



wasabi[™]
hot storage

TECH BRIEF

Data Immutability Provides Ultimate Protection

Combats ransomware and viruses, prevents
accidental deletions and ensures compliance

Executive Overview

Wasabi is fundamentally transforming cloud storage with the industry's most affordable and highest-performing storage solution. Engineered for extreme data durability, integrity and security, Wasabi hot storage supports data immutability to protect against viruses and ransomware, prevent accidental deletions and administrative mishaps, and ensure compliance with government and industry regulations pertaining to data retention.



This tech note provides a brief overview of Wasabi hot storage and its data immutability capabilities.

Wasabi Hot Storage and Data Immutability

Wasabi hot storage is a universal cloud object storage service that eliminates confusing storage service tiers and satisfies nearly all storage performance requirements. Hot storage is both significantly less expensive and significantly faster than “frequent-access storage” services like Amazon S3.

Wasabi provides extreme data durability, integrity and security. We provide eleven 9s object durability just like Amazon S3 to protect against hardware failures and media errors. But **unlike Amazon S3** we also support data immutability to protect against accidental or malicious data destruction. An immutable object cannot be deleted or modified by anyone—including Wasabi.

Prevent the Most Common Causes of Data Loss

These days just about every cloud storage service offers eleven 9s data durability. To put that in perspective, if you stored one million 1 GB objects with Wasabi, you could expect to lose one object every 659,000 years. Not surprisingly, the vast majority of all

data loss in today's world is attributed not to hardware failures, but to human error and bad actors.

Wasabi data immutability protects against the most common causes of data loss and tampering including:

- User mistakes and administrative mishaps
- Bugs in application software
- Malicious programs like viruses and ransomware

How Wasabi Data Immutability Works

When you create a Wasabi storage bucket (the basic container that holds your data) you have the option of making it immutable for a configurable retention period (in increments of days, weeks, months or years). If desired, you can also configure the storage bucket to automatically delete the data after the retention period has expired. Data written to that bucket cannot be deleted or altered in any way, by anyone, throughout its storage lifetime.

Fight Ransomware with Wasabi Immutable Storage Buckets

Ransomware has quickly become one of the most pervasive, costly and crippling types of cyberattacks. Around the world, ransomware incidents are growing in frequency, complexity and intensity. In May 2017, the WannaCry outbreak infected over 300,000 computers in over 150 countries, wreaking havoc on organizations like Britain's National Health Service, which was forced to cancel surgeries, close healthcare facilities and turn away patients for days. A month later, the more-sophisticated Petya infection hit around 65 countries paralyzing banks, airports, subways and power plants.

The latest ransomware programs like WannaCry and Petya work by encrypting data and demanding payment for the decryption keys. Data stored in Wasabi immutable storage buckets cannot be encrypted after-the-fact and is immune to these types of attacks.

Improve Compliance with Immutable Storage Buckets

Data immutability can help you comply with certain government and industry regulations like the Health Insurance Portability and Accountability Act (HIPAA), Financial Industry Regulatory Authority (FINRA), Markets in Financial Instruments Directive (MiFID) and Criminal Justice Information Services (CJIS) for securing and preserving electronic records, transaction data and activity logs.

By adequately protecting and retaining data you can avoid expensive regulatory fines and penalties, and costly legal actions and settlements.

Summary

Protect your data against hackers, mishaps and buggy code. Wasabi immutable storage buckets prevent the most common causes of data loss and tampering, helping you:

- Combat ransomware and viruses
- Avoid accidental data erasure
- Ensure regulatory compliance
- Mitigate financial risk and legal exposure

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.

