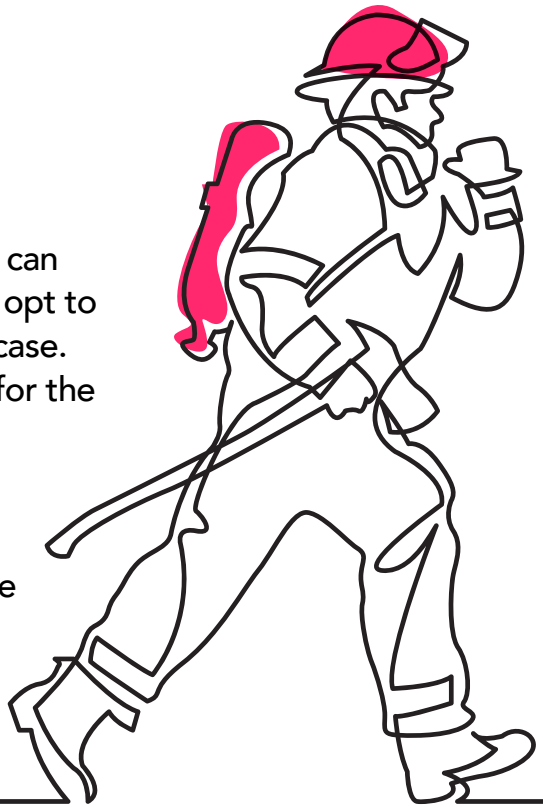
Silk

Solution Brief

Disaster Recovery in the Cloud with Silk



Adopting the cloud for your most mission-critical workloads can be an overwhelming task. For that reason, many companies opt to dip their toe in the cloud with a Disaster Recovery (DR) use case. But even this seemingly simpler use case can cause hurdles for the unsuspecting DBA.

Silk is a smart platform that sits between your database workloads and cloud infrastructure, quietly optimizing your cloud resources to give you the fastest performance possible at a price point that won't bust your cloud budget. In this Solution Brief, we will outline how the Silk Platform makes DR in the cloud easier, faster, and more cost-efficient.

Supercharge Your Performance

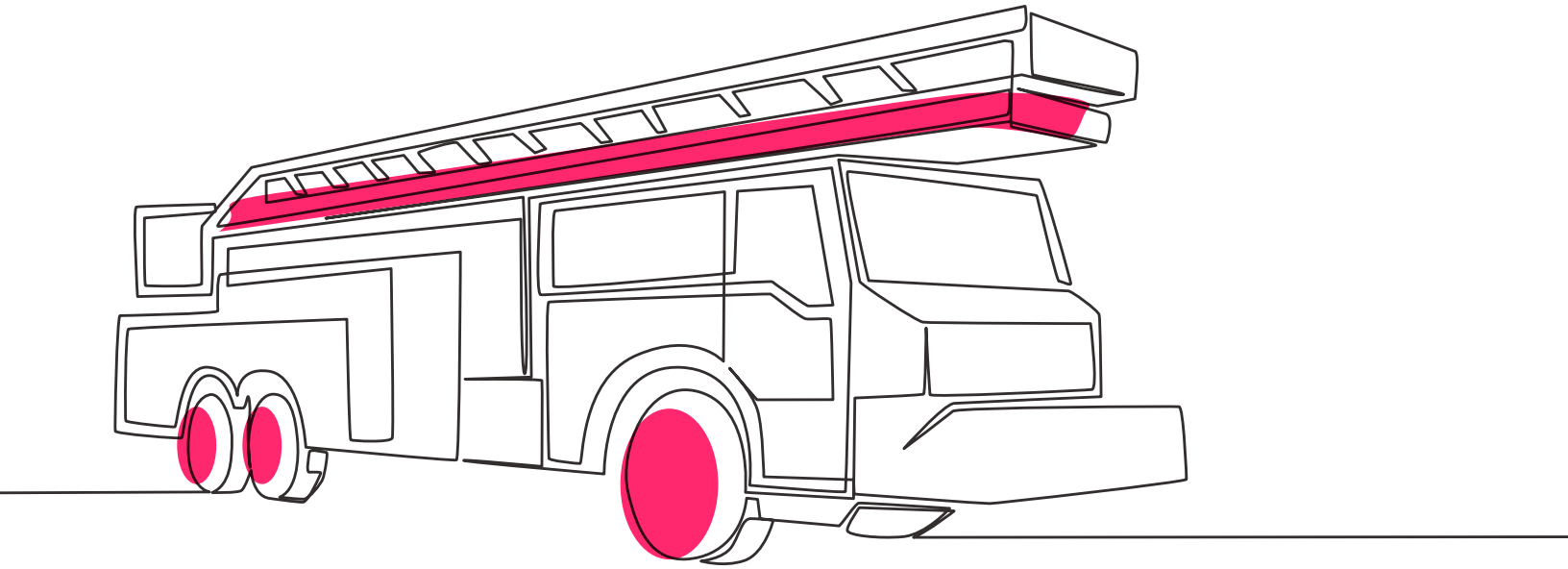
With cloud-based DR, you can be sure that you are able to quickly failover to make your DR copies active. But how does the performance of your cloud provider compare to what you are currently achieving on-prem?

