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Media & Entertainment: The Time Is Now For Cloud Storage

Brien Posey

INSIDE THE GUIDE:

- · Why Storage Requirements Are Exploding
- How To Extract Value From Archived Data
- Save Money By Not Paying for Data Egress or API Requests



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EXPRESS EDITION

Media & Entertainment: The Time Is Now For Cloud Storage

Sponsored by Wasabi

AUTHOR

Brien Posey

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INTRODUCTION

Why the Real Migration to the Cloud Will Begin with Storage

Over the last decade, cloud providers have had their marketing departments working overtime, trying to convince us of just how great the public cloud is, and how anyone who is still operating on-premises is completely out of touch. In spite of the marketing hype, only about 30% of the world has moved to the cloud. As such, it stands to reason that the long-anticipated mass migration to the cloud is still ahead of us.



In the "Cloud 2.0" era, organizations are finally able to store all of their data in the cloud, and leverage that data to derive business value.

The first generation of cloud adoption was all about compute and workloads. This "Cloud 1.0" concept – 13 years old as of 2019 – has led organizations to realize

that computers and workloads are really nothing more than the tools that enable data. Hence, the "great migration" is almost certain to be data driven.

In the "Cloud 2.0" era, organizations are finally able to store all of their data in the cloud, and leverage that data to derive business value.

It may be tempting to scoff at the notion of using the cloud to unleash the hidden potential of data. After all, "Big Data" has been discussed for a decade, but many companies haven't experienced the promises.

The main reason for Big Data's failure to live up to the hype is not that mining hidden business value from data is a myth.

Instead, it's that the data hasn't been BIG enough yet!

The new wave of Machine Learning (ML) and Artificial Intelligence (AI) advancements are strong evidence that the larger your dataset, the more powerful that data becomes. Larger data sets allow the data to be leveraged in more ways. This means that you can make more predictions, more projections, and gain greater insight from your data.

The real reason the "Big Data revolution" has been held back is not because the data has no hidden value; it's there, for sure. The brake on the revolution has been the cost and the limited capabilities of the underlying storage infrastructure.

The only way to overcome these challenges and fully realize the power of data is to leverage next generation, Cloud Storage 2.0. Although cloud storage has existed for many years, its unpredictable costs have caused many organizations to shy away from using it any more than is absolutely necessary.

But this is starting to change.



The cloud is no longer just an archive or test/ dev solution; it's becoming a platform for even the most active data applications, with performance that until recently was only possible in your data center.

Solutions are emerging that combine the classic Cloud 1.0 advantages of scalability, reliability and resiliency with a predictable cost structure, high performance, and ease-of-use that makes it feasible for organizations of any size to consider moving to the cloud.

The cloud is no longer just an archive or test/dev solution; it's becoming a platform for even the most active

data applications, with performance that until recently was only possible in your data center.

This Guide is your roadmap to understanding this tectonic shift toward putting public cloud storage within the grasp of all.

As it currently stands, the past decade of cloud storage solutions has been fraught with huge hurdles and technological challenges, many of which buyers don't find out until they're in the middle of a migration, or have implemented their public cloud platform and finally flipped the switch.

Then the first cloud storage bill comes due, and pow! They suddenly realize that Cloud Storage 1.0 is not going to be nearly as cheap or easy as they were led to believe.

'Hot Cloud' Storage: The Birth of the Next Great Utility

Public cloud storage hasn't grown as rapidly as some have predicted, although its usage is clearly on the rise.

One issue holding back more widespread adoption of cloud storage is that using it is anything *but* seamless. When you deploy a new application, (whether on-premises or in the cloud), that application probably isn't going to automatically recognize and begin using your cloud storage. Instead, administrators typically have to set up cloud storage connectivity.

The process of attaching to and using cloud storage can vary widely from one provider to the next. There are several major cloud storage providers, and each one has its own way of doing things. Even if an organization opts to stick with a single cloud storage provider, using cloud storage is still going to have its ups and downs.

In an AWS environment, for example, as of early 2019, IT pros must choose between 6 different tiers of cloud storage, S3 Standard, S3 Intelligent-Tiering, S3 Standard-IA, S3 One Zone-IA, S3 Glacier and S3 Glacier Deep Archive.



"Hot Cloud Storage" is a single tier for active data, active archive and inactive archive.

