Overview

This **Microservices Certification Training in Electronic City Bangalore** is designed to help individuals acquire the skills and knowledge needed to design, deploy, and manage microservices. Microservices are distributed applications that are modular in design and are composed of self-contained services. These services are designed to be easily deployable and scalable.

Microservices are a new architectural style that allows for modular and distributed applications. Microservices offer several advantages over traditional application architectures, such as greater scalability and agility. The microservice architecture is based on the principle of small, self-contained units of functionality that can be deployed independently and operated as a cohesive system. Microservices provide an effective way to decompose an application into multiple independent parts that can be scaled independently.

Here are the major topics we cover under this **Microservices course** Syllabus **Evolution of Microservices, Microservices Architecture, Deployment Patterns, Microservices Design, Discovery of Service, Microservices Datas, Microservices Communication style, Microservices Migration Techniques, Microservices Security, Microservices Testing, Monitoring, and Microservices Reference Architecture.** Every topic will be covered with Practical and hands-on training. Our trainers have industry experience with live project experience in cutting-edge technologies which they teach. We hire only Microservices industry specialists as trainers for our **Microservices Training in Electronic City Bangalore**.

If you are looking for a Microservices Certification Course in Electronic City Bangalore, eMexo Technologies is the Best **Microservices Training Institute in Electronic City Bangalore**. Come over to our training institute for a free demo class. Let our trainer give you a demo on Microservices and only then do you decide to enroll in the Microservices Course in Electronic City Bangalore.

Training Features

Real-life Case Studies

Do a real-life case study to understand the usage in real-world scenarios.

Assignments

Each class will be followed by a practical assignment switch that can be completed before the next class.

Preparation for interview

Our trainers are professionals working in multinational corporations. They are experts in their field and know exactly what the interviewer will look for in the candidate. Experienced trainers not only share interview questions but also conduct mock interviews to help prepare for the actual interview.

Key Features

eMexo Technologies offers the **Best Microservices Training Course in Electronic City Bangalore** with the TOP industry expert trainers.

Here are the key features.

★ Free Demo Class Available

★ Practical Approach

★ Expert & Certified Trainers

★ 100% Job Oriented Training

★ Real World use cases and Scenarios

★ Completed 500+ Batches

★ Certification Guidance

Unit 1: Evolution of Microservices

➢ Introduction to Microservices

➢ Monolithic Architecture

➢ Distributed Architecture

➢ Service-oriented Architecture

➢ Key benefits of Microservices

➢ Microservice and API Ecosystem

➢ Microservices in nutshell

➢ Point of considerations

➢ SOA vs. Microservice

➢ Microservice & API

➢ Hands-On

Unit 2: Microservices Architecture

- ➢ REST Architecture principles
- ➢ Microservice Characteristics
- ➢ Inter-Process Communications
- ➢ Microservice Transaction Management
- ➢ Microservices drivers and advantages
- ➢ API layer overview
- ➢ Hands-On

Unit 3: Deployment Patterns

- ➢ Multiple service instances per host
- ➢ Service instance per host
- ➢ Service instance per VM
- ➢ Service instance per Container
- ➢ Serverless deployment
- ➢ Service deployment platform
- ➢ Hands-On

Unit 4: Microservices Design

- ➢ Domain Driven Design
- ➢ Big Mud Ball to Sweet Gems
- ➢ Untangling the Ball of MUD
- ➢ Kill the MUD Ball growth
- ➢ Repackaging/Refactoring
- ➢ Decouple the User interface and Backend Business Logic
- ➢ MUD Ball to Services
- ➢ Microservice Design Patterns
- ➢ Microservice Architecture Decisions
- ➢ Remote access error handling
- ➢ Hands-On

Unit 5: Discovery of Service

- ➢ Client-side discovery
- ➢ Server-side discovery
- ➢ Service registry
- ➢ Self registration
- ➢ 3rd party registration
- ➢ Hands-On

Unit 6: Microservices Datas

- ➢ Distributed data challenges
- ➢ Creating data domains
- ➢ Dealing with common data
- ➢ Deferred data migration
- ➢ Distributed Transactions
- ➢ Eventual consistency patterns
- ➢ Hands-On

