

Avoiding the Pitfalls of Cloud Storage Pitfalls



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wasabi
hot cloud storage

Dictionary

pit·fall

/'pit,fôl/

noun

a hidden or unsuspected danger or difficulty.







Don't watch TV tonight. Play it!



If cloud storage was a game.....



Plenty of examples of cloud pitfalls

7 hidden AWS costs that could be killing your budget  ITProPortal
By Alex Lesser September 06, 2017 Business

Is There a Landmine Hidden in Amazon's Glacier? WIRED
HOW-TO 6 Hidden Costs

As organizations flock to the cloud—94 percent of enterprises are at least discussing cloud or cloud services—

A Look At Hidden Costs In Cloud Solutions

stop acting like CIO JOURNAL
expensive.

CIOs Still Waiting for Cloud Investments to Pay Off

Unrealistic expectations are forcing some tech leaders to rethink cloud costs; 'You discover your cloud architecture is immature when you're surprised by the bill'

CLOUD INFRASTRUCTURE
3 Hidden Public Cloud Costs
Hybrid or multi-cloud strategies offer public cloud costs for your organization
By Pete Drey
MAY 30, 2019

The Hidden Costs of Cloud Backup
March 6, 2018 by George Leopold

What are the hidden costs of cloud adoption?
Cloud Adoption

Sasha Banks-Louie
Oracle Innovation Brand Contributor
BRANDVOICE | Paid Program

ARE YOU AWARE OF THE HIDDEN COSTS OF STORING DATA IN THE CLOUD?

The Hidden Costs of Moving Infrastructure to AWS Public Cloud

February 1, 2018 | By Steve Brown | Enterprise Data Management

Beware the hidden costs of cloud computing
The costs of public cloud may be attractive but there are many other factors to include and without careful planning costs can quickly spiral.

Costs Every Cloud User Needs to Avoid

Pitfall!: Complex Architectures

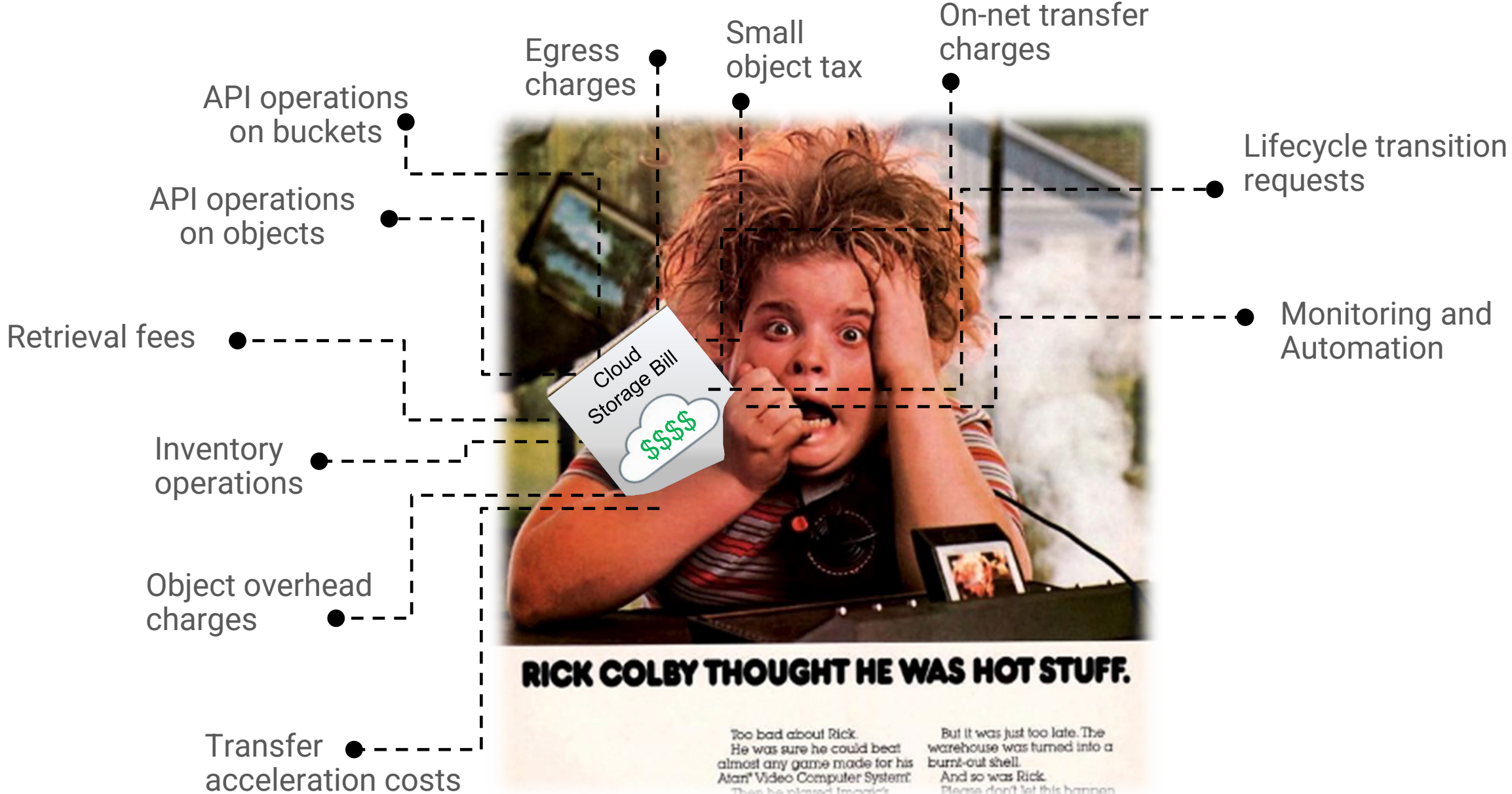
aws
S3 Standard
S3 Intelligent-Tiering
S3 Standard Infrequent Access
S3 One Zone-Infrequent Access
S3 Glacier
S3 Glacier Deep Archive

