

Getting Productive with Advanced Scala and Akka 3 Days

Course Outline

The 3 day Advanced Scala and Akka course is aimed at developers who already have a strong understanding of the fundamentals of building applications using Akka and Scala on a single JVM and are looking to learn how to scale out to multiple nodes and 3rd party systems

The course has a practical focus, mixing presentation with indepth handson labs and exercises.

Proposed Structure

<p>Day 1</p> <p>Scala Refresher</p> <ul style="list-style-type: none">• Control constructs, Classes and case classes• Traits, Objects, Functions• Collections• Pattern Matching• Partial Functions, folding	<p>Day 2</p> <p>DSLs</p> <ul style="list-style-type: none">• Internal DSL• Control abstractions
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Advanced OOP

- Recursion / Tail Recursion
- Partial functions
- Higher order functions
- Partially applied functions
- Folding

Type System

- Custom value classes
- Type Parameters
- Variance
- Bounds
- Type members

Implicits

- Implicit conversions
- Implicit classes
- Pimp my library
- Class tags

Custom collections

- Builders
- Like traits

Akka Refresher

- Fault Tolerance, concurrency scalability.
- Actors, lifecycle
- Understanding Actors
- Futures
- Routers and Dispatchers

Day 3

- Akka Remoting
- Akka Cluster
- Cluster Aware Routers
- Cluster Singleton
- Cluster Sharding
- Akka Persistence

Course prerequisites



Developer to Developer Training Series

To benefit from this Advanced Scala and Akka course, you'll need to have have at least 3 months programming experience with Scala and Akka prior to attending this course. To fully understand the various advanced features covered in this course, you'll need to feel comfortable to Scala and Akka in your applications, before attending.

For more information on the course or a discussion on your custom need, send a mail to info@knoldus.com