

# Cloud Storage 2.0?

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## Cloud Storage 2.0 – a utility that just works

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- Faster than the fastest
- Cheaper than the cheapest
- No need for silly storage tiers
- Storage will be a utility, like electricity or bandwidth
- Life will be simpler!



## What is Cloud Storage 2.0?

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- Cloud Storage 1.0: Amazon, Google, Azure
  - Based on Linux or Windows OS
  - 2005-2008 technology
  - Proprietary competing APIs
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- Cloud Storage 2.0: Wasabi, others to come
  - Native control of disk for density and speed
  - Standards based

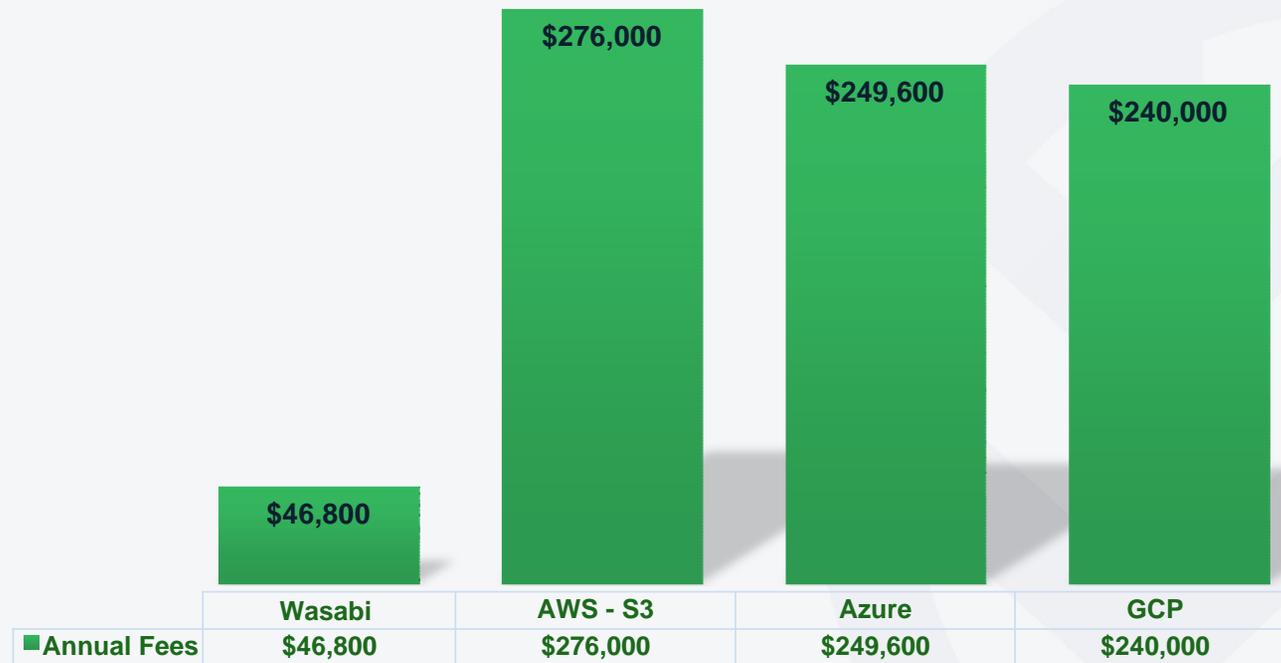
## What Makes Cloud Storage 2.0 different?

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- Price
- Speed
- Responsiveness (time-to-first-byte)
- API Standards
- Immutability

## 2.0 Vs. Amazon, Google, Microsoft

Cost to store 1PB for one year



## Speed VS. Amazon S3.

	<u>Wasabi</u>	<u>Amazon S3</u>
Sustained Read *	1300 MB/s	191 MB/s
Sustained Write *	563 MB/s	90 MB/s
Time to first byte	<15ms	150ms
Durability	11 nines	11 nines
<b>Immutable buckets</b>	<b>Yes</b>	<b>No</b>

## How do we do it?

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- Fundamentally different approach to storage architecture. Optimized for storage right down to organization of the physical bits on disk.
- We actually control the head movement to efficiently pack data on disk, maximize read/write speeds, and extend life of drives.

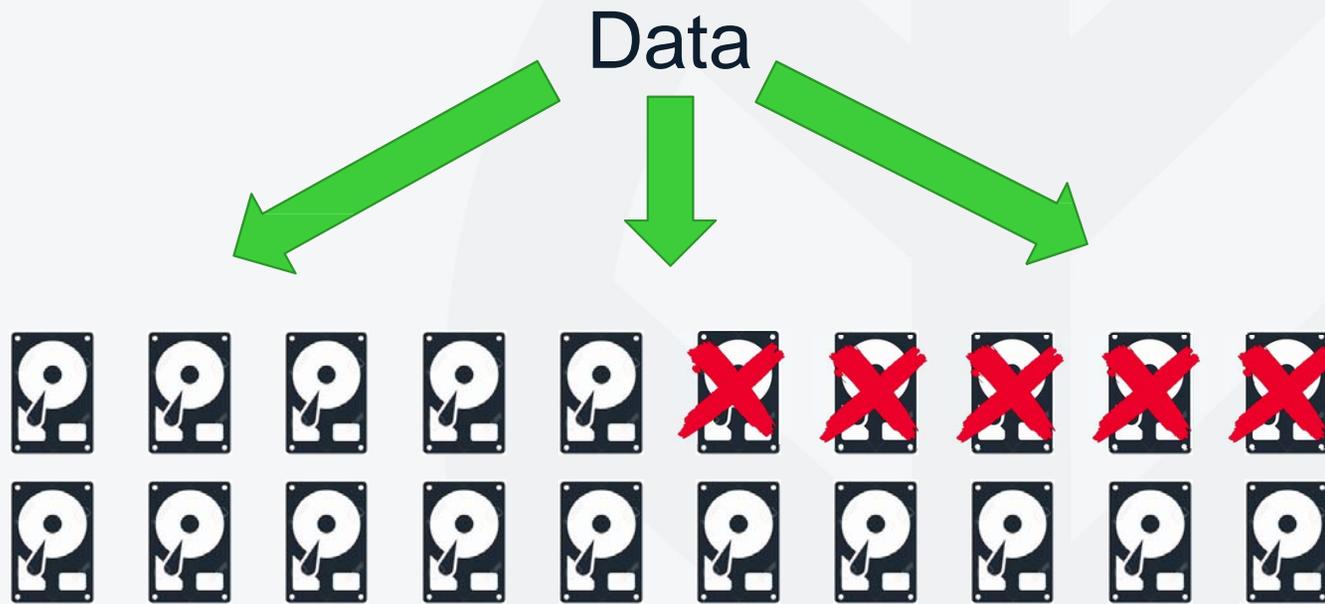


# Highly parallelized architecture

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# Highly parallelized architecture



Every object read and verified every 90 days forever.

# Metadata stored in high performance database

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Metadata Database

# Extreme Density, Private cloud

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Private cloud option:

- 7 PBs
- 13 PBs
- 22 PBs

All in just 3 racks



# Thank you.

DAVID FRIEND | SEPTEMBER, 2017

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