LEARNING CLF-C01: AWS Certified Cloud Practitioner

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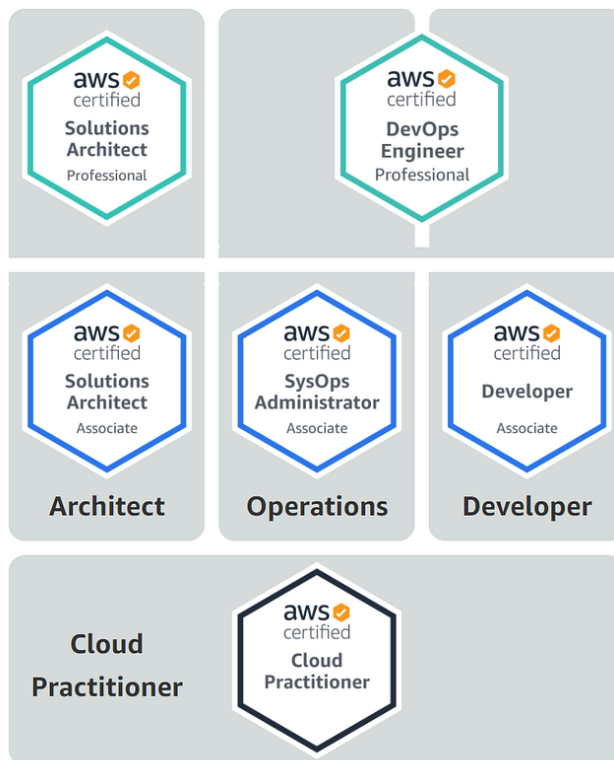
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Summary

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About Project

This project aims to help students or professionals to learn the main concepts of aws-cloud-practitioner-essentials exam

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Getting Started

This is an example of how you may give instructions on setting up your project locally. To get a local copy up and running follow these simple example steps.

Prerequisites

This is an example of how to list things you need to use the software and how to install them.

- git
- Virtual Box and extension
- Vagrant

Installation

Clone the repo

```
git clone https://github.com/marcossilvestrini/learning-aws-cloud-practitioner-essen
```

Usage

Use this repository for get learning about aws-cloud-practitioner-essentials exam

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Roadmap

- ☑ Create repository
- ☑ Create examples about Exam
- ☑ Create github action for automation tasks
- ☑ Upload simulated exam

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Course objectives

https://explore.skillbuilder.aws/learn/course/9449/exam-prep-aws-certified-cloud-practitioner-clf-c01

- Explain the value of the AWS Cloud
- Understand and explain the AWS shared responsibility model

- Understand security best practices
- Understand AWS Cloud costs, economics, and billing practices
- Describe and position the core AWS services, including compute, network, databases, and storage
- Identify AWS services for common use cases

Course Prerequisites

We recommend that attendees of this course have the following knowledge:

- Understanding of AWS Cloud concepts
- Understanding of security and compliance within the AWS Cloud
- Understanding of the core AWS services
- Understanding of the economics of the AWS Cloud
- Course outline
- Course Introduction

Module 1: Cloud Concepts

Define the AWS Cloud and its value proposition

Define the benefits of the AWS Cloud

- Explain how the AWS Cloud allows users to focus on business value
- Question walkthrough

Identify aspects of AWS Cloud economics

- Define items that would be part of a Total Cost of Ownership (TCO) proposal
- Identify which operations will reduce costs by moving to the cloud
- Question walkthrough

Explain the different cloud architecture design principles

- Explain the design principles

Module 2: Security and Compliance

Define the AWS shared responsibility model

- Recognize the elements of the shared responsibility model
- Describe the customer's responsibility on AWS
- Describe AWS responsibilities
- Question walkthrough

Define AWS Cloud security and compliance concepts

- Identify where to find AWS compliance information
- At a high level, describe how customers achieve compliance on AWS
- Describe who enables encryption on AWS for a given service
- Recognize there are services that will aid in auditing and reporting
- Explain the concept of least privileged access
- Question walkthrough

Identify AWS access management capabilities

- Understand the purpose of User and Identity Management
- Question walkthrough

Identify resources for security support

- Recognize there are different network security capabilities
- Recognize there is documentation and where to find it (for example, best practices, whitepapers, official documents)
- Know that security checks are a component of AWS Trusted Advisor
- Question walkthrough