Azure
Premium Storage
Hot Storage
Cool Storage
Archive Storage

Google Cloud Platform
Regional
Multi-Regional
Nearline
Coldline



Pitfall: Unexpected charges




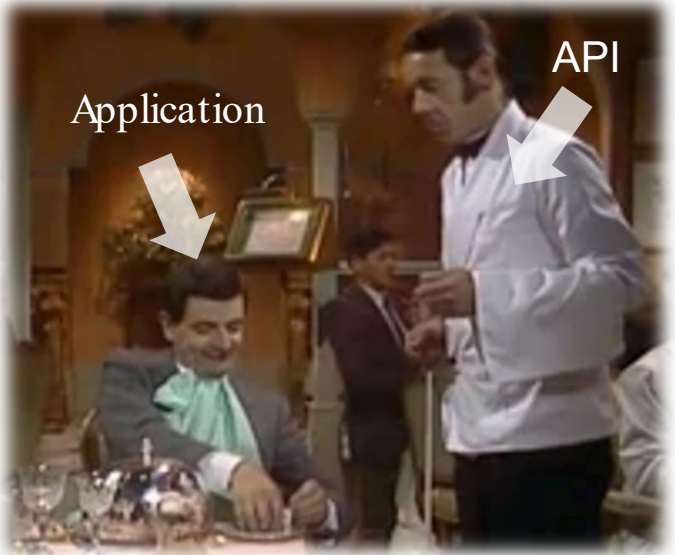
RICK COLBY THOUGHT HE WAS HOT STUFF.

Too bad about Rick. He was sure he could beat almost any game made for his Atari® Video Computer System. Then he played Imagic's

But it was just too late. The warehouse was turned into a burnt-out shell. And so was Rick. Please don't let this happen

Pitfall!: Operational Charges / API Requests

PutObject		PUT, COPY, POST, LIST
UploadPart		\$.005 per 1,000
GetObject		\$.01 per 1,000
CopyObject		\$.02 per 1,000
HeadObject		\$.03 per 1,000
ListObject	\$.05 per 1,000	
PostObject		GET, SELECT, all others
DeleteObject		\$.0004 per 1,000
CreateMultipartUpload		\$.001 per 1,000
CreateBucket		