Wasabi's Hot Cloud Storage addresses three classes of data storage with a single, low-cost, high-performance, high-security tier:

- Active Data: Data that needs to be readily visible to the operating system and/or application software with which it was created, and must be immediately accessible to users.
- Active Archive: Archive or backup data available instantly online, rather than needing to be restored and rehydrated from an offline or remote source.
- Inactive Archive: Traditionally, data that is archived to tape, stored offsite, and used or referenced infrequently.

If you're using Cloud Storage 1.0 solutions, only after choosing the storage tier best suited to the task at hand can IT pros begin figuring out how to actually provision and connect to the storage.

With Cloud Storage 2.0 solutions, storage is treated as a utility – as common, reliable, and used every day as electricity. For example, AC power is delivered in a standard way. Every power outlet in America provides 110 volts at 60 Hz. (not including 220 volt outlets). Any electric-powered device can be plugged into any power outlet in America: it doesn't matter if the device is a fan, a computer, or a curling iron, because all these devices are designed to be powered in the same way.

Similarly, the same laptop that you can charge at home can also be plugged in at work, a coffee shop, or even a hotel room on the other side of the country. Electric power is delivered in a standardized way, and the devices that use that power also do so in a standardized way.

The end result of this is that electric power is a commodity. We use electricity on an as-needed basis, rarely considering where it comes from, whether it will work with our device, or how much it costs.

Cloud storage also needs to evolve to this point.

What Happens to On-Premises Storage in the Wake of the Great Cloud Migration?

With the tech media being so focused on all things cloud over the last several years, it's easy to lose sight of the fact that on-premises storage is still being used.

In spite of what some vendors might lead you to believe, on-premises storage is alive and well.

Cloud storage doesn't eliminate the need for on-premises storage, but rather changes some of the ways in which it is being implemented, maintained, and used. The truth is that some workloads are just better suited to use on-premises storage, while others may see significant benefits from the use of cloud storage.

There are any number of reasons why a workload may need to remain on-premises. The most common is that security or compliance requirements drive the need to keep a particular workload in-house. Other common reasons for continuing to run a particular workload locally might include limitations imposed by software licenses, or perhaps a desire to continue to capitalize on investments that the organization has already made in data center hardware.



One of the big trends in on-premises technology deployments right now is the rapid adoption of private clouds. What's a private cloud? It's a set of private and secure computing resources that's been provisioned and isolated to a single buying organization. It can be deployed in any secured setting that the buyer prefers, whether it's the customer's own data center or a preferred partner data center or hosting provider which has been vetted for security and performance.

Pros and Cons of Cloud Storage

The merits of both cloud storage and local data center storage have been hotly debated in an effort to promote one as a superior position and make it seem like it's the best choice in every situation. In reality however, there are positive and negative aspects to each. While by no means comprehensive, here are a few of the more significant cloud storage pros and cons.

BENEFITS

One of the biggest advantages to cloud storage is that, in at least some situations, it's far less expensive than

storage residing on-premises. Public clouds have long been marketed as "the cheap way of doing things." While claims of bargain storage in the cloud are debatable, there are circumstances in which cloud storage is by far the less expensive option. Imagine, for example, that an organization needs to add a significant amount of storage, but its existing data center is already at its maximum capacity. There is no doubt that using cloud storage will be far less expensive than constructing a new data center, or the pain, cost and personnel time spent to do rolling hardware upgrades and migrations from old to new on-premises storage.

This concept holds equally true for organizations that need offsite disaster recovery capabilities. If an organization doesn't already have a data center and hardware resources that can be used for disaster recovery purposes, cloud-based disaster recovery quickly becomes an attractive option.

Another benefit to cloud storage is that, although there are exceptions, it's easier to scale than on-premises storage. Sure, there are the "big name" on-premises vendors that will be happy to sell you racks of local storage for a premium price, but is that really going to be an option, as storage needs skyrocket but your budget doesn't? Can you afford to keep increasing your data center's footprint like that – not only the huge

cost of the storage itself, but the associated costs of power, maintenance, personnel? Where does it end? When the cost of a petabyte of storage from a cloud provider is less than the annual maintenance fee from an on-premises vendor, how does that change the economics of your infrastructure? (A helpful comparison of the cost differences between on-premises storage and cloud storage can be found on the Wasabi site.¹)

This problem is compounded by the fact that data growth is projected to double every two years (or in the case of genomics, every 7 months), meaning that most organizations will meet or surpass the petabyte threshold in the very near future. This will only serve to drive up on-premises storage costs; because of this, smart organizations should consider switching to a more cost-effective alternative before getting locked into an expensive hardware expansion.

