

Silk For Healthcare Workloads on Google Cloud



Google Cloud offers the healthcare industry – including providers, payers, pharma, and application vendors – many benefits: It helps decrease IT infrastructure costs, provides more sophisticated security, enables easier Disaster Recovery, and helps seamlessly implement automated HIPAA controls when running in HIPAA-compliant regions. Not only that, but it makes it possible to take advantage of telehealth capabilities that allow patients to be treated from home.

But migrating off established on-premises infrastructure has its own challenges – especially if you’re trying to move larger, more complex workloads such as Electronic Health Records (EHR). EHR workloads and the surrounding applications are considered “untouchable” workloads. This is because they are supported by complex Microsoft SQL Server, Oracle, or InterSystems databases which are full of custom business logic and were not originally architected to run in the public cloud. They are critical to the business, so there is an additional reluctance to attempt the migration.

Why Silk for Healthcare



- **Run EHR and Other Mission-Critical Apps on Google** – With Silk, you are able to successfully run your EHR and other mission-critical applications on the cloud while getting sub millisecond latency and the fastest performance possible.
- **Flexible Scalability** – Quickly scale up or down to meet changing performance demands and keep costs in check
- **Instantaneous, Zero-Footprint Snapshots** – Quickly copy data without expanding your data footprint for uses such as DR, Test/Dev environment refreshes or during ETL processes without watching your cloud bill expand.

Silk for EHR and Other Healthcare Workloads on Google Cloud

But this doesn’t mean that moving your EHR workload to the public cloud has to be a pipe dream. By implementing Silk on top of your Google Cloud infrastructure, you get better performance and resilience, as well as a simpler migration path – even for the most complex and largest workloads.

Silk, which is validated by EHR vendors to run their applications in the cloud, offers enterprise data services – such as real-time data reduction, thin-provisioning, zero-footprint snapshots, deduplication, and data replication. These data services are critical to keeping cloud resources from ballooning out of control while adding operational efficiencies.

Run EHR and Other Mission-Critical Apps on Google

In healthcare, any delay in getting information can be catastrophic. On top of that, to take advantage of exciting new technologies such as telemedicine, providers need cloud access for EHR and other important applications. With Silk, you can successfully leverage Google cloud for these apps and never worry about whether they can handle your performance needs. Silk offers the performance required to move these mission-critical applications to the cloud, so you can continue providing top-notch care to patients.

Flexible Scalability

For unknown events or acquisitions, you need to scale performance to meet the needs of an increased number of users. On-premises environments lack the flexibility to scale up and scale down performance on-demand. In fact, a lot of hospital facilities learned that firsthand when COVID hit and they saw the number of patients spike overnight. Silk makes it possible to easily scale performance in minutes to meet short term or long term demand.

Instantaneous Zero-Footprint Snapshots

Taking full thick copies of source data eats into your cloud resources, resulting in a large cloud bill, and also takes a long time to do using cloud native technology. With Silk's instantaneous, zero-footprint snapshots, you can take as many copies of data as you need (whether for Disaster Recovery, Test/Dev environment refreshes, or during ETL processes) without expanding your cloud footprint.

Sentara Healthcare's Silk Story

Sentara Healthcare is a not-for-profit healthcare organization serving Virginia and northeastern North Carolina. Its team decided that it was time to move its EHR workloads to the cloud. However, it couldn't get the performance that its workloads demanded natively. On top of that, it was projected that its currently cloud spend would grow 10% YOY, bloating its OPEX expenditure.

With Silk, Sentara was able to achieve 3x faster performance. And through 2:1 data compression, the team was able to reduce its cloud resources, cutting its costs up to 20%. Silk's enterprise data services, including its zero-footprint snapshots, made it possible for Sentara to take as many copies of data as needed, without going over budget. And with Silk's ability to simply lift and shift data into DR included standard, Sentara was able to save an additional \$28,000.

Ready to start getting the performance your healthcare workloads need on the cloud?

Visit <https://silk.us/solutions/healthcare/> to see how Silk can give you the speed you need.



Is Silk Right for You?

Is your application:

- Mission-critical to the business such as EHR, EHR interface engine, claims processing, document management, pathology, pharmaceuticals, time keeping, or analytics – just to name a few.
- Supported by a large Microsoft SQL Server, Oracle, or InterSystems database
- Needs throughput of 1.5GB/s or higher
- Requires more than 5TB of storage

If this sounds like you, let's talk! Silk can help you get the performance your healthcare applications need on Google Cloud!

About Silk

"The Silk Cloud DB Virtualization Platform gives demanding workloads 10x faster performance on the cloud compared to native cloud alone. It is a virtualization layer that sits between the underlying cloud infrastructure and customers' workloads. Without refactoring, workloads such as Oracle, Microsoft SQL Server, and industry-specific applications can move onto the GCP and Azure cloud while massively improving user experience. Industry leaders in e-commerce, software publishing, FinTech, and healthcare trust Silk with their mission-critical workloads to get the ultra-fast speeds their customers demand. Silk is headquartered in Needham, MA.

To learn more, visit silk.us.