DEVOPS ENGINEERING ON AWS

Kategoria	Czas trwania	Termin	Cena
Cloud	24h / 3 dni	ustalamy indywidualnie	ustalamy indywidualnie

Program szkolenia:

Poniżej przedstawiamy przykładowy program szkolenia, który może zostać zmodyfikowany zgodnie z oczekiwaniami oraz poziomem grupy szkoleniowej. Przed przygotowaniem docelowego programu szkolenia, przeprowadzamy rozmowę techniczną, w której bierze udział trener oraz osoba techniczna lub cały zespół developerów reprezentujący klienta, w celu ustalenia szczegółów szkolenia.

Dzień 1 [8h]

Module 0: Course overview

- Course objective
- Suggested prerequisites
- Course overview breakdown

Module 1: Introduction to DevOps

- What is DevOps?
- The Amazon journey to DevOps
- Foundations for DevOp

Module 2: Infrastructure automation

- Introduction to Infrastructure Automation
- Diving into the AWS CloudFormation template
- Modifying an AWS CloudFormation template
- Demonstration: AWS CloudFormation template structure,parameters, stacks, updates, importing resources, and drift detection

Dzień 1 [8h] c.d.

Module 3: AWS toolkits

- Configuring the AWS CLI
- AWS Software Development Kits (AWS SDKs)
- AWS SAM CLI
- AWS Cloud Development Kit (AWS CDK)
- AWS Cloud9
- Demonstration: AWS CLI and AWS CDK
- Hands-on lab: Using AWS CloudFormation to provision and manage a basic infrastructure

Module 4: Continuous integration and continuous delivery (CI/CD) with development tools

- CI/CD Pipeline and Dev Tools
- Demonstration: CI/CD pipeline displaying some actions from AWS CodeCommit, AWS CodeBuild, AWS CodeDeploy and AWS CodePipeline
- Hands-on lab: Deploying an application to an EC2 fleet using AWS CodeDeploy

Dzień 2 [8h]

Module 5: Continuous integration and continuous delivery (CI/CD) with development tools (continued)

- AWS CodePipeline
- Demonstration: AWS integration with Jenkins
- Hands-on lab: Automating code deployments using AWS CodePipeline

Module 6: Introduction to Microservices

- Introduction to Microservices

Module 7: DevOps and containers

- Deploying applications with Docker
- Amazon Elastic Container Service and AWS Fargate
- Amazon Elastic Container Registry and Amazon Elastic Kubernetes service
- Demonstration: CI/CD pipeline deployment in a containerized application

Dzień 2 [8h] c.d.

Module 8: DevOps and serverless computing

- AWS Lambda and AWS Fargate

- AWS Serverless Application Repository and AWS SAM

- AWS Step Functions

- Demonstration: AWS Lambda and characteristics

- Demonstration: AWS SAM quick start in AWS Cloud9

- Hands-on lab: Deploying a serverless application using AWSServerless Application Model (AWS SAM) and a CI/CD Pipeline

Module 9: Deployment strategies

- Continuous Deployment

- Deployments with AWS Services

Module 10: Automated testing

- Introduction to testing

- Tests: Unit, integration, fault tolerance, load, and synthetic

- Product and service integrations

Dzień 3 [8h]

Module 11: Security automation

- Introduction to DevSecOps

- Security of the Pipeline

- Security in the Pipeline

- Threat Detection Tools

- Demonstration: AWS Security Hub, Amazon GuardDuty, AWS Config,and Amazon Inspector

Dzień 3 [8h]

Module 12: Configuration management

- Introduction to the configuration management process
- AWS services and tooling for configuration management
- Hands-on lab: Performing blue/green deployments with CI/CD pipelines and Amazon Elastic Container Service (Amazon ECS) Module 12: Observability
- Introduction to observability
- AWS tools to assist with observability
- Hands-on lab: Using AWS DevOps tools for CI/CD pipeline automations

Module 14: Reference architecture (Optional module)

- Reference architectures Module 14: Course summary
- Components of DevOps practice
- CI/CD pipeline review
- AWS Certification

KONTAKT

Jesteś zainteresowany kursem wieczorowym
lub dedykowanym szkoleniem dla Twojej firmy?
Skontaktuj się z Przemkiem!

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