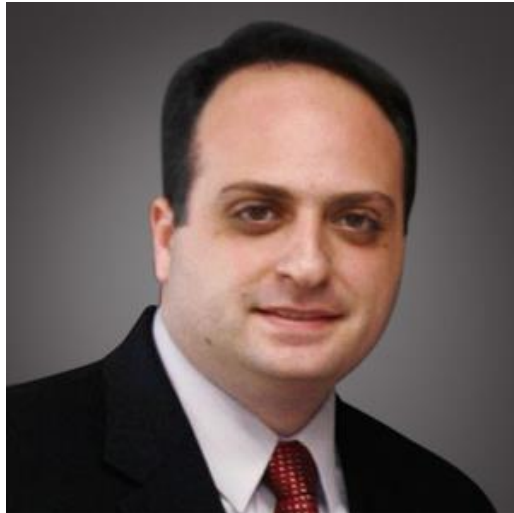


# Working with AWS Storage: Ephemeral and S3



Elias Khnaser

@ekhnaser | [www.eliaskhnaser.com](http://www.eliaskhnaser.com)

# Understanding Ephemeral Storage



- Instance store
- Temporary block-level storage
- Free storage with an EC2 instance
- Data is lost when instance is terminated or stopped
- There is no SLA, access speed is not guaranteed
- Buffers, caches, scratch data, etc...
- Replicated data for load-balanced web servers

# Amazon Simple Storage Service (S3)



- First AWS service introduced in 2006
- Internet accessible storage via HTTP / HTTPS
- Audio, video, images, backup etc...
- Unlimited bucket size
- Up to 5 TB object size
- Priced on storage used and transfer out
- It's not a file system
- 99.99% SLA

# Two Types of S3 Storage



- Standard storage
  - 99.9999999999% durability
  - First 1TB \$0.0300 / GB
- Reduced Redundancy Storage (RRS)
  - First 1TB \$0.0240 / GB
  - Reduced durability - 99.99%
- Granular storage type selection
- <http://aws.amazon.com/s3/pricing/>

# S3 Storage

Create an Amazon S3 bucket

Manage S3 objects



# Summary



What is Ephemeral storage?

Understanding AWS S3

Create an Amazon S3 bucket