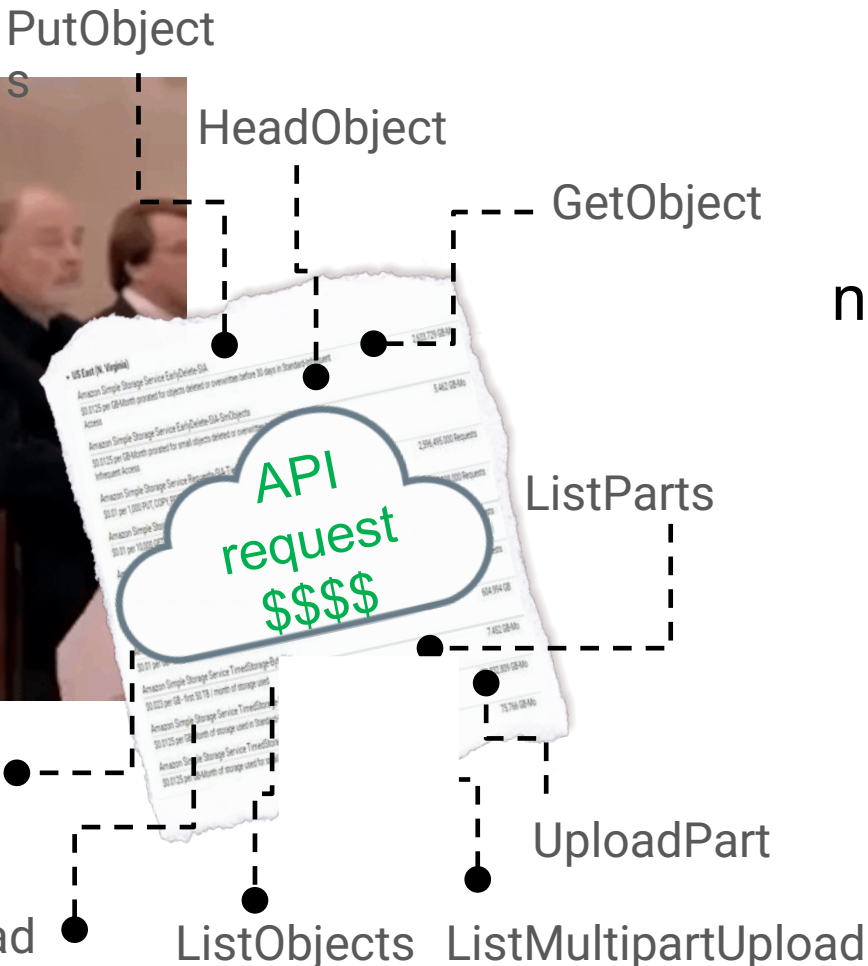


Storage Application
(the cook)

