Global Horizon
TRAINING CENTER

Training Course:

Introduction to Microservices Architecture

12 - 16 May 2025
London (UK)
Landmark Office Space - Oxford Street

Training Course code: SC235222 From: 12 - 16 May 2025 Venue: London (UK) - Landmark Office Space - Oxford Street
Training Course Fees: 5775 Euro

Introduction:

The "Introduction to Microservices Architecture" training program provides participants with a comprehensive understanding of the concepts, principles, and benefits of microservices architecture. This program is designed to equip individuals with the knowledge and skills required to design, develop, and manage microservices-based systems effectively.

Target Audience:

This program is suitable for:

- Software Developers

- System Architects

- DevOps Engineers

- IT Managers

- Project Managers

- Technical Leads

- Anyone interested in modern software architecture concepts

Objectives:

Upon completing this program, participants will be able to:

- Define and explain microservices architecture principles and concepts.

- Understand the advantages and challenges of microservices.

- Design and implement microservices-based systems.

- Utilize containerization and orchestration technologies like Docker and Kubernetes.

- Establish effective communication and coordination between microservices.

- Monitor, test, and troubleshoot microservices applications.

- Apply best practices for security, scalability, and resilience in microservices.

Outlines:

Day 1:

Introduction to Microservices Architecture

- What are Microservices?

- Comparing Microservices with Monolithic Architecture

- Key Principles of Microservices

- Advantages and Challenges

- Use Cases and Real-world Examples

Day 2:

Microservices Design and Development

- Designing Microservices

- Decomposition of Monolithic Applications

- Microservices Communication Patterns

- Containerization with Docker

- Hands-on: Creating Microservices with Docker

Day 3:

Microservices Orchestration with Kubernetes

- Introduction to Kubernetes

- Deploying Microservices on Kubernetes

- Scaling Microservices

- Service Discovery and Load Balancing

- Hands-on: Deploying Microservices with Kubernetes

Day 4:

Microservices Communication and Coordination

- API Gateways

- Asynchronous Communication

- Event-Driven Architectures

- Synchronous and Asynchronous Patterns

- Hands-on: Implementing Communication Patterns

Day 5:

Microservices Monitoring, Testing, and Best Practices

- Monitoring and Logging

- Testing Microservices

- Security in Microservices

- Resilience and Fault Tolerance

- Best Practices and Common Pitfalls

- Case Studies and Q&A

Registration form on the Training Course:
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