



AWS Cloud Architect

Master's Program



Table of Content

About the Program	3
Key Features of the Program	4
Partnerships and Certifications Alignment	5
About Simplilearn	5
Eligibility Criteria	6
Talk to an Admissions Counselor	6
Cloud Computing Industry Trends	7
Cloud Computing Career Outlook	8
Program Outcomes	11
Who Should Enroll in This Bootcamp?	12
Learning Path Visualization	13
Program Projects	20
Tools Covered	21
Certificate	22
Classroom-Level Immersion: Delivered Digitally	23
Customer Reviews	24
Corporate Training	25

About the Program

This AWS Cloud Architect Program is an all-encompassing course to equip you with the skills and knowledge required to design, implement, and manage cloud solutions and excel as an AWS cloud architect. It provides comprehensive training on AWS, preparing you for key industry certifications and practical cloud solution implementations.

Excel in your learning through practical exercises and experiments in a simulated cloud environment with this program, covering live classes, peer-to-peer collaboration, hands-on labs, and training on essential AWS tools. You can apply your acquired knowledge and skills to a real-world scenario with the capstone projects. Design and implement a cloud solution using AWS to address specific business challenges. You will gain practical experience in mastering cloud architectural principles, designing & deploying scalable services on cloud platforms, identity management, data storage, network configuration etc, preparing you for advanced roles in cloud computing.

Upon completing the program, you will gain access to Simplilearn's Job Assistance services, including personal career mentoring, expert resume writing and interview preparation.



Key Features of the Program



Course content aligned to the AWS SAA-C03 exam



Get access to official AWS-authored self-learning content



Learn to design and deploy highly scalable and fault-tolerant applications on AWS



Get lifetime access to self-paced videos & class recordings



Learn 20+ in-demand tools and skills - Practice hands-on with tools like AWS Lambda, Amazon EC2, Amazon S3, AWS IAM, Amazon Inspector, & many more



Get access to global teaching assistance



Access to Simplilearn's Job Assistance services (India Only)

Partnerships and Certifications Alignment

This Cloud Architect Master's Program is aligned with the curriculum of Amazon Web Services. We are a registered training provider for this program.



About Simplilearn

Simplilearn is the world's #1 online Bootcamp provider, enabling learners around the globe with rigorous and highly specialized training offered in partnership with world-renowned universities and leading corporations. We focus on emerging technologies and skills transforming the global economy, such as data science, cloud computing, programming, and more. Our hands-on and immersive training includes live virtual classes, integrated labs and projects, 24x7 support and a collaborative learning environment. Over two million professionals and 2000 corporate training organizations across 150 countries have harnessed our award-winning programs to achieve their career and business goals.

Eligibility Criteria

For admission into this program, candidates:

- ✓ Should be at least 18 years old and have a high school diploma or equivalent
- ✓ Must have a basic idea of AWS administration, AWS development, or DevOps (preferred but not mandatory)
- ✓ Are not required to have prior professional experience

Talk to an Admissions Counselor

Our team of dedicated admissions counselors is prepared to address your questions or concerns about the Cloud Computing Bootcamp.

Our team is available to:

- ✓ Answer your questions about the application process.
- ✓ Discuss your financing options.
- ✓ Provide insight into the curriculum, program outcomes and more.

INQUIRE NOW

Contact Us | 1-800-212-7688

Cloud Computing Industry Trends



90% Businesses

Are already on the cloud

Source: Radix



\$ 1.55 trillion

Estimated market size by 2030

Source: Allied Market Research



\$130K

The average annual salary of a
cloud computing professional in the U.S

Source: Glassdoor

Cloud Computing Career Outlook

Due to the high demand for cloud computing professionals, salaries in this field often reflect the reality of the market. The company's size, geographical location, and industry can significantly influence compensation levels. Taking these variables into consideration, we have compiled an estimate of what you can expect to earn in the following roles:

IT Enterprise Architect

Job Role - An IT enterprise architect oversees an organization's IT networks and services while providing maintenance and upgrades when required.



