Introduction to Velostrata

Velostrata is the only solution that provides on-demand hybrid cloud for production workloads at the click of a button. Velostrata streams production workloads to and from the cloud in minutes, leaves the storage on-premises, and optimizes performance end-to-end. Velostrata requires no changes to the applications, images, or storage; it is as simple as clicking a button in an interface you already know well: vCenter. Velostrata also provides extensive monitoring as well as APIs for integration with third-party management solutions.

The Benefits

With Velostrata, you can:

→ Mitigate risks and reduce costs by 50% or more by leaving the storage on-premises and streaming only the compute workloads.
→ Improve business agility and eliminate lock-in by moving production workloads to and from the cloud in minutes.
→ Mitigate risks from planned and unplanned events by bursting to the cloud, on-demand.
→ Improve operational efficiency by leveraging existing on-premises tools and processes with the click of a button.

Other Primary Use Cases

Organizations deploy Velostrata for a variety of use cases, including:

Cloud Bursting
Provision the datacenter for average utilization—burst to the cloud during peak times.

Storage Consolidation
Consolidate storage to a centralized datacenter while running VMs remotely in the cloud without impacting performance.
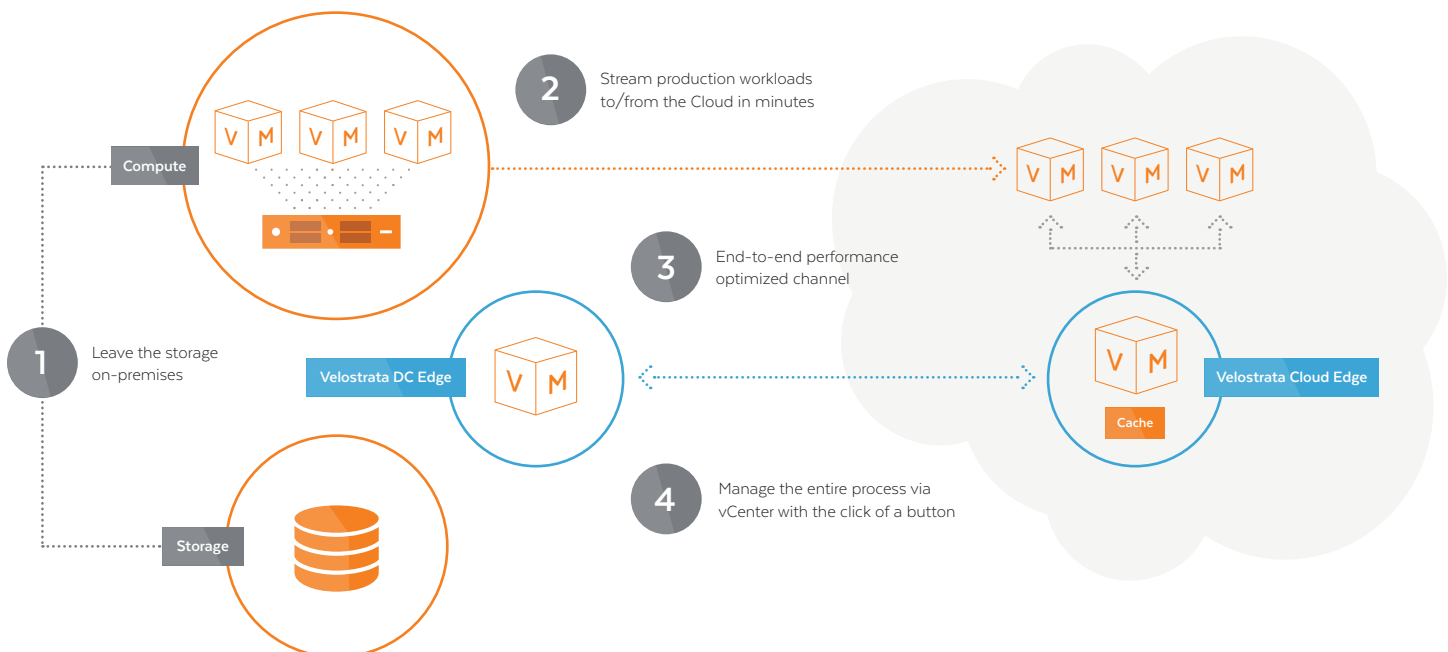
Hybrid Disaster Recovery
Provide site-to-site disaster recovery without the cost and complexity of duplicating compute resources at the secondary site.

Dev/Test
Spin-up VMs in the cloud in minutes for dev/test without migrating images or storage. Use cloud storage to either store temporary data and automatically sync results on-premises or have all data persist in the cloud.

Velostrata Architecture

1 Leave the storage on-premises

2 Stream production workloads to/from the Cloud in minutes

3 End-to-end performance optimized channel

4 Manage the entire process via vCenter with the click of a button

Compute
Storage
Velostrata DC Edge
Velostrata Cloud Edge
Cache

Datacenter Extension
with Velostrata

Datacenter Extension refers to the hybrid cloud strategy of augmenting existing datacenter resources with the cloud, on-demand. Organizations deploy Velostrata for Datacenter Extension often for three different planned events:

→ Run low-utilization VMs in the cloud, on-demand.
→ Move VMs from overloaded hosts to the cloud to restore performance and stability.
→ Run VMs in the cloud while performing maintenance on the host(s).

