AWS Academy Cloud Foundations

Course Version

This course outline applies to version 2.0 of AWS Academy Cloud Foundations in English. Details of changes from version 1.0 are available in the Instructor Guide.

Description

AWS Academy Cloud Foundations is intended for students who seek an overall understanding of cloud computing concepts, independent of specific technical roles. It provides a detailed overview of cloud concepts, AWS core services, security, architecture, pricing, and support.

Course Objectives

Upon completion of this course, students will be able to:

- Define the AWS Cloud
- Explain the AWS pricing philosophy
- Identify the global infrastructure components of AWS
- Describe the security and compliance measures of the AWS Cloud, including AWS Identity and Access Management (IAM)
- Create a virtual private cloud (VPC) by using Amazon Virtual Private Cloud (Amazon VPC)
- Demonstrate when to use Amazon Elastic Compute Cloud (Amazon EC2), AWS Lambda, and AWS Elastic Beanstalk
- Differentiate between Amazon Simple Storage Service (Amazon S3), Amazon Elastic Block Store (Amazon EBS), Amazon Elastic File System (Amazon EFS), and Amazon Simple Storage Service Glacier (Amazon S3 Glacier)
- Demonstrate when to use AWS database services, including Amazon Relational Database Service (Amazon RDS), Amazon DynamoDB, Amazon Redshift, and Amazon Aurora
- Explain the architectural principles of the AWS Cloud
- Explore key concepts related to Elastic Load Balancing, Amazon CloudWatch, and Amazon EC2 Auto Scaling

Duration

Approximately 20 hours. When delivered synchronously by an educator. Detailed timings are provided below. Actual delivery times will vary from class to class and depending on the delivery format. AWS Academy Cloud Foundations must be delivered over a period of at least two weeks.

Intended Audience

This introductory (level 100) course is intended for AWS Academy member institutions.



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Student Prerequisites

This is an entry-level course, but students should possess:

- General IT technical knowledge
- General IT business knowledge

Delivery Methods

This course can be delivered in person with synchronous lectures or with digital training modules that students can complete independently.

Educator Prerequisites

Educators must hold a current AWS Certified Cloud Practitioner certification to teach this course.

Educator Accreditation

Educators meeting the prerequisites have no further accreditation requirements.

Learning Resources

- Lecture materials
- Online multiple-choice knowledge checks
- Lab exercises
- Digital training (optional)
- Lecture or Video introductions
- Lecture or Video demos
- Example solutions



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Course Contents

This table includes all course content and activities with suggested durations.

| | | Lecture | Activity | Total |
|---------------------|-------------------------------------|---------|----------|----------|
| Course Introduction | | 35 min. | | 35 min. |
| Lecture or Video | Introduction | | | |
| Module 1 – Cloud | Concepts Overview | 45 min. | 15 min. | 60 min. |
| Lecture or Video | Introduction to Cloud Computing | | | |
| Lecture or Video | Advantages of the Cloud | | | |
| Lecture or Video | Introduction to AWS | | | |
| Lecture or Video | Moving to the AWS Cloud | | | |
| Lecture or Video | Wrap Up | | | |
| Activity | Sample Exam Question | | 5 min. | |
| Knowledge Check | Cloud Concepts | | 10 min. | |
| | Economics and Billing | 45 min. | 55 min. | 100 min. |
| Lecture or Video | Introduction | | | |
| Lecture or Video | Fundamentals of Pricing | | | |
| Lecture or Video | Total Cost of Ownership | | | |
| Activity | Simple Monthly Calculator | | 20 min. | |
| Lecture or Video | Delaware North Case Study | | | |
| Lecture or Video | AWS Organizations | | | |
| Lecture or Video | AWS Billing & Cost Management | | | |
| Educator Demo | Billing Dashboard | | 10 min. | |
| Lecture or Video | Technical Support Models | | | |
| Activity | Support Plan Scavenger Hunt | | 10 min. | |
| Lecture or Video | Wrap-Up | | | |
| Activity | Sample Exam Question | | 5 min. | |
| Knowledge Check | Cloud Billing Economics | | 10 min. | |
| Module 3 – AWS G | lobal Infrastructure Overview | 25 min. | 45 min. | 70 min. |
| Lecture or Video | Introduction | | | |
| Lecture or Video | AWS Global Infrastructure | | | |
| Educator Demo | AWS Global Infrastructure | | 10 min. | |
| Lecture or Video | AWS Services & Service Categories | | | |
| Activity | AWS Management Console Clickthrough | | 20 min. | |
| Lecture or Video | Wrap Up | | | |
| Activity | Sample Exam Question | | 5 min. | |
| Knowledge Check | AWS Infrastructure | | 10 min. | |
| Module 4 - Cloud S | Security | 45 min. | 70 min. | 115 min. |
| Lecture or Video | Introduction | | | |
| Lecture or Video | AWS Shared Responsibility Model | | | |
| Activity | AWS Shared Responsibility Model | | 10 min. | |
| Lecture or Video | AWS IAM | | | |
| Video Demo | AWS IAM Console Demonstration | | 5 min. | |
| Lecture or Video | Securing a New AWS Account | | | |

