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:

Datacenter Extension
Move VMs from overloaded hosts to the cloud to restore performance and stability.

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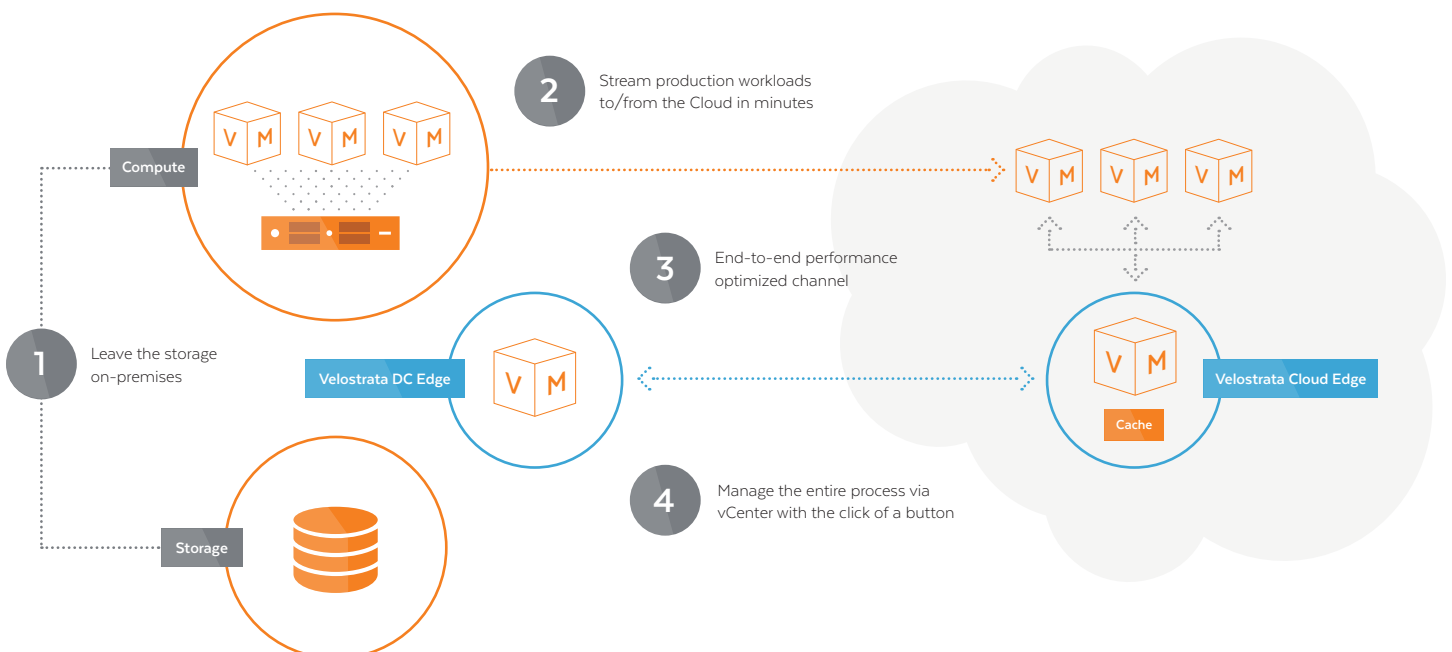Provision the datacenter for average utilization—burst to the cloud during peak times.

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

Compute

2 Stream production workloads to/from the Cloud in minutes

3 End-to-end performance optimized channel

1 Leave the storage on-premises

Velostrata DC Edge

Velostrata Cloud Edge

Cache

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

Storage

Storage Consolidation with Velostrata

Storage consolidation refers to the hybrid cloud strategy of consolidating storage to a centralized datacenter while running VMs in cloud regions geographically close to regional branch offices. Velostrata is the only solution that enables this use case via our unique streaming, caching, and optimization technologies. Despite the distance involved between the now distant storage and compute, performance is optimized with Velostrata.

Challenge
Storage at remote locations adds complexity and cost.
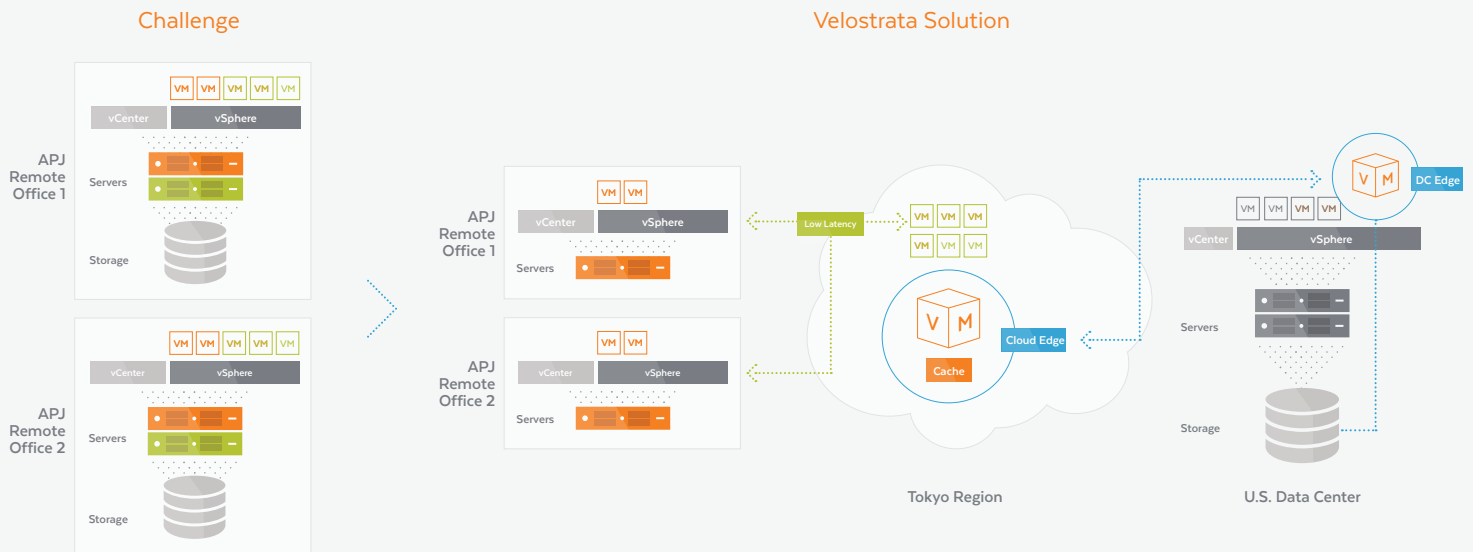
Solution
Consolidate storage to a central datacenter and use Velostrata to run VMs in regionally close cloud regions while optimizing performance.

Benefits
Reduce costs by consolidating storage to a centralized location.

Improve operational efficiency by centralizing storage management while optimizing performance.

Improve business agility by running compute instances in the cloud as needed while optimizing performance.

Challenge

APJ Remote Office 1

VM VM VM VM VM

vCenter | vSphere

Servers

Storage

APJ Remote Office 2

VM VM VM VM VM

vCenter | vSphere

Servers

Storage

Velostrata Solution

APJ Remote Office 1

VM VM

vCenter | vSphere

Servers

APJ Remote Office 2

VM VM

vCenter | vSphere

Servers

Low Latency

VM VM VM
VM VM VM

VM M
Cache

Cloud Edge

Tokyo Region

VM M DC Edge

VM VM VM VM

vCenter | vSphere

Servers

Storage

U.S. Data Center

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.