Challenge
VM sprawl is costly, difficult to manage and inefficient.
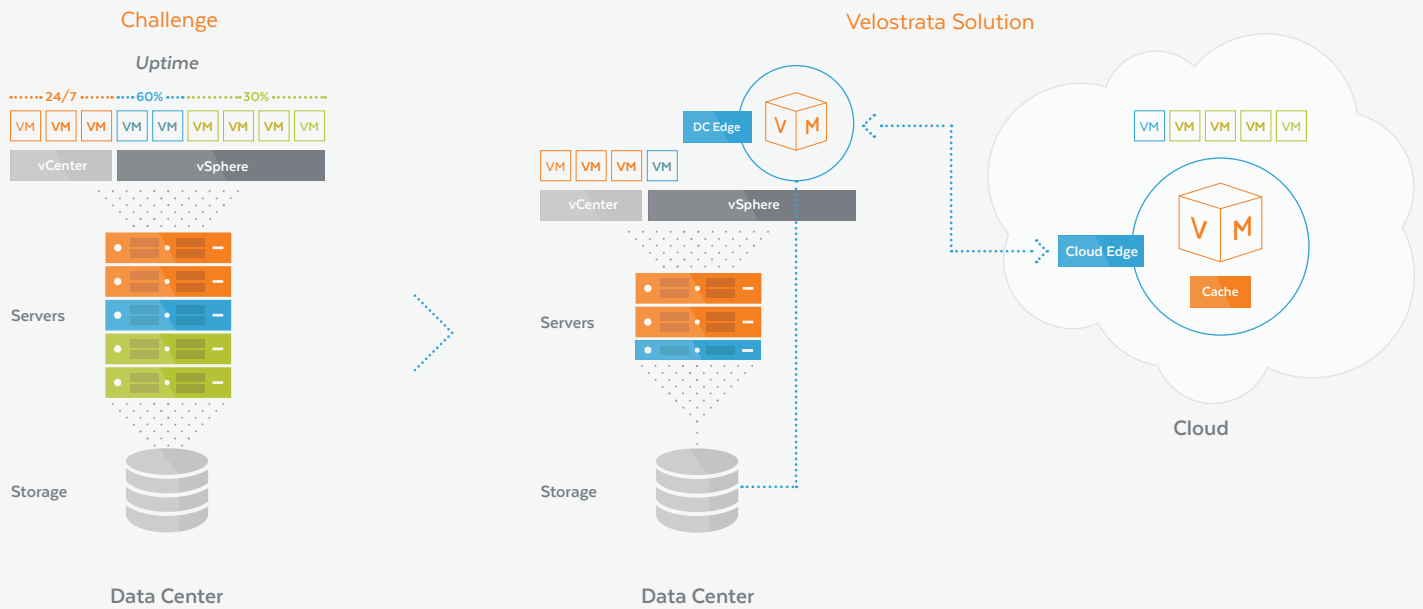
Solution
Use Velostrata to run low-utilization VMs in the cloud on-demand.

Benefits
Reduce costs by leaving storage on-premises while running production workloads in the cloud, on-demand.

Improve business flexibility by streaming production workloads to/from the cloud on-demand.

Improve operation efficiency with single-click access to the cloud via the same management tools and processes you use today.

Challenge

Uptime

24/7   60%   30%

vCenter   vSphere

Servers

Storage

Data Center

Velostrata Solution

DC Edge   V M

VM VM VM VM

vCenter   vSphere

Servers

Storage

Data Center

Cloud Edge   V M

Cache

VM VM VM VM VM

Cloud

Summary

Velostrata addresses the barriers to hybrid cloud adoption in a revolutionary way—by decoupling compute from storage. Velostrata mitigates security and compliance risks and reduces costs by leaving the storage on-premises. There is no longer a need to pay for expensive block storage 24x7 in the cloud. Business agility improves and vendor lock-in is prevented since workloads are streamed to and from the cloud in minutes. With Velostrata, performance is optimized end-to-end, and many customers notice improved performance despite the distance between compute and storage. No changes to the applications, images, or storage are required, and there is no need to learn new management tools and processes. Moving workloads to and from the cloud is as simple as clicking a button.

About Velostrata

Velostrata's mission is to enable frictionless, no-compromise hybrid clouds. "Frictionless" means enterprises have the speed and flexibility to stream production workloads to and from the cloud in minutes with the click of a button. "No-compromise" means enterprises leave the storage on-premises, and yet performance is optimized end-to-end. With Velostrata, hybrid cloud is finally low-risk, cost-effective, fast, and simple. Velostrata is backed by Norwest Venture Partners and Greylock Partners and is headquartered in San Jose, California with R&D in Israel.