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| Lab Exercise | Introduction to AWS IAM | | 40 min. | |
|--|--|---------|---|----------|
| Lecture or Video | Securing Accounts | | 10 111111. | |
| Lecture or Video | Securing Data | | | |
| Lecture or Video | Working to Ensure Compliance | | | |
| Lecture or Video | Wrap Up | | | |
| Activity | Sample Exam Question | | 5 min. | |
| Knowledge Check | Cloud Security | | 10 min. | |
| | rking and Content Delivery | 60 min. | 70 min. | 130 min. |
| Lecture or Video | Introduction | | | |
| Lecture or Video | Networking Basics | | | |
| Lecture or Video | Amazon VPC | | | |
| Lecture or Video | VPC Networking | | | |
| Activity | Label This Diagram | | 5 min | |
| Video Demo | Amazon VPC Console Demonstration | | 5 min. | |
| Lecture or Video | VPC Security | | | |
| Activity | Design a VPC | | 15 min. | |
| Lab Exercise | Build Your VPC and Launch a Web Server | | 30 min. | |
| Lecture or Video | Route 53 | | | |
| Lecture or Video | CloudFront | | | |
| Lecture or Video | Wrap Up | | | |
| Activity | Sample Exam Question | | 5 min. | |
| Knowledge Check | VPC | | 10 min. | |
| Module 6 – Compu | te | 80 min. | 145 min. | 225 min. |
| _ | | | | |
| Lecture or Video | Introduction | | | |
| Lecture or Video Lecture or Video | Introduction Compute Services Overview | | | |
| | | | | |
| Lecture or Video | Compute Services Overview | | | |
| Lecture or Video Lecture or Video | Compute Services Overview Amazon EC2 Part 1 | | | |
| Lecture or Video Lecture or Video Lecture or Video | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 | | 5 min. | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 | | 5 min. 35 min. | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 Amazon EC2 versus Managed Services | | | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo Lab Exercise | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 | | 35 min. | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo Lab Exercise Activity | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 Amazon EC2 versus Managed Services Amazon EC2 Part Console Demonstration | | 35 min. | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo Lab Exercise Activity Video Demo Lecture or Video | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 Amazon EC2 versus Managed Services Amazon EC2 Part Console | | 35 min. | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo Lab Exercise Activity Video Demo Lecture or Video Lecture or Video Lecture or Video | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 Amazon EC2 versus Managed Services Amazon EC2 Part Console Demonstration | | 35 min. | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo Lab Exercise Activity Video Demo Lecture or Video | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 Amazon EC2 versus Managed Services Amazon EC2 Part Console Demonstration Amazon EC2 Cost Optimization Container Services Introduction to AWS Lambda | | 35 min. | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo Lab Exercise Activity Video Demo Lecture or Video Lecture or Video Lecture or Video Lecture or Video Activity | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 Amazon EC2 versus Managed Services Amazon EC2 Part Console Demonstration Amazon EC2 Cost Optimization Container Services Introduction to AWS Lambda AWS Lambda | | 35 min. | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo Lab Exercise Activity Video Demo Lecture or Video Activity Lecture or Video | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 Amazon EC2 versus Managed Services Amazon EC2 Part Console Demonstration Amazon EC2 Cost Optimization Container Services Introduction to AWS Lambda AWS Lambda Introduction to AWS Elastic Beanstalk | | 35 min. 30 min. 30 min. | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo Lab Exercise Activity Video Demo Lecture or Video Lecture or Video Lecture or Video Lecture or Video Activity Lecture or Video Activity | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 Amazon EC2 versus Managed Services Amazon EC2 Part Console Demonstration Amazon EC2 Cost Optimization Container Services Introduction to AWS Lambda AWS Lambda | | 35 min. 30 min. | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo Lab Exercise Activity Video Demo Lecture or Video Lecture or Video Lecture or Video Lecture or Video Activity Lecture or Video Activity Lecture or Video | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 Amazon EC2 versus Managed Services Amazon EC2 Part Console Demonstration Amazon EC2 Cost Optimization Container Services Introduction to AWS Lambda AWS Lambda Introduction to AWS Elastic Beanstalk AWS Elastic Beanstalk Wrap Up | | 35 min. 30 min. 30 min. 30 min. | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo Lab Exercise Activity Video Demo Lecture or Video Lecture or Video Lecture or Video Lecture or Video Activity Lecture or Video Activity Lecture or Video Activity Lecture or Video Activity | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 Amazon EC2 versus Managed Services Amazon EC2 Part Console Demonstration Amazon EC2 Cost Optimization Container Services Introduction to AWS Lambda AWS Lambda Introduction to AWS Elastic Beanstalk AWS Elastic Beanstalk Wrap Up Sample Exam Question | | 35 min. 30 min. 30 min. 30 min. 5 min. | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo Lab Exercise Activity Video Demo Lecture or Video Lecture or Video Lecture or Video Lecture or Video Activity Lecture Or Video | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 Amazon EC2 versus Managed Services Amazon EC2 Part Console Demonstration Amazon EC2 Cost Optimization Container Services Introduction to AWS Lambda AWS Lambda Introduction to AWS Elastic Beanstalk AWS Elastic Beanstalk Wrap Up Sample Exam Question Amazon Virtual Private Cloud | | 35 min. 30 min. 30 min. 30 min. 5 min. 10 min. | |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo Lab Exercise Activity Video Demo Lecture or Video Lecture or Video Lecture or Video Lecture or Video Activity Knowledge Check | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 Amazon EC2 versus Managed Services Amazon EC2 Part Console Demonstration Amazon EC2 Cost Optimization Container Services Introduction to AWS Lambda AWS Lambda Introduction to AWS Elastic Beanstalk AWS Elastic Beanstalk Wrap Up Sample Exam Question Amazon Virtual Private Cloude | 45 min. | 35 min. 30 min. 30 min. 30 min. 5 min. | 130 min. |
| Lecture or Video Lecture or Video Lecture or Video Lecture or Video Video Demo Lab Exercise Activity Video Demo Lecture or Video Lecture or Video Lecture or Video Lecture or Video Activity Lecture Or Video | Compute Services Overview Amazon EC2 Part 1 Amazon EC2 Part 2 Amazon EC2 Part 3 Amazon EC2 Introduction to Amazon EC2 Amazon EC2 versus Managed Services Amazon EC2 Part Console Demonstration Amazon EC2 Cost Optimization Container Services Introduction to AWS Lambda AWS Lambda Introduction to AWS Elastic Beanstalk AWS Elastic Beanstalk Wrap Up Sample Exam Question Amazon Virtual Private Cloud | 45 min. | 35 min. 30 min. 30 min. 30 min. 5 min. 10 min. | 130 min. |

