Solution Brief

# Silk Cloud Data Platform on Google Cloud

**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.

## Silk Cloud Data Platform:

**Up To 10x Faster Performance Compared To Native Cloud Alone**

**Significantly reduced costs through the use of enterprise data services**

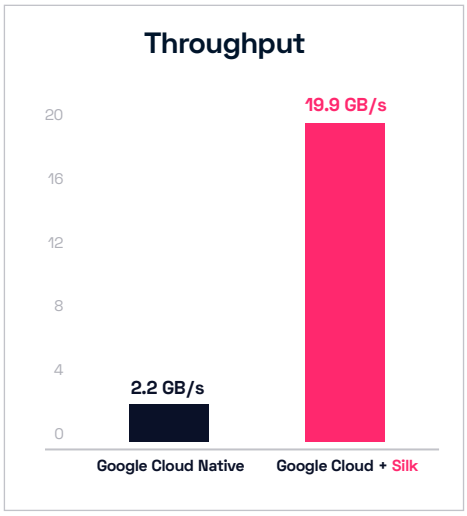
**Always-on availability and greater resiliency and manageability**

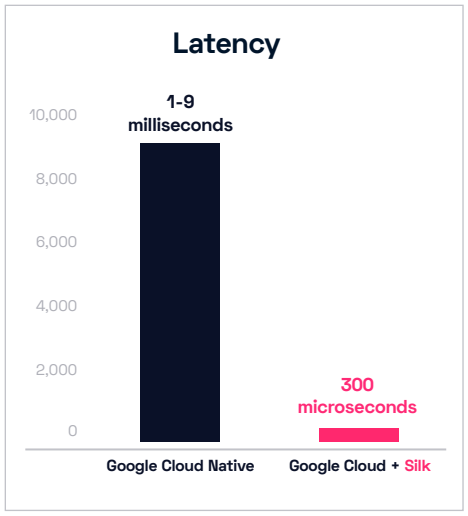
With Silk, customers can easily migrate their applications without rearchitecting their data, reducing both the risk and cost of lengthy migration projects while taking advantage of Silk's ultra-high performance at scale for excellent customer experience and advanced rich data services that bring major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

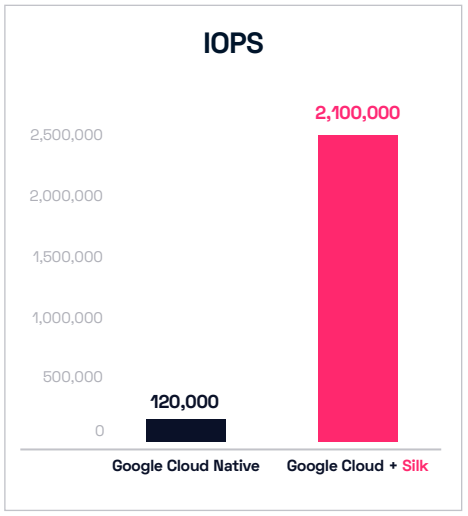
Silk deploys its software stack on Google Cloud infrastructure components. Those resources are leveraged into a data platform that can scale up, out, and in, maximizing performance and utilization efficiency while controlling costs. The platform also supports any desired availability model for business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

## Key Cloud Capabilities:

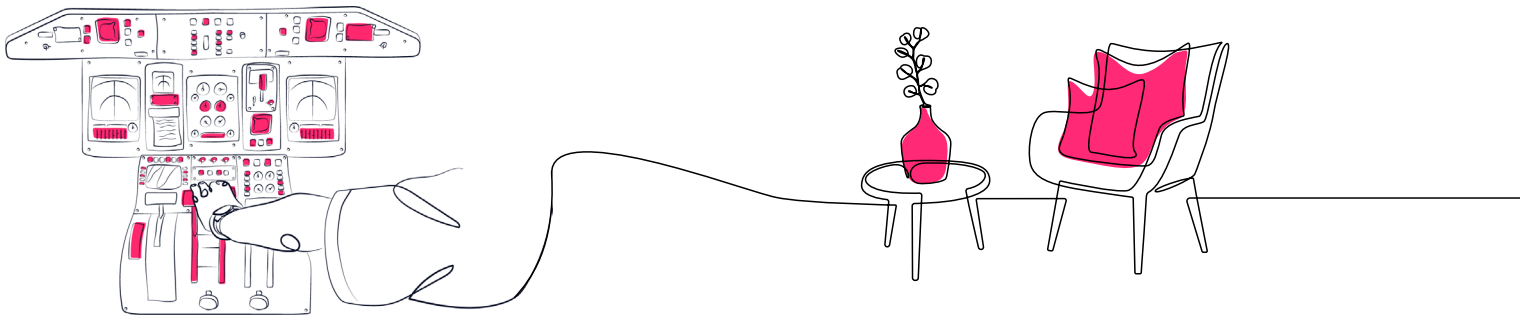
- **Elastic ultra-high performance with sub-millisecond latency**
- **Enabling mission-critical application migration to the cloud**
- **Enhanced zero-cost data services for resource optimization**
  - Zero footprint instantaneous snapshots
  - Data reduction
  - Shared data access



