uCertify

Course Outline

AWS Certified Solutions Architect Study Guide: Associate (SAA-C03)

15 May 2024

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1. Course Objective

Gain the hands-on experience to pass the AWS SAA-C03 exam with the AWS Certified Solutions Architect Study Guide: Associate (SAA-C03) course. The AWS training comprehensively covers AWS SAA-C03 certification exam objectives. It provides knowledge in areas such as cloud computing and AWS, compute services, AWS storage, VPC, AWS IAM, CloudTrail, Cloud Watch, AWS config, and many more.

2. Pre-Assessment

Pre-Assessment lets you identify the areas for improvement before you start your prep. It determines what students know about a topic before it is taught and identifies areas for improvement with question assessment before beginning the course.

3. Exercises

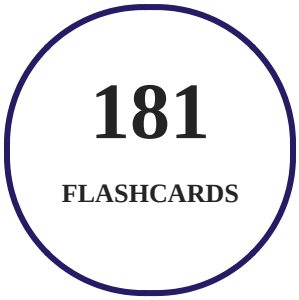
There is no limit to the number of times learners can attempt these. Exercises come with detailed remediation, which ensures that learners are confident on the topic before proceeding.

4. Quizzes

Quizzes test your knowledge on the topics of the exam when you go through the course material. There is no limit to the number of times you can attempt it.

5. flashcards

Flashcards are effective memory-aiding tools that help you learn complex topics easily. The flashcard will help you in memorizing definitions, terminologies, key concepts, and more. There is no limit to the number of times learners can attempt these. Flashcards help master the key concepts.



6. Glossary of terms

uCertify provides detailed explanations of concepts relevant to the course through Glossary. It contains a list of frequently used terminologies along with its detailed explanation. Glossary defines the key terms.

7. Expert Instructor-Led Training

uCertify uses the content from the finest publishers and only the IT industry's finest instructors. They have a minimum of 15 years real-world experience and are subject matter experts in their fields. Unlike a live class, you can study at your own pace. This creates a personal learning experience and gives you all the benefit of hands-on training with the flexibility of doing it around your schedule 24/7.

8. ADA Compliant & JAWS Compatible Platform

uCertify course and labs are ADA (Americans with Disability Act) compliant. It is now more accessible to students with features such as:

- Change the font, size, and color of the content of the course
- Text-to-speech, reads the text into spoken words
- Interactive videos, how-tos videos come with transcripts and voice-over
- Interactive transcripts, each word is clickable. Students can clip a specific part of the video by clicking on a word or a portion of the text.

JAWS (Job Access with Speech) is a computer screen reader program for Microsoft Windows that reads the screen either with a text-to-speech output or by a Refreshable Braille display. Student can easily navigate uCertify course using JAWS shortcut keys.

9. State of the Art Educator Tools

uCertify knows the importance of instructors and provide tools to help them do their job effectively. Instructors are able to clone and customize course. Do ability grouping. Create sections. Design grade scale and grade formula. Create and schedule assessments. Educators can also move a student from self-paced to mentor-guided to instructor-led mode in three clicks.

10. Award Winning Learning Platform (LMS)

uCertify has developed an award winning, highly interactive yet simple to use platform. The SIIA CODiE Awards is the only peer-reviewed program to showcase business and education technology's finest products and services. Since 1986, thousands of products, services and solutions have been

recognized for achieving excellence. uCertify has won CODiE awards consecutively for last 7 years:

- **2014**
    1. Best Postsecondary Learning Solution

- **2015**
    1. Best Education Solution
    2. Best Virtual Learning Solution
    3. Best Student Assessment Solution
    4. Best Postsecondary Learning Solution
    5. Best Career and Workforce Readiness Solution
    6. Best Instructional Solution in Other Curriculum Areas
    7. Best Corporate Learning/Workforce Development Solution