Average Salary Range -
\$131,128 – \$162,498

AWS Cloud Architect

Job Role - An AWS cloud architect is responsible for an organization's cloud computing systems. They work with cloud technology to develop cloud adoption plans, determine cloud application design, and create systems for managing, monitoring, and maintaining the cloud system.



Average Salary Range -
\$136,000 - \$185,000

AWS Solutions Architect

Job Role - A cloud solutions architect designs and implements cloud computing solutions, including designing the cloud infrastructure, application architecture, and security architecture.



Average Salary Range -
\$136,000 - \$185,000

AWS Technical Architect

Job Role - A cloud technical architect designs the components of an organization's cloud computing architecture. These components include front-end and back-end platforms, cloud service delivery and networking.



Average Salary Range -
\$158,000 - \$185,000

AWS Cloud Engineer

Job Role - A cloud engineer is an IT professional responsible for any technological duties associated with cloud computing, including design, planning, management, maintenance, and support.



Average Salary Range -
\$92,000 - \$114,400

AWS Cloud System Administrator

Job Role - A cloud system administrator manages and maintains cloud infrastructure, ensuring availability, performance, security, and efficient operation.



Average Salary Range -
\$115,000 - \$142,000

AWS Cloud Security Engineer

Job Role - A cloud security engineer is responsible for implementing and maintaining security measures to protect cloud-based systems and data from unauthorized access, vulnerabilities, and threats.



Average Salary Range -
\$95,000 - \$140,000

AWS Cloud Developer

Job Role - Cloud developers build and deploy cloud-based apps using AWS. They ensure scalability, reliability, and cost-effectiveness, collaborating with teams to meet modern business needs. Expertise in programming languages, microservices, and containers is essential for this role.



Average Salary Range -
\$112,000 - \$138,000

Program Outcomes

By the end of this program, you will be able to:

- ✔ Understand the main principles of cloud computing and how they have been implemented in AWS cloud services.
- ✔ Implement AWS security and testing and become an expert in AWS components such as S3, DynamoDB, Elastic Beanstalk, and CloudFormation.
- ✔ Deploy, manage, and operate scalable, highly available, and fault-tolerant systems on AWS.
- ✔ Get an overview of AWS DMS, how the AWS Schema Conversion tool works, and types of AWS Database Migration Services.
- ✔ Manage subscriptions, billing, and role-based access control regarding AWS users and groups.
- ✔ Engage with AWS DMS, the AWS Schema Conversion tool, and the AWS Database Migration Services.
- ✔ Select the appropriate AWS service based on data, compute, database, or security requirements.

Who Should Enroll in This Bootcamp?

This program is designed to train professionals who will be responsible for cloud computing in their respective organizations and is recommended for individuals pursuing positions including, but not limited to:

AWS Cloud Solutions Architect



AWS Cloud Security Architect



AWS Cloud Developer



AWS Cloud Consultant



AWS Application Security Analyst



AWS Cloud Administrator



AWS Technical Cloud Architect



AWS Cloud Practitioner



AWS Solutions Architect



AWS Cloud Infrastructure Engineer



AWS Cloud Engineer



Learning Path Visualization



Electives:

- ✓ Step 1 - Mastering AWS Services: Official AWS Content
- ✓ Step 2 - AWS SysOps Associate
- ✓ Step 3 - AWS Developer Associate
- ✓ Step 4 - AWS Database Migration

AWS Cloud Technical Essentials

This AWS Technical Essentials Certification Training course will introduce you to the fundamentals of the Amazon Web Services (AWS) cloud platform and ensure you are fully proficient in identifying AWS terminologies, concepts, benefits, and deployment options to meet your business requirements. You'll learn to navigate the AWS management console, understand AWS security measures, storage, and database options, and gain expertise in web services such as EC2, S3, RDS and EBS.

