
Cloud Technology Associate

Duration: 3 Days Course Code: CTA

Overview:

Nederlands:

De cursus Cloud Technology Associate (CTA) geeft uitleg over wat cloud computing en virtualisatie precies inhoudt en legt de voordelen en toepassingen ervan uit. In de cursus wordt de cloud technologie vendor neutraal uitgelegd. Een lab-activiteit is inbegrepen die u helpt om de cloud ook op een praktische manier te begrijpen. In de cursus komen de nieuwste cloudtechnologieën en -toepassingen aan de orde. Deze cursus is uitermate geschikt voor professionals die overwegen om cloud computing toe te passen in hun organisatie.

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English:

The Cloud Technology Associate (CTA) course defines cloud computing and virtualization, and explains the benefits and applications. Technology is explained in a vendor neutral way. A lab activity is included which enables participants to understand the cloud in a practical manner. Besides, the course is contemporary with the inclusion of latest cloud technologies and applications. The course is an excellent way to prepare professionals who are considering cloud computing in their organizations.

Target Audience:

Individuals who are looking to gain an understanding of cloud computing and virtualisation.

Objectives:

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| <ul style="list-style-type: none">■ After completing this course you should be able to:■ Identify the fundamental concepts of cloud computing and virtualization including business benefits of cloud computing and virtualization.■ Identify the technical challenges and the mitigation measures involved in cloud computing and virtualization.■ Identify the characteristics of cloud applications. | <ul style="list-style-type: none">■ Identify the steps to successfully adopt cloud services.■ Understand cloud security and identify the risks involved in cloud computing as well as the risk mitigation measures.■ Understand the factors involved for implementation of different cloud models. |
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Prerequisites:

There are no formal prerequisites; however, it is recommended that participants have:

- 6+ months of experience in Internet/web technologies
- Some basic knowledge of storage and network technologies (preferred)

Testing and Certification

Recommended as preparation for the following exam:

- **EXIN CCC_CTA** - EXIN CCC Cloud Technology Associate certification
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Content:

Module 1: Course Introduction

Module 2: Introduction to Cloud Services Model

- Review Traditional Computing Challenges and Concerns
- Cloud Computing Concepts, History, and Definitions (Characteristics, Service Models, and Deployment Models)
- Activity: Cloud Services Values
- Cloud Computing Benefits and Challenges, Best and Least Suited Application Profiles and APIs
- Activity: Case Study Assignment
- Cloud Reference Architecture and Common Terminologies
- Activity: Comparison of On-Premise and Cloud-Based Cost Analysis

Module 3: Introduction to Virtualization: The Backbone Technology of Cloud Computing

- Virtualization: Definition, Concepts, History, and Relationship to Cloud Computing
- Virtualization: Benefits, Challenges, Risks, and Suitability to Organizations
- Hypervisor: Role and Purpose in Virtualization and the Various Types of Hypervisor
- Virtualization: Terminologies/Features
- Activity: High Availability Calculation
- Virtualization: Different Types of Virtualization
- Activity: Demo: Create, Manage, and Access Virtual Resources in the Cloud

Module 4: Overview of Cloud Technologies and Applications

- Bring Your Own Device (BYOD) and MDM + EMM
- Software Defined Networking (SDN)
- Network Functions Virtualization (NFV)
- Big Data Analytics, NoSQL, NewSQL, and Internet of Things (IoT)
- Activity: Comparison of RDBMS, NoSQL, and NewSQL Activity Time:
- Case Study Assignment

Module 5: Cloud Security, Risk, Compliance and Governance

- Security, Risk, Compliance and Governance Definitions
- Impact of Cloud Essential Characteristics
- Activity: Impact of Cloud Essential Characteristics
- Impact of Cloud Service Models
- Impact of Cloud Deployment Models
- Activity: Impact of Cloud Deployment Models
- Best Practices and General Cloud Security Recommendations

Module 6: Preparing for Cloud Adoption

- Cloud Strategy and Roadmap Preparation
- Solution Architectures: For Various Services, Deployment Models, and Organizational Capabilities
- Cloud Service Provider, SLA, and Cloud Migration
- Activity: Cloud Adoption Strategy
- Activity: Case Study Assignment

Module 7: Cloud Service Management

- CSM Overview: Definition, Architecture, Lifecycle, Actors
- CSM: Business Support
- CSM: Provisioning and Configuration
- CSM: Portability and Interoperability
- Cloud Management Platforms
- Activity: Identify Cloud Service Management Features of an Organization
- Activity: Case Study Assignment

Further Information:

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

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www.globalknowledge.com/en-be/