Introduction to Microservices Architecture Training

Duration: **2 Day**

BILGINC IT Academy
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This Microservices training course explains the benefits of microservices architecture, and provides hands-on experience in the tools most popular for designing, building, monitoring, and maintaining microservices.

Who Should Attend

- The technical training has been developed for an audience of experienced programmers, developers, software engineers, and DevOps practitioners.

What You Will Learn

- Identify the characteristics of popular microservices, and understand the design differences
- Decompose a monolithic application on a single server into a containerized application on multiple cloud instances
- Build a simple single-purpose serverless application
- Expose an Application Program Interface for the application
- Review various approaches to infrastructure used in deploying microservices
- Monitor and maintain microservices in large ecosystems and in the cloud

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Training Outline

Chapter 1: The Emergence of Microservices Architecture

- Explore the ideal software development practice
- Learn how a fine-grained Service-Oriented Architecture (SOA) can help to achieve the ideal
- Learn how Microservices attempts to achieve the ideal

Chapter 2: Microservice Design Principles

- Designing small microservices
- Designing independent microservices
- Designing resilient microservices

Chapter 3: Integrating Microservices

- Understand design goals when integrating microservices
- Explore effective message formats and lightweight inter-service communication approaches
- Review the pros and cons of various service communication patterns

Chapter 4: Microservice Technologies

- Learn about popular technologies that enable the development, deployment, and support of microservices

Chapter 5: Decomposing the Monolith

- Understand monolithic decomposition as an approach towards application modernization
- Review successful decomposition patterns
- Understand helpful practices when decomposing a monolithic application

Chapter 6: Deploying and Maintaining Microservices

- Explore the intersection of DevOps and microservices
- Learn to leverage virtual, cloud, and containerized environments for microservice deployment
- Discover how to monitor a microservices environment and take appropriate action to enable scaling or react to system faults