End to end observability and cost monitoring for serverless applications on AWS

Gain rapid insight into serverless application performance, allowing you to remediate bottlenecks in real-time.

Epsagon is an AWS Partner Network (APN) Advanced Technology Partner and AWS DevOps Competency holder.

Industry trends & challenges

As more and more organizations are shifting to serverless applications, the need for updated monitoring tools is growing. Organizations are finding that their legacy tools don’t provide the comprehensive visibility they require anymore. This, combined with highly-distributed systems that spread business workflows and data across multiple managed services and APIs, makes it difficult to monitor and understand how the applications interact with each other and their environment.

The Epsagon solution

Epsagon is a serverless monitoring tool that monitors the entire application, beyond just the functions, to give organizations the ability to bridge the visibility and cost gaps across their serverless architectures. Because many modern applications are highly distributed with business workflows and data spread across multiple managed services and APIs, measuring performance and cost at the server level is often not enough. With the use of distributed tracing and artificial intelligence technologies, Epsagon provides organizations with the ability to gain deeper insights into application performance and rapidly remediate bottlenecks.

Benefits

With an easy-to-use interface, Epsagon provides comprehensive visibility into serverless applications. By leveraging Epsagon within your Amazon Web Services (AWS) Lambda functions, your organization will realize benefits such as:

- **End-to-end observability**
  Gain deep cost and performance insights

- **Application awareness**
  Monitor all aspects of the application status and health, not just the functions

- **No manual instrumentation**
  Leverage automatic instrumentation, with no manual code changes and develop a visual representation of your application

- **Real-time error notifications**
  Gain deep insights and anomaly detection to rapidly remediate bottlenecks and reduce infrastructure
Solution overview

Key use cases
- Comprehensive performance monitoring of AWS Lambda applications
- Observability into AWS Lambda applications
- Cost monitoring and analysis of serverless applications
- Extensive monitoring on the impact of APIs

Epsagon on AWS
Epsagon enhances product integration with a multitude of AWS services including AWS Lambda and Amazon CloudWatch, along with other management services, programming languages, and API-level integrations. Epsagon heavily relies on AWS Lambda functions and leverages them to provide automatic monitoring of performance and costs, while reducing the time-to-resolution with real-time resolution capabilities.

How it works
Epsagon uses distributed tracing and AI technologies to monitor serverless applications and provide immediate insights that help reduce bottlenecks and infrastructure costs. When you include Epsagon in your AWS Lambda functions, it will automatically build out a visual representation of your applications and update as changes to the applications occur. With an easy-to-use interface, you can simply click on an error and they will be circled on the diagram for you, helping you understand where it started and how it is impacting the rest of the application.

Getting started
Include the Epsagon library in your AWS Lambda functions to get started with comprehensive, end-to-end visibility into your serverless applications.

Getting started with Epsagon's solution
Epsagon's offering on Solution Space