

# Amazon Web Services – ARCH – Architecting on AWS

## Course: Architecting on AWS – ARCH

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### About this Course:

This immersive, advanced-level, three-day course covers all aspects of how to architect for the AWS Cloud. Covering topics from Architecting on AWS and Advanced Architecting on AWS, this course is intended to teach you how to design cloud architectures, from small-scale designs to large-scale, enterprise-level designs. Starting with the Well-Architected Framework, you will also learn important architecting information for AWS services. These include compute, storage, database, networking, security, monitoring, automation, optimization, benefits of decoupling applications and serverless, building for resilience, and understanding costs.

### Course Goals/Skills:

- Identify AWS architecting basic practices.
- Explore using the AWS management tools: The AWS Console, Command Line Interface (CLI), and CloudFormation in a lab environment.
- Examine the enforcement of accounts security using

policies.

- Identify the elements that build an elastic, secure, virtual network that includes private and public subnets.
- Practice building an AWS core networking infrastructure.
- Determine strategies for a layered security approach to Virtual Private Cloud (VPC) subnets.
- Identify strategies to select the appropriate compute resources based on business use-cases.
- Practice building a VPC and adding an Elastic Cloud Compute (EC2) instance in a lab environment.
- Practice installing an Amazon Relational Database Service (RDS) instance and an Application Load Balancer (ALB) in the VPC you created.
- Compare and contrast AWS storage products and services, based on business scenarios.
- Compare and contrast the different types of AWS database services based on business needs.
- Practice building a highly available, auto-scaling database layer in a lab.
- Explore the business value of AWS monitoring solutions.
- Identify and discuss AWS automation tools that will help you build, maintain and evolve your infrastructure.
- Discuss network peering, VPC endpoints, gateway, and routing solutions based on use-cases.
- Discuss hybrid networking configurations to extend and secure your infrastructure.
- Discuss the benefits of microservices as an effective decoupling strategy to power highly available applications at scale.
- Explore AWS container services for the rapid implementation of an infrastructure-agnostic, portable application environment.
- Identify the business and security benefits of AWS serverless services based on business examples.
- Practice building a serverless infrastructure in a lab environment.

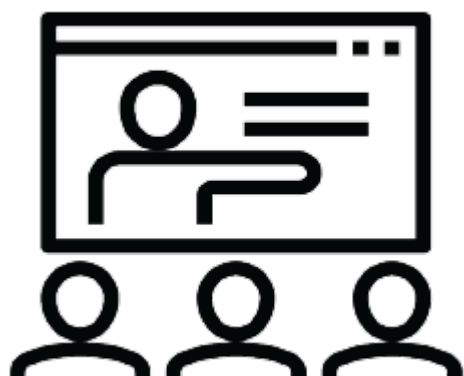
- Discuss the ways in which AWS edge services address latency and security.
  - Practice building a CloudFront deployment with an S3 backend in a lab environment.
  - Explore AWS backup, recovery solutions, and best practices to ensure resiliency and business continuity.
  - Build a highly available and secure cloud architecture based on a business problem, in a project-based facilitator-guided lab.
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## Audience:

This course is intended for solutions architects, solution-design engineers, developers seeking an understanding of AWS architecting, and individuals seeking the AWS Solutions Architect-Associate certification.

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## Course Format:





**Присъствен (Classroom)**  
Курс в Учебната ни зала  
или В Офис на Клиент



**Онлайн (Online/Virtual)**  
Курс във виртуална зала  
с инструктор

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## Course Language Option:

	
Български (Bulgarian)	Английски (English)

You can choose the language in which the training will be conducted – Bulgarian or English. All our instructors are fluent in English.

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## Student Guides:



The training materials are available in electronic format. They can be used online / offline on any device. Lifetime access.

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## Lab Environment:




Each student has their own lab environment where

the exercises are conducted, part of the course. You do not need to install software on a computer or special hardware requirements. Participants in a face-to-face format in our Training Center have an individual computer during the training.

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## At Course Completion:

	
Lifetime Access - Video Archive 24/7	Certificate of Course Completion

Lifetime access to a video archive with recording of each individual lecture.  
Official internationally recognized certificate for completed training course.

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## Course Duration:



- 3 working days (09:00 – 17:00)  
or
- 24 hours training (theory and practice) in non-working hours lasting 2 weeks  
Saturday and Sunday 10:00 – 14:00, 14:00 – 18:00, 18:00 – 22:00  
Monday and Wednesday 19:00 – 23:00  
Tuesday and Thursday 19:00 – 23:00

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## Payments:



An application for an invoice is accepted at the time of enrollment in the respective course.

An invoice is issued within 7 days of confirming the payment.

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## Next Class:



- There are no upcoming events.

For more information, use the contact format. We will contact you to confirm the data.

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## Prerequisites:

- AWS Cloud Practitioner Essentials, or
  - Working knowledge of distributed systems
  - Familiarity with general networking concepts
  - Familiarity with IP addressing
  - Working knowledge of multi-tier

architectures

- Familiarity with cloud computing concepts

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## **The course prepares for the following certification levels:**

- **AWS Certified Solutions Architect – Associate**
- **Exam Voucher Included**