

OPTIMIZE YOUR AWS EXPERIENCE FOR ENTERPRISE WORKLOADS



THE PROBLEM

The main challenge to cloud adoption is migration of tier 1 workloads. These mission-critical applications require an enterprise-scale architecture to handle high availability and performance demands.

Most organizations struggle to find cloud infrastructure and file services that meet their objectives for data protection, scalability, and resilience.

THE SOLUTION

NetApp industry-leading block, file, and object storage offers multiprotocol support for Windows, Linux, and Mac.

Our enterprise solutions have the capabilities you need for migrating storage-heavy applications, databases, and AI/ML environments to the cloud.

With NetApp® ONTAP®, you can natively run cloud workloads or quickly lift and shift legacy apps into the AWS Cloud—all at optimized cost. You don't need to refactor code or redesign processes. And you can use ONTAP as a self-directed solution or as a fully managed service.

It's a snap to extend and migrate to AWS, because you're using the familiar file storage workflows, orchestration, and data protection capabilities that you use on premises.

The state of enterprise application migration

82% Management of cloud spending is the number one challenge for 82% of surveyed decision makers.¹

56% Survey respondents anticipate migrating 56% of their total production data into public cloud.²

50% Half of surveyed business leaders cite IT infrastructure optimization as their top initiative for 2023.³

5 ways NetApp and AWS support you



1

Get the best of both—NetApp + AWS

Run Windows, Linux, and Mac workloads with multiprotocol support for CIFS, NFS, iSCSI, NVMe/TCP, and S3 connectivity.



2

Continuous optimization

When you extend mission-critical applications from the premises to AWS, you retain the data efficiencies and optimizations found in the data center—they're readily available on AWS.



3

Durability and availability

You can meet uptime and availability SLAs with simple and fast replication across AWS Availability Zones and get highly durable daily backups that are incremental forever and block based.



4

Flexible data management

NetApp ONTAP enterprise-grade data services combine with the agility and scalability of AWS to provide consistency across the hybrid cloud. You get a unified data experience whether you use the self-directed NetApp Cloud Volumes ONTAP or the native AWS-managed service in Amazon FSx for NetApp ONTAP.



