

Optimized Storage for Enterprise Applications



Challenges

Complexities of migrating enterprise workloads to the cloud

Most organizations have already adopted cloud computing, yet around 90% of traditional enterprise applications remain on-premises and only a small portion have been moved to the cloud. One of the main barriers to enterprise workload migration is the difference between the on-premises enterprise IT environment and the modern cloud computing environment. IT and cloud teams struggle to piece together and configure the optimal arrangement of cloud services that satisfies their organization's strict requirements for data protection, performance and security. Without the suitable tools, enterprise workload cloud migration is a slow and costly endeavor.



NetApp Cloud Volumes ONTAP Solution

Protected Enterprise IT Environment within your VPC

Cloud Volumes ONTAP is a software platform that runs natively on AWS infrastructure operating as a secure enterprise IT environment, with the full set of capabilities of an on-premises data center. With CVO, businesses can rapidly migrate existing enterprise workloads to AWS without the complexities of reengineering applications and designing new architectures. CVO operates within your organization's VPC providing the applications and databases running on your EC2 instances with persistent storage and file sharing that meets enterprise-level requirements for data protection, security and cost efficiency.

Benefits

Cloud Volumes ONTAP leverages AWS's advanced features to deliver a secure architecture that meets the strict demands of primary enterprise workloads.



Simplified Storage Environment

The infrastructure is abstracted away. You get a ready-to-use enterprise IT storage environment without having to manage the underlying infrastructure and services.



Security & Privacy Compliance

Migrate primary enterprise workloads to AWS without rewriting organizational security policies. Supports privacy compliance reporting for personal data protection regulations.



Enhanced Data Protection

Built-in automated tools for high-availability, point-in-time snapshots, backup & disaster recovery consistent across the enterprise.



Storage Cost Reduction

Take advantage of high-performance Amazon EBS with cost reducing storage efficiencies and cold data auto-tiering to low-cost Amazon S3.

NetApp Cloud Volumes ONTAP on AWS

AWS, the industry leading IaaS, together with NetApp, the industry leader in enterprise storage, give businesses a simple and frictionless way to migrate their on-premises enterprise applications and databases to the cloud. Cloud Volumes ONTAP leverages the advanced features of AWS infrastructure to replicate the enterprise-grade capabilities of an on-premises IT environment. By deploying Cloud Volumes ONTAP on AWS, organizations have a safer, faster way to migrate enterprise applications, gaining cloud scalability, agility and cost efficiency. By using AWS resources natively, users continue to benefit from ongoing improvements in AWS infrastructure such as network and storage performance enhancements.

Features



Multi-AZ High Availability

By deploying across multiple AWS Availability Zones, you protect your applications against downtime and data loss due to extreme weather, tornadoes, earthquakes and maintenance periods. CVO provides you with an out-of-the-box, multiple Availability Zone architecture that ensures zero data loss for your applications, databases and file shares.



Optimized Performance

Amazon EC2 virtual machines support Non-Volatile Memory Express (NVMe) storage that provides super-fast access to data. This high-performance memory is normally used for a single compute instance, but with CVO, it can be leveraged to enhance the performance of multiple Amazon EC2 instances. This is done by using the NVMe storage as an intelligent cache reducing latency, accelerating the response time for multiple applications and improving overall user experience.

Case Study: Advanced MD



Challenges

Advanced MD needed to migrate an entire data center to the cloud. They had to do it quickly, while ensuring the sensitive and personal data they handle would remain safe and highly available at all times.



Solution

With Cloud Volumes ONTAP, they were able to rapidly migrate their data to AWS without rearchitecting their applications—and achieving the required data protection and security. Being a low touch system, they didn't require any expertise in cloud storage and infrastructure.



Results

AWS provided cost advantages compared to on-premises storage. With Cloud Volumes ONTAP, they realized additional cost savings from deduplication, thin provisioning and zero-capacity snapshots. With automation and orchestration, they can more focus on innovation and less on managing cloud volumes.

Get started with Cloud Volumes ONTAP solutions on AWS

Visit AWS Marketplace <https://aws.amazon.com/marketplace/pp/B07QX2QLXX> to purchase or start a Free Trial today.