



Move to Managed File Systems and Hybrid Cloud Storage with AWS

Enhance agility, security, and cost-efficiency to innovate faster with data



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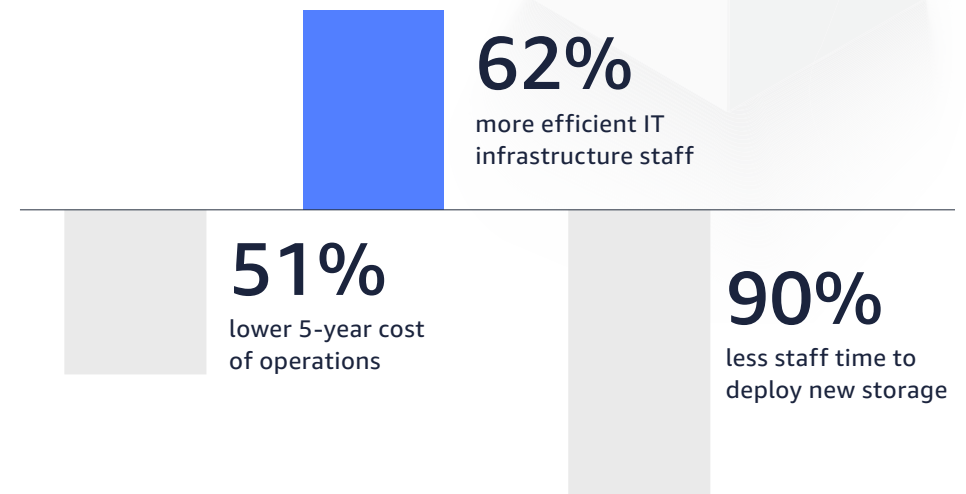
Introduction

Network-attached storage (NAS) on traditional infrastructure has been the standard for business-critical applications. Yet, the time and manual effort required to manage on-premises storage makes it increasingly difficult to scale applications alongside the ever-increasing speed of continuously generated data. Organizations are migrating their business-critical applications to the cloud to increase agility and innovation, while lowering their total cost of ownership (TCO).

While the benefits of the cloud are clear, each organization has its own unique set of requirements. For many, their primary concerns are maintaining application availability, securing their data, and minimizing the transition period from on-premises to the cloud.

This eBook explores the benefits of moving file storage workloads for your business-critical applications to the AWS Cloud.

Benefits of moving to managed file storage with AWS*



*A recent IDC survey reported that moving applications to AWS improves efficiency, while lowering long-term costs.

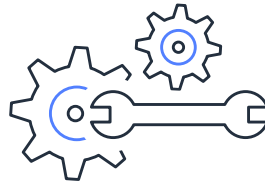
Why move to managed storage?

AWS offers a range of file storage, hybrid cloud storage, and data transfer services to quickly and easily support your applications.



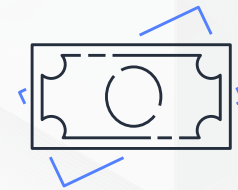
Faster time-to-market

Leverage a range of cloud storage solutions to easily move to managed file storage without changes to your applications or workflows.



Reduce complexity

Simplify by leveraging storage and data transfer services that are fully compatible with the features and functionality you need.



Lower costs

Fully managed infrastructure, with pay-as-you-go pricing, helps you retire technical debt and reduce operational overhead.

“We chose AWS for our data center workloads based on our assessment of the security, availability, and performance of the platform and moved all production systems into the AWS Cloud in less than four months.”

Rajeev Bhardwaj
Sr. Director of Enterprise Technology,
Edwards Lifesciences

Use cases for moving to managed storage

AWS services help you easily move to managed storage for application workloads across industry verticals and use cases.

Web serving &
content management



Home directories



Analytics



Databases



Business
applications



Media workflows



Application
development & testing



Enterprise Resource
Planning (ERP)

AWS file storage, hybrid cloud storage, and data transfer solutions for business-critical applications

The AWS Cloud is built to deliver flexible, reliable, scalable, and secure infrastructure at petabyte scale. AWS storage services are designed to meet enterprise compliance requirements, including HIPAA, SOC, and GDPR.



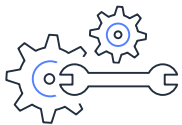
Enhance availability and performance

AWS storage solutions can be provisioned on-demand to meet peaks in customer activity, maintaining high uptime. Increase scalability across separate geographic areas with Availability Zones (AZs).



Strengthen your security posture

AWS infrastructure enables you to strengthen your application security with robust identity and access management (IAM) controls, 24/7 monitoring, and end-to-end encryption.



