

AWS-ARCH2 (ADVANCED ARCHITECTING ON AWS) 3.3.

Objetivo

This course teaches you how to:

- Review the AWS Well-Architected Framework to ensure understanding of best cloud design practices by responding to poll questions while following a graphic presentation.
- Demonstrate the ability to secure Amazon Simple Storage Service (Amazon S3) virtual private cloud (VPC) endpoint connections in a lab environment.
- Identify how to implement centralized permissions management and reduce risk using AWS Organizations organizational units (OUs) and service control policies (SCPs) with AWS Single Sign-On.
- Compare the permissions management capabilities of OUs, SCPs, and AWS SSO with and without AWS Control Tower to determine best practices based on use cases.
- Discuss AWS hybrid network designs to address traffic increases and streamline remote work while ensuring FIPS 140-2 Level 2, or Level 3 security compliance.
- Explore the solutions and products available to design a hybrid infrastructure, including access to 5G networks, to optimize service and reduce latency while maintaining high security for critical on-premises applications.
- Explore ways to simplify the connection configurations between applications and high-performance workloads across global networks.
- Demonstrate the ability to configure a transit gateway in a lab environment.
- Identify and discuss container solutions and define container management options.
- Build and test a container in a lab environment.
- Examine how the AWS developer tools optimize the CI/CD pipeline with updates based on near-real-time data.
- Identify the anomaly detection and protection services that AWS offers to defend against DDoS attacks.
- Identify ways to secure data in transit, at rest, and in use with AWS Key Management Service (AWS KMS) and AWS Secrets Manager.
- Determine the best data management solution based on frequency of access, and data query and analysis needs.
- Set up a data lake and examine the advantages of this type of storage configuration to crawl and query data in a lab environment.
- Identify solutions to optimize edge services to eliminate latency, reduce inefficiencies, and mitigate risks.
- Identify the components used to automate the scaling of global applications using geolocation and traffic control.
- Deploy and activate an AWS Storage Gateway file gateway and AWS DataSync in a lab environment.
- Review AWS cost management tools to optimize costs while ensuring speed and performance.
- Review migration tools, services, and processes that AWS provides to implement effective cloud operation models based on use cases and business needs.
- Provide evidence of your ability to apply the technical knowledge and experience gained in the course to improve business practices by completing Review Projects.
- Work in a team environment to solve real AWS use-case challenges in an AWS Jam.

Público Alvo

Intended Audience This course is intended for cloud architects, solutions architects, and anyone who designs solutions for cloud infrastructures.

Pré-Requisitos

We recommend that attendees of this course have:

- Knowledge and experience with core AWS services from the Compute, Storage, Networking, and AWS Identity and Access Management (IAM) categories.
- Attended the Architecting on AWS classroom training OR.
- Achieved the AWS Certified Solutions Architect Associate certification OR.
- Have at least 1 year of experience operating AWS workloads.

Carga Horária

24 horas (3 dias).

Conteúdo Programático

Course outline

Day 1

- Module 1: Reviewing Architecting Concepts
- Module 2: Single to Multiple Accounts
- Module 3: Hybrid Connectivity
- Module 4: Specialized Infrastructure
- Module 5: Connecting Networks

Day 2

- Module 6: Containers
- Module 7: Continuous Integration/Continuous Delivery (CI/CD)
- Module 8: High Availability and DDoS Protection
- Module 9: Securing Data
- Module 10: Large-Scale Data Stores

Day 3

- Module 11: Large-Scale Applications
- Module 12: Optimizing Cost
- Module 13: Migrating Workloads
- Module 14: Review Projects