In contrast to that example, cloud storage tends to be far easier to scale. Again, each cloud storage provider has its own way of doing things, but most providers, including Wasabi, use object storage. Object storage uses a flat namespace (without a traditional file system) that supports massive scalability. A single object store can easily scale to multiple petabytes and can

https://wasabi.com/blog/on-premises-vs-cloud-storage/

store billions of objects. Hence, additional storage capacity can usually be added any time that it's needed.

Cloud storage also reclaims valuable IT time by eliminating most storage maintenance tasks. This includes things like replacing aging hard drives and securely disposing of old drives. It also includes all the hardware-level storage monitoring and failure remediation. In a large data center, significant amounts of time can be spent on these types of tasks. When storage is shifted to the cloud, the cloud provider handles all of the hardware maintenance and monitoring. Your IT staff is suddenly freed up to focus on more important things that ultimately benefit the organization in a more bottom-line fashion.

DRAWBACKS

As you can see, there are tremendous benefits to cloud storage. But like every technology, cloud storage does have its disadvantages. Perhaps the greatest is that the costs of storing data in the cloud can be both hugely expensive and massively unpredictable. This is due to a combination of data egress fees, API fees, and frankly, the bewildering assortment of tiers to choose from to find "the right" tier (performance and cost) for very specific use cases.

Most cloud storage providers bill their subscribers a few cents per month for each gigabyte of data stored in their cloud. This is where you need to be extremely careful. A cloud storage provider may advertise a low cost per gigabyte in an effort to give potential subscribers the illusion that using cloud storage is inexpensive.

This cost per gigabyte, however, will often be a relatively small portion of the overall cost of cloud storage. In reality, most cloud storage providers charge a hefty data egress fee each time that a subscriber accesses their own data. Thus it's not the stored data, but *getting to* that data that they sock it to you. And moving data into and out of international locations is often more expensive than moving data domestically, adding another layer of expense onto that.

Data retrieval fees can be terribly expensive; so costly, in fact, that it locks the company into keeping their data in the cloud, afraid to pry it out because of the charges they'll incur.

This is referred to as "cloud lock-in," because the data egress fees make transferring data cost prohibitive, whether you are transferring data to another location, such as back to your own data center for normal usage, or another cloud provider.



Another potential disadvantage to using cloud storage is the limitations imposed by bandwidth. If an application running in the cloud is creating data, it makes sense to keep that data in the cloud. If, however, you have large amounts of data on-premises, it may not be feasible to transfer all that data to the cloud over the Internet. Typically, you are going to need to use an offline data transfer method to accommodate large-scale data migrations; typically, it would involve having hardware shipped to you from the cloud storage provider. You load it with data, then ship it back to be copied to your cloud storage location.

One more thing to consider is the fact that so many organizations are now undergoing their "digital transformation." Bill Schmarzo of CIO Magazine offers one of the better definitions of digital transformation out

there. Schmarzo says "Digital Transformation is the application of digital capabilities to processes, products, and assets to improve efficiency, enhance customer value, manage risk, and uncover new monetization opportunities."²

Essentially, a digital transformation represents a new way of doing things.

Because digital transformation changes both business and IT processes, it also creates new IT infrastructure requirements.

This is especially true of storage. In many cases, on-premises storage is ill-equipped to handle these new challenges; while cloud storage is.



Because digital transformation changes both business and IT processes, it also creates new IT infrastructure requirements.

The problem with cloud storage as it exists today, however, is that the pricing model most providers use make the cost unpredictable. Unpredictable costs are something every organization tries to avoid – while cost underruns MIGHT be a pleasant surprise, cost

² https://bit.ly/2N1tWIW

overruns that are vastly higher than expected are not good for anyone.

This is where Wasabi comes in. They've created a new model that builds in predictability with no egress or API fees. That's right – it doesn't cost you anything to pull your data out of their cloud. Consider the advantages: with no data egress or API fees, the boundaries of the data center can finally disappear, at least from a storage standpoint. Organizations can finally move any or all of their data to the cloud, while still maintaining control over the data and being able to accurately predict related storage costs.

