simplilearn

AWS Cloud Architect

Master's Program

Table of Contents

About the Course

Simplilearn's AWS Cloud Architect Master's Program will build your Amazon Web Services (AWS) expertise from the ground up. You'll learn to master the architectural principles and services of AWS; design and deploy highly scalable, fault-tolerant applications; and develop skills to transform yourself into an AWS cloud architect.

Key Features

Lifetime access to self-paced videos & class recordings

8X higher interaction in live online classes conducted by industry experts

20+ in-demand tools and skills

Job-assist program (India only)

About Simplilearn

Simplilearn is the world's #1 online bootcamp provider that enables learners through rigorous and highly specialized training. We focus on emerging technologies and processes that are transforming the digital world, at a fraction of the cost and time as traditional approaches. Over one million professionals and 2000 corporate training organizations have harnessed our award-winning programs to achieve their career and business goals.
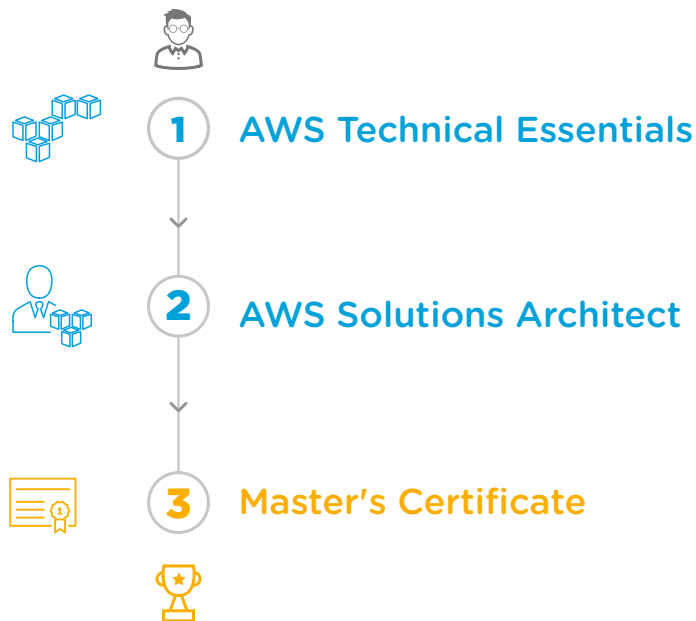
Partnerships and Certifications Alignment

This AWS Cloud Architect Program is aligned to the curriculum of Amazon Web Services and we are the registered training provider for this program.

Learning Path

1. AWS Technical Essentials

2. AWS Solutions Architect

3. Master's Certificate

Electives

- AWS Developer Associate
- AWS Database Migration
- AWS SysOps Associate

Program Outcomes

At the end of this AWS Cloud Architect Program, you will be able to:

- Understand the fundamentals of the Amazon Web Services (AWS) cloud platform and ensure that you are fully proficient in identifying AWS terminologies, concepts, benefits and deployment options to meet your business requirements.

- Implement AWS security and testing, and become an expert in AWS components such as S3, Dynamo DB, Elastic Beanstalk, and CloudFormation.

- Get an overview of AWS DMS, how the AWS Schema Conversion tool works, types of AWS Database Migration Service

- Deploy, manage and operate scalable, highly available and fault-tolerant systems on AWS

- Select the appropriate AWS service based on data, compute, database, or security requirements

Who Should Enroll in this Program?

This program caters to those who are hoping to enter the cloud industry. The following roles and disciplines are ideal for this course:

- Fresh graduates who are intent on taking the plunge into the job market

- Any professionals who are working in either technical or non-technical job roles and want to shift to cloud domain

AWS 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 that 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 the AWS Technical Essentials 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

- 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
- 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 featuring Amazon designated best practices.

Key Learning Objectives

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

- Formulate solution plans and provide guidance on 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

AWS Developer Associate

Simplilearn's AWS Developer Associate training builds upon the skills learned from the AWS Technical Essentials course. This course will teach you how to write code and design scalable applications, implement application security and testing, and develop expertise with key AWS components such as S3, Dynamo DB, Elastic Beanstalk, and CloudFormation.

