Microservices Architecture Training

Duration: **3 Day**

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The phrase monolithic architecture is sometimes used to describe this large and unwieldy software architecture style, and microservices architecture is the solution to avoid a monolith-type style.

Prerequisites

JAVA, Software Architecture, Software Development

Who Should Attend

This course is for any developers who want to make the shift away from monolithic architecture.

What You Will Learn

You will learn microservices architecture design principles to develop software that is easy to change and deploy, and lets us make software architecture upon small components that are each individually scalable.

- 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.

Training Outline

Microservices architecture is a better way of implementing a service oriented architecture. After years of varying interpretations of a service oriented architecture, microservices is the conclusive design which provides all the advantages of the service oriented architecture approach. This course introduces microservices, discusses design, lists technology considerations, and highlights how to move forwards with microservices.

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

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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

Enable the development, deployment, and support of microservices using popular Technologies

Chapter 5: Decomposing the Monolith

Using monolithic decomposition as an approach toward application modernization

Review successful decomposition patterns

Decompose a monolithic application using helpful practices

Chapter 6: Deploying and Maintaining Microservices

Explore the intersection of DevOps and microservices

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