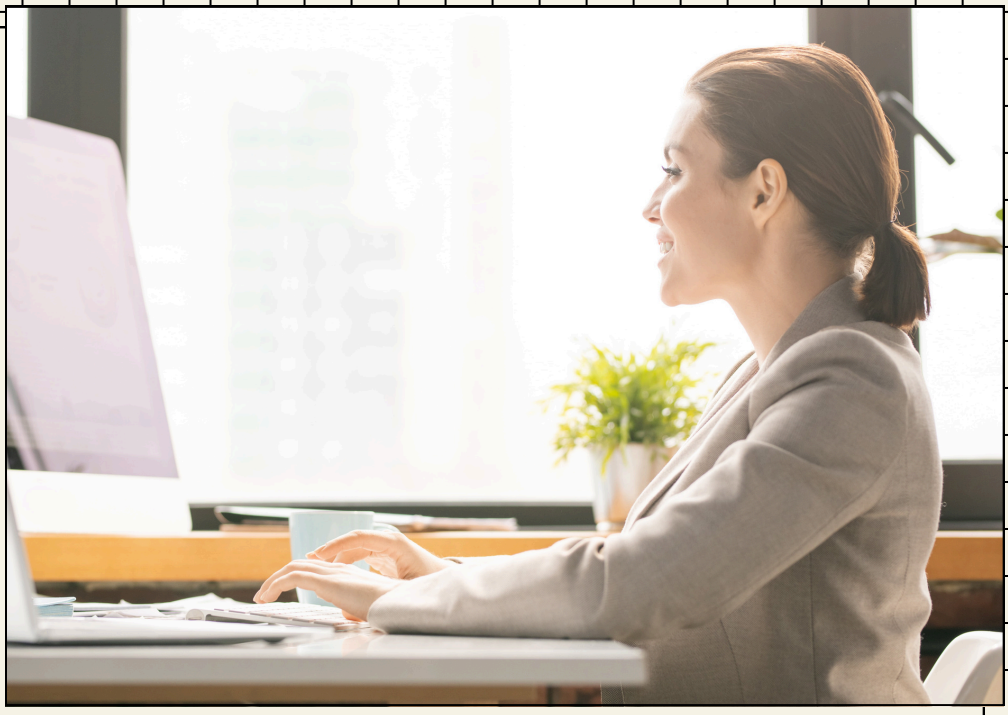
SYLLABUS AWS SOLUTIONS ARCHITECT



Earn your official certification!

DataScientest

THE PROGRAM

The training is divided into two parts. The first part focuses on discovering the range of services offered by AWS and getting familiar with the AWS platform. The second, more technical part, emphasizes the development of complex solutions using AWS services.

AWS

An AWS training program teaches you how to use Amazon's Cloud platform, which is widely used in Data Science and Machine Learning. AWS is one of the most popular Cloud platforms, adopted by many companies across industries that are now replacing their on-premises infrastructure with Cloud Computing.

Today, 95% of Fortune Global 500 companies use this technology. It enhances operational efficiency, reduces infrastructure costs, and provides a competitive edge in the market. Additionally, it can expand the skill set of professionals already in the workforce.

AWS Cloud Practitioner

This course will help you understand the fundamental concepts of AWS Cloud, enabling you to contribute to your organization's cloud initiatives. You will also explore the basic architectural principles, as well as key aspects such as security, support, and pricing.

Architecting on AWS

Through this course, learners will have the opportunity to explore the various architectural solutions that can run on AWS. You will be able to make architectural decisions in line with best practices and the principles recommended by AWS. By the end of this training, you will be prepared to take the official AWS Solutions Architect certification exam. You will also be capable of designing scalable infrastructure solutions that incorporate security, authentication, and authorization features with AWS.

AWS Solutions Architect
duration 28h

	Day 1	Day 2	Day 3	Day 4
9:00AM	Welcome Session	Welcome Session	Welcome Session	Welcome Session
9:30 AM 10:00 AM	Masterclass - Introduction to AWS - Cloud computing	Masterclass - Introduction to AWS Cloud -Overview of the Well-Architected Framework and the Benefits of Cloud	Masterclass - Exploring the AWS Network - Networking on AWS	Labs - Continuing with Automation - Caching
10:30 AM 11:00 AM	Masterclass - Global Infrastructure and Reliability -Networks -Guided Database Storage	Labs - Hands-on with the AWS Platform -Exploring AWS Services	Labs - Monitoring and Scaling - Infrastructure Automation -Deployment Automation	Masterclass - Creating Decoupled Architectures - Deployment of Serverless Applications
11:30 AM 12:00 AM	Lunch	Lunch	Lunch	Lunch
12:30 AM 1:00 PM 1:30 PM	Masterclass - Security - Monitoring and Analytics -Pricing and Support	Masterclass - Simplest Architectures -Adding a Compute Layer -Adding a Database Layer	Masterclass - Elasticity, High Availability, and Monitoring -Automation with CloudFormation, Systems Manager, and OpsWorks	Masterclass - Implementing a Backup Strategy
2:00 PM 2:30 PM 3:00 PM				Labs - Disaster Planning -Recovery Options
3:30 PM 4:00 PM	Masterclass - Migration and innovation - Transition to Cloud - Basic Concepts AWS Certified Cloud Practitioner	Labs - Hands-on with Amazon S3 and Amazon Glacier - Adding the EC2 Compute Service to the Architecture - Integrating Database Services: RDS and DynamoDB	Labs - Monitoring and Scaling -Infrastructure Automation -Deployment Automation	Quiz/ Practice
4:30 PM 5:00 PM	End of the day	End of the day	End of the day	Review of the Day end exam Preparation

Synchrone (video call with instructor)

Practical exercises (coached).

Others

AWS Solutions Architect

1 - Familiarization with the Cloud

Introduction to cloud AWS,
Getting Started with AWS Cloud

2 - Introduction to AWS Core Concepts

Exploring and Creating Services in AWS Cloud
Maintaining AWS Resources and Deploying Database Services
Securing the Infrastructure , Evaluating the Compliance and Security of Your Data ,Protecting Your Infrastructure
Support and Pricing

3 - Getting Started with AWS Architecture and First Applications

Presentation of AWS Well-Architected, introduction to the framework, and analysis of the benefits of the cloud, the first architectures, increasing complexity: compute layers, increasing complexity: database layers.

4 - Designing Network Architectures

Network in AWS (Amazon VPC, Subnets, Gateway…),
Networking in AWS (Network Connections, Load Balancing),
Elasticity, high availability, and monitoring.

5 - Improvement and Automation of Network Architectures

Automation with CloudFormation, Systems Manager, and OpsWorks, Creation of decoupled architectures, Deployment of Serverless applications, ECS microservices, Lambda, RTO/RPO implementation of a backup strategy.