Wasabi sees a great opportunity here to save you money, since most cloud migrations are still on the horizon. This suggests that companies are still hesitant, for whatever reason, to make the leap into the cloud. But it's clear that they also know that it's the future, and are starting to plan for that eventuality.

What About Hybrid Storage?

Today, most organizations that haven't gone 100% cloud are basing their cloud strategy around a hybrid storage and on-premises approach. The hybrid storage approach can be any combination of public cloud or private cloud alongside on-premises choices, or any

combination of the three. Vocal cloud evangelists may tell you should be "all in the cloud," but that may not be the best strategy for you.

While an all public cloud stack can be a great option for startups with little capital to invest in IT resources, in many cases it wouldn't be prudent for an established organization to completely abandon its existing on-premises infrastructure just because the press and industry analysts insist you "have to."

This is why hybrid storage implementations have become a popular choice: they offer the best of both worlds. Organizations can continue to leverage their on-premises IT investments, while also taking advantage of public cloud capabilities.

Perhaps even more importantly, hybrid storage strategies give organizations the flexibility to run workloads in the location that makes the most sense based on each workload's own unique requirements. If an organization has data that it has deemed must remain on-premises for compliance reasons, then a hybrid storage strategy will certainly allow the organization to continue keeping that data in its own data center. Conversely, if an organization has other data that it has deemed to be less sensitive, it can reduce its costs by shifting the data to the public cloud.



Even though it's perfectly acceptable to use a hybrid storage approach as a long-term solution, hybrid storage is often used as a part of a bridge strategy to systematically move from on-premises to the cloud in manageable, focused projects.

Suppose for a moment that your organization has extensive on-premises resources, and has made the decision to migrate everything to the public cloud. Even if you truly wanted to, the migration could not be performed instantaneously.

Migrating all of an organization's IT resources to the cloud is a major undertaking that requires extensive planning.

Rather than attempting to move everything all at once, it would be better to follow a hybrid storage model,

and gradually migrate data to the cloud as it makes sense to do so.

For example, if a particular workload's storage is running on aging hardware that's nearing its refresh date, it may make sense to go ahead and migrate that storage to the cloud, while saving workloads that are running on newer hardware for another time.

When used as a bridge strategy component, hybrid storage strategies accomplish three main things.

First, they allow both data and workloads to be migrated at a comfortable pace. Because hybrid storage can be used as a long-term solution, there's no reason an organization has to rush its cloud migration. Each workload can be migrated as the organization feels comfortable with doing so.

The second advantage of hybrid storage as a bridge strategy is that it helps out with workloads that are difficult to migrate. In spite of what some of the cloud vendors may tell you, not every workload is ideally suited to running in the cloud.

If a workload was developed assuming on- premises resources, and there was no prior intention to run that workload in the cloud, it may be constructed in such a way that makes it extraordinarily difficult – or even impossible – to migrate it entirely.

In these situations, as an example, the workload's compute portion of the application can be run indefinitely on-premises, leveraging a hybrid storage approach to store data in a public cloud storage instance. Over time, the organization may decide to replace the entire workload with something better suited to the cloud (a web-native application), find a way to migrate or convert the compute portion of the workload to a cloud instance, or maybe even decide to keep the workload running locally.

Regardless of the decision made, hybrid storage strategies offer the freedom to deal with difficult-to-migrate workloads in whatever way makes the most sense.

The third benefit of hybrid storage in a bridge strategy is to treat the cloud as a mechanism for business continuity and disaster recovery. This means, for example, that the storage workloads that continue to run on-premises can be replicated to cloud storage as a way of providing extra protection against data loss, or catastrophic events that might otherwise result in an outage.

If a disaster occurs, workloads running on- premises can be configured to fail over to the cloud, where they can continue to function. Once the disaster has been mitigated, those workloads can be brought back in house, or left to continue running in the cloud.

Multi-cloud Strategies

Another trend that's taken hold in the last couple of years is multi-cloud.

Multi-cloud is based on the idea that because it's possible to establish communications between clouds, there's no need for an organization to be limited to using a single public cloud. Instead, an organization can scatter workloads and services across several different clouds, and have them operate as seamlessly as if they were all running inside the same cloud.