Key Learning Objectives:

By the end of this AWS training, you will be able to:

- ✓ Recognize terminology and concepts as they relate to the AWS platform
- ✓ Navigate the AWS management console
- ✓ Understand the security measures AWS provides
- ✓ Differentiate AWS storage options and create Amazon S3 buckets
- ✓ Recognize AWS compute and networking options and use EC2 and EBS
- ✓ Describe managed services and database options
- ✓ Use Amazon Relational Database Service (RDS) to launch an application
- ✓ Identify deployment and management options

Course Curriculum - Live Class Learning

- ✓ Lesson 00 - Course Overview
- ✓ Lesson 01 - Introduction to Cloud Computing
- ✓ Lesson 02 - Introduction to AWS
- ✓ Lesson 03 - Storage and Content Delivery
- ✓ Lesson 04 - Compute Services and Networking
- ✓ Lesson 05 - AWS Managed Services and Databases
- ✓ Lesson 06 - Deployment and Management
- ✓ Lesson 07 - Practice Project

AWS Solutions Architect

This AWS Solutions Architect Certification training will enable you to design, plan, and scale AWS implementations utilizing over 70 cloud computing services. The course is aligned with the latest AWS exam, which features Amazon-designated best practices.

Key Learning Objectives:

By the end of this AWS training, you will be able to:

- ✓ Formulate solution plans and guide AWS architectural best practices.
- ✓ Design and deploy scalable, highly available, and fault-tolerant systems on AWS.
- ✓ Identify the lift and shift of an existing on-premises application to AWS.
- ✓ Decipher the ingress and egress of data to and from AWS.
- ✓ Select the appropriate AWS service based on data, compute, database, or security requirements.
- ✓ Estimate AWS costs and identify cost control mechanisms.

Course Curriculum

- ✓ Lesson 00 - Course Overview
- ✓ Lesson 01 - AWS Overview
- ✓ Lesson 02 - Designing Highly Available, Cost-efficient, Fault-tolerant, and Scalable Systems
- ✓ Lesson 03 - Identity Access Management (IAM)
- ✓ Lesson 04 - Amazon Virtual Private Cloud (VPC)
- ✓ Lesson 05 - Elastic Compute Cloud (EC2)
- ✓ Lesson 06 - Amazon Simple Storage Service (S3)
- ✓ Lesson 07 - Amazon Route 53
- ✓ Lesson 08 - Databases
- ✓ Lesson 09 - Application Services
- ✓ Lesson 10 - Security Practices for Optimum Cloud Deployment
- ✓ Lesson 11 - Disaster Recovery
- ✓ Lesson 12 - Troubleshooting
- ✓ Lesson 13 - AWS Solutions Architect Exam

Electives:



Mastering AWS Services: Official AWS Content

This optional course will help you establish a strong AWS and AWS Cloud foundation, which will serve as a benchmark for your upcoming classes.

In the rapidly evolving realm of cloud computing:

- ✓ Proficiency in Amazon Web Services (AWS) is paramount.
- ✓ Our Mastering AWS Services course offers meticulously curated AWS Authorized Content.
- ✓ This content is designed to empower individuals and organizations on their cloud journey.
- ✓ This course caters to beginners seeking fundamental AWS concepts and experienced professionals aiming to deepen their expertise.
- ✓ Trust in the accuracy, relevance, and reliability of our AWS Authorized Content to acquire in-demand skills and certifications with confidence.
- ✓ AWS Fundamentals & Services Overview: Covering a comprehensive range of AWS fundamentals, including cloud computing essentials, networking basics, security, compute services (such as Lambda and EC2), database management with RDS, and cost management.
- ✓ Advanced AWS Topics & Services: Delving into more specialized areas like cloud adoption frameworks, identity and access management (IAM), API Gateway, networking configurations, serverless development, database migration, and automation with CloudFormation.

24+

Hours of self-learning content

28

Topics and AWS services covered



Official AWS Authored Content

6

Across 6 key AWS learning tracks



AWS SysOps Associate

Get hands-on exposure to the Amazon Web Services (AWS) cloud platform with the AWS SysOps Associate certification training program. This course will help you attain valuable technical expertise in deploying, managing, and operating fault-tolerant systems on AWS.

