# SIlk

One-Pager

## Can't Touch This!

# How to Get Untouchable Workloads to the Cloud

Organizations are adopting the cloud. But there are some workloads that they just can't seem to easily migrate. In fact, they're probably the last things that are keeping the datacenter open. We call them "Untouchable Workloads". And while it might seem like it's impossible to migrate them from on-premises to the cloud, it is doable – albeit with a bit more work.

In this paper, we'll identify the profile of an Untouchable Workload and share a way to get them out of your datacenter for good.

## What is an Untouchable Workload?

An Untouchable Workload is any large, complex workload that you struggle with migrating to the cloud. This can include databases such as Microsoft SQL Server, Oracle Database or any other mission-critical system. These workloads are complex – but they are stable, which makes them "untouchable". As the saying goes: "If it ain't broke, don't fix it!" and that's exactly how the teams responsible for them feel. They are so important to the business but are too old or legacy that any changes can result in disaster.

Yet there are a number of compelling events that can encourage organizations to move them out of the datacenter. One imminent one is the end-of-life of Microsoft SQL 2012 on July 12, 2022. Microsoft is encouraging SQL 2012 customers to move to SQL on Azure VMs. But even if the end of life of SQL 2012 isn't a concern, there are other reasons – such as a corporate mandate or datacenter exit – that can leave organizations struggling with the massive task of moving SQL workloads to the cloud.

There are a few options for moving MS SQL workloads to the cloud: PaaS and IaaS. And neither is a great option for Untouchable Workloads. With PaaS, you need to go through a complex and risky migration. With IaaS, you run into throughput and latency constraints as well as a lack of data services that can help keep the amount of cloud resources used to a minimum.

> **An Untouchable Workload:**
>
> ■ Is mission-critical such as Microsoft SQL Server
>
> ■ Demands faster performance than available natively by Azure
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> ■ Is typically 5+ TB in size

# How to Get Untouchable Workloads into the Cloud

The situation of getting Untouchable Workloads into the cloud may see hopeless, but it doesn't have to be. With Silk, the largest, most complex workloads can easily be lifted and shifted into the cloud. Silk offers up to 10x faster performance compared to native cloud alone making it ideal for Untouchable Workloads. And with enterprise data services such as zero-footprint snapshots, deduplication, and data replication, the number of cloud resources used can be kept to a minimum, so organizations never have to worry about blowing through their cloud budget.
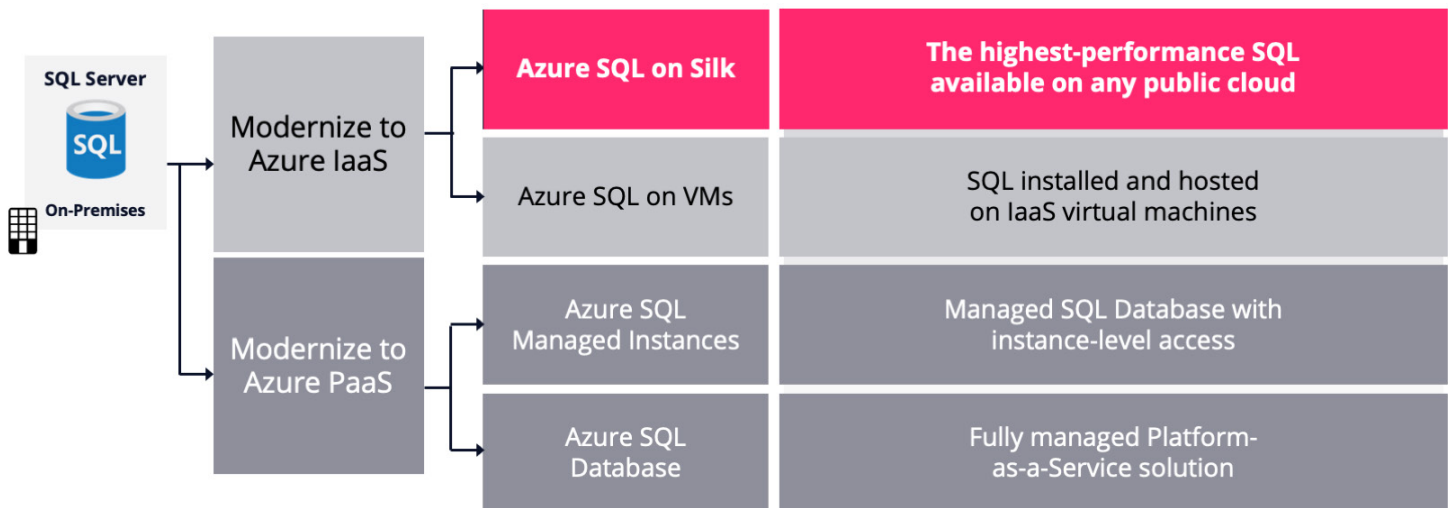
**Ready to free Untouchable Workloads from the datacenter?**

Visit www.silk.us to see how Silk make cloud migration a reality!

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**Performance From the Very First Second with Silk!**

See the performance that Silk can offer MS SQL workloads on the cloud:

- Bulk load more than 20 million rows in 1 second
- Load more than 8TB of data into a SQL database in less than an hour
- Perform a full table scan and retrieve a full 75+ GB data table into memory within half a minute. All while easily reading sustained 4-5GB/sec without the need of partitioning tricks.

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| **SQL Server** / SQL / On-Premises | **Modernize to Azure IaaS** | **Azure SQL on Silk** | **The highest-performance SQL available on any public cloud** |
| | | Azure SQL on VMs | SQL installed and hosted on IaaS virtual machines |
| | **Modernize to Azure PaaS** | Azure SQL Managed Instances | Managed SQL Database with instance-level access |
| | | Azure SQL Database | Fully managed Platform-as-a-Service solution |

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### About Silk

The Silk Cloud Platform is the leading platform to quickly move mission-critical data to the cloud and to keep it operating at performance standards on par with even the fastest on-prem environments. Silk works with global enterprise companies and cloud providers to ensure a seamless, efficient, and smooth migration process, followed by unparalleled performance speeds for all data and applications in the cloud.

The platform makes cloud environments run 10x faster and the entire application stack is more resilient to any infrastructure hiccups or malfunctions. Silk has offices in Israel and is headquartered in Needham, MA. For more information, visit https://silk.us/.