


Autonomously Optimize AWS Lambda





Sedai continuously optimizes AWS Lambda deployments for performance, availability & cost using AI/ML at scale


<p>Cold Start Reduction</p> <p>95%</p> <p>Virtually eliminate cold starts with autonomous concurrency management</p>	<p>Latency Reduction</p> <p>75%</p> <p>Increase performance for customer-facing real-time Lambdas</p>	<p>Cost Efficiency Gain</p> <p>30%</p> <p>Optimize resource efficiency for batch and other non-critical workloads</p>	<p>Productivity Gain</p> <p>6X</p> <p>Leverage autonomous systems to cut the toil of Lambda management</p>
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Capabilities for AWS Lambda

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Autonomous Optimization
Optimizes for cost & performance based on machine learning to meet your performance and cost goals
Problem solved: Latency, Cost
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Autonomous Concurrency
Virtually eliminate cold starts with ML-based selection of the volume and mix of provisioned concurrency & warmups informed by seasonality, without cost increases. Multi-language support
Problem solved: Cold Starts, Concurrency Costs
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Autonomous Remediation
Detect & remediate problems including timeouts, memory settings and restarts. Leverages the AWS Telemetry API
Problem solved: Failed Customer Interactions (FCIs)
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Release Intelligence
Quantitative scorecards on the production performance (latency, cost, errors) of every release
Problem solved: Release Velocity
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Smart SLOs
Add existing SLOs and Sedai will optimize applications to meet them. Sedai can also recommend SLOs & error budgets based on past performance
Problem solved: Performance, Availability

How Sedai works

Sedai is an autonomous cloud management platform powered by AI/ML delivering continuous optimization that helps serverless teams to maximize performance, cloud cost efficiency and availability at scale. Sedai enables teams to shift from static rules and threshold-based automation to modern ML-based autonomous operations. Sedai runs in production at major Lambda users across all AWS commercial regions.

Discover → Recommend → Validate → Execute → Learn

- Sedai **discovers** your infrastructure, application and traffic patterns and behavior.
- Sedai **recommends** the optimal explicit memory (and implicit CPU) and concurrency level by understanding function behavior, dependency and seasonality.
- Sedai **validates** potential changes against pre-selected inherently safe operations with multiple safety checks
- Sedai then **executes** these changes in production, on behalf of the operations team, with a full audit trail of changes
- Sedai uses **reinforcement learning** to continuously improve performance and cost.

Get Started Easily

- **15 min onboarding:** Rapid, agentless deployment
- **Works seamlessly with existing tools & workflows:** Integrates with Cloudwatch and other popular APM tools
- **No management burden:** Operates autonomously on behalf of the operations team
- **Simple pricing:** Invocation-based pricing with free tier

Start free at sedai.io