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| Video Demo | Amazon Elastic Block Store Console | | 5 min. | |
|-------------------|--------------------------------------|---------|-----------|----------|
| Video Demo | Demonstration | | 3 111111. | |
| Lab Exercise | Working with EBS | | 30 min. | |
| Lecture or Video | AWS S3 | | 30 111111 | |
| Video Demo | AWS S3 Console Demonstration | | 5 min. | |
| Lecture or Video | AWS EFS | | 3 111111. | |
| Video Demo | AWS EFS Console Demonstration | | 5 min. | |
| Lecture or Video | AWS S3 Glacier | | 3 | |
| Video Demo | AWS S3 Glacier Console Demonstration | | 5 min. | |
| Activity | Storage Technology Selection | | 20 min | |
| Lecture or Video | Wrap Up | | 20 111111 | |
| Activity | Sample Exam Question | | 5 min. | |
| Knowledge Check | Storage | | 10 min. | |
| Module 8 – Databa | | 60 min. | 70 min. | 130 min. |
| Lecture or Video | Introduction | | | |
| Lecture or Video | Amazon RDS | | | |
| Video Demo | Amazon RDS Console Demonstration | | 5 min | |
| Lab Exercise | Build a Database Server | | 30 min. | |
| Lecture or Video | Amazon DynamoDB | | 30 111111 | |
| Video Demo | Amazon DynamoDB Demonstration | | 5 min. | |
| Lecture or Video | Amazon Redshift | | | |
| Lecture or Video | Amazon Aurora | | | |
| Activity | Database Case Study | | 15 min. | |
| Lecture or Video | Wrap Up | | | |
| Activity | Sample Exam Question | | 5 min. | |
| Knowledge Check | Databases | | 10 min. | |
| Module 9 – Cloud | Architecture | 40 min. | 75 min. | 115 min. |
| Lecture or Video | Introduction | | | |
| Lecture or Video | AWS Well-Architected Framework | | | |
| | Design Principles | | | |
| Activity | AWS Well-Architected Framework | | 50 min. | |
| , | Design Principles | | | |
| Lecture or Video | Operational Excellence | | | |
| Lecture or Video | Security | | | |
| Lecture or Video | Reliability | | | |
| Lecture or Video | Performance Efficiency | | | |
| Lecture or Video | Cost Optimization | | | |
| Lecture or Video | Reliability & High Availability | | | |
| Lecture or Video | AWS Trusted Advisor | | | |
| Activity | Interpret AWS Trusted Advisor | | 10 min. | |
| | Recommendations | | | |
| Lecture or Video | Wrap Up | | | |
| Activity | Sample Exam Question | | 5 min. | |
| | | | | |



