Autonomously Optimize AWS ECS

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

Cost Efficiency Gain	Latency Reduction	FCI Reduction	Productivity Gain
40%	**35%**	**50%**	**6X**
Fix overprovisioning and optimize resource efficiency for non-critical workloads	Increase perfomance for customer-facing real-time services	Cut failed customer interactions (FCIs) due to service availability	Leverage autonomous systems to cut the toil of ECS management

Capabilities for AWS ECS

Service Optimization
Configures horizontal & vertical scaling for the best cost & performance, optimizing memory & CPU

Problem solved: Cost, Latency

Container Instance Optimization
Selects instance types on an application-aware basis, factoring in application level latency needs

Problem solved: Cost, Latency

Purchasing Optimization
Recommends the lowest cost purchasing solution based on on-demand and savings plan options

Problem solved: Cost

Autonomous Remediation
Detect & remediate problems including out of memory issues and restarts.

Problem solved: Failed Customer Interactions (FCIs)

Release Intelligence
Quantitative scorecards on the production performance (latency, cost, errors) of every release

Problem solved: Release Velocity

Smart SLOs
Add existing or have Sedal choose SLOs and Sedai will optimize applications to meet them.

Problem solved: Performance, Availability

How Sedai works

Sedai is an autonomous cloud management platform powered by AI/ML delivering continuous optimization that helps ECS teams to maximize cloud cost efficiency, performance 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 across all AWS commercial regions.

Discover → Recommend → Validate → Execute → Learn

- Sedai **discovers** your infrastructure, application and traffic patterns and behavior.
- Sedai **recommends** the optimal memory and CPU settings for containers and tasks by understanding service 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. Supports AWS Fargate
- **No management burden:** Operates autonomously on behalf of the operations team
- **Simple pricing**: ECS task-based pricing with free tier

Start free at sedai.io