Unit 7: Microservices Communication style

- ➢ Remote Procedure Invocation
- ➢ Messaging
- ➢ Domain-specific protocol
- ➢ Hands-On

Unit 8: Microservices Migration Techniques

- ➢ Service-based architecture
- ➢ Service Platforms
- ➢ Decoupling Capability
- ➢ Atomic Evolution
- ➢ Microservices migration patterns
- ➢ Architectural modularity
- ➢ Hands-On

Unit 9: Microservices Security

- ➢ Why is Security important?
- ➢ Microservice Security Principles
- ➢ Microservice Security techniques
- ➢ Access Tokens
- ➢ Circuit Breaker
- ➢ How to secure a Microservice using OAuth 2.0
- ➢ API Gateways
- ➢ External Security Tools
- ➢ Hands-On

Unit 10: Microservices Testing

- ➢ Testing scenarios and strategy
- ➢ Test at Different Levels
- ➢ Testing Best Practice for Microservices
- ➢ Hands-On

Unit 11: Monitoring

- ➢ Log aggregation
- ➢ Application metrics
- ➢ Audit logging
- ➢ Distributed tracing
- ➢ Exception tracking
- ➢ Health check API
- ➢ Log deployments and change
- ➢ Hands-On

Unit 12: Microservices Reference Architecture

- ➢ Reference Architecture
- ➢ Microservice Enabler
- ➢ Microservices @ Netflix
- ➢ Hands-On

FAQs

1. How is the training organized? How much percentage is theoretical and how much is practical hands-on?

We at eMexo believe nothing beats hands-on practice when it comes to learning a concept. Our teaching methodology is 100% practical and hands-on-oriented. You learn a concept, you practice it then and there with the trainer. We also give you assignments for each topic which you can practice at home and any doubts regarding the topic can be cleared with the trainer the next day.

2. What is the course duration? How and when do you plan to complete the course?

We generally cover our courses in 60 hours, however, we are aware that we can't put a hard- stop to learning with a number. Our trainer will make sure that you have learned everything that is part of the curriculum. This could mean 48 hours or 60 hours, doesn't matter.

3. What is the material provided in the training?

We have industry standard course material which is used by our trainers to train you. At the end of the training apart from the notes which you have taken during the course, we will also provide you with the training material which was used. This training material includes the training content, interview questions, etc.

4. Do you help in preparing for the interview?

Our trainers are working professionals who work in MNCs. They are the expert in their domain and they know exactly what an interviewer looks into a candidate. Our expert trainers apart from sharing the interview questions will also conduct mock interviews to help you prepare for the real interview.

5. Who are your trainers?

Our trainers are industry experts who work in their respective technologies day in and day out. They work in MNCs and are technology experts within their organizations.

6. What is the total batch size per course?

We maintain a strict batch size of maximum of 5 students. We also provide exclusive one-to-one training as well. Talk to our training partner to get more details.

7. Do you provide certification for the course?

Yes, at the end of training we provide a certification of completion.

8.Will I be joining a new batch or be merged with another batch?

You will be added to a new batch.

9. Is fast track training available?

Yes, we provide fast-track training as well for those who want to complete the course faster. The curriculum and the total hours required to complete the course will remain the same. However, the trainer will be spending more hours with you to complete the course.

10. Do you assist in job placement?

Our trainers are expert professionals in their organizations and they often act as the interviewer to hire new candidates. Our trainers will help you prepare your resume with industry standards. After all, they know exactly what to look for in a resume.

11. Timings for training - Regular training/weekend training

We provide both regular and weekend training. Talk to our training partner to learn more about the timings.

12. Will you be working on a live project during training?

Yes, apart from doing the hands-on practice our trainer will also be taking a real-world project and working with you for the implementation.

13. What happens if I miss a class?

If you miss a class the content of that class will be taught to you again. With us, you might miss a class but not the content.

14. Can I attend a demo before the actual class?

Yes, absolutely! Talk to our training counselor on phone at +91-9513216462 or email us at info@emexotechnologies.com to arrange a free demo. You can also fill in the contact us form below and we will call you to discuss your training requirements.