From a technical standpoint, it's admittedly "easier" to host all of an organization's resources in a single cloud.

Creating a multi-cloud architecture involves configuring a variety of gateways, authentication mechanisms, and firewalls



Creating a multi-cloud architecture involves configuring a variety of gateways, authentication mechanisms, and firewalls.

Even so, the benefits of creating a multi-cloud architecture can make all the work worthwhile.

The first is that it allows for best-of-breed service usage.

Even though the major cloud service providers tend to offer similar services, it doesn't necessarily mean that those services perform equally well from one cloud to the next.

This isn't to say that some public clouds are inferior to others, but rather that each provider has things that it does really well, and other things that it may not do quite as well. You may find that one provider has really strong directory service offerings, while another has the best platform for hosting virtual machines.

Using a multi-cloud architecture gives organizations the ability to take advantage of what each provider does best.



If a major cloud provider suffers a massive, cloud-level outage, every region could be impacted. Replicating data to storage located within a different cloud vendor provides protection against this type of scenario.

Building a multi-cloud architecture can also be far more cost-effective than using a single cloud provider's services.

Just as there are differences between the services that cloud providers offer, there are also differences in the cost of those services. Using a multi-cloud architecture gives an organization a way of getting the best price for each service it uses.

It's entirely possible for instance, that one provider offers the best price on hosted compute power, while another offers the best price on storage.

Finally, creating a multi-cloud architecture can provide you with a degree of redundancy, especially on the storage front.

Public cloud providers in general do a great job of providing redundancy for their services.

A provider may, for example, offer its customers the ability to host a virtual machine in one region, with the option of failing over to a different region in the event that the primary region suffers from problems.

But while this approach will shield an organization using cloud services against regional-level disasters, it does nothing to provide protection against a cloud-level outage. If a major cloud provider suffers a massive, cloud-level outage, every region could be impacted. Replicating data to storage located within a different cloud vendor provides protection against this type of scenario.

The Economic Case for Cloud Storage

From the time cloud computing first became practical, cloud vendors have presented economic models and case studies to prospective customers in an effort to convince them that running workloads in the cloud is the "most cost–effective way of doing things."

While some of the cost-related claims vendors have made in the past by Cloud Storage 1.0 vendors are dubious (often costing the same as on-premises implementations³), there are good reasons it makes financial sense to use Cloud Storage 2.0 rather than on-premises or Cloud Storage 1.0 options. The economics have changed more than you may realize.

One fundamental issue is that the technology innovation curve is steeper than the financial depreciation curve. This means that an organization's storage hardware is likely to be outdated before its value has been fully depreciated.

³ https://info.wasabi.com/wasabi-vs-on-prem

Because hardware refresh cycles are often tied to depreciation schedules, your business may have to continue using legacy storage hardware for a considerable amount of time, giving up the benefits of innovations in storage technologies.

Compared to on-premises implementations, cloud storage providers are able to take advantage of the latest and greatest storage hardware, as well as their own innovations in design and engineering to squeeze out both performance increases and cost decreases on an ongoing basis.

This is especially helpful for media and entertainment companies, as you will see.

Media & Entertainment

Although many industries take full advantage of cloud storage, media and entertainment companies have their own unique challenges to really taking full advantage of the cloud.

While it's true that digital video consumes a significant amount of space, it's not so much the storage footprint fees that make cloud storage use impractical for media and entertainment companies, but rather the egress fees, sometimes known as data access fees.

These fees have become common among cloud storage providers, and often account for the bulk of cloud storage-related costs.

Unique Challenges

Media and entertainment faces a number of unique challenges when it comes to storage. These challenges are primarily related to the massive quantities of digital video data that production companies produce every day.



While it's true that digital video consumes a significant amount of space, it's not so much the storage footprint fees that make cloud storage use impractical for media and entertainment companies, but rather the egress fees, sometimes known as data access fees.

All of that digital video data has to be stored somewhere, and because there's so much being created, the cost per gigabyte of storage becomes a serious consideration.

Given the cost of on-premises storage, video production companies typically archive data after a relatively short period of time to make room for new data on their primary storage. Traditionally, tape has been the go-to storage medium for archived digital video because it can store large amounts of data at a relatively low cost per gigabyte.

The main problem with utilizing tape for video archiving is that the archived data doesn't remain available online.

