Migrate your data-intensive workloads to VMware Cloud on AWS

NetApp

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

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. There hasn't been a feasible path to the cloud—until now.

20 years
of partnership

+20,000
joint customers

An innovative, unified solution
VMware Cloud on AWS integration with Amazon FSx for NetApp ONTAP is a first-of-its-kind solution. It is a jointly engineered, fully managed, external NFS datastore that can be attached to a VMware Cloud on AWS vSphere cluster.

You can migrate storage-heavy VMware workloads to VMware Cloud on AWS while obtaining flexible, cost-optimized, and high-performance virtualized storage infrastructure. NetApp is the first cloud storage service provider to be certified and supported as an external supplemental datastore for VMware Cloud on AWS software-defined data centers (SDDCs).

Why did VMware choose to partner with NetApp for this revolutionary solution?

- **Experience.** Only NetApp has the mature AWSnative 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 joint 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.

Key benefits

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

- At last, you can migrate your VMware workloads into the AWS Cloud with NetApp's mature storage services.
- Regain control of your TCO. Run VMware workloads for up to 50% less on AWS by decoupling storage and expensive compute nodes without any additional data transfer fees using VPC peering for single-AZ deployments.
- Get rightsized storage solutions without additional unnecessary compute costs.

Simplify life in the cloud with unified hybrid and multicloud data management

- Take the most cost-efficient path to run workloads in VMware Cloud on AWS with simplified migration, scalability, resilience, and flexibility.
- Experience consistent data protection and management on premises and in the cloud. Control any workload with one unified approach.

Together, NetApp, VMware, and AWS have removed the last barrier that prevents the migration of VMware workloads to the cloud. Finally, enterprises can take advantage of cloud agility and efficiency for storage-heavy workloads. With NetApp and VMware, 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 cloud storage infrastructure has traditionally been an area of concern for two main reasons: expensive 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 AWS come together. NetApp's mature cloud services simplify migrating your workloads with VMware Cloud on AWS and Amazon FSx for NetApp ONTAP—even if you have in-guest storage connectivity requirements such as NFS, SMB, or iSCSI. Because workload management with VMware, your trusted virtualization partner, is integrated with FSx for ONTAP, it's easy to quickly adopt new cloud technologies and start migrating.

By decoupling storage from compute, NetApp, VMware, and AWS customers can finally decrease the total cost of running VMware Cloud services. This is the first solution that enables you to scale storage without purchasing or converting expensive i3.metal to i3en.metal hosts, resulting in cost savings of up to 50% 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. With the VPC peering option for single-AZ deployments, the additional data transfer fees are eliminated.

You can add storage capacity by percentage or absolute value with a minimum capacity per file system of 1024GB and a maximum of 192TB uncompressed. Not enough? You can get even more by using deduplication, compression, and other efficiency technologies to reduce the required storage capacity of your data.

To store smarter, take advantage of virtually unlimited data storage in a single file system by using tiering. Keep your hot data in the primary tier and move that infrequently accessed cold data into a lower-cost capacity pool tier. And if you want to change the data throughput of your file systems, the AWS Console has you covered with 512MBps, 1024MBps, and 2048MBps options. FSx for ONTAP doubled the performance with support for two TCP connections per datastore. VMware Cloud on AWS supports up to four datastores for a total of 4 GBps throughput, which is ideal for databases.

VMware Cloud on AWS has two deployment models. With single-AZ deployments, you can save 50% of the cost of a multi-AZ deployment.

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 AWS. So, when you use FSx for ONTAP as a supplemental datastore for VMware vSAN, 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 protection, 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 ONTAP over the years or are using it for the first time, you can enjoy a seamless path to the hybrid cloud with VMware Cloud on AWS and FSx for ONTAP. 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. NetApp BlueXP™ backup and recovery service provides VM-consistent backups and restores for virtual machines deployed on VMware Cloud on AWS with an FSx for ONTAP datastore.

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

⊕ **Learn more here**

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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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