CloudCamp
4SMEs

UpSkill in Cloud.

Cloud Training Program 2024

High-skilled SMEs employees / DevOps Engineer

Pathway Syllabus

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Pathway Overview

This learning path will focus on the job-role skills needed to drive digital transformation at a business. It will address both knowledge and implementation, with the final goal being that they will be able to assist the SME to independently migrate to the Cloud.

Learners in this group are skilled workers and experts at SMEs.

They have significant work experience, but may not have completed a professional certification. They are primarily interested in upskilling to meet the current and future needs of their organisation.

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Courses Included

Pre-test to determine the level of knowledge before training

DevOps Engeneering on AWS

Post-test to evaluate level of learning

Exam Readiness Package

Certification exam

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What will you learn

Upon completing this level, learners should be able to:

- Apply technical skills and knowledge to excel in their technical job roles and drive digital transformation.

- Implement DevOps best practices at organisations. They will also explore DevOps tools and practices such as continuous integration and deployment (CI/CD), automated testing, and infrastructure as code.

Pathway Courses

1. Pre-test to determine the level of knowledge before training:

- Key to be able to offer the right pathway for the right needs and experience of those interested.

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Pathway Courses

2. DevOps Engineering on AWS:

- List the advantages of small DevOps teams
- List the roles and responsibilities of the members of a typical small DevOps team
- Leverage AWS Cloud9 to write, run and debug your code as well as share your cloud-based IDE with your dev team.
- Build continuous integration/continuous delivery (CI/CD) pipelines including testing and security
- Develop Git branching strategies and integrate with CI/CD pipeline for various environments
- Use AWS CloudFormation to deploy development, test, and production environments for a software development project
- Design and implement an infrastructure on AWS that supports DevOps development projects
- Build a CI/CD pipeline for AWS CloudFormation templates
- Establish collaboration by bringing together the workflows and responsibilities of development and operations
- Host secure, highly scalable private Git repositories with AWS CodeCommit
- Leverage Amazon Elastic Container Registry (Amazon ECR) to securely store Docker container images and integrate with AWS CodeBuild and Amazon Elastic Container Service (Amazon ECS).
- Automate build, test, and packaging code with AWS CodeBuild
- Integrate security in the CI/CD pipelines tools and services
- Implement common deployment strategies such as "all at once," "rolling," and "blue/green"
- Automate software deployments to Amazon Elastic Compute Cloud (Amazon EC2), on-premises computes, AWS ECS (Amazon EC2 /AWS Fargate), and AWS Lambda with AWS CodeDeploy
- Automate your release pipelines (build, test, deploy) with AWS CodePipeline
- Monitor an application and environment using AWS tools & tech

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Pathway Courses

6. Post-test: Evaluate the level of learning

- The pre-test, jointly with the post-test, is useful to validate the effectiveness of the training from the learner's perspective.

7. Exam Readiness Package

- Test knowledge using the pre-certification exam,
- Review and discuss the results of the pre-certification exam,
- Evaluate your strengths and weaknesses based on exam topic domains,
- Ask questions about the exam,
- Create a study plan to prepare for the exam, and
- Identify effective test-taking strategies that can be used to answer exam questions.

8. Certification Exam

- The Certification Exams will be designed and developed specifically for the EU CloudCamp4SMEs program and will draw on questions that cover from the courses.

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Learning Platform:
https://cloudcamp4sme.live

The courses are done in <u>our digital learning platform provided by CloudCamp4SMEs partners</u>.

Certifications

Upon successful completion of the pathways and the accompanying Certification Exam, CloudCamp4SMEs will provide alumni with a digital certification to validate their expertise and accomplishments in the realm of cloud technologies and solutions in the courses and pathway completed.

**High-skilled SMEs Employees
Cloud Architects Certification**

**CloudCamp
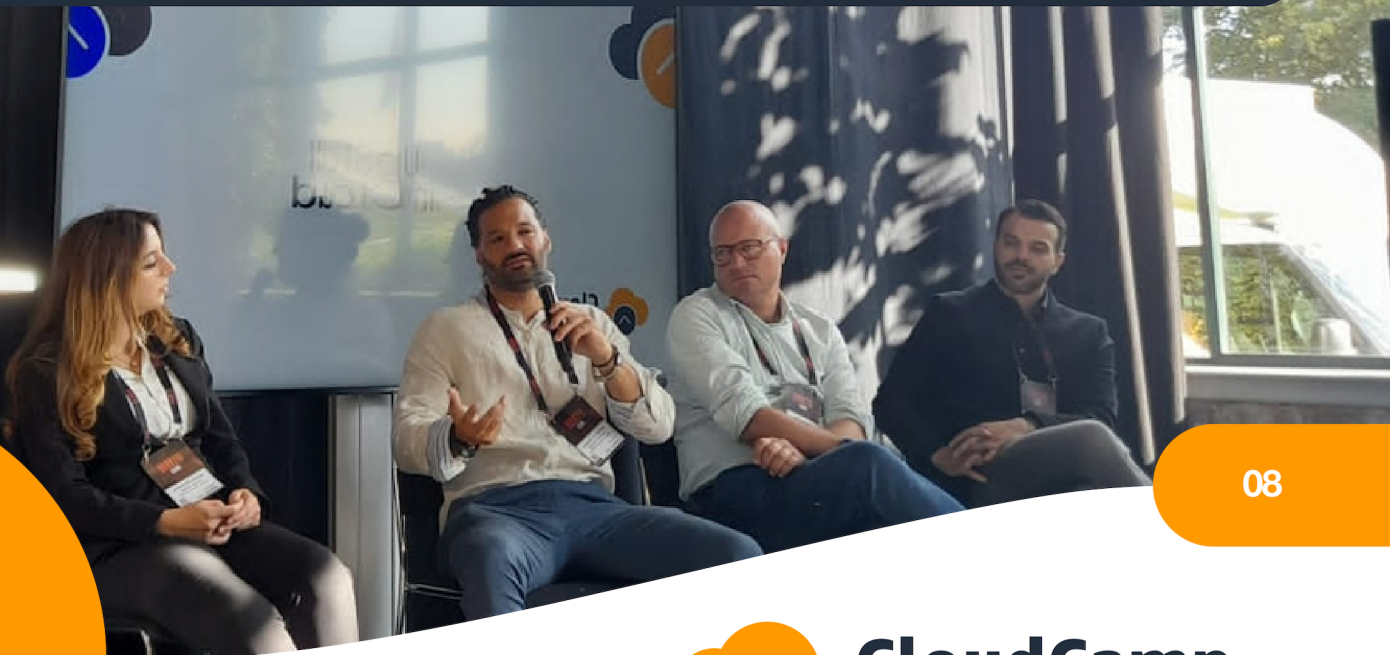4SMEs**

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Testimonials

We've just started and this is our first cohort but our training partners want to share something with you!

"Cloud, is not a tech option, it is a business must have!"

Magnus Histrup
AWS Business Dev Manager Nordics

Launch Event
Sept23 / Copenhagen

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in Cloud.

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