

NetStorage

Globally distributed cloud-based storage to maximize delivery performance



The cloud storage industry has historically lacked a holistic solution for maintaining large collections of on-demand digital content – including electronic images, streaming media files, software, documents, and other digital objects – while also offering performance compatible with today’s online delivery needs and customer’s expectations of instant access. With more online users demanding the highest quality experience, a superior cloud-based delivery solution must be supported by a globally distributed, geographically replicated, flexible and reliable content storage solution that can instantly scale to meet customer needs.

NetStorage is a secure, cloud-based service designed to meet these storage requirements, while offering customers significant cost reduction and simplified management effort. Built on the globally scalable Akamai Intelligent Platform™ it offers on-demand capacity, geographical replication, and proven server mapping and routing technology. NetStorage is designed specifically to meet the demands of high performance online content delivery and content workflows with a key set of features intended to simplify and optimize cloud-based online storage. Designed for constant availability, NetStorage offers many essential features lacking in today’s cloud-based storage solutions – all without investing in and maintaining dedicated storage servers.

How it Works

Simply upload content to a designated online directory using one of many standard upload transport protocols, such as SFTP, or with the higher performance optional Aspera Upload acceleration feature. NetStorage replicates the content immediately to two or more geographically diverse locations, not only for reliability but also to place the content as close as possible to users. When a user requests content, the Akamai Intelligent Platform™ automatically selects the copy from the location providing the best performance for a fast, high quality user experience.

For your online content delivery solution, quality and performance are paramount for end user satisfaction and engagement. NetStorage is designed to operate in concert with Akamai’s delivery to specifically provide the highest performance, reliability and availability (“uptime”) possible for your online delivery applications.

Key Capabilities

- **Automatic content replication and enhanced delivery performance** that is geographically dispersed, offering the resilience needed to keep your content available, regardless of regional power outages, bandwidth congestion, and natural disasters
- **A scalable infrastructure** that removes the burden of storage capacity planning, while supporting rapid on-demand storage needs for services such as DVR functionality for live streaming events
- **Dynamic mapping** using Akamai’s integrated Global Traffic Management (GTM) algorithms to identify the optimal NetStorage location from which to serve the content

BENEFITS TO YOUR BUSINESS

- **Boost performance** by delivering content from storage close to end users instead of a single origin site
- **Scale globally and on demand** by mirroring content in multiple locations across the Internet, safeguarding against large regional outages
- **Increase availability** through the redundancy and fault tolerance Akamai builds into every component
- **Deliver the highest quality online experience** through intelligent content routing based on analysis of network performance, congestion and server load.
- **Reduce budgeting complexity** through a simple, “storage-used” pricing model – no complex calculations based on reads, writes and bandwidth
- **Simplify media workflows** by combining NetStorage with Akamai’s cloud-based video on demand transcoding services on a single platform
- **Flexibly manage content** with support for standard transfer protocols such as FTP and SCP and premium file transport using Aspera’s patented FASP™ technology

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- **Flexible content management:**

- o Standard File Transfer Protocol Flexibility for broad compatibility with your systems, including FTP, FTPS, SFTP, SCP, RSYNC, RSYNC over SSH, and WGET with file management provided via Akamai's Luna Control Center
- o Rapid file transfers with the Aspera Upload Acceleration feature, leveraging client side software to provide transfer speeds that are multiple times faster than standard transfer protocols, effectively minimizing the negative performance impacts of packet loss, distance or latency. Client software is available for Windows, OS X, and Linux (Linux, Linux Deb, FreeBSD).
- o NetStorage's HTTP API allows you to manage your NetStorage content from your in-house content management systems
- o The use of advanced tools unique to NetStorage, including Content Management Shell (CM Shell) and Site Snapshot, where you can interact with your content and automatically ingest content or schedule regular content updates

- **A customized, flexible and cost-effective storage solution** supported by Akamai experts

- **Simplified media workflows** leveraging NetStorage for content preparation and origin location, enabling an efficient, streamlined process that can be deployed with one-step simplicity

The Akamai Ecosystem

Akamai makes the Internet fast, reliable and secure. Our comprehensive solutions are built on the globally distributed Akamai Intelligent Platform™, managed through the unified, customizable Luna Control Center for visibility and control, and supported by Professional Services experts who get you up and running easily and inspire innovation as your strategies evolve.

1. Customers upload content to the closest NetStorage data center using any of the supported methods: FTP, SFTP, FTPS, SCP, RSYNC, RSYNC over SSH, WGET, NetStorage HTTP API, File Manager (web UI available on the Akamai Luna Control Center), Aspera Upload Acceleration, CMS shell, etc.
2. NetStorage automatically replicates content to the other geographically distributed data centers configured to host that content.
3. Content is delivered to end users worldwide with the best performance thanks to the Global Akamai Intelligent Platform™



Akamai® is a leading provider of cloud services for delivering, optimizing and securing online content and business applications. At the core of the company's solutions is the Akamai Intelligent Platform™ providing extensive reach, coupled with unmatched reliability, security, visibility and expertise. Akamai removes the complexities of connecting the increasingly mobile world, supporting 24/7 consumer demand, and enabling enterprises to securely leverage the cloud. To learn more about how Akamai is accelerating the pace of innovation in a hyperconnected world, please visit www.akamai.com or blogs.akamai.com, and follow @Akamai on Twitter.

Akamai is headquartered in Cambridge, Massachusetts in the United States with operations in more than 40 offices around the world. Our services and renowned customer care enable businesses to provide an unparalleled Internet experience for their customers worldwide. Addresses, phone numbers and contact information for all locations are listed on www.akamai.com/locations.