

Cloud Developer Essentials

Duration: 5 Days Course Code: GKESSA2

Overview:

Nederlands:

Deze training is ontworpen voor beginners en ontrafelt de fundamentele principes van cloud computing, waarbij de architectuur, services en implementatiemodellen aan bod komen. Duik in de uitgebreide wereld van cloud computing met onze uitgebreide Cloud Developer Essentials training.

De inhoud van deze Cloud Developer Essentials training is vendor neutraal, waarbij AWS in de training wordt gebruikt voor de primaire voorbeelden (praktische demonstraties en oefeningen). De training hanteert de cursus een cloud-agnostische benadering, zodat de vaardigheden en kennis die je opdoet toepasbaar zijn op verschillende cloudplatformen.

Dit trainingsprogramma is onder de vleugels van Digital Europe ontwikkeld als onderdeel van een consortium met de naam ESSA. ESSA is onderdeel van het Erasmus+ programma van de Europese Commissie en streeft ernaar om opleidingen te ontwikkelen die perfect aansluiten op de behoeften van moderne organisaties in de software services-sector.

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English:

Designed for beginners, this training demystifies the fundamental principles of cloud computing, covering its architecture, services, and deployment models. Dive into the expansive world of cloud computing with our comprehensive Cloud Developer Essentials training.

The content of this Cloud Developer Essentials training is vendor neutral, with AWS being used in the training for the primary examples (practical demonstrations and exercises). The training takes a cloud agnostic approach to the course, so the skills and knowledge you gain will be applicable across different cloud platforms.

This training program was developed under the wings of Digital Europe as part of a consortium called ESSA. ESSA is part of the European Commission's Erasmus+ program and strives to develop training programs that perfectly match the needs of modern organizations in the software services sector.

Target Audience:

This course is ideal for: Individuals new to cloud computing seeking a comprehensive foundation IT professionals and developers looking to understand cloud technologies beyond a single vendor Those interested in gaining a broad understanding of cloud computing principles and practices.

Objectives:

- The Cloud Developer Essentials course offers an in-depth exploration of cloud computing, intended to equip participants with a solid understanding of cloud technologies' core concepts and practical applications. Through a balanced blend of theory and hands-on experience, this course prepares you for a versatile future in the cloud, regardless of the specific platforms you might work with.
- This course offers:
 - A solid foundation in cloud computing concepts, applicable across all major cloud platforms.
 - Practical skills in using AWS for cloud computing demonstrations, with the understanding to apply these concepts to other cloud environments.
 - An understanding of the importance of cloud security, storage, computing, and networking.
 - Insights into advanced cloud computing topics, preparing you for further exploration and specialization in the cloud domain.

Prerequisites:

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Content:

Module Highlights:

Introduction to Cloud Computing: Start with the basics of cloud computing, understanding its significance, evolution, and the core services it offers. Learn about the global infrastructure that supports cloud platforms and delve into various service categories and pricing models.

Security in the Cloud: Unpack the critical aspect of cloud security, including the shared responsibility model, data protection strategies, compliance standards, and an introduction to Identity and Access Management (IAM).

Storage Services: Explore the different types of cloud storage (Object, Block, and File) and understand their uses, benefits, and data migration tools. Learn about hybrid cloud storage solutions and strategies for disaster recovery.

Compute in the Cloud: Examine AWS's compute services as a case study to understand servers, containers, serverless computing, and edge computing. Discuss the management of costs and computing capacity.

Networking in the Cloud: Gain insights into the essentials of cloud networking, including setting up a Virtual Private Cloud (VPC), DNS management, and the implementation of Elastic Load Balancing and network security practices.

Databases in the Cloud: Understand the range of database services available in the cloud, from relational database services like RDS to NoSQL databases and caching solutions. Learn about database migration tools and how to select the right database service for your needs.

Monitoring and Logging: Discover the importance of monitoring and logging in maintaining the health and performance of cloud infrastructure. Learn to use tools like CloudWatch for monitoring resources and applications.

Protecting Infrastructure: Delve into best practices for protecting cloud infrastructure, including the use of application firewalls, DDoS protection, and backup solutions.

Advanced Topics: The course also covers advanced topics such as DevOps practices, microservices architecture, serverless computing, continuous integration and deployment (CI/CD), advanced cloud security concepts, cloud-native applications, emerging technologies, and cloud data analytics and big data.

Further Information:

For More information, or to book your course, please call us on 0800/84.009

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