Key Learning Objectives:

By the end of this AWS SysOps Associate Certification course, you will be able to:

- ✓ Deploy, manage, and operate systems on AWS that are scalable, reliable, and robust.
- ✓ Migrate an existing on-premises application to AWS
- ✓ Ensure data integrity and data security on AWS technology
- ✓ Select the appropriate AWS service based on compute, data, or security requirements
- ✓ Identify appropriate use of AWS operational best practices
- ✓ Understand operational cost control mechanisms and estimate AWS usage costs.

Course Curriculum -

- ✓ Lesson 01 - Course Introduction
- ✓ Lesson 02 - Monitoring and Metrics
- ✓ Lesson 03 - Networking
- ✓ Lesson 04 - Analysis and Cost Effectiveness in AWS
- ✓ Lesson 05 - Security
- ✓ Lesson 06 - Data Management
- ✓ Lesson 07 - High Availability
- ✓ Lesson 08 - Deployment and Provisioning
- ✓ Lesson 09 - Best Practices for AWS SysOps Administrator Associate
- ✓ Lesson 10 - Practice Projects



AWS Developer Associate

Enhance your proficiency with the Amazon Web Services (AWS) cloud platform to develop and deploy powerful applications with an AWS Developer Associate Certification. This course helps you implement cloud security best practices and understand what it takes to become an AWS Developer Associate.

Key Learning Objectives:

By the end of this AWS Developer Associate Certification course, you will be able to:

- ✓ Plan, design, develop, and deploy scalable and elastic cloud solutions using AWS.
- ✓ Write code that optimizes the performance of AWS services.
- ✓ Recognize and implement code-level application security (IAM roles, credentials, encryption).
- ✓ Identify and implement the appropriate architecture for development, testing, and staging environments.
- ✓ Identify and deploy secure procedures for optimal cloud deployment and maintenance.
- ✓ Develop and maintain applications written for S3, DynamoDB, SQS, SNS, SWS, AWS.
- ✓ Elastic Beanstalk, and AWS CloudFormation.
- ✓ Identify and implement cloud security best practices

Course Curriculum -

- ✓ Lesson 01 - Introduction
 - ✓ AWS Overview
 - ✓ AWS Services



AWS Database Migration

Learn how easily and securely you can move databases onto the cloud, how the AWS Schema Conversion tool works and how the AWS Database Migration service supports homogeneous and heterogeneous migrations.

Key Learning Objectives:

By the end of this AWS Database Migration Certification course, you will be able to:

- ✓ Get an overview of AWS DMS.
- ✓ Understand how the AWS Schema Conversion tool works.
- ✓ Understand the three types of AWS DMS.
- ✓ Review the AWS Database Migration Service.

Course Curriculum -

- ✓ Lesson 00 - Lesson 00 - Overview
- ✓ Lesson 01 - Overview of AWS DMS
- ✓ Lesson 02 - Schema Conversion Tool
- ✓ Lesson 03 - Database Migration Service
- ✓ Lesson 04 - AWS Database Migration Service Review

Program Projects

Project 1: Migrate SQL Server database to MySQL using AWS DMS

In this project, the learner will install the AWS Schema Conversion Tool and use it to verify the effort required to migrate the SQL Server source database. Fix the issue and rerun the database assessment report and apply schema to target MySQL database.

Project 2: Custom Virtual Private Cloud (VPC) Creation

Create a custom VPC with public and private subnets on two availability zones and launch instances into each subnet.

Project 3: Load balancer configuration

Launch two web servers and configure a load balancer and auto-scaling.

Project 4: RD Gateway configuration

Configure RD Gateway on a VPC with a public and private subnet.

