

kod szkolenia: AWS-ADV-DEV / PL AA 3d

Advanced Developing on AWS

The Advanced Developing on AWS course uses the real-world scenario of taking a legacy, on-premises monolithic application and refactoring it into a serverless microservices architecture. This three-day advanced course covers advanced development topics such as architecting for a cloud-native environment; deconstructing on-premises, legacy applications and repackaging them into cloud-based, cloud native architectures; and applying the tenets of the Twelve-Factor Application methodology.





Przeznaczenie szkolenia

This course is intended for experienced software developers who are already familiar with AWS services.



Korzyści wynikające z ukończenia szkolenia

In this course, you will:

- Analyze a monolithic application architecture to determine logical or programmatic break points where the application can be broken up across different AWS services
- Apply Twelve-Factor Application manifesto concepts and steps while migrating from a monolithic architecture
- Recommend the appropriate AWS services to develop a microservices based cloud-native application
- Use the AWS API, CLI, and SDKs to monitor and manage AWS services
- Migrate a monolithic application to a microservices application using the 6 Rs of migration
- Explain the SysOps and DevOps interdependencies necessary to deploy a microservices application in AWS





Oczekiwane przygotowanie słuchaczy

We recommend that attendees of this course have:

- In-depth knowledge of at least one high-level programming language
- Working knowledge of core AWS services and public cloud implementation
- Completion of the Developing on AWS classroom training, and then a minimum of 6 months of application of those concepts in a real world environment



Język szkolenia

· Course: polish



Czas trwania

3 dni / 21 godzin

Agenda szkolenia

Day 1

Module 1: The cloud journey

- Common off-cloud architecture
- Introduction to Cloud Air
- Monolithic architecture
- · Migration to the cloud
- Guardrails
- The six R's of migration
- The Twelve-Factor Application Methodology
- · Architectural styles and patterns
- Overview of AWS Services
- Interfacing with AWS Services
- Authentication
- Infrastructure as code and Elastic Beanstalk
- Demonstration: Walk through creating base infrastructure with AWS CloudFormation in the AWS console



- Hands-on lab 1: Deploy your monolith application using AWS Elastic Beanstalk
- Module 2: Gaining Agility
- DevOps
- CI/CD
- Application configuration
- Secrets management
- CI/CD Services in AWS
- Demonstration: Demo AWS Secrets Manager

Day 2

Module 5: Monolith to MicroServices

- Microservices
- Serverless
- · A look at Cloud Air
- Microservices using Lambda and API Gateway
- SAM
- Strangling the Monolith
- Hands-on lab: Using AWS Lambda to develop microservices

Module 6: Polyglot Persistence & Distributed Complexity

- Polyglot persistence
- DynamoDB best practices
- · Distributed complexity
- Step functions

Day 3

Module 5: Resilience and Scale

- Decentralized data stores
- Amazon SQS
- Amazon SNS
- Amazon Kinesis Streams
- AWS IoT Message Broker
- · Serverless event bus
- Event sourcing and CQRS
- · Designing for resilience in the cloud
- Hands-on lab: Exploring the AWS messaging options

Module 6: Security and Observability

- Serverless Compute with AWS Lambda
- Authentication with Amazon Cognito
- · Debugging and traceability
- Hands-on lab: Developing microservices on AWS
- Hands-on lab 8: Automating deployments with Cloud Formation