## Customer Case Studies



## Priceline's Story

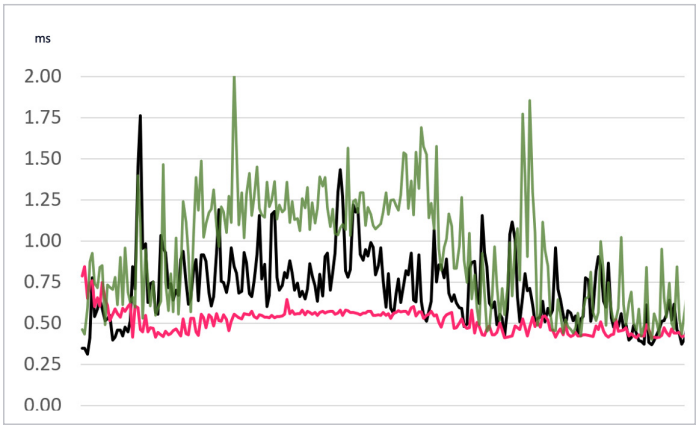
Priceline, the world leader in travel deals, was looking to move from on-premises to Google Cloud in order to provide a better user experience for its customers. Priceline wanted to be sure that when it moved to Google Cloud, they would be able to achieve the highest level of performance possible, while also keeping their cloud budget under control.

With Silk, Priceline saw a significant increase in performance. This boost made it possible to cut back on overprovisioning to achieve the desired level of performance their workloads needed – keeping Priceline's cloud budget in check. Along with that, the team was pleasantly surprised by the ease and manageability Silk offered, making it easy to increase or reduce resources on the fly.

## Online Retailer's Story

A multibillion dollar international furniture and home goods ecommerce company had a corporate objective to get all of its data out of on-premises datacenters by a strict deadline. The team had moved its 40 Microsoft SQL Server hosts to Google Cloud, but they kept hitting throughput limitations. With the deadline bearing down on them, the team knew they didn't have time to refactor their databases and were at a loss for what to do.

Silk offered the company significantly faster performance then their previous on-premises solution. In addition, Silk gave them 3.2 GB/s throughput her SQL host, with up to four SQL hours living on each Silk data pod resource. Silk also helped the company make their cloud resources more efficient. Through Silk's data reduction services, the company achieved 3:1 data reduction.




SILK | On-Prem | Native Cloud

| Metric | GCP + Silk | GCP PD | Gain |
|---|---|---|---|
| Read IOPS | 2.1M | 100K | 21x |
| Read BW | 19.9 GB/s | 1.2 GB/s | 17× |
| Write IOPs | 1M | 30K | 35x |
| Write BW | 13.1 GB/s | 1.2 GB/s | 11× |
| Latency | 300us | 1-9ms SLA | 3-30x |

*All performance numbers achieved at 1.5ms consistent latency or lower, with data services enabled*

### About Silk

The Silk Data Virtualization Platform gives demanding workloads up to 10x faster performance in the cloud. Without refactoring, applications can move to the public cloud without compromising on performance or overspending to mitigate risk. Industry leaders in ecommerce, SaaS, FinTech, and healthcare trust Silk with their business-critical workloads to get the ultra-fast speeds their customers demand. Silk is headquartered outside of Boston, MA.

To learn more, visit silk.us.