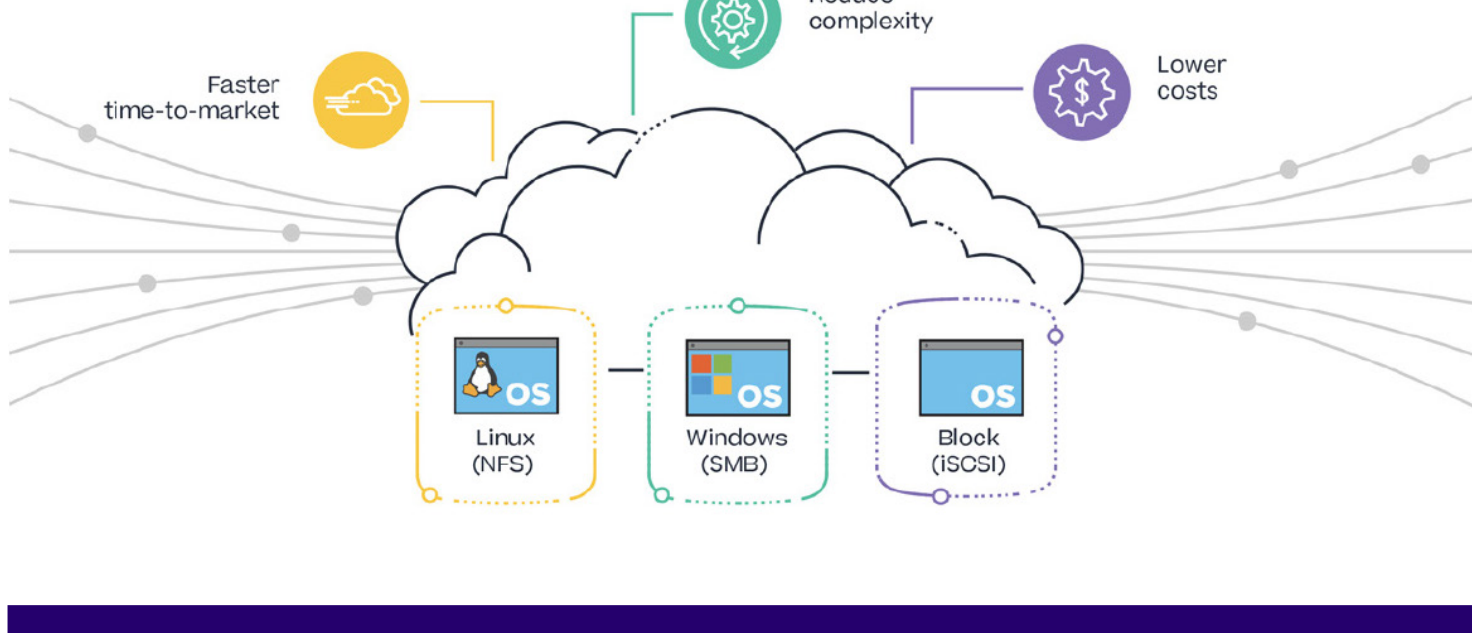
5

Robust set up

Manage and monitor your data with the combined capabilities of the AWS Management Console and NetApp BlueXP. FSx for ONTAP is the only cloud service that supports both AWS and NetApp APIs.

Unlock the best of AWS

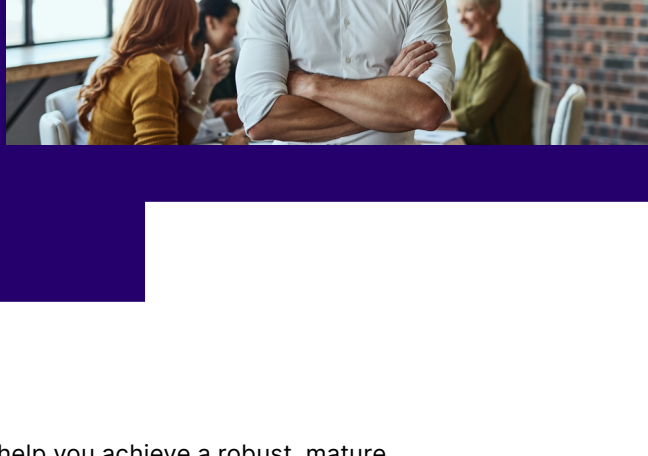
Seamlessly create hybrid cloud storage on AWS.



"Because our customers are media and financial institutions, downtime is not an option. NetApp's highly available storage in AWS provides nonstop operations and business continuity."

Lorenzo D., Lead Infrastructure Engineer, EidosMedia

[Read story](#)



Competitive edge

Market leaders NetApp and AWS provide the building blocks that help you achieve a robust, mature, enterprise-great cloud environment.



Supports your DevOps and application-driven infrastructures

- Increase DevTest agility with a cloud-native shared file system to shorten release cycles. Enable persistent data and state from containers and serverless functions like Amazon ECS, Amazon EKS, and AWS Lambda.
- Enable availability across AWS Availability Zones.
- Provide DevOps with common storage to organize and share code and files securely.



Run file shares on AWS

- Launch, run, and scale NFS and SMB shared file storage for your business apps. Address storage-heavy workloads by connecting to Amazon EC2, Amazon ECS, Amazon WorkSpaces, and Amazon AppStream.
- Meet the scalability, elasticity, availability, and durability required for enterprises.
- Migrate storage-heavy apps, ERP, CRM, Microsoft Exchange, and SQL Server, and take advantage of Microsoft Active Directory integration.



Lift and shift your enterprise workloads

- Migrate and build enterprise-scale architectures and hybrid cloud workloads. Support software-as-a-service (SaaS) applications with a multiprotocol file system. Optimize cost, time, and latency to streamline your migration without rearchitecting or sacrificing performance and reliability.
- Automate data replication and failover, simplifying shared storage to host your database.
- Easily migrate your Oracle, SQL Server, and SAP HANA database workloads to AWS. FSx for ONTAP is SAP-certified and can host database backups for protection during updates or for DevTest operations.



Get data protection for cloud workloads

- Get 3-2-1 data backup with incremental-forever, block-based backups. Take advantage of built-in storage efficiencies for cloud-based disaster recovery with drag-and-drop simplicity, nondisruptive testing, compliance, security, and data sovereignty features.
- Protect, repurpose, and easily manage your data by using NetApp Snapshot™ copies, rapid copies, and data synchronization.
- Create data copies on AWS, and then lower disaster recovery costs with cold-storage and tiering to Amazon S3.