- **2016**
    1. Best Virtual Learning Solution
    2. Best Education Cloud-based Solution
    3. Best College and Career Readiness Solution
    4. Best Corporate / Workforce Learning Solution
    5. Best Postsecondary Learning Content Solution
    6. Best Postsecondary LMS or Learning Platform
    7. Best Learning Relationship Management Solution

- **2017**
    1. Best Overall Education Solution
    2. Best Student Assessment Solution
    3. Best Corporate/Workforce Learning Solution
    4. Best Higher Education LMS or Learning Platform

- **2018**
    1. Best Higher Education LMS or Learning Platform

2. Best Instructional Solution in Other Curriculum Areas
3. Best Learning Relationship Management Solution

- **2019**
  1. Best Virtual Learning Solution
  2. Best Content Authoring Development or Curation Solution
  3. Best Higher Education Learning Management Solution (LMS)

- **2020**
  1. Best College and Career Readiness Solution
  2. Best Cross-Curricular Solution
  3. Best Virtual Learning Solution

11. Chapter & Lessons

uCertify brings these textbooks to life. It is full of interactive activities that keeps the learner engaged. uCertify brings all available learning resources for a topic in one place so that the learner can efficiently learn without going to multiple places. Challenge questions are also embedded in the chapters so learners can attempt those while they are learning about that particular topic. This helps them grasp the concepts better because they can go over it again right away which improves learning.

Learners can do Flashcards, Exercises, Quizzes and Labs related to each chapter. At the end of every lesson, uCertify courses guide the learners on the path they should follow.

Syllabus

Chapter 1: Introduction

- What Does This Course Cover?
- Exam Objectives
- Objective Map

Chapter 2: Introduction to Cloud Computing and AWS

- Cloud Computing and Virtualization
- The AWS Cloud
- AWS Platform Architecture
- AWS Reliability and Compliance
- Working with AWS
- Migrating Existing Resources to AWS
- Summary
- Exam Essentials

Chapter 3: Compute Services

- Introduction
- EC2 Instances
- EC2 Storage Volumes
- Accessing Your EC2 Instance
- Securing Your EC2 Instance
- EC2 Auto Scaling

- AWS Systems Manager
- Running Containers
- AWS CLI Example
- Summary
- Exam Essentials

Chapter 4: AWS Storage

- Introduction
- S3 Service Architecture
- S3 Durability and Availability
- S3 Object Life Cycle
- Accessing S3 Objects
- Amazon S3 Glacier
- Other Storage-Related Services
- AWS CLI Example
- Summary
- Exam Essentials

Chapter 5: Amazon Virtual Private Cloud (VPC)

- Introduction
- VPC CIDR Blocks
- Subnets
- Elastic Network Interfaces
- Internet Gateways
- Route Tables
- Security Groups
- Network Access Control Lists
- AWS Network Firewall
- Public IP Addresses
- Elastic IP Addresses
- AWS Global Accelerator
- Network Address Translation
- Network Address Translation Devices
- AWS PrivateLink
- VPC Peering
- Hybrid Cloud Networking

- High-Performance Computing
- Summary
- Exam Essentials

Chapter 6: Database Services

- Introduction
- Relational Databases
- Amazon Relational Database Service
- Amazon Redshift
- Nonrelational (NoSQL) Databases
- DynamoDB
- Summary
- Exam Essentials

Chapter 7: Authentication and Authorization—AWS Identity and Access Management

- Introduction
- IAM Identities
- Authentication Tools
- AWS CLI Example

- Summary
- Exam Essentials

Chapter 8: CloudTrail, CloudWatch, and AWS Config

- Introduction
- CloudTrail
- CloudWatch
- AWS Config
- Summary
- Exam Essentials

Chapter 9: The Domain Name System and Network Routing: Amazon Route 53 and Amazon CloudFront

- Introduction
- The Domain Name System
- Amazon Route 53
- Amazon CloudFront
- AWS CLI Example
- Summary

- Exam Essentials

Chapter 10: Data Ingestion, Transformation, and Analytics

- Introduction
- AWS Lake Formation
- AWS Transfer Family
- Kinesis
- Summary
- Exam Essentials

