

Amazon FSx for NetApp ONTAP: Tailored for the Demands of Enterprise Applications

Public cloud services provide the backbone for modern IT. As organizations expand their cloud strategies to the full breadth of their application portfolios, however, they require a wider and richer variety of cloud technology options. A common area of need is for enterprise-level file and block data management services. The lack of these enterprise-level data service often hinders, and can sometimes even prevent, an organization from fully realizing their cloud goals.

Business-critical Applications Demand More From Cloud Storage

To fully achieve their cloud goals, IT organizations need enterprise-level file and block storage services that can deliver high performance and high availability — while also providing the business acceleration and simplicity that comes with tightlyintegrated and cloud-native data management services.

» TOP CHALLENGES WITH PUBLIC CLOUD INFRASTRUC



34% say security is their organization's biggest challenge with leveraging public cloud infrastructure services (laaS/PaaS).



Customers Can Now Take Full Advantage of NetApp ONTAP as a Full Featured, Managed Service in AWS

Amazon FSx for NetApp ONTAP delivers the proven data management capabilities, performance, and data protection that NetApp ONTAP has delivered for years and extends ONTAP with native AWS agility, scalability, and simplicity.





Enterprise Availability:

High availability and durability with multi-availability zone support, NetApp SnapMirror.



Enterprise Performance:

Sub-ms latencies, multiple GB/s of throughput, and 100,000+ IOPS per deployment. From 512 MB/s to 2 GB/s.

Enterprise Security And Compliance:

AWS Key Management Service (KMS), automatic encryption at rest and in transit, FIPS 140-2, Microsoft Active Directory (AD) support, AWS Microsoft Managed AD (for SMB and NFS access), third-party file access auditing, anti-virus software, ransomware protection.

Key Benefits of Amazon FSx for NetApp ONTAP



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Multi-Protocol – Support any workload or user via NFS, SMB, and iSCSI protocols.



Price/Performance – Achieve SSD performance at 1/10th the cost with built-in storage efficiency technologies.



High Performance – Leverage ONTAP's enterprise-level performance for data access and data management capabilities.



Integration – Tightly ingrained with NetApp data services, including Cloud Backup, Global File Cache, SnapMirror, and more.



Scalability – Storage capacity that can grow and shrink automatically.



Accessibility – Available to all native AWS cloud services, such as Amazon CloudWatch, AWS KMS, Amazon SageMaker, Amazon Elastic Container Service (Amazon ECS), and more.

Example Use Cases for Amazon FSx for NetApp ONTAP

By combining technologies and expertise from enterprise data center environments and public cloud services, Amazon FSx for NetApp ONTAP is designed for business-critical, cloud-first application environments serving multiple use cases, including:

Common challenges with traditional cloud

93% believe their workload migrations can be improved upon

Use case for Amazon FSx for NetApp ONTAP

VARIETY OF FILE SHARES

User shares, department shares, home directories

Home directories and project shares require reliable and scalable data access across thousands of users.



45%

identify predicting application requirements overtime as a top challenge of placing workloads on the optimal cloud

IT APPLICATIONS AND DATABASES

- SAP, Oracle DB/RAC, SQL Server, CRM, ERP, VMware

Deliver high-performance, low-latency shared storage that meets the operational requirements of the most demanding enterprise applications.



40%

identify determining which cloud can meet their performance requirements as a top challenge of placing workloads on the optimal cloud

LINE-OF-BUSINESS APPLICATIONS

- EDA, M&E post production, Financial Services, Health Care & Life Sciences

A broad set of industries depend on fast storage that can be shared across latency-sensitive Windows and Linux apps and able to burst on-premises data to the cloud.



33%

identify comparing application or data protection capabilities as a top challenge of placing workloads on the optimal cloud

DATA PROTECTION AND REPLICATION

- Backup and archive / Disaster Recovery from on-premises and cross-region

Meet data retention and disaster recovery requirements with centralized, policy-based Snapshot, SnapVault, and SnapMirror to easily backup, archive, or replicate your on-premises workloads

The Bigger Truth

There is little doubt that the cloud is the center of modern IT environments. However, when it comes to enterprise applications, organizations need additional cloud storage options. When organizations adopt cloud services, the goal should not be simply to achieve some slight incremental benefit. Organizations should seek to leverage services that can help transform operations and deliver benefits orders of magnitude beyond what was possible with traditional technology.

By combining ONTAP's rich data management capabilities, proven enterprise-grade features, performance, and data protection with AWS' native service agility, scalability, security, and simplicity, Amazon FSx for NetApp ONTAP can deliver the transformational benefits that your business demands.

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