

INFOSOFT IT SOLUTIONS

Training | Projects | Placements

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Akka Framework

Introduction to Akka

- Overview of Akka framework
- Understanding Actor Model
- Actor System and Actor Hierarchy
- Akka Actors vs Threads
- Actor Lifecycle and Supervision

Akka Basics

- Setting up Akka in your project
- Creating Actors
- Sending and Receiving Messages
- Actor Behavior and Message Processing
- Actor Communication Patterns (Tell, Ask, etc.)

Akka Persistence

- Event Sourcing and CQRS (Command Query Responsibility Segregation)
- Persistent Actors
- Event Sourcing with Akka Persistence
- Snapshots and Recovery
- Configuring and using Event Adapters and Snapshot Stores

Akka Cluster

- Introduction to Akka Cluster
- Cluster Singleton and Cluster Sharding
- Distributed Pub-Sub
- Akka Cluster Sharding
- Cluster-Aware Routers

Akka Streams

- Introduction to Reactive Streams
- Basics of Akka Streams
- Flow, Source, and Sink
- Transformations and Graphs
- Backpressure and Asynchronous Boundaries

Akka HTTP

- Introduction to Akka HTTP
- Routing DSL
- Marshalling and Unmarshalling
- HTTP Client and Server
- Websocket Support

Akka Testing

- Unit Testing Actors
- Testing Akka Streams
- Integration Testing with Akka TestKit
- Simulating Cluster Environments for Testing

Akka in Practice

- Real-world Examples and Use Cases
- Best Practices for Akka Development
- Performance Tuning and Optimization
- Monitoring and Debugging Akka Applications

Advanced Akka Concepts

- Akka Typed
- Distributed Data

- Akka Persistence Query
- Akka Multi-DC Persistence

Project Work

- Design and Implement a Real-world Project using Akka
- Project Presentation and Code Review