"Using NetApp Cloud Volumes ONTAP from AWS Marketplace, we have achieved recovery times in testing that are almost instantaneous, and with as little as 10 minutes of data loss."

Peter Raettig, Head of Technical Operations, Reach plc

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Unmatched solutions for your enterprise cloud

Optimize your AWS experience for enterprise-scale apps and meet your cloud mandate for hybrid and cloud-native workloads. Amplify your cloud storage infrastructure and data services through a unified control plane that helps to:

Simplify.

Deploy, discover, manage, and optimize data and its infrastructure from the comfort of [NetApp BlueXP™](#), a unified control plane delivering a simplified hybrid multicloud experience.

Protect.

Meet uptime and availability SLAs with snapshot [NetApp SnapMirror™](#) replications across AWS Availability Zones and restore instantly with zero-impact NetApp Snapshot copies. Gain durable, incremental-forever, block-based daily backups from [NetApp BlueXP backup and recovery](#).

Access.

Extend on-premises data into AWS with SnapMirror or the NetApp BlueXP copy and sync service. Speed up latency sensitive on-premises workloads by using [NetApp FlexCache™](#) to burst to AWS.

Govern.

Use the compliance dashboard [NetApp Blue XP classification](#) to meet unstructured data standards and adhere to GDPR and other regulations by locating personally identifiable information (PII).

Monitor.

Take advantage of [NetApp Data Infrastructure Insights](#) to see across the entire infrastructure (on premises to cloud) and identify apps that are poised to migrate to AWS.

Optimize.

Optimize capacity resources with fully elastic storage tiering with [NetApp BlueXP tiering](#) to move cold data to Amazon S3. Scale compute resources to maximize use for up to 90% lower cost with [Spot by NetApp](#).

Questions to guide your AWS journey

- 1 Would you like to manage your data with the same set of features, no matter where it's stored?
- 2 Do you have applications "stuck" on premises that you'd like to move to the cloud?
- 3 Would you benefit from a lift and shift of Linux, Windows, and Mac workloads to AWS that avoids a need to refactor?
- 4 Can you take advantage of storage efficiencies that minimize your storage footprint and maximize your cost savings, while protecting against downtime with high availability?
- 5 Does the lack of performance or visibility across your hybrid cloud environment keep you from moving more workloads to the cloud?

Licensing: Cloud Volumes ONTAP

Start with NetApp BlueXP, a unified control plane delivering a simplified hybrid multicloud experience for storage and data services across on-premises and AWS Cloud environments.

[NetApp BlueXP and Cloud Volumes ONTAP pricing](#)

Licensing: Amazon FSx for NetApp ONTAP

With Amazon FSx for NetApp ONTAP, you pay only for the resources you use. There are no minimum fees or setup charges. While pricing is quoted on a monthly basis, your usage is prorated by the hour and you are billed for your average usage over a month.

There are six Amazon FSx for NetApp ONTAP components to consider when storing and managing your data: SSD storage, SSD IOPS, capacity pool usage, throughput capacity, backups, and NetApp SnapLock® licensing.

[Amazon FSx for NetApp ONTAP pricing](#)

Additional resources

[Talk to a specialist >](#)

[Cloud Volumes ONTAP overview >](#)

[FSx for ONTAP overview >](#)

[NetApp services portfolio for AWS >](#)

Sources:

1. Flexera, 2023 State of the Cloud Report.
2. Cloud Migration Data Collection Survey, IDC, 2023
3. Insight, [The Path to Digital Transformation](#), 2023.



Contact Us

About NetApp

NetApp is the intelligent data infrastructure company, combining unified data storage, integrated data services, and CloudOps solutions to turn a world of disruption into opportunity for every customer. NetApp creates silo-free infrastructure, harnessing observability and AI to enable the industry's best data management. As the only enterprise-grade storage service natively embedded in the world's biggest clouds, our data storage delivers seamless flexibility. In addition, our data services create a data advantage through superior cyber resilience, governance, and application agility. Our CloudOps solutions provide continuous optimization of performance and efficiency through observability and AI. No matter the data type, workload, or environment, with NetApp you can transform your data infrastructure to realize your business possibilities. www.netapp.com



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