands-On Lab: Configure High Availability for Your Application

Module 7: Course Summary

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Are you ready to take Architecting on AWS? Check your knowledge with this 10 question quiz.

If you scored less than 70%, we highly recommend taking AWS Technical Essentials course. If you scored **70% or greater**, you should be prepared for the Architecting on AWS course.

Let's begin!

Q1. The Amazon Simple Storage Service (S3) data model enables you to organize data as highly durable Amazon Elastic Block Store (EBS) volumes.

- True False

Q2. Amazon DynamoDB allows you to host MySQL, SQL Server, and Oracle databases.

- True False

Q3. Which of the following statements about Amazon Elastic Cloud Compute (EC2) is inaccurate?

- Amazon EC2 instances are launched with Amazon Machine Images.
- Linux, Windows batch, or PowerShell scripts can be run when an Amazon EC2 instance is launched by supplying them as user data.
- Amazon EC2 instances can be moved between Amazon VPCs while in a running state.
- Amazon EC2 instances must be associated with at least one security group.

Q4. Amazon EBS volumes do not lose your data when the instance they are attached to is stopped.

- True False

Q5. Which of these are not a type of Amazon EBS volume?

- Magnetic
- General purpose SSD
- High Capacity SSD
- Provisioned IOPS SSD

Q6. Amazon RDS instances require security groups to be accessible, even though they are a managed service.

- True False

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Q7. Which of the following statements about Amazon S3 is inaccurate?

- If you make any changes to a file stored in Amazon S3, the entire file must be updated.
- Your Amazon S3 buckets are stored within VPCs.
- Amazon S3 objects include both a file and any metadata that describes the file.
- You do not pay transfer costs for objects uploaded to your buckets.

Q8. With no rules applied to it, an Amazon EC2 security group will deny all traffic by default.

- True
- False

Q9. Which of the following features are not configurable via the Amazon Virtual Private Cloud (VPC) dashboard:

- Subnets
- Internet gateways
- Network ACLs
- Network interfaces

Q10. Which of the following statements about Auto Scaling groups is inaccurate?

- When you create an Auto Scaling group, you must specify a launch configuration.
- An Auto Scaling group maintains the desired capacity by performing periodic health checks on the instances in the group.
- You can use scaling policies to increase or decrease the number of running EC2 instances.
- You can manually change the size of an existing Auto Scaling group.

Answer:

- Q1. False
- Q2. False
- Q3. Amazon EC2 instances can be moved between Amazon VPCs while in a running state.
- Q4. True
- Q5. High Capacity SSD
- Q6. True
- Q7. Your Amazon S3 buckets are stored within VPCs.
- Q8. True
- Q9. Network interfaces
- Q10. When you create an Auto Scaling group, you must specify a launch configuration.

If you scored less than 70%, we highly recommend taking [AWS Technical Essentials](#) course before taking Architecting on AWS course.

Check out course schedule and outline at [HERE!](#)