Silk Cloud Data Platform

on Google Cloud Platform

Intro

The public cloud is significant for the future of business. Today, however, companies are struggling with complex cloud migration projects that bring high risk, poorly understood costs, and lengthy project timelines.

Enterprise Tier 1 mission-critical applications usually are not built for the cloud, and digital transformation involves challenges such as code incompatibilities, performance bottlenecks, and cost optimization.

The Silk Cloud Data Platform's software-only architecture provides a virtualized data layer for mission-critical applications that delivers:

Consistently high performance

Significantly reduced costs

An automatic experience you can optimize on the fly

With Silk, customers can easily migrate their applications without rearchitecting their data, reducing both the risk and cost of lengthy migration projects while taking advantage of Silk's ultra-high performance at scale for excellent customer experience and advanced rich data services that bring major cost and footprint optimizations.

Silk deploys its software stack on Google Cloud Platform (GCP) infrastructure components. Those resources are leveraged into a data platform that can scale up, out, down, and in--maximizing performance and utilization efficiency while controlling costs. The platform also supports any desired availability model for business continuity or disaster recovery.

Key Cloud Capabilities:

- Enabling mission-critical application migration to the cloud
- Elastic ultra-high performance with sub-millisecond latency
- Enhanced zero-cost data services for resource optimization
    - Zero footprint instantaneous clones
    - Data reduction
    - Shared data access

Silk's Software Stack for the Cloud

Silk's Cloud Data Platform is a combination of tested and packaged software and services. The software stack is built on the pillars of Vision, Clarity, and Flex which provide a rich set of data services, machine learning, analytics, and policy-based automation and orchestration.

- **Vision** turns the underlying GCP infrastructure into the world's most capable scale-out data virtualization and mobility platform.

- **Flex** delivers an on-demand ability to compose, optimize, manage, and decommission resources as needed to support application SLAs. Flex orchestrates cloud resources as new workloads emerge, move, evolve, and shrink over time.

- **Clarity** delivers predictive analytics through a comprehensive set of management and monitoring functionalities including application-level intelligence, machine learning, and big data predictive analytics.

Customer Case Studies

Data Analytics SaaS Company

A data analytics SaaS company was having a problem with low performance. They were running two MongoDB environments on GCP and, given the complexity of its databases, in order to achieve the desired level of performance, it was running multiple copies of its databases 24/7. This resulted in the company paying for MongoDB server licenses it didn't need plus costly overprovisioning. On top of that, the company was seeing significant growth and needed a scalable solution.

With the Silk Cloud Data Platform on GCP, the company saw 2x greater performance and 70% cost savings. They were able to reduce the number of resources used by consolidating all data replicas – resulting in an 80% reduction in capacity. Finally, the company was able to reduce the number of vCPU by 50% by reducing the number of MongoDB servers used.