

# AWS Certified Solutions Architect - Associate

## Course Description

SecureNinja's 3-day AWS Certified Solutions Architect - Associate training will prepare students to learn the major components of Amazon Web Services (AWS). AWS certifications are very much in demand across the IT industry and this is a valuable intermediate-level course that is geared towards individuals who perform a solutions architect role designing available, cost-efficient, fault-tolerant, and scalable distributed systems on AWS, though no prior experience is needed before taking this course. You'll learn about AWS Cloud concepts, core AWS services, as well as a closer look at individual services such as EC2, S3, VPC, Route 53, RDS, SQS and more.

The AWS Certified Solutions Architect - Associate examination, itself, is intended for individuals who have the knowledge and skills necessary to effectively demonstrate an overall understanding of the AWS Cloud, independent of specific technical roles addressed by other AWS Certifications.

## Topics Covered

- How to architect and deploy secure and robust applications on AWS technologies
- Define a solution using architectural design principles based on customer requirements
- Provide implementation guidance based on best practices to the organization throughout the life cycle of the project
- Compute, networking, storage, and database AWS services
- AWS deployment and management services
- Identify and define technical requirements for an AWS-based application
- Recommended best practices for building secure and reliable applications on the AWS platform
- Basic architectural principles of building in the AWS Cloud
- AWS global infrastructure
- Network technologies as they relate to AWS
- security features and tools that AWS provides and how they relate to traditional services

### Domain 1: Design Resilient Architectures

- 1.1 Design a multi-tier architecture solution
- 1.2 Design highly available and/or fault-tolerant architectures
- 1.3 Design decoupling mechanisms using AWS services
- 1.4 Choose appropriate resilient storage

### Domain 2: Design High-Performing Architectures

- 2.1 Identify elastic and scalable compute solutions for a workload
- 2.2 Select high-performing and scalable storage solutions for a workload

- 2.3 Select high-performing networking solutions for a workload
- 2.4 Choose high-performing database solutions for a workload

### **Domain 3: Design Secure Applications and Architectures**

- 3.1 Design secure access to AWS resources
- 3.2 Design secure application tiers
- 3.3 Select appropriate data security options

### **Domain 4: Design Cost-Optimized Architectures**

- 4.1 Identify cost-effective storage solutions
- 4.2 Identify cost-effective compute and database services
- 4.3 Design cost-optimized network architectures

## **Who Would Benefit**

This course is geared towards individuals who perform a solutions architect role designing available, cost-efficient, fault-tolerant, and scalable distributed systems on AWS.

## **Required Exams**

AWS Certified Solutions Architect – Associate exam SAA-C03

## **Prerequisites**

- We recommend candidates have at least six months of experience with the AWS Cloud in any role, including technical, managerial, sales, purchasing, or financial
- Candidates should have a basic understanding of IT services and their uses in the AWS Cloud platform

## **Course Length**

24 hours

## **Career Track & Roles**

- Business analysts
- Project managers
- Other IT-related professionals