

SOLUTION BRIEF

Migrate your data-intensive VMware workloads to Google Cloud



Now you can cost-effectively extend data-intensive VMware workloads to Google Cloud

The challenge

Most enterprises haven't yet moved their data-intensive, storage-demanding VMware workloads to the cloud. It's been expensive, time-consuming, and complex. Now there is a feasible and cost-effective path to move these workloads to Google Cloud.

**20 years
of partnership**

**+20,000
joint customers**



Key benefits

Lower TCO: Scale storage independently of compute and optimize storage for VMware workloads

- Reduce on-premises infrastructure costs. Run VMware workloads for savings of up to 30% on Google Cloud by decoupling storage and expensive compute nodes.
- Use [Google Cloud NetApp Volumes](#) as a datastore to support storage-intensive VM applications like imaging, archives, or geographic information systems (GIS).
- Keep large datastores for disaster recovery with a minimal three-node vSphere cluster; then scale up compute to meet disaster recovery or bursting needs.
- Scale a single datastore's capacity to 100TiB without adding vSphere nodes. Add multiple datastores as necessary.

Easily manage performance and availability

- Take advantage of fully managed, built-in failure protection.
- Get the same level of performance that you would get on premises—and that you can scale with an intuitive menu selection.
- Experience consistent data management that's NFSv3-certified by VMware.
- Take advantage of the high-performance infrastructure that Google Cloud VMware Engine is built on. It features fully redundant and dedicated 100Gbps networking that provides up to 99.99% availability¹ for your critical workloads.
- Create NetApp Snapshot™ copies for quick checkpoints and efficiently replicate datastores across regions with incremental block updates—all without using node resources or affecting VM performance.

¹ [Google Cloud VMware Engine Service Level Agreement \(SLA\)](#), May 2, 2022.

An innovative, unified solution

With Google Cloud NetApp Volumes datastore support for Google Cloud VMware Engine, you can now migrate and run storage-heavy VMware workloads in Google Cloud easily and cost-effectively. NetApp is the first cloud storage service provider to be certified and supported as an external, supplemental datastore for VMware on Google Cloud.

Why did Google Cloud and VMware choose to partner with NetApp for this enterprise solution?

- **Experience.** NetApp has the mature native storage services that meet the performance needs of VMware workloads while reducing costs.
- **History.** NetApp has been building integrated solutions with VMware for 20 years, and together we've served more than 20,000 customers.
- **Integration.** As a VMware Design Partner, NetApp has deep integration with VMware services and offerings. Our partnership is built on a common goal of enabling our customers with flexible choices for future change.
- **Services.** Both existing and new NetApp customers can reap the benefits of NetApp ONTAP® data management software. These benefits include reduced costs, accelerated critical workloads, and protected, secured data across your hybrid cloud, without disrupting operations.

Together, NetApp, VMware, and Google Cloud have removed a significant barrier to migrating large, storage-intensive VMware workloads to the cloud. Enterprises can finally take advantage of cloud agility and efficiency for storage-heavy workloads. With NetApp and Google Cloud VMware Engine, you can put your migration plans into action today.

Lower TCO

The bottom line is always top of mind for any successful business. Legacy VMware storage infrastructure has traditionally been an area of concern for two main reasons: expensive infrastructure TCO in the data center and high costs associated with running VMware workloads in the cloud.

It's faster and easier to harness the advantages of cloud when NetApp, VMware, and Google Cloud come together. NetApp's mature cloud services simplify migrating your workloads with Google Cloud NetApp Volumes datastore support for Google Cloud VMware Engine—even if you have in-guest storage connectivity requirements such as NFS or SMB. Because workload management with VMware, your trusted virtualization partner, is integrated with Google Cloud NetApp Volumes, it's easy to quickly adopt new cloud technologies and start migrating.

By decoupling storage from compute, you can decrease the total cost of running VMware applications on Google Cloud. This is the first solution that enables you to scale storage without purchasing extra Google Cloud nodes, resulting in significant cost savings when you run VMware in the cloud. Now you can grow storage capacity independently of compute to support storage-heavy datasets, burst storage capacity needs, and create robust storage repositories in the cloud.

You can scale a single datastore's capacity from 1TiB to 100TiB and add multiple datastores as needed. You can also change the performance of your datastore instantly by selecting the Standard, Premium, or Extreme service level in Google Cloud Console.

Migrate and modernize on your terms while benefiting from the cost controls and optimization that are available only with Google Cloud NetApp Volumes and Google Cloud VMware Engine.

Consistent, simplified operational experience

Your team does best when using familiar tools, so give them a consistent operating experience whether they're on premises or in the cloud. NetApp and VMware integrate natively into Google Cloud. So, when you use Google Cloud NetApp Volumes as a supplemental datastore for Google Cloud VMware Engine, you get one consistent environment, unified data services, and centralized management. Visibility

both on premises and in the cloud? Check.

Your enterprise will benefit from minimal rearchitecting, faster migrations, and the ability to extend and manage consistent IT operations wherever you have workloads. Meanwhile, your team will be relieved, knowing there's less reskilling needed to learn new systems or cloud platforms. ONTAP handles data management, visibility, monitoring, and proactive support of your hybrid infrastructure, which should give you some well-deserved peace of mind.

Whether you've come to love NetApp storage technologies over the years or are using them for the first time, you can enjoy a seamless path to the hybrid cloud with Google Cloud NetApp Volumes and Google Cloud VMware Engine. Rest easy knowing that you have cost-efficient, reliable, and resilient data protection and security with disaster recovery options in the cloud—and yes, those come built in.

No matter where you find yourself on your journey to the cloud, NetApp, Google Cloud, and VMware provide the complete, integrated, and optimized platform to address your key IT initiatives. You'll be at least one step ahead of the competition.



Visit VMware on Google Cloud



Meet with an expert

About NetApp

In a world full of generalists, NetApp is a specialist. We're focused on one thing: helping your business get the most out of your data. NetApp brings the enterprise-grade data services you rely on into the cloud, and the simple flexibility of cloud into the data center. Our industry-leading solutions work across diverse customer environments and the world's biggest public clouds.

As a cloud-led, data-centric software company, only NetApp can help build your unique data fabric, simplify and connect your cloud, and securely deliver the right data, services, and applications to the right people—anytime, anywhere.



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