Since the public cloud is a shared, virtualized environment, data performance can be unpredictable, with providers setting "throttles" to place upper limits on the speed and flow of data available. By not being able to achieve the high level of performance you've taken for granted on-prem, your most mission-critical databases and applications will move at a snail's pace – making it appear to your end-users that you are still experiencing difficulties, even when you're not. In order to work around these throttles, you'll have to refactor for your cloud vendor of choice – a process that is time-consuming, expensive, and risky.

Silk offers the ability to get the same level of performance on the cloud that you've come to expect from your on-prem production workloads. How? Silk decouples performance from your cloud resources meaning you aren't limited by the throttles that your cloud vendor has placed on the speed of your data.

Dynamically Scale Up and Down

Large, complex systems require large VMs to run on the cloud. However, the cost of running more and larger VMs can quickly get out of control, especially because resources such as compute power, data capacity and performance are tied together meaning it is often necessary to overprovision one resource in order to get enough of the other. Silk breaks the link between these resources, allowing you to provision only the minimum required for your DR system. And when the time comes to failover to DR, Silk can automatically and non-disruptively scale up or out to add more resources as they are required. Now you are only paying for what you need, when you need it.



Reduce Database Licensing Costs

If your database software is licensable by CPU core (e.g. Oracle Database, Microsoft SQL Server), the need to provision a large DR environment in the cloud can have a devastating effect on your budget. As discussed above, compute power is often tied to data performance, meaning customers typically have to overprovision the number of vCPUs used by their database host VMs just to get the required number of IOPS or the necessary level of throughput.

With Silk, you get the ability to provision small compute instances while still meeting or exceeding your performance requirements in the cloud. This has a drastic effect on your database license requirements and therefore your overall costs. And when the time comes to failover to your cloud DR site, you may also be able to transfer your database licenses over from your no-longer-running production system, allowing you to scale up the compute resources without taking a hit from your database provider.

If you are planning to replicate your database data from production to your DR in the cloud at the infrastructure level, you need to be aware of the licensing implications. Depending on your choice of replication technology, with Silk you can have either a minimal target database VM or none at all, minimizing your exposure to extra DB core licensing costs.

Ready to kickstart your own DR in the cloud use case?

Visit www.silk.us to learn more about how Silk can help you move your data into the cloud quickly while achieving the levels of performance you need without breaking your cloud budget.

About Silk

Silk is the database supercharger – the smart platform that delivers game-changing database performance without changing a thing about your underlying apps or database infrastructure, whether you're running real-time transactional workloads or analytical workloads – so your entire stack runs 10x faster. And with always-on availability across regions, zones, and clouds, your database keeps going strong no matter what the cloud throws at you. Industry leaders like Priceline, Cisco, and Telefonica rely on Silk for unlimited cloud flexibility, unbreakable data resiliency, and the greatest database performance of their lives.