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What's an EBS Volume?





- An EBS (Elastic Block Store) Volume is a <u>network drive</u> you can attach to your instances while they run
- It allows your instances to persist data, even after their termination
 - They can only be mounted to one instance at a time (at the CCP level)
 - They are bound to a specific availability zone
- Analogy: Think of them as a "network USB stick"
- Free tier: 30 GB of free EBS storage of type General Purpose (SSD) or Magnetic per month

EBS Volume

• It's a network drive (i.e. not a physical drive

- It uses the network to communicate the instance, which means there might be a bit of latency
 - It can be detached from an FC2 instance and attached to another one quickly

It's locked to an Availability Zone (AZ) —

- An EBS Volume in <u>us-east-la</u> cannot be attached to <u>us-east-lb</u> • To move a volume across, you first need to snapshot it
- Mayo a provisioned capacity (size in CPs and IOPS)
- Have a provisioned capacity (size in GBs, and <u>IOPS</u>)
 - ou get billed for all the provisioned capacity
 - You can increase the capacity of the drive over time

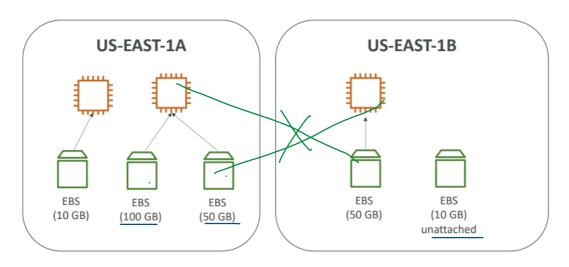
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EBS Volume - Example





- Controls the EBS behaviour when an EC2 instance terminates
 - By default, the root EBS volume is deleted (attribute enabled)
 - By default, any other attached EBS volume is not deleted (attribute disabled)

This can be controlled by the AWS, console / AWS CLI

Use case: preserve root volume when instance is terminated

BS Snapshots

Make a backup (snapshot) of your EBS volume at a point in time

Not necessary to detach volume to do snapshot, but recommended

• Can copy snapshots across AZ or Region

