



GCP BUILD OUT FOR JAVA PLATFORM COMPANY

Retrieving lightning fast auto-scaling in GCP

The Subject

Azul is the only company 100% focused on Java, delivering the most trusted Java platform to the modern cloud enterprise. We provide the world's best commercial support for OpenJDK to our customers by prioritizing their success, maintaining our unwavering commitment to innovation and excellence, and advancing Java through community leadership.

The Challenge

Our customer has a stated goal of achieving "lightning-fast" autoscaling for their Kubernetes clusters. They had an incredibly spiky server load profile that achieved desired results in a matter of several minutes as opposed to the preferable several seconds. The customer needed a quicker solution in GCP that was able to handle their load spikes.

CloudWerx Solution

Azul's existing infrastructure is on AWS. With a need for a better solution in GCP, CloudWerx was able to create a GKE Standard cluster for the customer to benchmark the load testing on GKE. The goal was to get similar or better performance as EKS. We met the goal by choosing the compute-optimized machines on the GKE node pool.

What We Worked On

- CloudWerx consultants were brought in to replicate and deploy Azul's current AWS workloads into GCP. By doing so, CloudWerx also needed to provide a solution that was able to auto-scale and perform better than their current setup.
- As a result of replicating their existing AWS infrastructure on GCP, Azul was able to have a secondary environment in GCP with the same, if not better, performance in GCP. The customer was thrilled to have a safe, secure and fast environment now set up in GCP that they can trust to meet all performance requirements.

KEY RESULTS

- Replicated AWS workload on GCP
- Provided solution that was able to auto-scale
- Secondary environment (GCP) has better performance