

Automotive Services

A Robust Ingress Controller with Gloo Mesh and Gloo Gateway, Resulting in Enhanced Granular Control and Management Capabilities for Cloud Environments



Industry

Automotive



Revenue

\$349.9 Million



Location

Global

An automotive services company started with a vision – to be the leading source of vehicle history information for buyers and sellers of used cars. Today, they have the most comprehensive vehicle history database available in North America. In fact, millions of consumers trust this company to provide them with vehicle history information every year.

And for good reason – they receive information from more than 130,000 data sources including every U.S. and Canadian provincial motor vehicle agency plus many auto auctions, fire and police departments, collision repair facilities, fleet management and rental agencies, and more.

Business Objective

They needed to choose an ingress controller for their highly-visited website. Rated by traffic volume in the USA, this company needed very granular routing, redirection, and API gateway functions from their ingress controller. The requirement was to support both the constant high traffic volume, but also spikes that were associated with their many ad blitzes. This company requires an infrastructure that can seamlessly scale and promptly cater to the increased demands, meeting the surge in web traffic efficiently and delivering a smooth user experience during these high-traffic periods.

Solution

Our customer underwent a journey of migrating their infrastructure from on-premises data centers to the cloud, building with the AWS infrastructure. Initially, they treated the cloud as a new data center, gradually shifting the traffic from their data centers to the cloud in a 50/50 split. As they progressed, they focused on moving the entry point of traffic to the cloud, enabling failover between different regions and achieving a more granular control over traffic routing.



2+ billion requests per month through Solo's API gateway



Drop-in replacement for existing Traefik installation



Exceeds requirements on all chaos testing scenarios

In 2017, they embarked on a migration journey by moving their blog platform application to AWS. Initially, the application was hosted on AWS Elastic Beanstalk, and later it was further migrated to EKS (Elastic Kubernetes Service). They continued their cloud adoption journey and within a year, they extended the migration to other critical applications, including their home page, used car listings, and research pages. This transition marked a significant shift for our customer, as they moved from a combination of on-premises data centers and AWS to a more cloud-native infrastructure, fully leveraging the scalability and flexibility offered by AWS services.

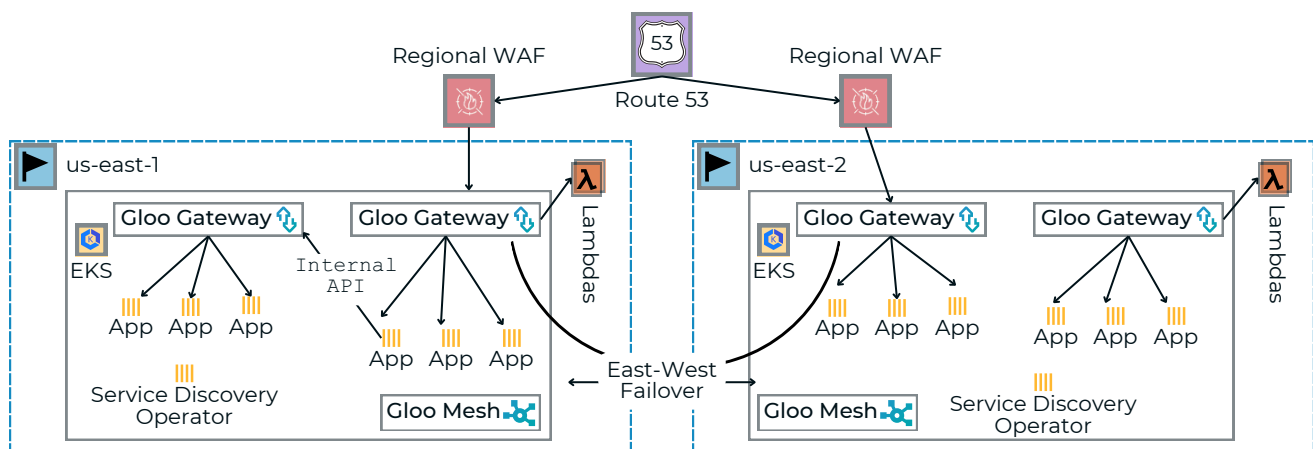
Our customer initially employed a failover model, gradually refining their approach to gain more precise control over traffic routing. During this migration, they took advantage of the benefits of the cloud, such as robust networking solutions that spanned hybrid architectures, allowing traffic to flow seamlessly between the on-premises environment and AWS. Monitoring, logging, and the development experience were improved as well, with the cloud providing a different set of environments for deploying code and offering a wider range of options compared to the limitations of on-premises containers. As the migration advanced, they reached a point where all their stacks were running on the cloud, eliminating the need for their on-premises infrastructure.

Why Choose Solo?

As our customer embraced new features and technologies available in the cloud, **Gloo Mesh** emerged as a particularly suitable solution for their cloud-based architecture. Gloo Mesh provided them with enhanced granular control and management capabilities for their distributed systems, making it a better fit for their cloud environment.

Initially, they faced challenges with an ingress controller that failed to meet their traffic requirements. As their Kubernetes clusters hosted an increasing number of applications, such as single page applications, server-side rendering applications, and APIs, they required an ingress controller capable of granular path-based routing, redirection, authentication, rate-limiting, firewall capabilities, and the ability to route to external destinations. With Solo.io's **Gloo Gateway**, they now have a robust solution that efficiently handles over 2 billion requests per month, serving as the ideal ingress controller for the company's diverse needs.

Workload Clusters



A Robust Solution

- ✓ Migrated from Traefik
- ✓ Most feature-rich & technologically advanced option they evaluated
- ✓ “Solo.io Slack support is awesome!”
- ✓ “Tech support and engineers are very responsive.”

Companies like our customer and others are using Kubernetes and AWS to deploy applications across the globe with agility and speed. As customers realize there is additional complexity at scale, **Gloo** can help organizations on any stage of their journey realize the following benefits of managing and running Kubernetes:

**More
secure**



**More
resilient**



**Less operational
overhead**



**Faster time
to market**



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About Solo.io

Solo.io, the leading application networking company, delivers a service mesh and API platform for Kubernetes, zero trust, and microservices. The components of Gloo Gateway, Gloo Mesh, and Gloo Network for Cilium enable enterprise companies to rapidly adopt microservice applications as part of their cloud journey and digital transformation. Solo.io delivers open source solutions, and is a community leader in building the technologies of the future.

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