

VELOSTRATA

Move Applications to the Public Cloud in Minutes

Velostrata gets enterprise applications running in the cloud within minutes while data migrates transparently in the background. Accelerate and simplify mass migration projects by supporting hundreds of migrations per day through Velostrata's patented streaming technology, agentless architecture, advanced WAN optimization, live in-cloud testing, and stateful rollback capabilities. With Velostrata, enterprises can test, run, and migrate applications into AWS or Azure without re-writing them, modifying the image, or changing management processes. Getting to the cloud is now as simple as a few clicks in vCenter. Velostrata does the rest.

Why Velostrata is Different

Velostrata has a number of critical differentiators that make it an ideal solution to support enterprise cloud migration:

Speed: Real-time streaming means stateful workloads begin running in the cloud within minutes (10-100x faster boot than replication-based approaches) while storage migrates in background, keeping your migration projects fast and on track.

Simplicity: Agentless technology that automatically adapts workloads for cloud and which is managed via a vCenter plug-in, PowerShell, or integrated with existing orchestration (or management) tools via full REST API.

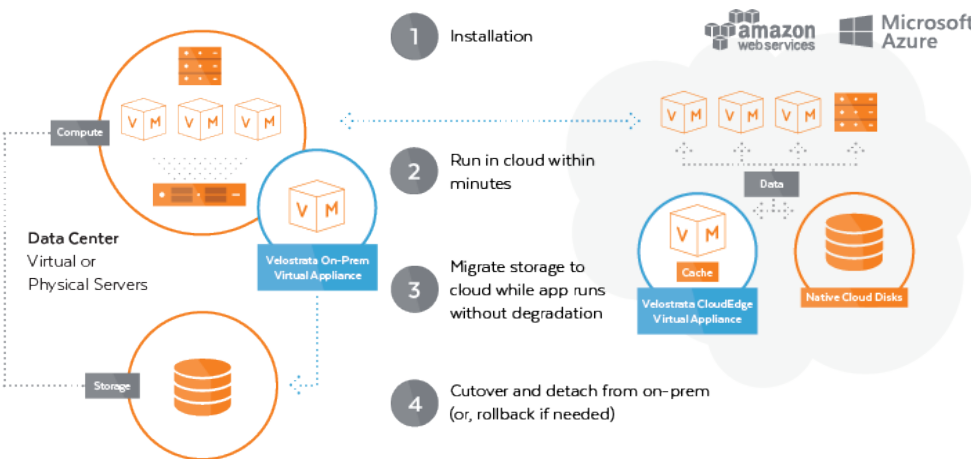
Scale: WAN optimizations including caching, de-duplication, predictive pre-fetch, and compression means moving hundreds of servers per hour. Built-in capabilities to manage large migration batches of complex, multi-tier applications with near-zero downtime.

Safety: Test before you migrate with no interruption to production systems on-prem. Enjoy the safety net of instant stateful rollback to on-prem if needed.

These differentiators make Velostrata ideal for applications like SAP, ERP, Collaboration, Middleware, OLTP, and Oracle or MS-SQL databases—to name a few. SAP Migrations, in particular, are an attractive target for migration with Velostrata as we are able to easily test large setups without massive HW procurement, migrate existing SAP configurations to cloud, and upgrade R/3 to SAP HANA in cloud with minimal downtime and reduced risk.

Powerful Architecture

An architecture built from the ground up to support cloud migration and mobility:



Easy Deployment: Quick, simple, and straight forward: Install the Velostrata virtual appliances in just a few steps and without installing agents on the servers you're migrating.

Simple Management in vCenter: VMware vCenter plug-in reduces learning curve for VMware administrators. Migration operations are performed directly on your VM inventory (in vCenter) while tasks, events, and alarms provide full visibility and control over migration.

Secure By Design: Data transfers between Velostrata virtual appliances use SSL and AES-128 encryption. Data at rest is de-duplicated, compressed, and encrypted with AES-256. Unlike SaaS-only migration tools, our appliance is fully controlled by the enterprise, which means cloud credentials are not shared with Velostrata.

Benefits

Velostrata's unique technology delivers a smooth cloud migration journey which provides tangible benefits to the business before, during, and after the migration is complete.

Cut Costs

Save millions by reducing labor, hardware

- Save 5+ hours per server during migration
- Eliminate costly on-prem hardware and software licenses sooner
- Pay only for what you need in cloud, instead of over-provisioned on-prem datacenters
- Avoid costly hardware purchases (GPUs, etc.) that you can rent in the cloud

Save Time

Free up countless IT hours for other initiatives:

- Planning, testing take place in parallel
- Workloads begin running in cloud within minutes (not days or weeks, making it 10-100x faster than replication-based approaches)
- Easily migrate hundreds of servers per hour
- Avoid costly application downtime

Reduce Risks

Built-in testing and rollback; Simpler experience:

- Avoid software agents that require additional troubleshooting and security exceptions
- Easily test for performance and cost directly in cloud without taking production apps offline
- Keep data synchronized between cloud and on-prem, facilitating fast, stateful rollback to on-prem if needed
- Avoid complicated data reconciliation or app downtime issues at time of cut-over

Improve Agility

Architect the cloud that works best for you:

- Start enterprise workloads in the cloud on-demand
- Automate your migrations with runbook tools
- Move back on-premises or to another cloud in a matter of minutes
- Rent compute any time you need it

VELOSTRATA

Key Capabilities

Automatic and Seamless Adaptations for cloud, including driver/agent installations, networking, licensing and more. No manual changes required to the applications, images, networks, storage, or drivers.