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 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 1 -Introduction

    1 AWS Overview

    2 AWS Services

AWS Database Migration

This course will demonstrate the key functionality of AWS Database Migration Service (DMS) and will help you understand how to easily and securely move databases into the AWS cloud platform to take advantage of the cost savings and scalability of AWS.

Key Learning Objectives

The main objectives of this course are:

- 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

AWS SysOps Associate

This AWS SysOps training is a prerequisite to the DevOps Engineer Certification. You will learn how to migrate on-premise applications to AWS, control the flow of data to and from AWS, master the AWS management console, implement operational cost controls, and enhance your ability to efficiently leverage AWS resources and services.

Key Learning Objectives

By the end of the course you'll be able to:

- Deploy, manage, and operate scalable, highly available, and fault-tolerant systems on AWS

- 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

- Practice Projects

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 and Services Covered

Amazon ECS

Amazon EC2

AWS Lambda

AWS CloudWatch

AWS CloudFormation

Elastic Beanstalk

Amazon DynamoDB
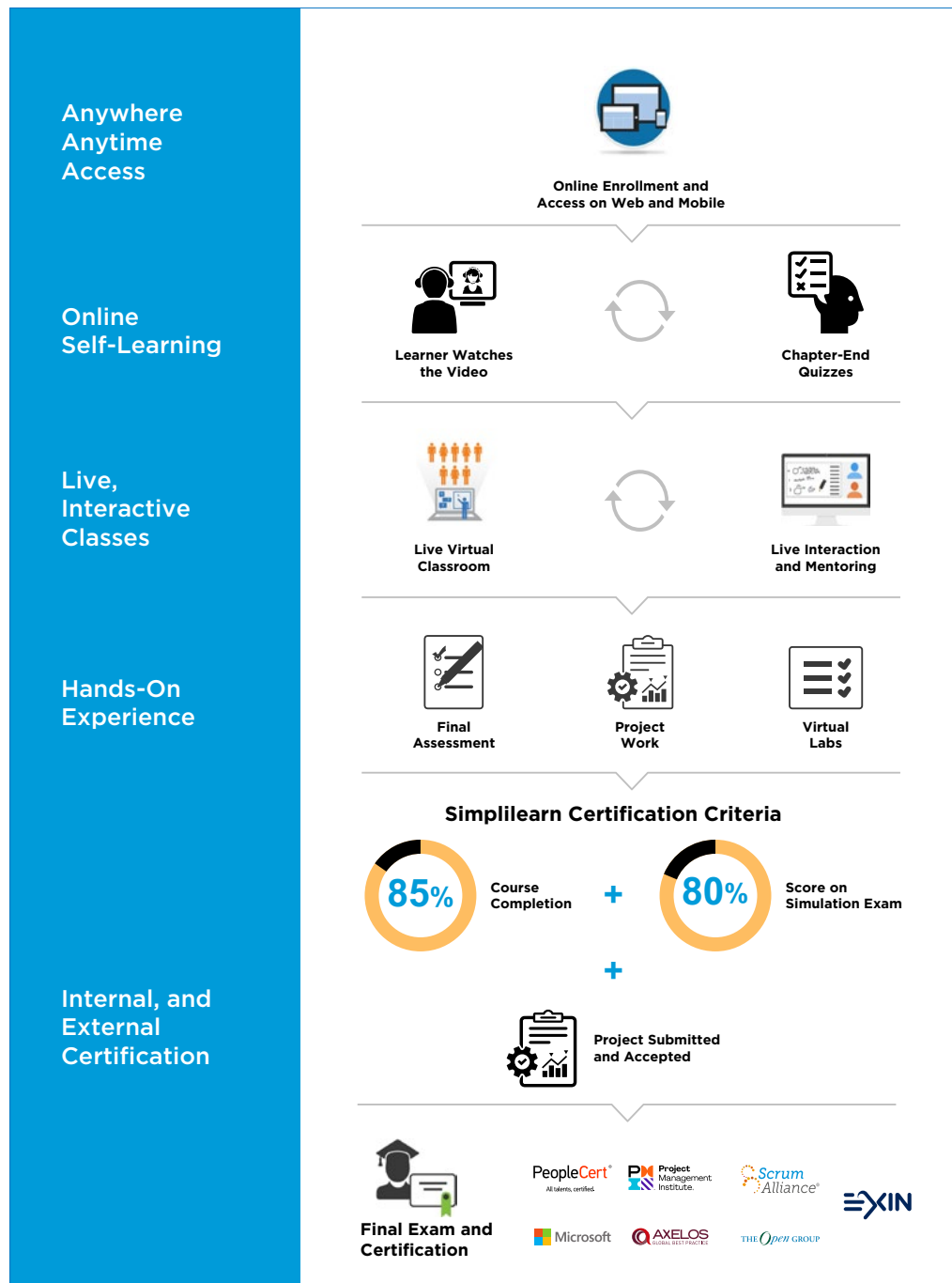
Amazon RDS

SQL

Virtual Machines

Certificates

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