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| Module 10 – Auton | natic Scaling and Monitoring | 35 min. | 55 min. | 90 min. |
|-------------------|--|---------|---------|---------|
| Lecture or Video | Introduction | | | |
| Lecture or Video | Elastic Load Balancing | | | |
| Activity | Elastic Load Balancing | | 5 min. | |
| Lecture or Video | Amazon CloudWatch | | | |
| Activity | Amazon CloudWatch | | 5 min. | |
| Lecture or Video | Amazon EC2 Auto Scaling | | | |
| Lab Exercise | Scale & Load Balance your Architecture | | 30 min. | |
| Lecture or Video | Wrap Up | | | |
| Activity | Sample Exam Question | | 5 min. | |
| Knowledge Check | Autoscale | | 10 min. | |
| Optional | | | | |
| Lab | Sandbox | | | |



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Module Objectives

Module: Course Introduction

The purpose of this module is to introduce the AWS Academy Cloud Foundations course to students.

At the end of this module, students should be able to:

- Recognize the purpose of Academy Cloud Foundations
- Recognize the course structure
- Recognize the AWS certification process
- Navigate the AWS Documentation website

Module 1: Cloud Concepts Overview

The purpose of this module is to introduce students to cloud computing, Amazon Web Services (AWS), and what AWS offers.

At the end of this module, students should be able to:

- Define different types of cloud computing models
- Describe six advantages of cloud computing
- Recognize the main AWS service categories and core services
- Review the AWS Cloud Adoption Framework (AWS CAF)

Module 2: Cloud Economics and Billing

The purpose of this module is to introduce students to the business advantages for moving to the cloud. The module begins by explaining the pricing philosophy of AWS and the overall concept of Total Cost of Ownership. These concepts are important for your students to understand because they might need to rely on them in their careers as cloud practitioners.

After providing this conceptual foundation, the module describes the following tools that are available for understanding and explaining the costs for running AWS services:

- AWS TCO Calculator
- AWS Simple Monthly Calculator
- AWS Organizations
- AWS Billing Dashboard

- Explain the AWS pricing philosophy
- Recognize fundamental pricing characteristics
- Indicate the elements of the Total Cost of Ownership
- Discuss the results of the Simple Monthly Calculator
- Identify how to set up an organizational structure that simplifies billing and account visibility
- Identify the functionality in the AWS Billing Dashboard
- Describe how to use AWS Billing, AWS Cost Explorer, AWS Budgets, and AWS Cost and Usage Reports
- Identify the various AWS technical support plans and their costs



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Module 3: AWS Global Infrastructure Overview

The purpose of this module is to introduce the Amazon Web Services (AWS) Global Infrastructure.

At the end of this module, students should be able to:

- Identify the difference between AWS Regions, Availability Zones, and edge locations
- Identify AWS services and service categories

Module 4: AWS Cloud Security

The purpose of this module is to provide an introduction to the AWS approach to security. This module includes the controls in the AWS environment, and some of the AWS products and features that customers can use to meet their security objectives.

At the end of this module, students should be able to:

- Recognize the shared responsibility model
- Identify the responsibility of the customer and AWS
- Recognize IAM users, groups, and roles
- Describe different types of security credentials in IAM
- Identify the steps to securing a new AWS account
- Explore IAM users and groups
- Recognize how to secure AWS data
- Recognize AWS compliance programs

Module 5: Networking and Content Delivery

The purpose of this module is to introduce students to three fundamental AWS networking and content delivery services: Amazon Virtual Private Cloud (Amazon VPC), Amazon Route 53, and Amazon CloudFront. Students will have the opportunity to label a virtual private cloud (VPC) network architecture diagram, design a VPC, watch how a VPC is built, and finally build a VPC themselves.

