Autonomously Optimize Kubernetes

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

Cost Efficiency Gain	Latency Reduction	FCI Reduction	Productivity Gain
50%	**30%**	**50%**	**6X**
Fix overprovisioning and optimize resource efficiency at workload & node level	Increase performance for customer-facing real-time services	Cut failed customer interactions (FCIs) due to microservice availability	Leverage autonomous systems to cut the toil of Kubernetes management

Capabilities for Kubernetes

Workload Optimization
Optimizes horizontal & vertical scaling to meet your cost & performance goals at container & pod level

Problem solved: **Cost, Latency**

Node Optimization
Selects lowest cost instance types on an application-aware basis, factoring in 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
Detects & remediates 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 Sedai 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 Kubernetes teams 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 supports major Kubernetes distributions including EKS, GKE and AKS.

Discover → Recommend → Validate → Execute → Learn

- Sedai **discovers** your infrastructure, application and traffic patterns and behavior.
- Sedai **recommends** the optimal settings at container, pod and node level 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 in autonomous mode, 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

- **Initial setup in as little as 15 minutes:** Rapid agentless or agent-based deployment to begin reading metrics. Setup with CI/CD & other tools may require additional time
- **Works seamlessly with existing tools & workflows:** Integrates with Prometheus, Datadog and other popular APM tools, ingress providers and CI/CD tools. Supports AWS Fargate
- **No management burden:** Operates autonomously on behalf of the operations team
- **Simple pricing**: Pod-based pricing with free trial

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