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GESTIÓN DE
SERVICIOS IT

CLOUD
COMPUTING

METODOLOGÍAS
EN PROYECTOS

SISTEMAS
OPERATIVOS

Y MÁS...



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¿Por qué ExecuTrain?

ExecuTrain es un proveedor de entrenamiento corporativo a nivel internacional y líder mundial en la capacitación empresarial. Contamos con más de 30 años de Experiencia y con más de 75 mil personas capacitadas a nivel Nacional.

Te guiamos en la definición de tus requerimientos de capacitación, en las diferentes etapas:

- ✓ Detección de necesidades, evaluación de conocimientos, plan de capacitación y seguimiento posterior para elegir el plan de capacitación como tú lo necesitas.
- ✓ El **más amplio catálogo de cursos**, desde un nivel básico hasta los niveles de conocimientos más especializados.
- ✓ En ExecuTrain el material y la **metodología están diseñados por expertos en aprendizaje humano**. Lo que te garantiza un mejor conocimiento en menor tiempo.
- ✓ Tú puedes confiar y estar seguro del aprendizaje porque nuestro **staff de instructores es de primer nivel**, algunos de los cuales son consultores en reconocidas empresas.
- ✓ No pierdas tu tiempo, los cursos están diseñados para un aprendizaje práctico.

Nuestro compromiso es que tú aprendas, si no quedas satisfecho con los resultados del programa, podrás volver a tomar los cursos hasta tu entera satisfacción o la devolución de tu dinero.

Modalidad de Servicio



Cursos en Fecha Calendario

Súmate a nuestros grupos en fechas públicas.



Cursos Privados

On site, en nuestras instalaciones o en línea con instructor en vivo.



Autoestudio con soporte de instructor

Cursos en modalidad autoestudio, con acceso 24/7 a la plataforma de estudio, con soporte de instructor y foros de ayuda

AWS / Architecting on AWS

Architecting on AWS is for solutions architects, solution-design engineers, and developers seeking an understanding of AWS architecting. In this course, you will learn to identify services and features to build resilient, secure, and highly available IT solutions on the AWS Cloud.

Architectural solutions differ depending on industry, types of applications, and business size. AWS Authorized Instructors emphasize best practices using the AWS Well-Architected Framework, and guide you through the process of designing optimal IT solutions based on real-life scenarios. The modules focus on account security, networking, compute, storage, databases, monitoring, automation, containers, serverless architecture, edge services, and backup and recovery. At the end of the course, you will practice building a solution and apply what you have learned.

Intended Audience

This course is intended for:

- ✓ Solution architects
- ✓ Solution-design engineers
- ✓ Developers seeking an understanding of AWS architecting
- ✓ Individuals seeking the AWS Solutions Architect-Associate certification

Course objectives

- ✓ Identify AWS architecting basic practices
- ✓ Summarize the fundamentals of account security
- ✓ Identify strategies to build a secure virtual network that includes private and public subnets
- ✓ Practice building a multi-tier architecture in AWS
- ✓ Identify strategies to select the appropriate compute resources based on business use cases
- ✓ Compare and contrast AWS storage products and services based on business scenarios
- ✓ Compare and contrast AWS database services based on business needs
- ✓ Identify the role of monitoring, load balancing, and auto scaling responses based on business needs
- ✓ Identify and discuss AWS automation tools that will help you build, maintain, and evolve your infrastructure
- ✓ Discuss hybrid networking, network peering, and gateway and routing solutions to extend and secure your infrastructure
- ✓ Explore AWS container services for the rapid implementation of an infrastructure-agnostic, portable application environment
- ✓ Identify the business and security benefits of AWS serverless services based on business examples
- ✓ Discuss the ways in which AWS edge services address latency and security
- ✓ Explore AWS backup, recovery solutions, and best practices to ensure resiliency and business continuity



Prerequisites

- ✓ Completed AWS Cloud Practitioner Essentials, or AWS Technical Essentials or equivalent or have the equivalent knowledge..
- ✓ Working knowledge of distributed systems
- ✓ Familiarity with general networking concepts
- ✓ Familiarity with IP addressing
- ✓ Working knowledge of multi-tier architectures
- ✓ Familiarity with cloud computing concepts



Course Outline

Module 1: Architecting Fundamentals

- AWS services
- AWS infrastructure
- AWS Well-Architected Framework
- Hands-on lab: Explore and interact with the AWS Management Console and AWS Command Line Interface

Module 2: Account Security

- Principals and identities
- Security policies
- Managing multiple accounts

Module 3: Networking 1

- IP addressing
- VPC fundamentals
- VPC traffic security

Module 4: Compute

- Compute services
- EC2 instances
- Storage for EC2 instances
- Amazon EC2 pricing options
- AWS Lambda
- Hands-On Lab: Build your Amazon VPC infrastructure

Module 5: Storage

- Storage services
- Amazon S3

- Shared file systems
- Data migration tools

Module 6: Database Services

- Database services
- Amazon RDS
- Amazon DynamoDB
- Database caching
- Database migration tools
- Hands-on Lab: Create a database layer in your Amazon VPC infrastructure

Module 7: Monitoring and Scaling

- Monitoring
- Alarms and events
- Load balancing
- Auto scaling
- Hands-on Lab: Configure high availability in your Amazon VPC

Module 8: Automation

- AWS CloudFormation
- Infrastructure management

Module 9: Containers

- Microservices
- Containers
- Container services

Module 10: Networking 2

- VPC endpoints
- VPC peering
- Hybrid networking
- AWS Transit Gateway

Module 11: Serverless

- What is serverless?
- Amazon API Gateway
- Amazon SQS
- Amazon SNS
- Amazon Kinesis
- AWS Step Functions
- Hands-on Lab: Build a serverless architecture

Module 12: Edge Services

- Edge fundamentals
- Amazon Route 53
- Amazon CloudFront

- DDoS protection
- AWS Outposts
- Hands-On Lab: Configure an Amazon CloudFront distribution with an Amazon S3 origin

Module 13: Backup and Recovery

- Disaster planning
- AWS Backup
- Recovery strategies
- Hands-on Lab: Capstone lab – Build an AWS Multi-Tier architecture. Participants review the concepts and services learned in class and build a solution based on a scenario. The lab environment provides partial solutions to promote analysis and reflection. Participants deploy a highly available architecture. The instructor is available for consultation.