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 customers' 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 Edge 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 Edge 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.

BENEFITS TO YOUR BUSINESS

Boost performance by delivering content from storage close to end users instead of from 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
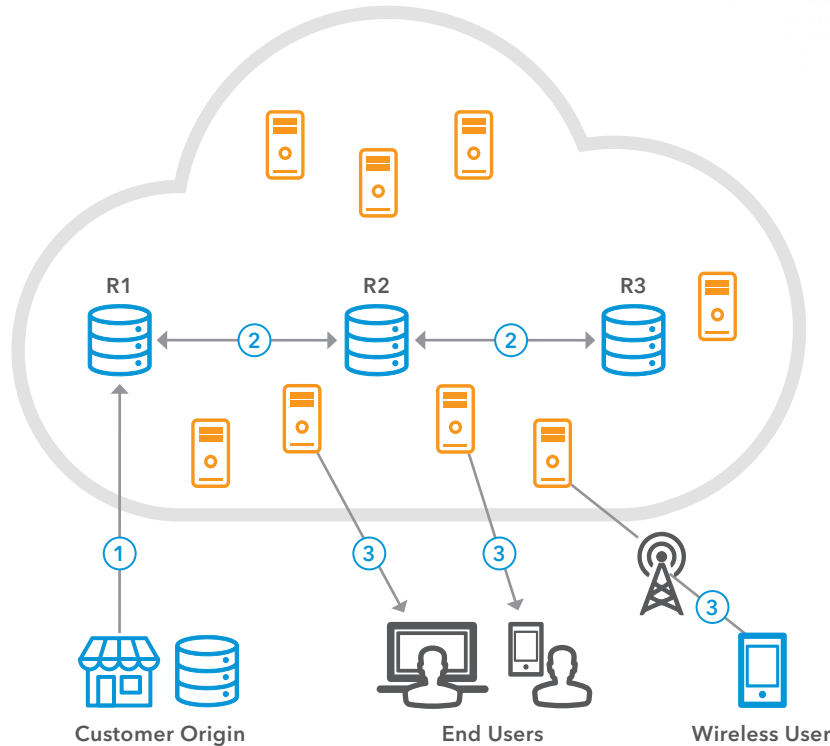
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Key Capabilities

- **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 livestreaming events

- **Dynamic mapping** using Akamai's integrated Global Traffic Management (GTM) algorithms to identify the optimal NetStorage location from which to serve the content

- **Flexible content management**

  - 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

  - 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)

  - NetStorage's HTTP API allows you to manage your NetStorage content from your in-house content management systems

  - 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

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Customer Origin   **End Users**   **Wireless User**

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 Edge Platform.

Akamai secures and delivers digital experiences for the world's largest companies. Akamai's intelligent edge platform surrounds everything, from the enterprise to the cloud, so customers and their businesses can be fast, smart, and secure. Top brands globally rely on Akamai to help them realize competitive advantage through agile solutions that extend the power of their multi-cloud architectures. Akamai keeps decisions, apps, and experiences closer to users than anyone – and attacks and threats far away. Akamai's portfolio of edge security, web and mobile performance, enterprise access, and video delivery solutions is supported by unmatched customer service, analytics, and 24/7/365 monitoring. To learn why the world's top brands trust Akamai, visit akamai.com, blogs.akamai.com, or @Akamai on Twitter. You can find our global contact information at akamai.com/locations. Published 05/20.