Micro services Basics & Cloud Native Concepts

Lesson 00: Micro Service and Cloud Native

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People matter, results count.

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Course Goals and Non Goals

➢Course Goals
- Undertanding of Micro services
- What is Monolithic architecture
- How Microservice are different from Monolithic
- Understanding the Pros and Cons of Microservices
- Understanding the Cloud concept
- To know the requirement of cloud Native approach

➢Course Non Goals
- Developing Micro service applications

3

Pre-requisites

Understanding of layered Architecture
Understanding of Service architecture
Distributed models
Basic knowledge on Cloud

Intended Audience

Developers new to Java Cloud technology

    5

Day Wise Schedule

Day 1

- Lesson1: Micro Services Basics
- Lesson 2: Cloud Native Concepts

Day Wise Schedule

 7

Table of Contents

Lesson 1: Microservices Basic
- Introduction to Micro services
- Monolithic Architecture
- Micro service Architecture
- Benefits of Micro services
- Drawbacks of Micro service

Lesson 2: Cloud Native Concepts
- Cloud Native Approach
- Purpose of Cloud Native
- What are Cloud Native companies doing differently to improve IT agility
- Benefits of Cloud native
- What is 12 Factors App

8

References

Books:

- Building Micro Services Designing Fine-Grained Systems by Sam Newman
- Beyond the 12 Factor App: Exploring the DNA of Highly Scalable, Resilient Cloud Applications by Kevin Hoffman
- Migrating to cloud in native application architecture by Matt Stine.

Websites:

- MicroServices : http://microservices.io/
- MicroServices Architecture : https://smartbear.com/learn/api-design/what-are-microservices//
- Cloud native : https://pivotal.io/cloud-native

9

Next Step Courses

Micro service Implementation using Spring Boot and
Spring Rest Template

Docker Container

Other Parallel Technology Areas

Monolithic Services