Chapter 11: Resilient Architectures

- Introduction
- Calculating Availability
- EC2 Auto Scaling
- Data Backup and Recovery
- Creating a Resilient Network
- Simple Queue Service
- Designing for Availability

- Summary
- Exam Essentials

Chapter 12: High-Performing Architectures

- Introduction
- Optimizing Performance for the Core AWS Services
- Infrastructure Automation
- Reviewing and Optimizing Infrastructure Configurations
- Optimizing Data Operations
- Summary
- Exam Essentials

Chapter 13: Secure Architectures

- Introduction
- Identity and Access Management
- Detective Controls
- Protecting Network Boundaries
- AWS Firewall Manager
- Data Encryption

- Summary
- Exam Essentials

Chapter 14: Cost-Optimized Architectures

- Introduction
- Planning, Tracking, and Controlling Costs
- Cost-Optimizing Compute
- Summary
- Exam Essentials

12. Practice Test

Here's what you get

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PRE-ASSESSMENTS QUESTIONS	FULL LENGTH TESTS	POST-ASSESSMENTS QUESTIONS

Features

Each question comes with detailed remediation explaining not only why an answer option is correct but also why it is incorrect.

Unlimited Practice

Each test can be taken unlimited number of times until the learner feels they are prepared. Learner can review the test and read detailed remediation. Detailed test history is also available.

Each test set comes with learn, test and review modes. In learn mode, learners will attempt a question and will get immediate feedback and complete remediation as they move on to the next question. In test mode, learners can take a timed test simulating the actual exam conditions. In review mode, learners can read through one item at a time without attempting it.

13. Live Labs

The benefits of live-labs are:

- Exam based practical tasks
- Real equipment, absolutely no simulations
- Access to the latest industry technologies
- Available anytime, anywhere on any device
- Break and Reset functionality
- No hardware costs

Lab Tasks

Compute Services

- Creating a Linux Instance
- Creating a Placement Group
- Creating a Snapshot

- Creating an Encrypted Amazon EBS Volume with a Cold HDD
- Creating an EC2 Auto Scaling Group
- Creating an ECS Cluster

AWS Storage

- Creating an S3 Bucket and Enabling Versioning On It
- Creating an Amazon S3 Glacier Vault
- Creating and Customizing an EFS File System

Amazon Virtual Private Cloud (VPC)

- Creating a VPC
- Creating a Subnet
- Creating a Network Interface
- Creating an Internet Gateway
- Configuring a Route Table
- Creating a Security Group
- Creating a Network ACL
- Creating a VPC Peering
- Creating a Virtual Private Gateway
- Creating a Transit Gateway
- Creating a VPN Connection

Database Services

- Creating an Amazon DynamoDB Table

Authentication and Authorization—AWS Identity and Access Management

- Configuring a Key
- Creating an AWS CloudHSM Cluster

CloudTrail, CloudWatch, and AWS Config

- Creating CloudTrail
- Creating a Rule in Amazon EventBridge

- Creating a CloudWatch Alarm

The Domain Name System and Network Routing: Amazon Route 53 and Amazon CloudFront

- Creating a Hosted Zone Using Amazon Route 53
- Creating CloudFront

Data Ingestion, Transformation, and Analytics

- Creating a Kinesis Firehose Delivery Stream
- Creating a Kinesis Data Stream

Resilient Architectures

- Creating an Amazon SQS Queue

High-Performing Architectures

- Creating an Elastic Load Balancer
- Using ElastiCache
- Creating a CloudFormation Template
- Creating a CloudWatch Dashboard and Adding a Metric to it

Secure Architectures

- Enabling and Disabling Amazon Inspector
- Enabling and Disabling GuardDuty
- Creating an AWS WAF Web ACL

Here's what you get

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LIVE LABS	VIDEO TUTORIALS	HOURS

14. Post-Assessment

After completion of the uCertify course Post-Assessments are given to students and often used in conjunction with a Pre-Assessment to measure their achievement and the effectiveness of the exam.

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