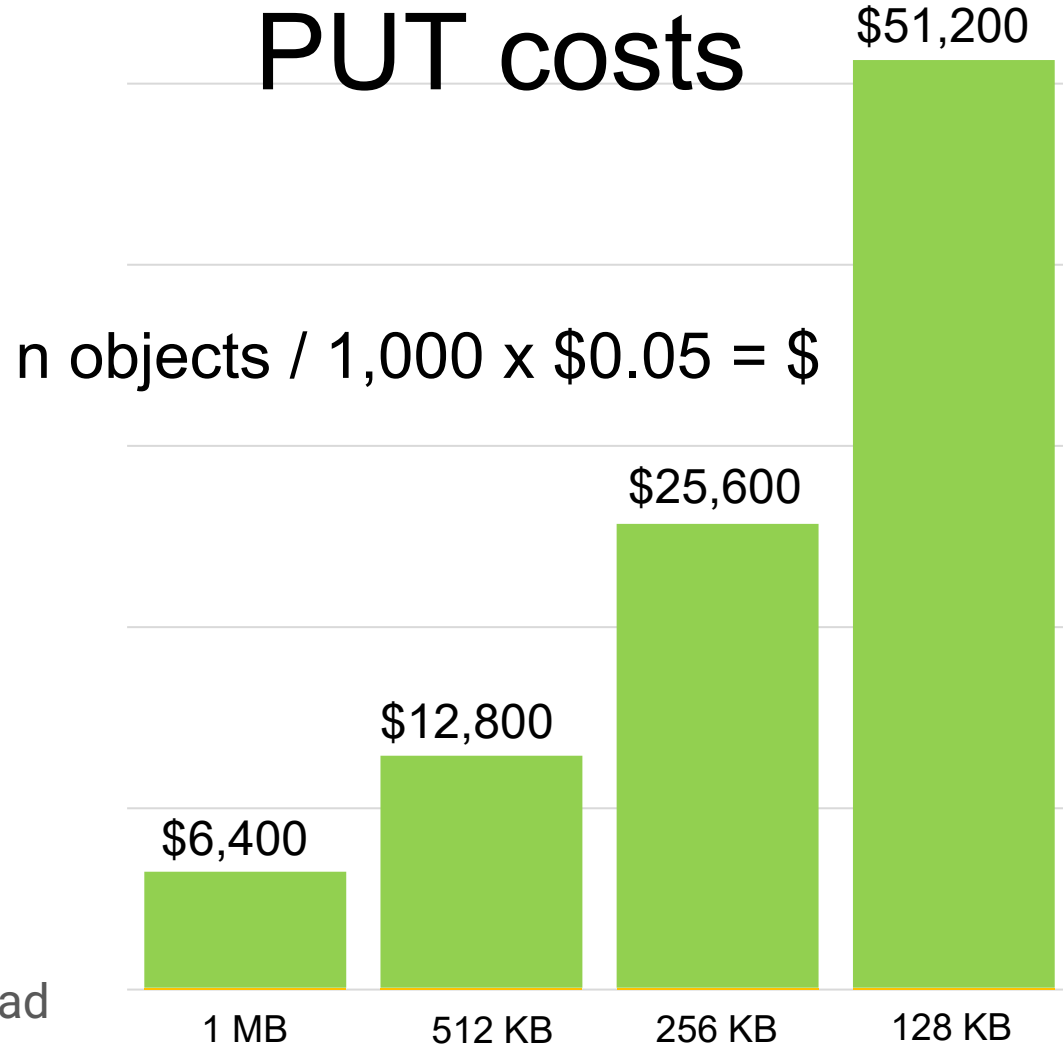


Pitfall!: API requests lead to unwelcome surprises

128TB in archive = \$1,520.⁶⁴ per year for storage.... but

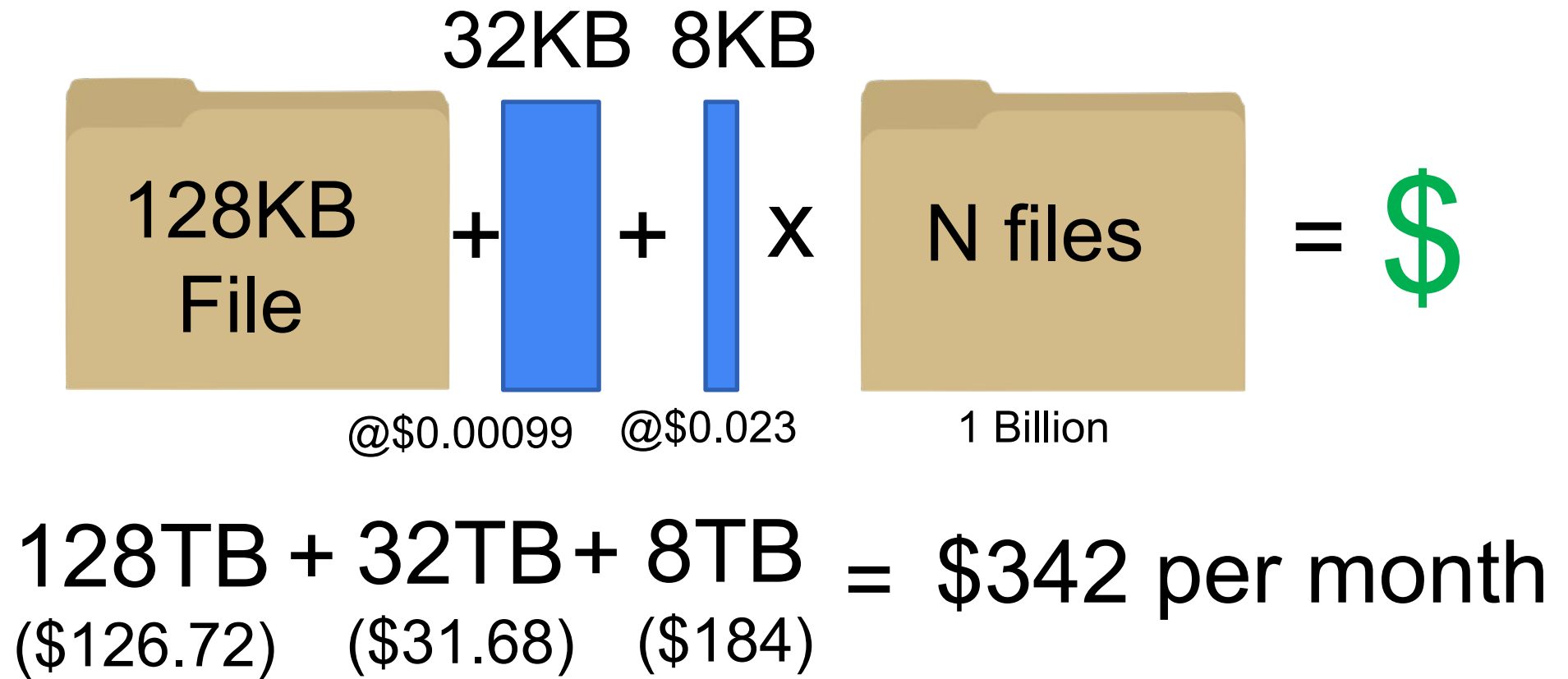
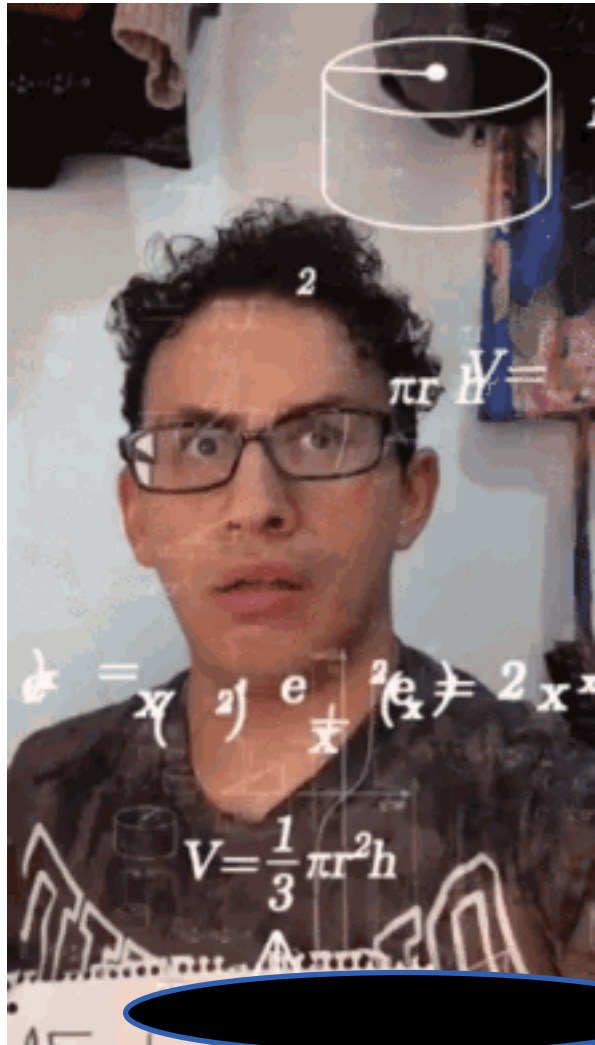


PUT costs



Pitfall!: Object Overhead Charges

128TB in archive = \$126.72 per month.... but



Pitfall!: Cloud lock-in

Vendor “Lock-in” is real and it’s a concern

Most organizations don’t have the:

- Money
- Technical know-how
- Time to move large quantities of data between cloud providers



Enterprises learning to love cloud lock-in too: Is it different this time?
ZDNet

Don't look now but more enterprises are going "all-in" with cloud providers. Will enterprises repeat the same lock-in mistakes made in the big enterprise software era?

InfoWorld



CLOUD COMPUTING
By David Linthicum, InfoWorld | JUL 2, 2021 3:00 AM PDT

Cloud lock-in is real

Lock-in is the dirty little secret of public cloud computing. It's been whispered it for years, but more and more people are speaking up.

InformationAge
Have you traded on-premise lock-in for in-cloud lock-in?

Forbes

Enterprise & Cloud
Five Ways To Avoid Cloud Lock-in

Entrepreneur.

With Rising Costs and Vendor Lock-Ins, Is a Cloud Exodus in the Making?

If you can't afford to move, you are “Locked-in”

Winning the game of cloud storage



Wrap up and Q&A

Built to Store the World's Data

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