Background

- AWS Regions: Separate datacenters.
    - E.g., us-east-1, us-west-1, etc.
    - Each region consists of availability zones
        - can have automatic data replication across zones in a region (but not all customers do it)
- AWS Elastic Block Storage (**EBS**) – mountable storage "devices", accessible from EC2 instances
- 1 EBS volume runs inside an Availability Zone
    - Two networks: primary n/w used for EC2 and EBS control plane; secondary n/w used for overflow – has *lower capacity*
    - Control information replicated across zones (for availability)
- EBS volumes replicated for durability
    - Each volume has a primary replica
    - If out of sync or node failure, replicas programmed to do aggressive re-mirroring of data

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