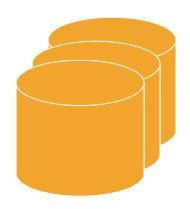


What is archival?: Backup vs. archive



Backup:

Data retained to support near-term business continuity



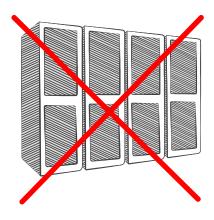
Archive:

Data retained for the long term – for compliance or potential future reference

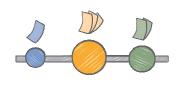




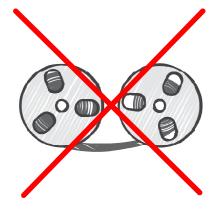
Why cloud?



No capital investment
No commitment
No risky capacity planning



Metered usage: Pay as you go



Avoid opex and risks of physical media handling

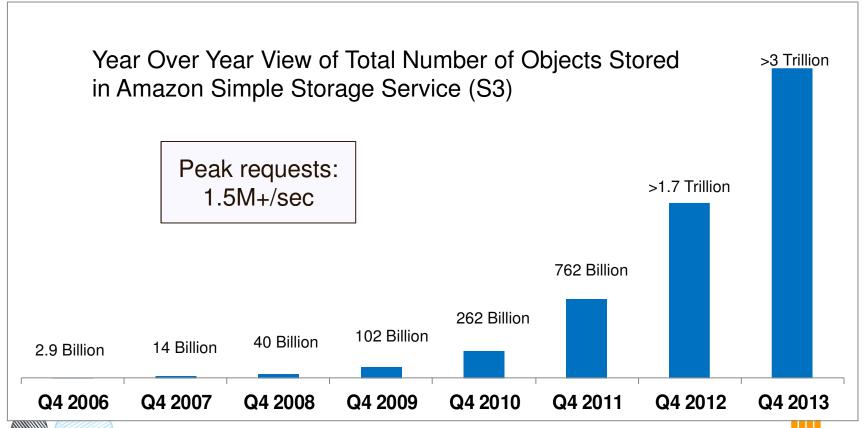


Control your geographic locality for performance and compliance



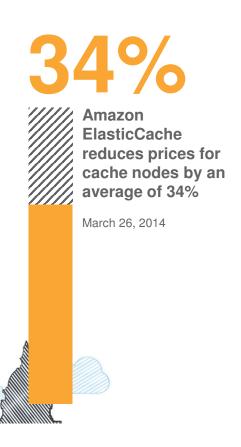


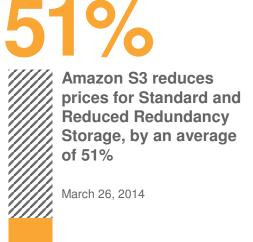
Perspectives on scale: storage





We've announced price reductions 47 times since our inception in 2006. Recent price drops included...







Standard Queries and Latency Based Routing Queries by 20%

July 31, 2014



AWS Global Infrastructure







Architected for Enterprise Security Requirements

Certifications and accreditations for workloads that matter























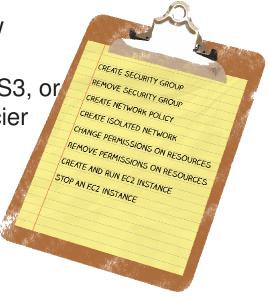


AWS Worldwide Public Sector

AWS CloudTrail - AWS API call logging for governance & compliance

Log and review user activity

Stores data in S3, or archive to Glacier





Used by educational institutions worldwide

















































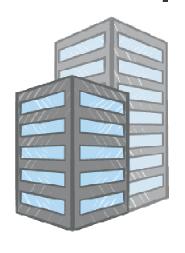


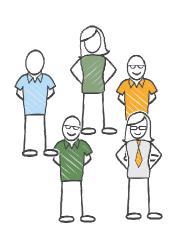


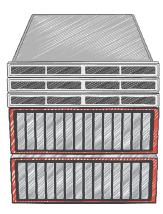




TCO – On-premises cost considerations













Scale

- Object Store!
- Interact directly with a service instead of an intermediate layer
 - Storing data in Glacier, but have a product that interfaces with S3
 - Storing data in block storage and backing by Object Store without any added caching or deduplication
- Leverage a Storage Gateway
 - AWS Storage Gateway, NetApp SteelStore, CTERA, panzura





Integrating AWS with your existing on-premises infrastructure



Legacy
Data Centers

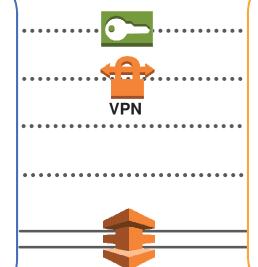
Active Directory Shibboleth / SAML

Network Configuration

Encryption

Backup Appliances

Your On-Premises
Apps



AWS Direct Connect

Users & Access Rules (IAM)

Your Private Network (VPC)

Encryption (S3, RDS, HSM)

Backups (Storage Gateway)

Your Cloud Apps

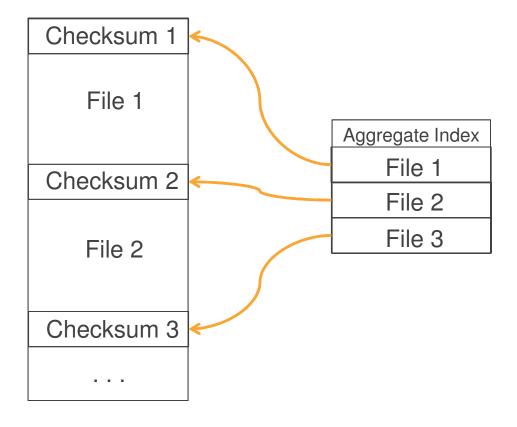




amazon webservices

Upload and Storage Best Practices

AWS Worldwide Public Sector





Maintaining your own index

- Reduce cost and improve download speed with Ranged Gets
- Many options: DynamoDB, RDS:Oracle, RDS:MySQL, local DB, BerkeleyDB, S3





Download API Best Practices

Reduce costs with Ranged Retrievals

Example 1.2 GB archive

- Retrieved using a standard 4 hour job = 300 MB/hour peak retrieval charge
- Retrieved over 24 hours using 6 consecutive jobs = 50 MB/hour



