



Cloud Computing Fundamentals

London - Premier inn Victoria

16-12-2024

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Course code: IT257 From: 16-12-2024 Venue: London - Premier inn Victoria Course Fees: 4890 £

Introduction

Welcome to "Cloud Computing Fundamentals," a meticulously crafted training program designed to provide participants with a thorough understanding of cloud technologies. In today's digital era, cloud computing has revolutionized the way organizations manage and deploy IT resources, offering unparalleled scalability, flexibility, and cost-efficiency. This course aims to demystify cloud computing, making it accessible to IT professionals and newcomers alike.

Over the next five days, you will delve into the core concepts of cloud computing, exploring various service models such as IaaS, PaaS, and SaaS, along with deployment models including public, private, and hybrid clouds. You will gain insights into the benefits and challenges associated with cloud adoption, learn about leading cloud service providers like AWS, Azure, and Google Cloud, and understand essential cloud security practices.

The course is structured to provide a balanced mix of theoretical knowledge and practical experience. Through hands-on labs and real-world examples, you will learn to navigate cloud environments, manage cloud resources, and implement best practices for cloud security and cost management. By the end of this course, you will have a solid foundation in cloud computing, preparing you for further specialization and professional certifications.

Course Objectives of Cloud Computing Fundamentals

Upon completing this program, participants will be able to:

- Understand the fundamental concepts and terminology of cloud computing.
- Identify and differentiate between various cloud service and deployment models.
- Navigate and utilize major cloud service platforms (AWS, Azure, Google Cloud).
- Implement basic cloud security measures and best practices.
- Manage and optimize cloud resources and costs effectively.

Course Methodology of Cloud Computing Fundamentals

- Lectures and Expert Insights: Leading industry experts will share their insights and best practices.
- Case Studies: Analyze real-world talent acquisition challenges and solutions.
- Group Discussions: Engage in meaningful discussions and share experiences with peers.
- Role-Playing and Simulations: Practice recruitment scenarios to enhance skills.
- Hands-on Workshops: Gain practical experience in using recruitment tools and techniques.

Organizational Impact of Cloud Computing Fundamentals

This training program will have a positive impact on organizations by:

- **Enhanced Efficiency:** Staff will be equipped with the knowledge to leverage cloud services, leading to streamlined operations and improved productivity.
- **Cost Savings:** Understanding cloud cost management will help in optimizing resource usage and reducing overall IT expenditures.
- **Scalability:** Employees will be capable of scaling IT resources dynamically to meet organizational demands.
- **Security Improvements:** A solid grasp of cloud security principles will help in safeguarding organizational data and infrastructure.
- **Innovation:** Empowered with cloud knowledge, employees can drive innovation and digital transformation within the organization.

Personal Impact of Cloud Computing Fundamentals

Participants will experience personal growth and development, including:

- **Skill Enhancement:** Participants will gain valuable technical skills in cloud computing applicable to various IT roles.
- **Career Advancement:** Knowledge of cloud computing can open doors to advanced certifications and career opportunities in a rapidly growing field.
- **Confidence Building:** Hands-on practice and theoretical understanding will boost participants' confidence in managing cloud environments.
- **Problem-Solving:** Improved problem-solving skills related to cloud deployment and management will be developed.
- **Professional Growth:** Continuous learning and development in cloud technologies will contribute to overall professional growth and adaptability.

Who Should Attend

This training program is ideal for:

- **IT Professionals:** Those new to cloud computing or seeking to solidify their foundational knowledge.
- **System Administrators:** Individuals looking to broaden their expertise in managing cloud environments.
- **Developers:** Software developers wanting to understand the deployment and management of applications in the cloud.
- **Students:** Those studying IT or computer science seeking practical cloud computing knowledge.

- Business Leaders: Managers and decision-makers looking to understand the strategic benefits of cloud adoption.

Course Outlines

Day 1

Introduction to Cloud Computing

- Welcome and course overview
- Introduction to cloud computing: Definitions and key concepts
- The evolution of cloud computing
- Cloud computing benefits and challenges
- Cloud service models: IaaS, PaaS, SaaS
- Cloud deployment models: Public, private, hybrid, and multi-cloud
- Overview of leading cloud service providers: AWS, Azure, Google Cloud

Day 2

Cloud Service Models and Platforms

- In-depth look at Infrastructure as a Service (IaaS)
- Platform as a Service (PaaS) and its use cases
- Software as a Service (SaaS) and popular applications
- Navigating AWS: Key services and features
- Introduction to Microsoft Azure
- Overview of Google Cloud Platform (GCP)

Day 3

Cloud Security and Compliance

- Understanding cloud security fundamentals
- Shared responsibility model
- Key security services: IAM, encryption, and network security
- Cloud compliance and regulatory considerations

- Introduction to cloud security best practices
- Case studies of cloud security incidents and lessons learned

Day 4

Managing and Optimizing Cloud Resources

- Cloud resource management: Instances, storage, and networking
- Introduction to cloud automation and orchestration tools
- Monitoring and optimizing cloud performance
- Cost management and optimization strategies

Day 5

Hands-On Practice and Capstone Project

- Advanced cloud services: Serverless computing, containerization, and Kubernetes
- Real-world cloud deployment scenarios and best practices
- Capstone project: Designing and implementing a cloud solution
- Course review and Q&A