Easy Provisioning of Cloud Instance using Velostrata, including support for customizations to networking, dedicated instances, encrypted disks, etc.

Migration Automation: For pre-migration planning or migration automation, Velostrata offers self-documenting, auditable migration plans which IT can automatically generate based on vCenter Inventories. Automation runbooks provide a blueprint for each server, including their dependencies and configuration details, enabling scalable batch migration.

Programmable Operation with REST API or PowerShell enables automation of the migration flow using the orchestration/automation tools of your choice.

Customization Hooks allow IT managers to perform specific customizations (e.g. enable or disable services) upon migration to cloud or rollback to on-prem.

Core Technologies

Velostrata's patent-pending capabilities make cloud migration and mobility easy for applications hosted on both physical and virtual machines (VMs).

Boot Over WAN: Velostrata performs a native boot from the on-premises operating system over the WAN, in just a few minutes— regardless of the image size. While the image boots, Velostrata adapts it on the fly to meet the target environment. No changes to the application, image, storage, drivers, or networking are required.

Intelligent Streaming: Velostrata prioritizes necessary data for an application to run and moves that to the cloud first. Applications begin running in cloud within minutes, while less frequently accessed data can be streamed in the background while application runs in cloud.

Multi-Tier Caching and Optimization: Velostrata includes a multi-tier, read-write cache in the cloud. This stores the working set of data needed by the application while it runs in the cloud. De-duplication, pre-fetching, asynchronous write-back and network optimizations further accelerate the migration and reducing migration bandwidth by up to 75% in production migrations.

Resiliency: Each Velostrata Edge deployment incorporates active-active appliances deployed across two availability zones. Writes are acknowledged in both availability zones and then asynchronously transferred back to any on-prem storage to prevent data loss in the event of an outage. Optionally, new data writes can persist solely in the cloud, which is useful for dev/test scenarios. Velostrata's architecture ensures a 30-second RPO for sync in S3 and a 1-hour RPO for sync on-prem.

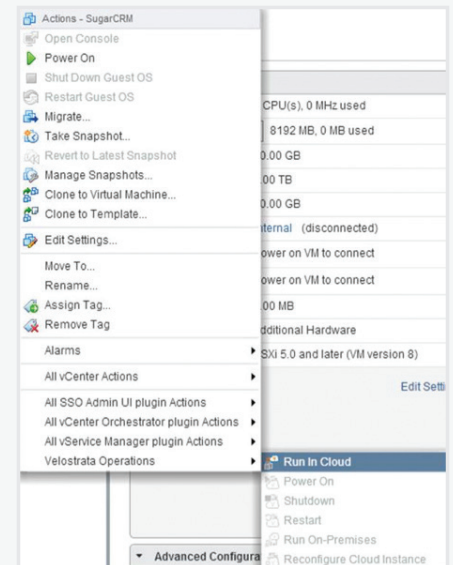
Supported Operating Systems: **Windows Server:** 2003, 2003 R2, 2008, 2008 R2, 2012, 2012 R2, 2016. **Linux:** RHEL 6.x, RHEL 7.x, CentOS 6.x, CentOS 7.x, SUSE Linux Enterprise Server 11 SP2 (or higher), SUSE Linux Enterprise Server 12, Ubuntu 12.x, Ubuntu 14.04.x, Ubuntu 16.x.

“ I was excited to see that we were able to very quickly move servers from on-premises to AWS, without any manipulation or conversion of the VMs and with excellent performance. With Velostrata, I have the flexibility to leverage the public cloud on-demand and I'm never locked-in.”

Guardian Industries Corp.
(Global Manufacturing Company)

“ We chose Velostrata because of its speed and simplicity, and because their solution will significantly reduce the labor required to support our migration efforts, especially when compared to other tools on the market. For us, Velostrata was basically magic.”

Fortune 100 Healthcare Company



When you're ready to move workloads, simply click "Run in Cloud" from vCenter.

VELOSTRATA

Velostrata software enables public cloud migration and workload mobility with speed, scale and simplicity. Unlike replication-based approaches, Velostrata's agentless platform moves applications to the cloud in minutes. The software is easy to deploy and manage, and can significantly reduce the risks associated with migration. Unique capabilities let organizations "test before they migrate" in minutes, without taking production applications offline, and provide ongoing flexibility to move workloads back on-premises or to another cloud if desired.

Velostrata is backed by Intel Norwest Venture Partners and 83 North, and is headquartered in San Mateo, California, with research and development in Israel.



For more information

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