

Nylas Reinvents Architecture With Speedscale and GKE

Speedscale provided third party service mocks and load testing so Nylas could compare the scalability and cost of EKS and GKE. Thanks to Speedscale traffic replay, Nylas confirmed that GKE scalability was second to none.

The challenge

To meet ever increasing demands for scale, Nylas needed to modernize an existing monolith email synchronization application. The team had to break the app into smaller services and migrate onto Kubernetes. Nylas needed a cloud native Kubernetes distribution that could scale efficiently for their high volume business.

The solution

Nylas utilized Speedscale to test performance gains of different CPU architectures, API designs, and confirm performance parity in ongoing migration from monolith to Kubernetes. Speedscale's reusable traffic replay system let Nylas validate dozens of different GKE and CPU architecture combinations to identify the best price/performance ratio.

The results

Using Speedscale, Nylas proved that Google's Tau VMs with Google Kubernetes Engine deliver over 40% better price-performance than Amazon's Graviton-based VMs. In addition, the highest throughput part of their system, email synchronization, improved 30x as part of the migration.

“After some additional vetting, the Nylas engineering team determined that the security, scalability, and stability of Google Kubernetes Engine (GKE) was second to none. Its capacity to run Kubernetes workloads securely at scale is why Nylas transitioned to a brand-new architecture.”

David Ting, Sr VP Engineering, Product and CISO, Nylas



About Nylas

The pioneer and leading provider of productivity infrastructure solutions for modern software.

Industry: Software & Internet

Primary project location: United States



About Speedscale Inc.

Stress test your APIs with real world scenarios.

Collect and replay real world traffic without scripting.



Products

Google Cloud Platform