



Course Introduction

AWS Cloud Computing

Module overview

Topics

- Course objectives and overview
- AWS certification exam information
- AWS Documentation

Module objectives

After completing this module, you should be able to:

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

Section 1: Course objectives and overview

Course Introduction

Course prerequisites

- General Required Knowledge
 - IT technical knowledge
 - IT business knowledge
- Preferred Knowledge
 - Familiarity with cloud computing concepts
 - Working knowledge of distributed systems
 - Familiarity with general networking concepts
 - Working knowledge of multi-tier architectures



Course objectives

After completing this course, you should be able to:

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



Course outline

- Module 1: Cloud Concepts Overview
- Module 2: Cloud Economics and Billing
- Module 3: AWS Global Infrastructure Overview
- Module 4: AWS Cloud Security
- Module 5: Networking and Content Delivery
- Module 6: Compute
- Module 7: Storage
- Module 8: Databases
- Module 9: Cloud Architecture
- Module 10: Automatic Scaling and Monitoring



Module 1: Cloud Concepts Overview

Module sections:

- Introduction to cloud computing
- Advantages of cloud computing
- Introduction to Amazon Web Services (AWS)
- Moving to the AWS Cloud – The AWS Cloud Adoption Framework (AWS CAF)



Module 2: Cloud Economics and Billing

Module sections:

- Fundamentals of pricing
- Total Cost of Ownership
- AWS Organizations
- AWS Billing and Cost Management
- Technical support



Module 3: AWS Global Infrastructure Overview

Module sections:

- AWS Global Infrastructure
- AWS services and service category overview



Module 4: AWS Cloud Security

Module sections:

- AWS shared responsibility model
- AWS Identity and Access Management (IAM)
- Securing a new AWS account
- Securing accounts
- Securing data on AWS
- Working to ensure compliance



Module 5: Networking and Content Delivery

Module sections:

- Networking basics
- Amazon VPC
- VPC networking
- VPC security
- Amazon Route 53
- Amazon CloudFront



Module 6: Compute

Module sections:

- Compute services overview
- Amazon EC2
- Amazon EC2 cost optimization
- Container services
- Introduction to AWS Lambda
- Introduction to AWS Elastic Beanstalk



Module 7: Storage

Module sections:

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



Module 8: Databases

Module sections:

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



Module 9: Cloud Architecture

Module sections:

- AWS Well-Architected Framework
- Reliability and availability
- AWS Trusted Advisor



Module 10: Automatic Scaling and Monitoring

Module sections:

- Elastic Load Balancing
- Amazon CloudWatch
- Amazon EC2 Auto Scaling



Section 2: AWS certification exam information

Course Introduction

AWS certification exams

Available AWS Certifications

aws certified
Updated May 2019

Professional

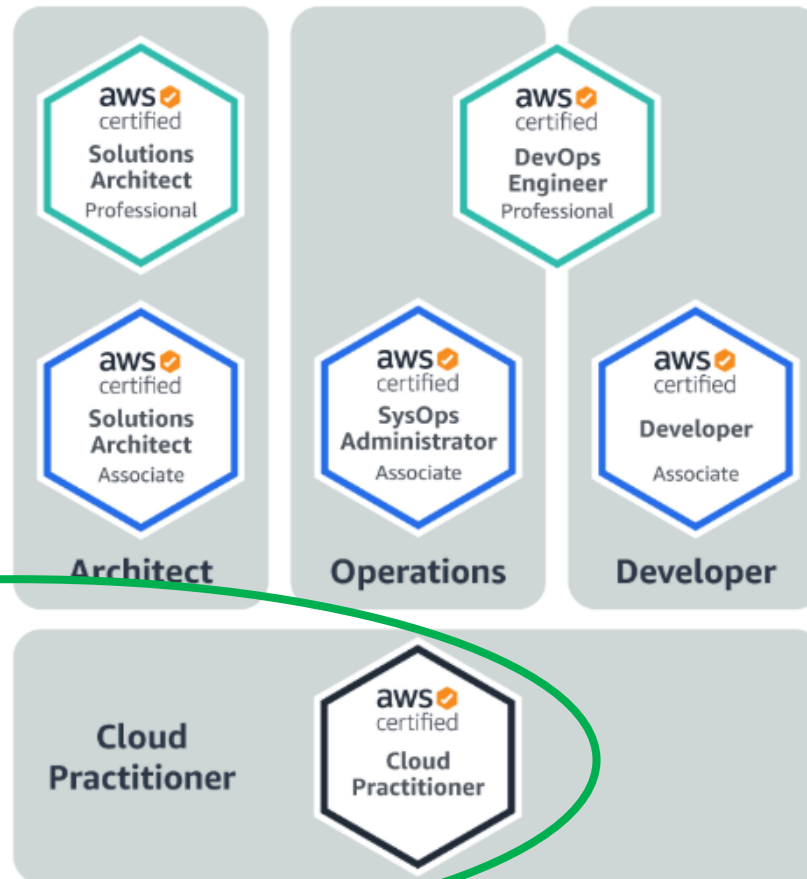
Two years of comprehensive experience designing, operating, and troubleshooting solutions using the AWS Cloud

Associate

One year of experience solving problems and implementing solutions using the AWS Cloud

Foundational

Six months of fundamental AWS Cloud and industry knowledge



Specialty

Technical AWS Cloud experience in the Specialty domain as specified in the [exam guide](#)



*This course helps prepare you for the AWS **Cloud Practitioner** certification exam*

AWS certification Exam

AWS Certified Cloud Practitioner	Category (CLF-C02)	Foundational
	Exam duration	90 minutes
	Exam format	65 questions; either multiple choice or multiple response
	Cost	100 USD
	Test in-person or online	Pearson VUE testing center or online proctored exam
	Languages offered	English
	Passing Score	700 / 1000

The exam has the following content domains and weightings:

- Domain 1: Cloud Concepts (24% of scored content)
- Domain 2: Security and Compliance (30% of scored content)
- Domain 3: Cloud Technology and Services (34% of scored content)
- Domain 4: Billing, Pricing, and Support (12% of scored content)

Section 3: AWS Documentation

Course Introduction

AWS Documentation

- Find user guides, developer guides, API references, tutorials, and more at <https://docs.aws.amazon.com/>
- **Whitepapers** are also available at <https://aws.amazon.com/whitepapers/>, including these which are recommended reading for the AWS Cloud Practitioner exam:
 - Overview of Amazon Web Services: <https://d0.awsstatic.com/whitepapers/aws-overview.pdf>
 - Architecting for the Cloud: AWS Best Practices: https://d1.awsstatic.com/whitepapers/AWS_Cloud_Best_Practices.pdf
 - How AWS Pricing Works: https://d0.awsstatic.com/whitepapers/aws_pricing_overview.pdf
 - The Total Cost of (Non) Ownership of Web Applications in the Cloud: https://media.amazonwebservices.com/AWS_TCO_Web_Applications.pdf

Module wrap-up

Course Introduction



Module summary

In summary, in this module, you learned how to:

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

Additional resources

- AWS Certification: <https://aws.amazon.com/certification/>
- AWS Certified Cloud Practitioner:
<https://aws.amazon.com/certification/certified-cloud-practitioner/>
- AWS Documentation: <https://docs.aws.amazon.com/>

Thank you



Corrections, feedback, or other questions?

Contact us at <https://support.aws.amazon.com/#/contacts/aws-academy>.

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