Module 3: Technology

Define methods of deploying and operating in the AWS Cloud

- At a high level, identify different ways of provisioning and operating in the AWS Cloud
- Identify different types of cloud deployment models
- Identify connectivity options
- Question walkthrough

Define the AWS global infrastructure

- Describe the relationships among Regions, Availability Zones, and Edge Locations
- Describe how to achieve high availability through the use of multiple Availability Zones
- Describe when to consider the use of multiple AWS Regions
- Describe the benefits of Edge Locations at a high level
- Question walkthrough

Identify the core AWS services

- Describe the categories of services on AWS (compute, storage, network, database)
- Identify AWS compute services
- Identify different AWS storage services
- Identify AWS networking services
- Identify different AWS database services
- Question walkthrough

Identify resources for technology support

- Recognize there is documentation (best practices, whitepapers, AWS Knowledge Center, forums, blogs)
- Identify the various levels and scope of AWS Support
- Recognize there is the AWS Partner Network (APN) and the AWS Marketplace, including independent software vendors and system integrators
- Identify sources of AWS technical assistance and knowledge including professional services, solutions architects, training and certification, and the APN
- Identify the benefits of using AWS Trusted Advisor
- Question walkthrough

Module 4: Billing and Pricing

Compare and contrast the various pricing models for AWS (for example, On-Demand Instances, Reserved Instances, and Spot Instance pricing)

- Identify scenarios or the best fit for On-Demand Instance pricing
- Identify scenarios or the best fit for Reserved Instance pricing
- Identify scenarios or the best fit for Spot Instance pricing
- Question walkthrough

Recognize the various account structures in relation to AWS billing and pricing

- Recognize that consolidated billing is a feature of AWS Organizations
- Identify how multiple accounts aid in allocating costs across departments
- Question walkthrough

Identify resources available for billing support

- Identify ways to get billing support and information
- Identify where to find pricing information on AWS services
- Recognize that alarms and alerts exist
- Identify how tags are used in cost allocation

AWS CLI

Install

Windows

```
# https://learn.microsoft.com/en-us/windows/package-manager/winget/
winget install -e --id Amazon.AWSCLI
```

Linux

```
cd /tmp || exit
curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"
unzip awscliv2.zip
./aws/install
rm awscliv2.zip
```

Important Commands

```
# Get version
aws --version
```

```
# Create EC2 instance
aws ec2 run-instances \
  --image-id ami-xxxxxxxx \
  --count 1 \
  --instance-type t2.micro \
  --key-name MyKeyPair \
  --security-group-ids sg-903004f8 \
  --subnet-id subnet-6e7f829e
```

Contributing

Contributions are what make the open source community such an amazing place to learn, inspire, and create. Any contributions you make are **greatly appreciated**.

If you have a suggestion that would make this better, please fork the repo and create a pull request. You can also simply open an issue with the tag "enhancement". Don't forget to give the project a star! Thanks again!

1. Fork the Project
2. Create your Feature Branch (`git checkout -b feature/AmazingFeature`)
3. Commit your Changes (`git commit -m 'Add some AmazingFeature'`)
4. Push to the Branch (`git push origin feature/AmazingFeature`)
5. Open a Pull Request

License

- This project is licensed under the MIT License * see the LICENSE.md file for details

Contact

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Follow @mrsilvestrini

Project Link: https://github.com/marcossilvestrini/learning-aws-cloud-practitioner-essentials

Acknowledgments

AWS Exams code

- AWS Glossary
- AWS Overview
- AWS Global Infrastructure
- AWS Regions and Availability Zones
- AWS Compute
- AWS Virtual Private Cloud (Amazon VPC)
- AWS Storage
- AWS Cloud Databases
- AWS Security, Identity, and Compliance
- AWS Management and Governance
- AWS Monitoring and Observability
- AWS Compliance and Auditing
- AWS Free Tier

- AWS Pricing Calculator
  - AWS EC2 pricing
  - AWS S3 pricing
  - AWS Cost Explorer
  - AWS Support Plans
  - AWS Marketplace
  - AWS Knowledge
  - AWS Cloud Adoption Framework
  - AWS Snow Family
  - Migration & Transfer on AWS
  - AWS Cloud Essentials
  - AWS Well-Architected
  - AWS Architecture Center
  - AWS Console
  - Tools to Build on AWS
  - AWS Training Certification
  - AWS Course
  - AWS Prep Course
  - Simulated