

* EC2 Instance Storage section *

EBS volume:

Elastic Block Store

Network drive you can attach to your instance while they are running.

Allows instances to persist data, even after their termination.

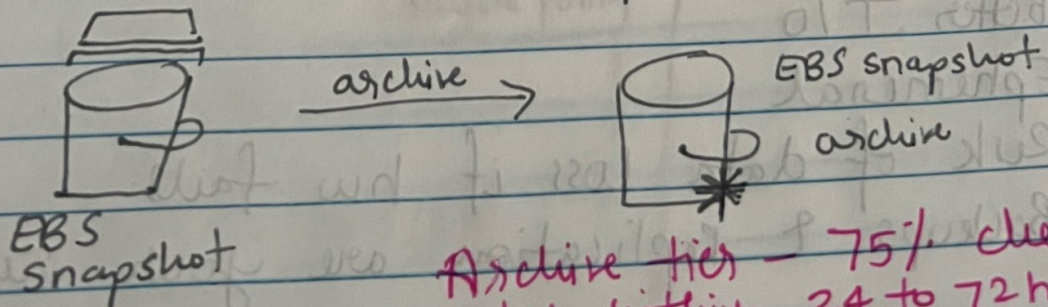
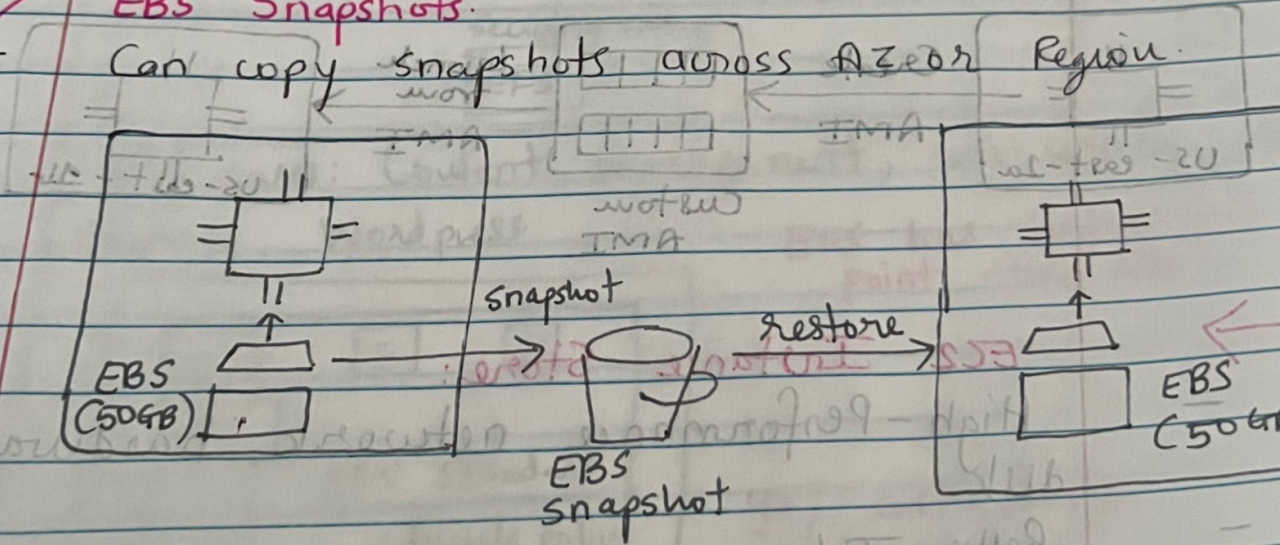
Locked to an AZ (Availability Zone).

Have a provisioned capacity (size in GBs, TBs).

By default, the root EBS volume is deleted. Can be controlled by the AWS console / AWS CLI.

EBS Snapshots

Can copy snapshots across AZ or Region.



Archive tier - 75% cheaper
Takes within 24 to 72 hrs for restoring the archive

Retention:
(1 day to
1 year)

