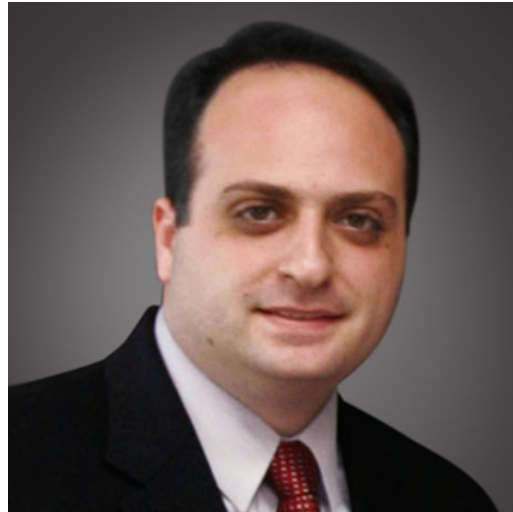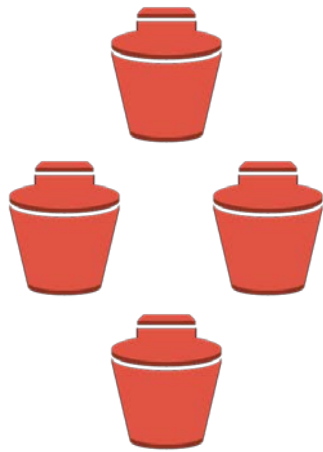# EBS Snapshots and Replication

Elias Khnaser
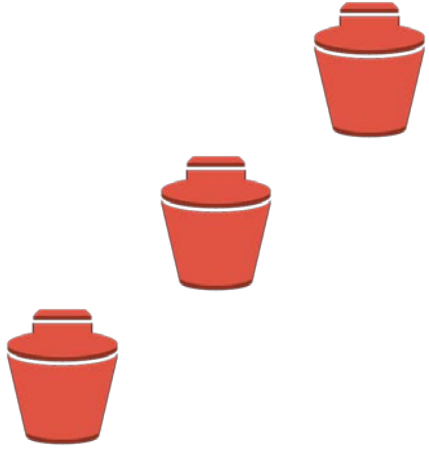
@ekhnaser | www.eliaskhnaser.com

EBS Snapshots Characteristics

- Point-in-time snapshots

- Supports incremental snapshots

- Billed only for the changed blocks

- Deleting a snapshot removes only the data not needed by any other snapshot

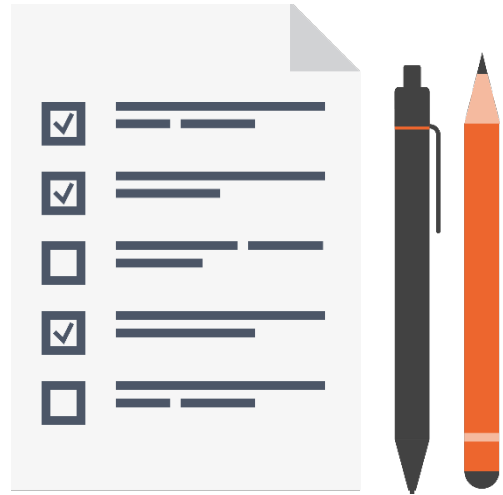- EBS leverages S3 for snapshot storage

EBS Snapshots Features

- Resizing EBS volumes
- Sharing EBS Snapshots
- Copying EBS Snapshots across regions
- Lazy loading

Pre-Warming EBS Volumes

- ## Pre-Warming on Windows:

    - Format the drive (new volume)

    - Use dd for Windows (drive with data)

    - http://docs.aws.amazon.com/AWSEC2/latest/WindowsGuide/ebs-prewarm.htm

- ## Pre-Warming on Linux:

    - Use dd to write or read

    - http://docs.aws.amazon.com/AWSEC2/latest/UserGuide/ebs-prewarm.html

Summary

EBS Snapshots Characteristics

EBS Snapshots Features

Pre-Warming EBS Volumes