

AWS Technical Essentials

Course AWS-05

3 Days

Instructor-led, Hands on

Course Information

As organizations increasingly migrate to the cloud, professionals need the skills to navigate and manage this complex environment. The AWS Technical Essentials course provides a foundational understanding of essential AWS services and equips you to make informed decisions about IT solutions based on business requirements.

In just one day, this instructor-led training introduces you to core AWS concepts, services, and terminology. You'll explore tools like Amazon EC2, Amazon S3, Amazon DynamoDB, and Amazon Virtual Private Cloud (VPC)—and gain hands-on experience with real-world use cases. This technical essentials course also provides a launching point for further AWS training, helping you choose among several AWS compute services that align with your goals..

At Course Completion

At the end of this course, students will have learned the following:

- Recognize terminology and concepts as they relate to the AWS platform and navigate the AWS Management Console.
- Understand the foundational services, including Amazon Elastic Compute Cloud (EC2), Amazon Virtual Private Cloud (VPC), Amazon Simple Storage Service (S3), and Amazon Elastic Block Store (EBS).
- Understand the security measures AWS provides and key concepts of AWS Identity and Access Management (IAM).
- Understand AWS database services, including Amazon DynamoDB and Amazon Relational Database Service (RDS).
- Understand AWS management tools, including Auto Scaling, Amazon CloudWatch, Elastic Load Balancing (ELB), and AWS Trusted Advisor.

Prerequisites

We recommend that attendees of this course have:

- Working knowledge of distributed systems
- Familiarity with general networking concepts
- Working knowledge of multi-tier architectures
- Familiarity with cloud computing concepts

Contact ISInc for more information at 916.920.1700 or by visiting our website at <http://www.isinc.com>

Course Outline

Module 1: AWS Introduction and History

- Overview of Amazon Web Services and its evolution
- AWS Global Infrastructure
- Demo: AWS Management Console

Module 2: AWS Storage

- Overview of AWS storage services
- Introduction to Amazon EBS
- Create and manage Amazon S3 buckets and objects

Module 3: Compute, Network, and Storage Services

- Introduction to Amazon EC2, VPC, S3, and EBS
- Demo: Amazon S3
- Hands-on Lab: Build your own VPC and launch a web server

Module 4: AWS Security and IAM

- AWS Identity and Access Management (IAM) concepts
- Demo: Setting up IAM roles and policies

Module 5: Compute Services & Networking

- Overview of compute and networking options
- Describe Amazon VPC and EC2
- Launch an EC2 instance
- Use Amazon EBS with EC2

Module 6: Managed Services & Databases

- Introduction to Amazon DynamoDB and RDS
- Understand use cases and architecture
- Launch a database instance with RDS

Module 7: Databases (RDS, DynamoDB)

- SQL vs NoSQL in AWS
- Data storage considerations
- Hands-on Lab: Build a database server and connect to it

Module 8: AWS Elasticity and Management Tools

- Auto Scaling and Elastic Load Balancing (ELB)
- Monitoring with Amazon CloudWatch

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- Introduction to AWS Trusted Advisor
- Hands-on Lab: Scale and load balance your architecture

Module 9: Deployment and Management

- Understand AWS CloudFormation
- Use CloudWatch for metrics and alarms
- Revisit IAM for user and service-level access