Companies across all industries are looking to the cloud to provide common file shares for

THE PROBLEM

TACTICAL BUYERS GUIDE

Windows and Linux workloads. Some general-purpose file services options may seem attractive, but they tend to be siloed, complex, slow, and risky. Legacy vendors offer "cloud" as an afterthought, often leaving out basic functionality. Worse yet, their offerings can be costly, difficult to scale and to

provision, and badly integrated with their applications. Don't get left behind.

management features that are the same on premises and in the cloud. Amazon FSx for NetApp ONTAP brings the

THE SOLUTION

full capabilities of ONTAP to a native AWS-managed service, enabling you to easily power primary workloads and quickly build modern applications. Get full support for block, file, and object storge for Windows and Linux workloads. It's the first time these multiprotocol capabilities have been available as a fully managed service—all integrated with the complete NetApp

Trusted in thousands of data centers, NetApp® ONTAP®

software provides a powerful set of storage and data

■ NetApp

portfolio. Now you can get data center-quality performance, control, and reliability in the cloud-sold, managed, and supported by AWS.

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

The future of cloud migration

74%

82%

On average, 74% of the applications that still reside in on-premises

centers are candidates for transition to the cloud.2

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

Amazon FSx for NetApp ONTAP is delivered as an AWS service and powered by ONTAP, the industry-leading block and file storage system that lets you access

Infrastructure Insights, you can plan a smooth migration. And with NetApp Workload Factory, an intelligent optimization and automation service that uses well architected principles, you can design, set up, and operate key workloads

Set up, manage, and monitor your data with the AWS Management Console

Five ways Amazon FSx for NetApp ONTAP offers the best of AWS and NetApp

¹Flexera, 2023 State of the Cloud Report.

²ESG, NetApp Removes Hurdles to Cloud Adoption

³ Insight, The Path to Digital Transformation, 2023.

data over NFS, SMB, iSCSI, and Amazon Simple Storage Service (Amazon S3) object protocols. It has never been easier to extend or to lift and shift Linux and Windows workloads into the hybrid cloud or AWS Cloud. With NetApp Data

Get the best of both worlds



and/or NetApp BlueXP. FSx for ONTAP is the only cloud service that supports both AWS and NetApp APIs. So, configure away with ONTAP features like NetApp

Bring your own preferred capabilities

using FSx for ONTAP.

OpenShift Service on AWS (ROSA). Achieve AWS submillisecond response times Migrate more performance-intensive apps to AWS with submillisecond response times, up to 72GBps read throughput, up to 12GBps write throughput, up to 2.4 million SSD IOPS, and a 1PB-scale namespace with 12 high-availability (HA) pairs. And when it's time to migrate third-party data, ditch the kitchen sink for NetApp BlueXP copy and sync.

Get the cost-saving storage efficiencies of ONTAP: data deduplication, compression, compaction, and thin provisioning. By using elastic capacity pool tiering, automatically tier data from SSD storage to capacity pool storage, such as Amazon S3, based on

Get data protection and security that doesn't quit

Easily protect your data without increasing complexity by leveraging included cybersecurity capabilities. Protect against file system unavailability with automatic NetApp SnapMirror replication. Automatically analyze your data to

storage to keep your electronic records unalterable and rapidly accessible.

<u>Snapshot</u>™ copies, <u>NetApp FlexCache</u>® remote data caching software, and <u>NetApp</u> FlexClone® thin cloning. And integrate your favorite AWS services, such as Amazon CloudWatch, Amazon Elastic Kubernetes Service (Amazon EKS), and Red Hat

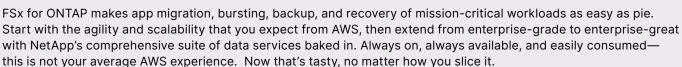


proactively detect and warn you about abnormal activity that could indicate a ransomware or malware attack with Autonomous Ransomware Protection (ARP). Lock your data for compliance with NetApp SnapLock to provide immutable

Optimize price and performance

access patterns.

Unlock the best of AWS



AWS cloud."

"By fully supporting NetApp ONTAP APIs and features like SnapMirror and SnapVault, Amazon FSx for NetApp ONTAP enables NetApp

Competitive edge More choice, more options, better public cloud—AWS is at the top of the public cloud exosphere when it comes to options for customers. With FSx for ONTAP, you lower your system latency, cost, and data risk; streamline management; and get benchmark-tested performance.

customers to seamlessly replicate their data from on premises to the

Tom DeCoster, Vice President of Hybrid Infrastructure at CDW



Service that's built in AWS, powered by ONTAP,

ONTAP capabilities, APIs, and high performance that

• Simplify file distribution, reduce WAN latency, and lower

· Achieve always-on productivity with four nines availability.

· Experience the agility, scalability, and reliability of running your applications on AWS with the same

WAN bandwidth costs with FlexCache.

Tested and trusted service with more

• FSx for ONTAP is certified for SAP HANA and is a

supported storage service for Amazon Elastic

• FSx for ONTAP obtained Federal Risk and Authorization

Management Program (FedRAMP) Moderate and High <u>Authorization</u> and Department of Defense (DoD) Cloud

Computing Security Requirements Guide (SRG) Impact

Level 2 (IL2), IL4, and IL5 authorization. Government agencies know that FSx for ONTAP meets rigorous

integrations and certifications

VMware Service (EVS).

sold through AWS

you expect on premises.

changes required.