Classroom-Level Immersion: Delivered Digitally

Anywhere Anytime Access

Online Enrollment and Access on Web and Mobile

Online Self-Learning

Learner Watches the Video

Chapter-End Quizzes

Live, Interactive Classes

Live Virtual Classroom

Live Interaction and Mentoring

Hands-On Experience

Final Assessment

Project Work

Virtual Labs

Simplilearn Certification Criteria

85% Course Completion **+** **80%** Score on Simulation Exam

+

Project Submitted and Accepted

Internal, and External Certification

Final Exam and Certification

PeopleCert — All talents, certified.

Project Management Institute.

Scrum Alliance®

EXIN

Microsoft

AXELOS GLOBAL BEST PRACTICE

THE Open GROUP

Customer Reviews

Sreekumar Changat

I am currently enrolled in the AWS 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 learning platform is the best place to learn with tutorial videos, live classes, and live projects to help you easily understand the subject matter. They also have excellent customer service.
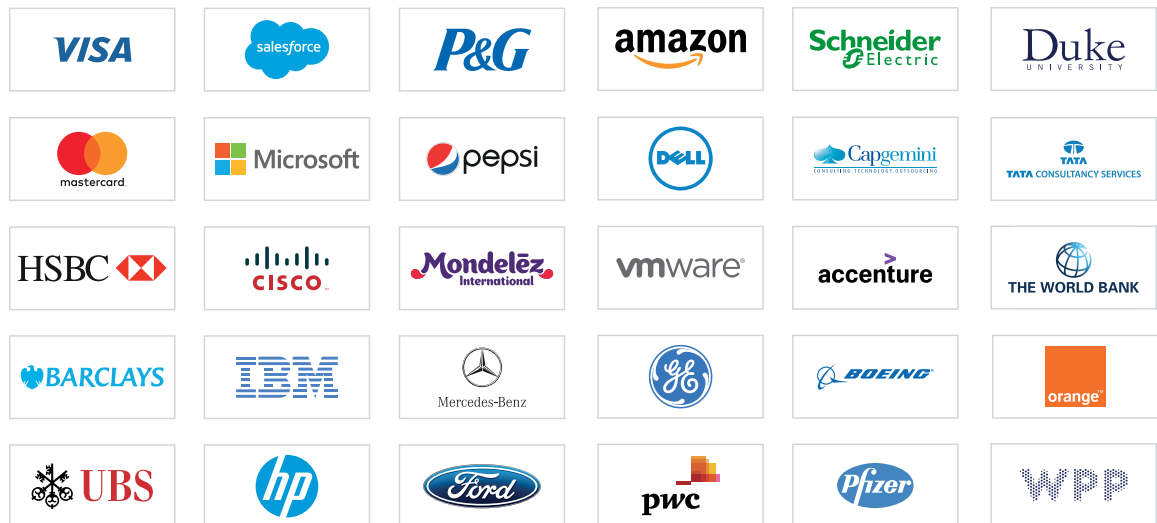
Vikram Rahul Padamatinti

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:

VISA, salesforce, P&G, amazon, Schneider Electric, Duke University

mastercard, Microsoft, pepsi, DELL, Capgemini, TATA CONSULTANCY SERVICES

HSBC, CISCO, Mondelēz International, vmware, accenture, THE WORLD BANK

BARCLAYS, IBM, Mercedes-Benz, GE, BOEING, orange

UBS, hp, Ford, pwc, Pfizer, WPP

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

simpli learn