EBS
Snapshot

delete

Recycle Bin

AMI

Amazon Machine Image

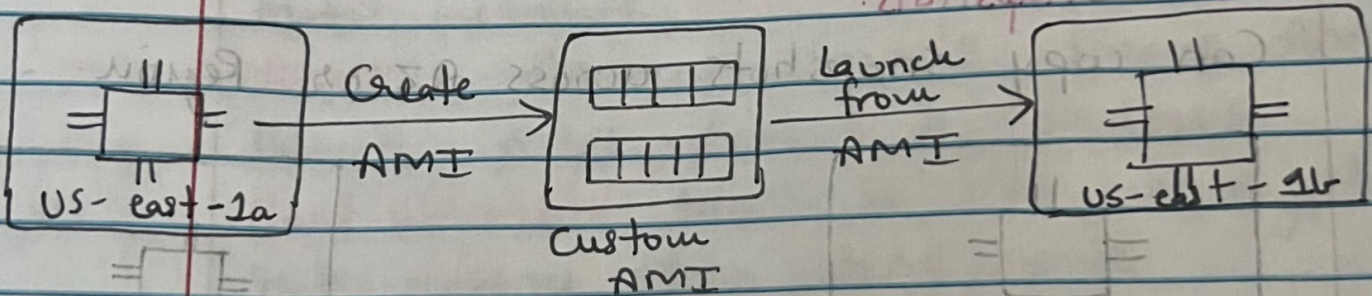
Customization of an EC2 instance
Built for a specific region. (and can be
copied across regions).
Launch EC2 instances from.

Public
AMI

Yours own
AMI

An AWS
Marketplace AMI

AMI Process (from an EC2 instance)



EC2 Instance Store:

High-Performance network hardware
disk

Better I/O

Ephemeral

Risk of data loss if hw fails.

Backups & Replication are your responsibility

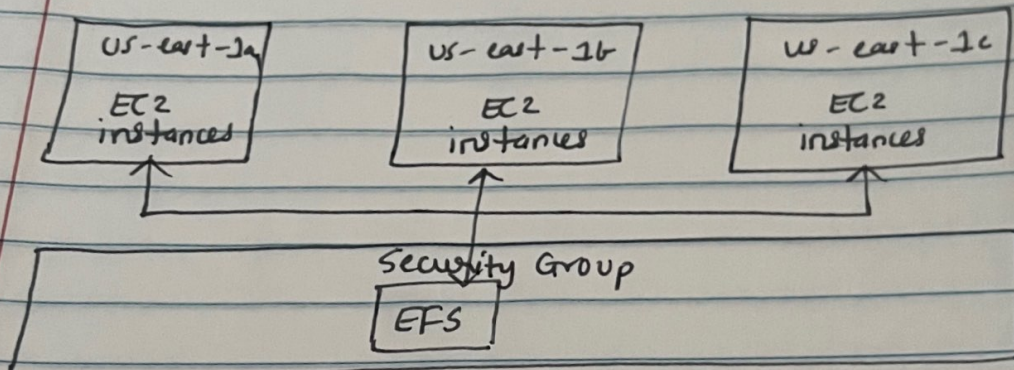
EBS Volume Types

- 6 types
- gp2 / gp3 (SSD)
- io1 / io2 (SSD)

} can be used as boot volumes.

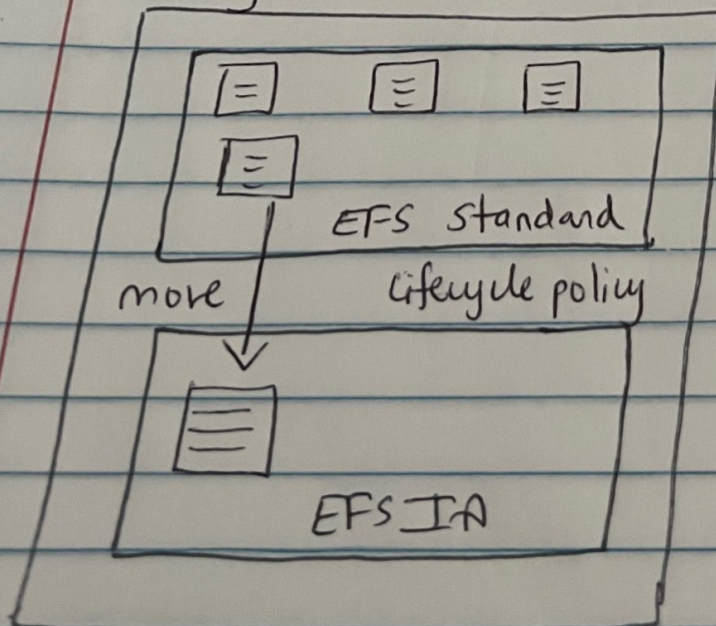
EFS: (Only for Linux Instances)

- Elastic File System.
- Managed NFS, can be mounted on many EC2
- Works with EC2 instances in multi-AZ
- Highly available, scalable, expensive, pay per use.



- Use cases: Content management, web serving, data sharing, Wordpress.

EFS has higher price point than EBS.



90% cost savings

Amazon EFS file system