



TECH BRIEF

Wasabi's Strong Security Systems and Practices

Defense-in-Depth Architecture Protects Against
Wide Range of Threats

Executive Overview

Wasabi is fundamentally transforming cloud storage with the industry's most affordable and highest-performing storage solution. You can use Wasabi hot storage for a variety of purposes including primary storage for on-premises or cloud-based workloads, secondary storage for backup and recovery, or archival storage for long-term data retention. Wasabi is engineered to meet stringent security and compliance requirements and to safeguard the integrity and privacy of customer data.



This tech brief provides a short overview of Wasabi hot storage and reviews the strong security systems and best practices Wasabi uses to protect customer data against a wide variety of threats.

Wasabi Hot Storage Delivers Breakthrough Economics

Wasabi's mission is to make cloud storage a simple, open-standard commodity and utility, just like electricity. Wasabi hot storage is extremely affordable, fast and reliable cloud object storage—for any purpose.

Unlike legacy cloud storage services with confusing storage tiers and complex pricing schemes, Wasabi provides a single product—with predictable and straightforward pricing—that satisfies nearly all cloud storage requirements.

Wasabi features a highly parallelized system architecture that delivers breakthrough performance. A fully compliant Amazon S3 API protects and extends previous investments and gives customers a choice in storage management applications and backup tools.

Strong Security Systems And Practices Safeguard Customer Data

Wasabi hot storage is engineered for extreme data durability, integrity and security. The service is built and managed according to security best practices and standards, and is designed to comply with a range of industry and government regulations including HIPAA, HITECH, FINRA, MiFID, CJIS and FERPA.

Wasabi takes a “defense-in-depth” approach to security to protect against the widest range of threats. We ensure the physical security of our data centers; employ strong authentication and authorization controls for all cloud compute, storage and networking infrastructure; and encrypt data at rest and in transit to safeguard confidential data.

Physical Security

The Wasabi service is hosted in premier Tier IV data center facilities that are highly secure, fully redundant, and certified for SOC-2 and ISO 27001 compliance. Each site is staffed 24/7/365 with on-site security personnel to protect against unauthorized entry. Security cameras continuously monitor the entire facility—both indoors and outdoors. Biometric readers and two-factor or greater authentication mechanisms secure access to the building. Each facility is unmarked so as not to draw attention from the outside.

Secure Network Architecture

Wasabi employs advanced network security elements, including firewalls and other boundary protection devices to monitor and control communications at internal and external network borders. These border security devices segregate customers and regulate the flow of communications between networks to prevent unauthorized access to Wasabi infrastructure and services.

Data Privacy and Security

Wasabi supports a comprehensive set of data privacy and security capabilities to prevent unauthorized access and disclosure. Strong user authentication features tightly control access to stored data. Access control lists (ACLs) and administratively defined policies selectively grant read/write and administrative permissions to users, groups of users, and roles.

Wasabi encrypts data at rest and data in transit to prevent leakage and ensure privacy. All data stored on Wasabi is encrypted by default to protect data at rest. And all communications with Wasabi are transmitted using HTTPS to protect data in transit.

Data Durability and Protection

Wasabi hot storage is engineered for extreme data durability and integrity. Wasabi provides eleven 9s object durability, protecting data against hardware failures and media errors. In addition, Wasabi supports an optional data immutability capability that protects data against administrative mishaps or malicious attacks.

An immutable object cannot be deleted or modified by anyone—including Wasabi. Wasabi data immutability protects against the most common causes of data loss and tampering including accidental file deletions, viruses and ransomware.

Customer Responsibilities

Customers typically interface with Wasabi using third-party file management applications and backup tools. Customer IT organizations must ensure the storage management tools and applications they use are configured to take advantage of Wasabi security features. For example, HTTPS must be enabled to encrypt data in transit.

Customers must also ensure they have strong security systems and practices in place to safeguard other elements of their on-premises and cloud-based infrastructure. The Wasabi storage service

is typically employed as part of a larger public or hybrid cloud IT implementation that includes multiple compute, storage and networking components.

Summary

Wasabi is engineered to meet stringent data security and privacy requirements. The service is built and managed according to security best practices and standards, and employs a defense-in-depth approach to protect against a wide array of threats. We ensure the physical security of our data centers, implement strong authentication and access controls to safeguard infrastructure and services, and encrypt data at rest and in transit to protect privacy and prevent unauthorized disclosure.

Wasabi is typically used in conjunction with other compute, storage and networking platforms and services. IT organizations must institute strong security systems and practices across all on-premises and cloud-based infrastructure to ensure data privacy and protection across all enterprise assets.

Next Steps

- **CONTACT WASABI TODAY.** Learn more about our price, performance and protection benefits.
- **TRY WASABI FOR FREE.** Get up to 1 TB for 30 days.

About Wasabi

Wasabi is the hot storage company that delivers low-cost, fast and reliable cloud storage. Wasabi hot storage is 1/5th the price and 6x the speed of Amazon S3. We hate vendor lock-in, so we made Wasabi 100% compatible with Amazon S3.

Created by Carbonite co-founders and cloud storage pioneers David Friend and Jeff Flowers, Wasabi is on a mission to commoditize the storage industry.



Note: All pricing information presented in this paper was retrieved from cloud service provider websites and was accurate as of July 2017.

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