**AWS Technical Essentials** |

**e-learning** | <https://www.aws.training/Details/eLearning?id=71079>

ABOUT:

* 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: 4 hours

COURSE OBJECTIVE:

* 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

**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  
     • Demonstration: 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  
     • Demonstration: 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  
     • Demonstration: 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  
     • Demonstration: 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  
     • Demonstration: Implement and Manage Amazon DynamoDB

**Module 6: Monitoring, Optimization, and Serverless**  
     • Monitoring  
     • Optimization  
     • Alternate serverless employee directory application architecture  
     • Demonstration: Configure High Availability for Your Application

**Module 7: Course Summary**

**Module 8: End Of Course Assessment**

**Instructors**:

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