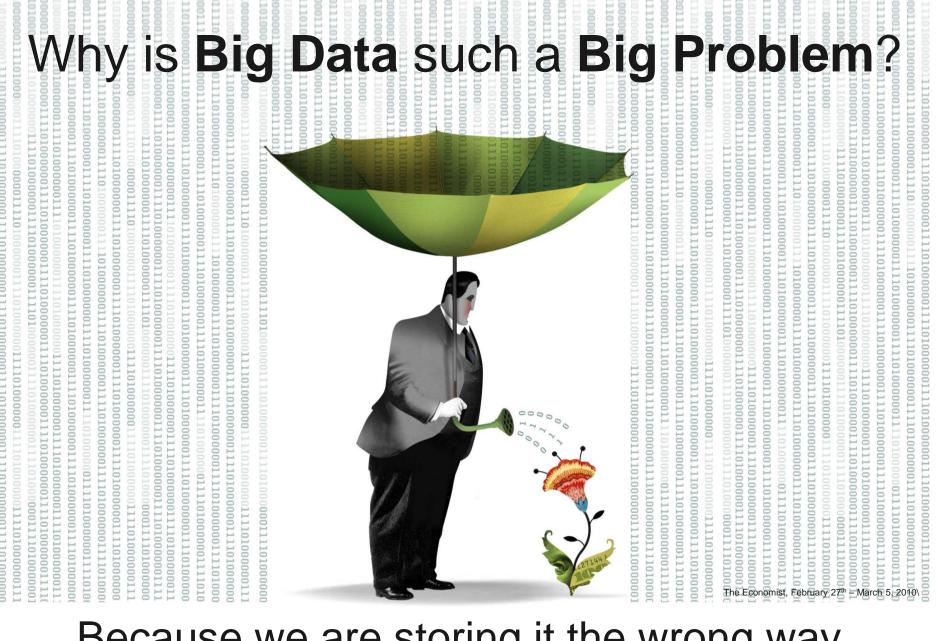


Michael King

Director of Product Marketing



Because we are storing it the wrong way

How much of the data you store never changes?



50%, 60%, 70%, 80%, more?

File & Object Storage Different, but Perfect Together



File Storage

VS.

Object Storage

- Millions of files
- Locking mechanisms
- Amendable data
- Management complexity
- Not designed for small I/O
- File system hierarchy
- Complex to scale
- TCO increases exponentially
- Great for high bandwidth, transcoding, and editing

- Trillions of objects
- No locking mechanisms
- Immutable data
- Automated, self-healing
- Highly optimized for large & small
- One storage pool, object ID's
- Scales easily, uniformly
- Lowest TCO
- Great for video streaming and content distribution

Object Storage Features



- ▶ No File System, No Hierarchy
- ▶ 99.9% disk utilization
- Simple Get, Put, Delete
- Customizable Metadata
- Immutable Content
- Lot of Data Protection Options
- Easily Geographically Distributed
- Highly Scalable
- Easy to Manage
- Low TCO

Object storage does not allow object/files to be modified. If changes are made new objects are created.



7 Factors for Evaluation



Does object storage fit into your file-based workflow?

- Production Storage Performance Requirements
- HSM Abilities
- Archiving Practices
- ► Ability to Use/Monetize Long tail content
- Data Protection Requirements
- Distribution Requirements
- Collaboration & QA Environment



Use Cases



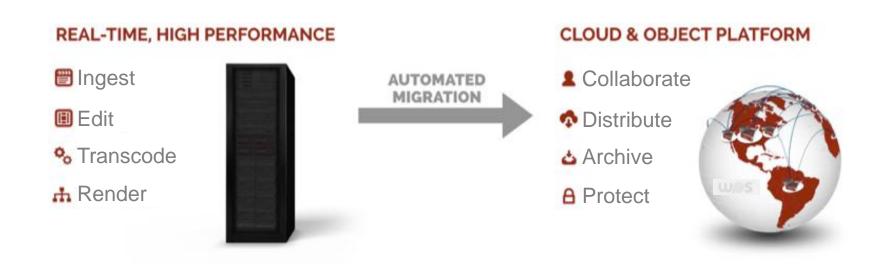
- Collaboration
- ▶ Tier One Relief
- Active Archive
- ▶ Tape Cache
- Online Content Origin
- ▶ Cloud Back-up & DR
- Application Storage



The Ultimate Solution

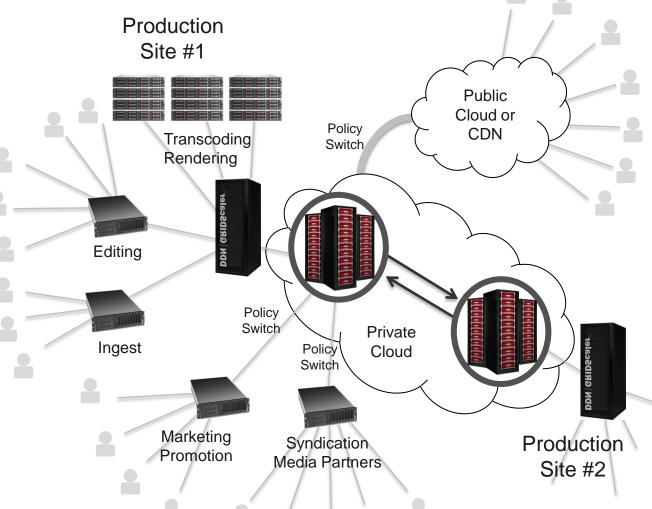


- Optimized, "smaller" production tier
- Automated, policy based migration to Active Archive Object Storage
- Very high performance and the lowest TCO



Collaborate, Distribute and Federate





Overview

- Federation of production namespaces, using object storage as the wide area distribution mechanism
- Multi-site ingest, production, distribution, collaboration, & archive
- Access through production or directly from object storage
- Availability and protection controlled by policy
- DR for Free

Post Production Example



- ► Large Multi-national Creative Services Group
- Building an active archive that will allow them to easily collaborate between LA, Vancouver and London
 - Free up expensive Tier-1 Storage
 - Consolidate Tier-2 pools across many or all facilities
 - Increase utilization and efficiencies of geo-dispersed compute & creative personnel resources
 - Get DR "for free"
 - Much easier scaling path over time
 - Improve cost-competitiveness and facility attractiveness



Conclusion



- Object storage does have a place in file-based workflows
- Lowest cost, disk based solution
- Use where content is being stored, retrieved and used but not changing frequently
- Rethink storage tiering
- Shift our thinking to incorporate it where it really fits well
 - Active Archive
 - Collaboration
 - Content Distribution



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Thank You

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