Real-time infrastructure management with analytics Monitor and analyze with complete infrastructure visibility. With the BlueXP observability service that uses Data

resolution by up to 90%.

on premises."

Full-featured ONTAP capabilities

eliminates needless complexity.

 Effortlessly lift and shift from on-premises ONTAP deployments into AWS with just a few clicks.

· Extend your enterprise cloud on AWS by optimizing

scale, time, and latency. No painful refactoring or code

• Simplify cloud storage management—across on premises

and the cloud. The single-pane-of-glass BlueXP interface

Run cloud infrastructure without the hassle of managing the servers.

Optimize infrastructure costs for containers.

Infrastructure Insights, you can reduce the mean time to

"Amazon FSx for NetApp ONTAP

makes it easy for organizations to

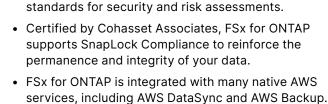
extend the power of ONTAP into AWS, enabling teams to easily use the NAS features and capabilities in AWS that they've come to love

Edward Naim, General Manager of File Storage, AWS

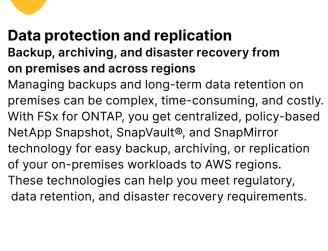
Ease migration to AWS while keeping on-premises standards

recovery, primary applications, born-in-the-cloud applications, and faster DevTest cycles.

With Amazon FSx for NetApp ONTAP, you get capabilities for data-led migrations, performance-intensive workloads, petabyte-scale datasets, and data protection. You can use it for network file shares, cloud-based backup and disaster



Variety of file shares User shares, department shares, home directories Home directories and group shares require reliable and scalable data access for thousands of users. FSx for ONTAP is compatible with all popular client operating systems, and it integrates with FlexCache to give you low-latency access from on-premises environments. Take advantage of the broadest global infrastructure and full range of AWS service integrations.



A broad set of industries depend on fast storage that

can be shared across latency-sensitive Windows and

Linux applications. Get multiprotocol support for complex workflows with the flexibility to burst on-premises data

to AWS. FSx for ONTAP supports SnapLock Compliance,

Al and generative Al (GenAl), electronic design automation,

VFX production and film editing, statistical computing

These workloads need more performance or SSD storage

which provides immutable file storage for enterprise



resources with just a few clicks. It's faster and easier than ever to develop and to test new applications.

NetApp APIs from the AWS performance needs, and control infrastructure costs. Management Console or NetApp BlueXP control plane. **Optimize** Reduce



workloads in regulated industries.

Performance-intensive workloads

than a single file system can provide. Instead of spreading your data and I/O across multiple file systems, FSx for ONTAP can support up to 12 file servers in a single cluster, delivering up to 72GBps read throughput, up to 2.4 million SSD IOPS, and a 1PB-scale namespace making it even easier to migrate, to extend, and to operate your workloads in AWS.

the cloud—without one iota and instantly restore your of administrative overhead. data with zero-impact Get access to important Snapshot copies. Get built-in metrics to help you slash automation to replicate copies troubleshooting time, predict across AWS Availability Zones and to gain control with costeffective, incremental-forever, block-based backups.

Protect

Provide disaster recovery

for your on-premises and

cloud data with SnapMirror, along with automated

data synchronization from

NetApp BlueXP copy and

sync. Reduce backup times

Satisfy General Data **Protection Regulation** (GDPR) and other audit and compliance requirements with the BlueXP classification service. Thwart ransomware and other external threats with the Storage Workload Security feature of **Data** Infrastructure Insights. Cloud-native FSx for ONTAP supports both AWS and

Significantly reduce your

costs by up to 70% with the

built-in efficiency features,

and compression.

including tiering, deduplication,

Extend your resources. Build applications faster with multiprotocol support, hybrid caching, and bursting

capabilities.

commitments, licensing costs, or up-front fees. You're billed by the second for your FSx

Licensing

With Amazon FSx for NetApp

resources that you don't want.

You pay only for the resources

that you use, with no minimum

ONTAP, you don't pay for

for ONTAP file systems, and you're billed monthly for any separately licensed NetApp portfolio services that you have enabled.

Additional resources

Amazon FSx for NetApp ONTAP overview > AWS overview of FSx for ONTAP >

Get started >

See pricing details >

View the user guide >

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 Al. No matter the data type, workload, or environment, with NetApp you can

Talk to a specialist >

Contact Us

■ 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 silotransform your data infrastructure to realize your business possibilities.

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ERP, VMware

Faster application development Ability to run cloud-native apps, full support for microservices and container management Automate within minutes, then combine infrastructure as code, flexible compute bursting, and FSx for ONTAP storage to create, to clone, and to replicate your configuration and

IT databases and applications

SAP HANA, Oracle Database/RAC, SQL Server, CRM,

FSx for ONTAP delivers high-performance, low-latency

of even your most demanding enterprise applications.

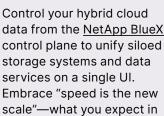
FSx for ONTAP is certified to support Amazon Elastic VMware Service (EVS) and SAP HANA workloads, and it

shared storage that meets the operational requirements

supports highly available database workloads such as Oracle

RAC and Microsoft SQL Server, as well as virtual infrastructure.

Simplify Economize Control your hybrid cloud data from the NetApp BlueXP



and analytics