

Deliver fast, simple SAP migrations with Velostrata

Introduction

Moving SAP® into the public cloud is a common objective for companies because it gives them a way to both avoid infrastructure over-provisioning and build out SAP environments that can easily scale to the changing needs of their business. However, migrating two-tier and three-tier SAP landscapes can pose significant challenges when using migration tools that rely on agents or replication technologies.

That's where Velostrata's patented agentless streaming technology comes in. Velostrata migrates SAP landscapes to the Google Cloud Platform (GCP) quickly and without the complex sync/cutover challenges and data consistency pitfalls that persist with traditional migration techniques.

Use cases

Cloud testing

Easily test large SAP landscapes in the cloud without additional, expensive hardware procurement. Use Velostrata's "test-clone" capability to create a clone of your SAP landscape that won't interfere with your production systems. Test clones begin in the cloud within minutes, and are easily used for testing, SLA validation, sandboxes, development, training, and other short-term goals. Simply delete the test clone when you've completed your testing.

Benefits

Minimize downtime

Avoid the need to run the SAP Database Migration Option (DMO) on-prem or over the network.

Reduce risk

Upgrade systems in-place within the cloud or to a fresh SAP template in the cloud, and rollback to on-prem without data loss if needed.

Save time

Eliminate significant amounts of planning and preparation hours by getting SAP from on-prem and into the cloud within minutes.

Cut complexity

Avoid export/import steps entirely, thus simplifying the upgrade path and eliminating the need for temporary on-prem hardware.

Live migration

Velostrata optimizes migration of existing SAP R/3 landscapes into the cloud by minimizing downtime and complexity. Traditional migrations typically involve (1) using SAP OS/DB migration tools or SAP DMO on-premises, (2) importing that database into the cloud over a WAN using complex import/export procedures, and (3) rebuilding the SAP instances in the cloud. All of this adds significant downtime and complexity.

Instead, simplify and streamline by using Velostrata to start your SAP landscape in the cloud as-is within minutes and with minimal, predictable downtime. Our optimized process leads to a significant reduction in downtime, manual procedures (which are labor-intensive and prone to error), and overall completion time.

Simplified upgrade

After migrating your SAP R/3 system as-is, simplify your upgrade to HANA® DB or S/4HANA® by running DMO directly in the cloud with the local cloud network's speed and latency. This eliminates prolonged downtime, large data syncs, and transfer complexities. You'll achieve your SAP upgrades with minimal risk and without the need to purchase expensive on-prem SAP HANA certified hardware.

Challenges with other migration products

Velostrata's agentless streaming technology makes SAP migrations (and upgrades) fast, simple, and secure. In fact, many alternative migration solutions will add challenges and complexities which slow down SAP migration projects and risk the consistency of the data. The table on the next page describes what customers most often want in an SAP migration solution and how Velostrata solves the challenges that other migration products create.

“The key to keeping migration costs down is scaling effectively, and with Velostrata we can migrate large groups of workloads into GCP quickly and easily, keeping our labor costs low and success rate high”

Jon Latshaw,
Vice President, Cloud
Services, Cardinal Health
(#16 on Fortune 500)

Customer requirement	Challenges	Velostrata's solution
Non-disruptive testing	Testing often requires acquiring and building new servers, running OS/DB migration tools, and doing DB backup/restore operations. It's long and cumbersome and requires additional on-prem hardware.	Clone your SAP landscape into GCP within minutes. Leverage production data to test with, but without writing back any changes made during testing. There is no impact to your live system on-prem and no additional on-prem hardware required.
Reliable DMO execution	Running SAP DMO on-premises requires a complete replication of data into the cloud which takes a significant amount of time, creates room for transfer errors, and complicates scheduling (due to unknown transfer completion time).	Get SAP running in GCP quickly, then perform the DMO operations directly in the cloud. This eliminates long wait times, unpredictable scheduling challenges, and potential transfer issues.
Reduce risk	Long, disruptive rollback to on-prem when needed is like starting from scratch each time.	Built-in continuous sync of data changes to on-prem; stateful rollback within minutes (huge reduction of downtime or disruption when rollback is needed).
Migrate over WAN	High bandwidth requirements or slow data transfer, all of which increase migration duration.	Built-in WAN optimization, de-duplication, and compression. Storage migrates in the background while application is live in GCP, making transfer over WAN seamless.
Data consistency	During long data replication into the cloud, SAP server must remain on and data changes must be tracked and then applied later.	SAP begins running in GCP right away and on-prem servers are shut down. All data changes will happen directly in GCP, eliminating both data consistency issues and complex data sync requirements.
Simplified Process	Traditional techniques that include software agents create complexities during the sync and cutover phases of the migration/upgrade. Plus, agents must remain running while SAP services are stopped so servers can complete cutover.	No agents and no replication, data is kept in-sync and cutover takes place automatically.
Minimize downtime	Lengthy downtime while final sync and cutover take place.	Changes to data occur in GCP in real-time, meaning there is no final sync and downtime is reduced to minutes.
Predictable scheduling	Hard to properly schedule the maintenance and downtime windows, and also hard to predict when data replication phases will complete.	SAP starts in GCP quickly and cold data transfers quietly in the background while SAP runs. Validation can take place at the very start of the cloud migration, making it easy to predict and plan.

Velostrata's cloud migration solution gives customers a fast, simple, and secure path from on-prem or AWS and into Google Cloud. We accelerate cloud migration projects by eliminating the complexity and added labor costs associated with conventional approaches. This delivers a cloud migration strategy that is fast and simple, but also holistically cost-effective in addition to being free of charge for migrations into GCP. Customers are empowered to support their entire cloud migration life cycle with Velostrata's patented 'agentless streaming technology', as well as crucial capabilities like advanced WAN optimizations, built-in pre-migration in-cloud validation testing, cloud instance right-sizing, and on-prem rollback as a safety net.

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