

Akka Optimization Services

Maximize the performance, efficiency, and responsiveness of your Akka application and achieve significant cost savings with Optimization Services from Lightbend.

Improving application and infrastructure performance, keeping software up-to-date, and increasing cost efficiencies puts additional pressure on teams.

Even with available time and resources, specialized knowledge is often needed to identify where impactful improvements can be made or to implement version upgrades.

To alleviate these challenges, we offer three Professional Service offerings delivered by Lightbend in-house Akka experts. Each is specifically geared toward optimizing your use of Akka and gaining considerable cost savings. Offerings have a general focus that is customized per engagement.

Service Packages

Performance Optimization: Focus on achieving optimal performance and efficiency of your Akka application. Concentrates on three key areas for maximum cumulative impact:

- Elimination of bottlenecks – Proprietary tooling and techniques specifically designed to discover and eliminate inefficiencies in Akka applications.
- Achieving lowest latency – Load baselines in simulated real-world settings are determined, tested, and measured against incremental load changes to expose and resolve roadblocks and weak links.
- Increased throughput – Baseline measurement of throughput identifies complexity (such as unnecessary calls, access points, or redundancies) that increases latency and slows performance.

Akka Version Migration: Upgrading to new software versions presents hurdles such as compatibility issues, integration complexities, and potential downtime. Critical bug fixes, security patches, and new features demand timely upgrades. Akka Version Migration takes a systematic and purposeful approach that:

- Shortens upgrade cycles
- Reduces latency
- Decreases complexity
- Lowers risk
- Exposes and fixes bugs
- Eliminates stress
- Increases performance

Cost Benefits

- **Reduced** infrastructure, resources, & specialized skills required
- **Lower** database footprint & higher utilization of database
- **Minimized** maintenance
- **Elimination** of tech debt
- **Faster** time to use
- ...and more

Cost Optimization: Maximum cost savings are achieved by fine-tuning application architecture, configuration, and infrastructure utilization together. Common elements of this complete diagnostic overview include, but are not limited to:

- Architecture and data organization strategies – Structures and organizes your data to align to Akka patterns, maintaining the highest degree of parallelization for optimal performance of your architecture and data.
- Data sharding – Review of shard key queries and recommendations for equitable data load balance across your system.
- Akka observability – Implementation and optimization of this purpose-built tool for Akka applications for ongoing identification and elimination of bottlenecks.
- Dynamic scalability – Ensures your Akka application scales up during peak times and spikes and automatically scales back down during low activity without failure.
- Real-world test environment – Test changes in insolation pre-production to identify and resolve issues before going live.

Our Approach

Our Professional Services experts combine industry best practices, proven strategies, and expertise in Akka technology to develop a customized program that delivers long-term, impactful results to your teams and business:

- **Strategic Planning:** Comprehensive assessment to understand the current state, objectives, and challenges.
- **Collaborative Execution:** Transparent and iterative process focusing on stakeholder collaboration and agile execution.
- **Continuous Improvement:** Frameworks for ongoing optimization.
- **Data-Driven Decisions:** Leverage analytics and metrics to guide strategies and measure ongoing success.
- **Knowledge Transfer:** Equip your team with the tools and insight for continuous improvement.

Optimization Service Outcomes

Enhanced Performance: Achieve faster response times and improved user experience, driving customer satisfaction through lower latency and more responsive applications without over-provisioning.

Technological Excellence: Stay current, supported, and compliant, and give your teams the advantages of the latest Akka upgrades.

Financial Optimization: Realize significant cost savings now and as your organization scales through efficient resource use and waste reduction that fosters a leaner, more profitable operation.

Scalability & Reliability: Ensures your system seamlessly handles increased demand while maintaining consistent and reliable performance, and efficiently scales down as loads decrease.

Strategic Advantage: Respond to constantly changing needs with an up-to-date, adaptable application.



85%

reduction in infrastructure costs to process orders.



386%

efficiency gain in auto loan processing time.

Get Started for Free

Take advantage of a free half-day session. Receive concrete suggestions for eliminating bottlenecks and other tangible operational and cost improvements your teams can implement immediately.

Contact us today to get started or to discuss Akka Optimization Service packages.