Architecting on AWS

Kód kurzu: AWSARCH

Architecting on AWS is for solutions architects, solution-design engineers, and developers seeking an understanding of AWS architecting. In this course, you will learn to identify services and features to build resilient, secure and highly available IT solutions on the AWS Cloud. Architectural solutions differ depending on industry, types of applications, and business size. AWS Authorized Instructors emphasize best practices using the AWS Well-Architected Framework, and guide you through the process of designing optimal IT solutions, based on real-life scenarios. The modules focus on account security, networking, compute, storage, databases, monitoring, automation, containers, serverless architecture, edge services, and backup and recovery. At the end of the course, you will practice building a solution and apply what you have learned with confidence.

Pobočka	Dnů	Cena kurzu	ITB
Praha	3	24 990 Kč	0
Brno	3	24 990 Kč	0
Bratislava	3	1 450 €	0

Uvedené ceny jsou bez DPH.

Termíny kurzu

Datum	Dnů	Cena kurzu	Typ výuky	Jazyk výuky	Lokalita
14.09.2026	3	24 990 Kč	Online	EN	TD SYNNEX Czech - Online
14.09.2026	3	1 450 €	Online	EN	Online
21.10.2026	3	24 990 Kč	Online	CZ/SK	TD SYNNEX Czech - Online
21.10.2026	3	24 990 Kč	Prezenční	CZ/SK	TD SYNNEX Czech
21.10.2026	3	1 450 €	Online	CZ/SK	Online
27.10.2026	3	1 450 €	Prezenční	CZ/SK	Bratislava
04.11.2026	3	24 990 Kč	Online	EN	TD SYNNEX Czech - Online
04.11.2026	3	1 450 €	Online	EN	Online

Uvedené ceny jsou bez DPH.

Pro koho je kurz určen

- Solutions Architects
- Solution Design Engineers

Co Vás naučíme

- 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.

GOPAS Praha
Na Strži 2097/63
140 00 Praha 4 - Krč
Tel.: +420 226 201 390
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 530 513 590
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 902 903 132
info@gopas.sk

Copyright © 2026 GOPAS, a.s.,
All rights reserved

- 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 projectbased facilitator-guided lab.

Požadované vstupní znalosti

- 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

Studijní materiály

Amazon Web Services authorized e-book included.

Osnova kurzu

Note: course outline may vary slightly based on the regional location and/or language in which the class is delivered.

Day 1

Module 0: Introductions &Course Map review

- Welcome and course outcomes

Module 1: Architecting Fundamentals Review

- AWS Services and Infrastructure
- Infrastructure Models
- AWS API Tools
- Securing your infrastructure
- The Well-Architected Framework
- Hands-on lab: Explore Using the AWS API Tools to Deploy an EC2 Instance

Module 2: Account Security

- Security Principals
- Identity and Resource-Based Policies
- Account Federation
- Introduction to Managing Multiple Accounts

Module 3: Networking, Part 1

- IP Addressing
- Amazon Virtual Private Cloud (VPC), Patterns and Quotas

GOPAS Praha
Na Strži 2097/63
140 00 Praha 4 - Krč
Tel.: +420 226 201 390
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 530 513 590
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 902 903 132
info@gopas.sk

Copyright © 2026 GOPAS, a.s.,
All rights reserved

- Routing
- Internet Access
- Network Access Control Lists (NACLs)
- Security Groups

Module 4: Compute

- Amazon Elastic Cloud Compute (EC2)
- EC2 Instances and Instance Selection
- High Performance Computing on AWS
- Lambda and EC2, When to Use Which
- Hands-On Lab: Build Your Amazon VPC Infrastructure

Day 2

Module 5: Storage

- Shared File Systems
- Shared EBS Volumes
- Amazon S3, Security, Versioning and Storage Classes
- Data Migration Tools

Module 6: Database Services

- AWS Database Solutions
- Amazon Relational Database Services (RDS)
- DynamoDB, Features and Use Cases
- Redshift, Features, Use Cases and Comparison with RDS
- Scaling
- Caching and Migrating Data
- Hands-on Lab: Create a Database Layer in Your Amazon VPC Infrastructure

Module 7: Monitoring and Scaling

- Monitoring: CloudWatch, CloudTrail, and VPC Flow Logs
- Invoking Events
- Elastic Load Balancing
- Auto Scaling Options and Monitoring CostHands-on Lab: Configure High Availability in Your Amazon VPC

Module 8: Automation

- CloudFormation
- AWS Systems Manager

Module 9: Containers

- Microservices
- Monitoring Microservices with X-Ray
- Containers

Day 3

Module 10: Networking Part 2

- VPC Peering &Endpoints
- Transit Gateway
- Hybrid Networking
- Route 53

Module 11: Serverless Architecture

- Amazon API Gateway
- Amazon SQS, Amazon SNS
- Amazon Kinesis Data Streams &Kinesis Firehose
- Step Functions

GOPAS Praha
Na Strži 2097/63
140 00 Praha 4 - Krč
Tel.: +420 226 201 390
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 530 513 590
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 902 903 132
info@gopas.sk

Copyright © 2026 GOPAS, a.s.,
All rights reserved

- Compare Amazon SQS to Amazon MQ
- Hands-on Lab: Build a Serverless Architecture

Module 12: Edge Services

- Amazon CloudFront
- AWS Web Application Firewall (WAF), DDoS and Firewall Manager
- Compare AWS Global Accelerator and Amazon CloudFront
- AWS Outposts
- Hands-On Lab: Configure an Amazon CloudFront Distribution with an Amazon S3 Origin

Module 13: Backup and Recovery

- Planning for Disaster Recovery
- AWS Backup
- Recovery Strategies

GOPAS Praha
Na Strži 2097/63
140 00 Praha 4 - Krč
Tel.: +420 226 201 390
info@gopas.cz

GOPAS Brno
Nové sady 996/25
602 00 Brno
Tel.: +420 530 513 590
info@gopas.cz

GOPAS Bratislava
Dr. Vladimíra Clementisa 10
Bratislava, 821 02
Tel.: +421 902 903 132
info@gopas.sk

Copyright © 2026 GOPAS, a.s.,
All rights reserved