In the past, this might not have been a huge issue, but more recently production companies have realized that archived footage has value and can be monetized.



According to an article in Forbes,1 this field is exploding. Consider:

- Activity to create capture and display devices for 8K and 4K content is occurring with planned implementation in common media systems by the next decade
- Active archiving will drive increased use of HDD storage for "archiving" applications, supplementing tape for long term archives
- The single biggest application (by storage capacity) for digital storage in the next several years, as well as one of the most challenging, is the digital conversion of film, videotape and other analog formats
- Over 131 Exabytes of new digital storage will be used for digital archiving and content conversion and preservation by 2023
- Storage in remote clouds is playing an important role in enabling collaborative workflows and in archiving



https://www.forbes.com/sites/tomcoughlin/2018/08/26/media-andentertainment-storage-drivers/#6297f2d057f0 If such footage has been archived to tape, it may be difficult to locate, and can be just as difficult to work with.

There is also a cost associated with storing tapes, because they're physical objects that must be stored in an environment in which temperature and humidity are carefully controlled. If they aren't carefully kept safe, the tapes can quickly deteriorate, resulting in permanent data loss.

The realization that archived footage can be monetized is driving production companies of all sizes to look for a low-cost, high-capacity alternative to tape; and one that remains continuously available online.

Of course, it's not just the monetization of archival footage that's driving the need for a new, more capable storage architecture. As studios have transitioned to digital video capture, post-production, and digital distribution, storage capacity requirements have increased exponentially.

On top of that, digital video formats continue to evolve. Standard Definition (SD) video data is relatively modest in size, but when HD video first became widely used, many production companies found themselves struggling to find a solution for dealing with the vastly increased storage, compute and network requirements.



The best way to avoid the challenges of working with tape is to use cloud storage instead. Because cloud storage can be dynamically expanded, it can't be outgrown in the way a tape library can.

Production companies found themselves facing a similar challenge when the industry moved to 4K UHD, and many are already trying to cope with the storage requirements for the looming 8K UHD format. Each time digital video resolution increases, its storage footprint also increases.

Video production companies that have to cope with such vast amounts of digital video data, and see the benefit of keeping this data online, have turned to the use of robotic tape libraries.

For those who might not be familiar with the concept, a robotic tape library keeps most data offline, but accessible. When someone attempts to access archived data, a robot retrieves the tape containing the data from a shelf, and inserts the tape into a tape drive so that the data can be accessed. Some robotic tape libraries exist as refrigerator-sized, self-contained appliances, while others fill entire buildings.

Although robotic tape libraries meet the objective of keeping storage costs low while also keeping data accessible, they aren't a perfect solution. Besides being slow, robotic tape libraries, especially the larger ones, can be maintenance intensive. If the robotics go offline, all archived content becomes unavailable until the problem is fixed.

Another problem with relying on a robotic tape library is that doing so imposes geographic limitations. A tape can't be in two places at the same time (unless you copy a tape and ship it somewhere, which causes other risks). The reliance on physical, removable media can make post-production difficult. Of course, there are also physical storage costs to consider, since tapes must be stored in a facility in which temperature and humidity are carefully controlled.

Still another problem with relying on tape is that it can become a single point of failure. If a tape breaks, is misplaced, or becomes demagnetized, that data is permanently lost.

The best way to avoid the challenges of working with tape is to use cloud storage instead. Because cloud storage can be dynamically expanded, it can't be outgrown in the way a tape library can.

Furthermore, data stored in the cloud can be accessed from anywhere, eliminating the geographic limitations associated with tape. With cloud storage, redundancy can be built into the architectural model to automatically create multiple copies, so a failure doesn't pose any risk of data loss, unlike a physical tape.

But in spite of all of its benefits, cloud storage simply has not historically been a good option for use with digital video. Even though the cost per gigabyte of storage might be somewhat comparable to tape, the data egress fees have made it cost-prohibitive to work with digital video in the cloud.

Shortcomings with tape-based archiving and typical cloud storage platforms have left media and entertainment companies scrambling for a solution to their storage needs. In addition to the requirements already discussed, the media should ideally be sharable, so that digital video can be quickly made available to distribution channels, reducing the time to market.

At the same time however, the security of the data remains a serious concern. If digital video were to be leaked, for example, it could leave the company legally exposed, while also making the movie or television show less profitable.