Simplify integrations

Leverage AWS automated APIs and managed services, so you can spend more time building and optimizing your business without the need to re-architect or make changes to your applications.



Improve TCO

AWS storage classes allow you to move less frequently accessed workloads to cost-optimized storage classes while meeting business and regulatory requirements



Hybrid Cloud Storage Integration

Many customers want to take advantage of the benefits of cloud storage, but have applications running on-premises that require low-latency access to their data, or need rapid data transfer to the cloud. AWS hybrid cloud storage architectures connect your on-premises applications and systems to cloud storage to help you reduce costs, minimize management burden, and innovate with your data.

AWS file storage, hybrid cloud storage, and data transfer options

Expanding on-premises NAS consumes time, capital, and hardware. AWS offers high performance, reliable storage for a broad range of workloads including high performance databases and enterprise applications.



File storage

AWS file storage services enable customers to migrate their Linux and Windows-based workloads to the cloud using fully managed shared file systems.

[Amazon EFS for Linux Workloads](#)

Fully managed file system that provides elastic file storage for a broad range of Linux-based applications

[Amazon FSx for Windows File Server](#)

Fully managed file system built on Microsoft Windows Server



Hybrid cloud storage

AWS hybrid cloud storage, data transfer, and migration services integrate seamlessly with applications using standard protocols, mitigate WAN latencies, and provide a consistent AWS management experience.

[AWS Storage Gateway](#)

A hybrid cloud storage service enabling you to seamlessly connect and extend your on-premises applications to AWS

[AWS Snow Family](#)

These services are used in edge locations with limited connectivity, and provide storage and computing capabilities in harsh environments

[AWS DataSync](#)

Easily transfer hundreds of terabytes and millions of files into Amazon EFS, Amazon FSx for Windows File Server, and Amazon S3

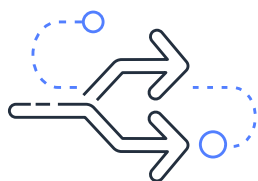
“Our petabyte scale data migration journey from on-premises to AWS was accomplished swiftly with minimal effort and was completely self-managed with AWS DataSync. This solution is a game changer!”

Satish Kumar

Infrastructure Engineer at Autodesk Inc

AWS migration programs and partners

AWS and our partners are dedicated to enhancing your ability to move applications to the cloud.



Migration Acceleration Program (MAP)

MAP is designed to help enterprises offset the initial cost and complexity of large-scale migrations – and accelerate their migration timeline – by providing consulting support, training and services credits, and robust sets of automation tools.



AWS Partner Network (APN)

APN is a global partner program focused on building successful AWS-based business and solutions, helping you take full advantage of the cloud. To qualify, partners must be in good standing with AWS and meet specific program criteria.



The biggest benefit of our migration to AWS is the agility it allows us to have when it comes to scaling, whether it be storage or processing environments.

Terrell Cassada
CIO of LoanLogics

Case study

LoanLogics

LoanLogics is a software company that helps its customers validate compliance and manage risk during the manufacture and acquisition of loan assets. They process millions of mortgage loans per month – accruing more than 350 million unique documents processed.

Challenge:

Before moving to the cloud, LoanLogics had six data centers. They were severely hampered through infrastructure due to the rate at which the business was growing. On top of that, they were expanding their business to perform high-volume loan servicing transfers – which is a highly variable process. To meet client demand, they needed to rapidly scale out their storage capacity – but were unable to continue with on-premises deployments, as the purchase and provisioning of additional servers would take too long.

They needed to get up and running on the cloud quickly, while maintaining service functionality and uptime. A key item to address was that their underlying applications have strong dependencies on network file systems (NFS).

Solution:

LoanLogics implemented [AWS Storage Gateway](#) as part of their hybrid cloud strategy. Migrating file storage to fully managed [Amazon Elastic File System \(EFS\)](#), LoanLogics gained all the elasticity and scalability of the cloud with their NFS-based file system, without making any modifications to their applications. LoanLogics was able to scale up to meet storage demands in hours and days, instead of weeks, using [AWS storage solutions](#). In the past, it took three weeks to get a new disk array ordered and installed. With AWS, LoanLogics is able to do it in a matter of hours.

Resources

- ◆ [AWS Storage Blog](#)
Read about the latest launches and best practices
- ◆ [Amazon Elastic File System](#)
- ◆ [Amazon FSx for Windows File Server](#)
- ◆ [Hybrid Cloud Storage on AWS](#)
- ◆ [AWS Storage Gateway](#)
- ◆ [AWS DataSync](#)
- ◆ [AWS Snow Family](#)

[Learn more about AWS cloud storage](#)