Tools Covered



Amazon ECS



Amazon
EC2



AWS
Lambda



AWS
Cloudwatch



AWS
CLOUDFORMATION



Elastic
Beanstalk



amazon
DynamoDB



amazon
RDS



**Virtual
Machines**

Certificate



Upon completion of this Master's Program, you will also receive an industry-recognized Master's Certificate from Simplilearn.



Classroom-Level Immersion: Delivered Digitally



Customer Reviews



Sreekumar Changat

I am currently enrolled in the Azure Architect Master's Program from Simplilearn. The organization provides an excellent platform with a hands-on approach through its learning platform. This includes self-learning videos, live classroom lectures, lots of practical assignments, and tests. Thank you, Simplilearn team!



Prabhangshu Kashyap Sarma

Simplilearn's learning platform is the best place to learn with tutorial videos, live classes, and live projects that you can easily understand the subject matter. They also have excellent customer service.

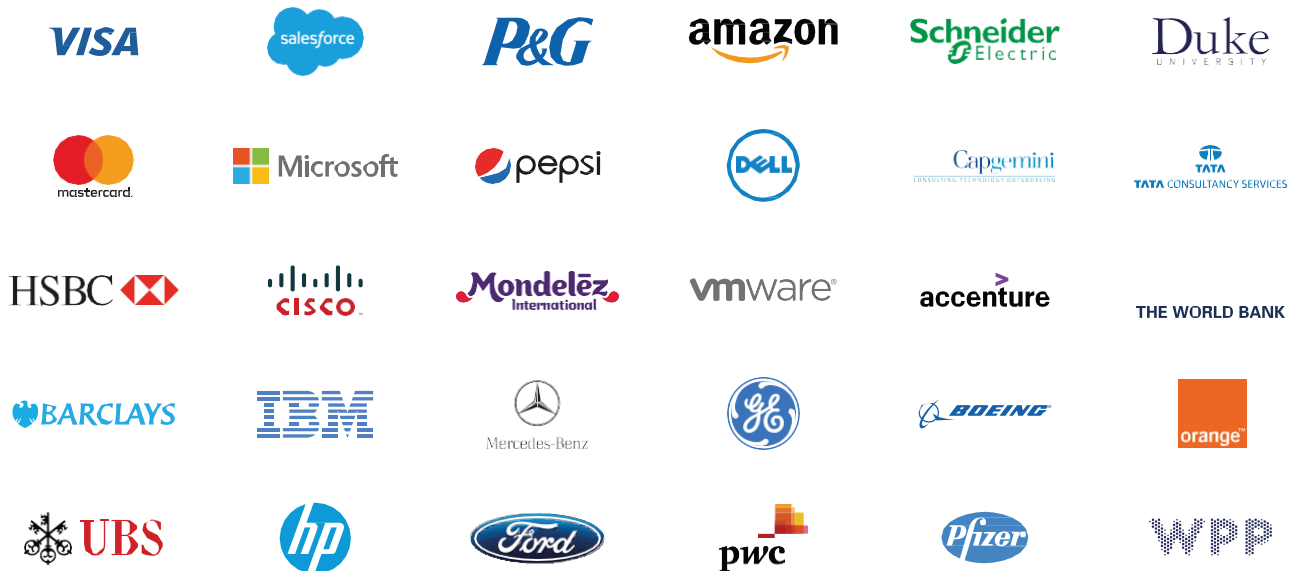


Vikram Rahul Padamatintit

The materials and content are very relevant and in line with the certification exam. The standard of questions in the sample quizzes is equal to that of the certification. Thank you Simplilearn for providing such quality content and helping me to become a master in this particular course.

Corporate Training

Top clients we work with:



Features of Corporate Training:



Tailored learning solutions



Flexible pricing options



Enterprise-grade learning management system (LMS)



Enterprise dashboards for individuals and teams



24X7 learner assistance and support



United Kingdom

UBC 1st Floor

The Mille

1000 Great West Road

TW89DW

Phone: +44 7397 538 969

E-mail: info@itaassociates.co.uk

www.itaassociates.co.uk

©2025 - All Rights Reserved.