EXECUTIVE CORNER

Case Study: Broadcast Television

Recently, a major broadcast network realized they had a business need to retrieve and distribute archived promotional footage at speeds faster than they were equipped to handle. Once retrieved, the footage then had to be transcoded and transferred to wherever it was needed globally. The existing on-premises storage infrastructure and offsite tape library they had in place was not suited to handle these needs, being built for long-term, cold storage. They needed a solution that they could implement immediately, and at a reasonable cost.

Ultimately, they opted to use Wasabi's Hot Cloud Storage. This allowed them to quickly locate and access digital video from cloud-based storage without incurring any retrieval fees. In doing so, the broadcaster was able to save 80% on its cloud storage cost compared to the estimated cost of using other providers.

Furthermore, the solution allowed the network to transfer video footage to locations halfway around the world in less than a minute; other transfer methods would normally have taken hours or even days to complete. The full case study is available.

¹ https://bit.ly/2NFT0q7

Wasabi's Hot Cloud Storage Provides an Alternative

Wasabi's cloud storage platform may be an ideal solution for media and entertainment companies that need to store vast quantities of data, while still allowing that data to be accessed.

Wasabi's cloud storage platform was designed with performance in mind. This speed can help to compress production time, shortening the time to market.

Wasabi also makes it easy to share data with others, regardless of where they are in the world. Hence, there is no longer a need to ship physical media – whether it's hard drives, tapes, or some other physical media. The data is immediately accessible in the cloud, which means that the data can be used more quickly and at a lower cost than if it were physically shipped.

Perhaps most importantly, Wasabi doesn't charge egress or API fees for the data stored in its cloud. This means that from a cost perspective, using the cloud to store digital video is – for the first time – a realistic option.

Given Wasabi's low cost for cloud storage, production companies may finally be able to "de-archive" their data, moving it from archive tape to the cloud, where that data will be readily accessible, and can be monetized.

Of course, Wasabi also provides various data protection measures that allow video data to be backed up, or even rendered immutable, preventing it from being accidentally modified or erased. Wasabi also provides various security controls that can be used to prevent unauthorized data leakage.

Another significant benefit to using Wasabi for video projects is that their cloud storage platform is AWS S3 compatible. This is crucial, since many existing video editing and management tools are specifically designed to work with S3 storage. Wasabi's S3 compatibility means that production companies can continue to work with the tools they're already using, even after making the move to Wasabi for cloud storage.

What Could You Do With Hot Cloud Storage?

One of the things that originally made Cloud 1.0 solutions so popular was the promise of unleashing potential that simply couldn't be realized by using on-premises resources. As the cloud has matured, and the Cloud 2.0 era has been ushered in, the cloud continues to push the envelope of what's possible.

Much of this new potential centers around improvements to cloud storage. Although cloud storage was at one time primarily suited for archival purposes, hot cloud storage has changed the game, enabling cloud data to remain online and readily accessible – and at a price that puts it within the reach of all.

This means that it may finally be possible to unleash the value in all of your old data by moving it to the cloud. Just think of what you may be able to achieve when you apply Artificial Intelligence or Machine Learning to all that data.



Wasabi's Hot Cloud Storage delivers a low cost, high performance, secure and S3-compatible storage offering that is truly next generation cloud storage.

Remember, it's no longer about things like compute and workload management – they're simply tools to help extract the gold that it the real motherlode of Cloud 2.0: data mining and analysis.

Given the factors we've looked at, it's clear that Wasabi is a company worth considering strongly.

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Their lower cost allows organizations of all kinds to get more mileage from their cloud storage budget, thereby allowing a larger volume of data to be stored in the cloud than would otherwise be possible.

And most importantly, that cost savings can be put back into the truly valuable work of your organization, rather than consuming an increasingly large portion of your budget. After all, the purpose of your organization isn't really about storage, is it?

Whether you've already begun using Cloud Storage 1.0 solutions, or were waiting until the price came down and performance improved, it's time to start forming your Cloud Storage 2.0 strategy. There are both significant cost savings and new opportunities waiting for media and entertainment companies. You can climb aboard, or risk being left at the station.

Wasabi's Hot Cloud Storage is the promise of Cloud Storage 2.0, realized.

The choice is yours.