- Recognize the basics of networking
- Describe virtual networking in the cloud with Amazon VPC
- Label a network diagram
- Design a basic VPC architecture
- Indicate the steps to build a VPC
- Identify security groups
- Create their own VPC and add additional components to it to produce a customized network
- Identify the fundamentals of Amazon Route 53
- Recognize the benefits of Amazon CloudFront



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Module 6: Compute

The purpose of this module is to introduce many of the compute services that Amazon Web Services (AWS) offers. These services include Amazon Elastic Compute Cloud (Amazon EC2), AWS Lambda, AWS Elastic Beanstalk, Amazon Elastic Container Service (Amazon ECS), Amazon Elastic Container Registry (ECR), and Amazon Elastic Kubernetes Service (Amazon EKS).

At the end of this module, students should be able to:

- Provide an overview of different AWS compute services in the cloud
- Demonstrate why to use Amazon Elastic Compute Cloud (Amazon EC2)
- Identify the functionality in the Amazon EC2 console
- Perform basic functions in Amazon EC2 to build a virtual computing environment
- Identify Amazon EC2 cost-optimization elements
- Demonstrate when to use AWS Elastic Beanstalk
- Demonstrate when to use AWS Lambda
- Identify how to run containerized applications in a cluster of managed servers

Module 7: Storage

The purpose of this module is to introduce students to the various options for storing data with AWS. The module describes four different storage technologies. The module focuses on the storage services that are described so that students can decide which storage service to use for various use cases. Storage is one of the core AWS service areas, and it is important for your students to understand the advantages and disadvantages of each technology. The module concludes with an activity that gives students an opportunity to apply what they learned to a real-world scenario. After providing this conceptual foundation, the module describes the following storage services:

- Amazon Elastic Block Store (Amazon EBS)
- Amazon Simple Storage Service (Amazon S3)
- Amazon Elastic File System (Amazon EFS)
- Amazon Simple Storage Service Glacier

- Identify the different types of storage
- Explain Amazon Simple Storage Service (Amazon S3)
- Identify the functionality in Amazon S3
- Explain Amazon Elastic Block Store (Amazon EBS)
- Identify the functionality in Amazon EBS
- Perform functions in Amazon EBS to build an EC2 storage solution
- Explain Amazon Elastic File System (Amazon EFS)
- Identify the functionality in Amazon EFS
- Explain Amazon Simple Storage Service Glacier
- Identify the functionality in Amazon S3 Glacier
- Differentiate between Amazon EBS, Amazon S3, Amazon EFS, and Amazon S3 Glacier



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Module 8: Databases

The purpose of this module is to introduce students to four of the most commonly used AWS database services. The module describes four different database services. The module focuses on the database services that are described so that students can decide which database service to use for various use cases. Databases are one of the core AWS service areas, and it is important for your students to understand the advantages and disadvantages of each service. The module concludes with an activity that gives students an opportunity to apply what they learned to a real-world scenario. After providing this conceptual foundation, the module describes the following database services:

- Amazon Relational Database Service (Amazon RDS)
- Amazon DynamoDB
- Amazon Redshift
- Amazon Aurora

At the end of this module, students should be able to:

- Explain Amazon Relational Database Service (Amazon RDS)
- Identify the functionality in Amazon RDS
- Explain Amazon DynamoDB
- Identify the functionality in Amazon DynamoDB
- Explain Amazon Redshift
- Explain Amazon Aurora
- Perform tasks in an Amazon RDS database such as launching, configuring, and interacting

Module 9: Cloud Architecture

The purpose of this module is to introduce students to designing and building cloud architectures according to best practices.

At the end of this module, students should be able to:

- Describe the AWS Well-Architected Framework, including the five pillars
- Identify the design principles of the AWS Well-Architected Framework
- Explain the importance of reliability and high availability
- Identify how AWS Trusted Advisor helps customers
- Interpret AWS Trusted Advisor recommendations

Module 10: Automatic Scaling and Monitoring

The purpose of this module is to introduce students to three fundamental AWS services – Elastic Load Balancing, Amazon Elastic Compute Cloud (Amazon EC2) Auto Scaling, and Amazon CloudWatch – which can be used together to build dynamic, scalable architectures.

- Indicate how to distribute traffic across Amazon EC2 instances by using Elastic Load Balancing
- Identify how Amazon CloudWatch enables you to monitor AWS resources and applications in real time
- Explain how Amazon EC2 Auto Scaling launches and releases servers in response to workload changes
- Perform scaling and load balancing tasks to improve an architecture

