



BATCH : 149
LESSON : AWS
DATE : 14.08.2023
SUBJECT : AWS-Snapshots-AMI

ZOOM GİRİŞLERİNİZİ LÜTFEN **LMS** SİSTEMİ ÜZERİNDEN YAPINIZ





AWS Snapshots-AMI



Amazon Machine Image

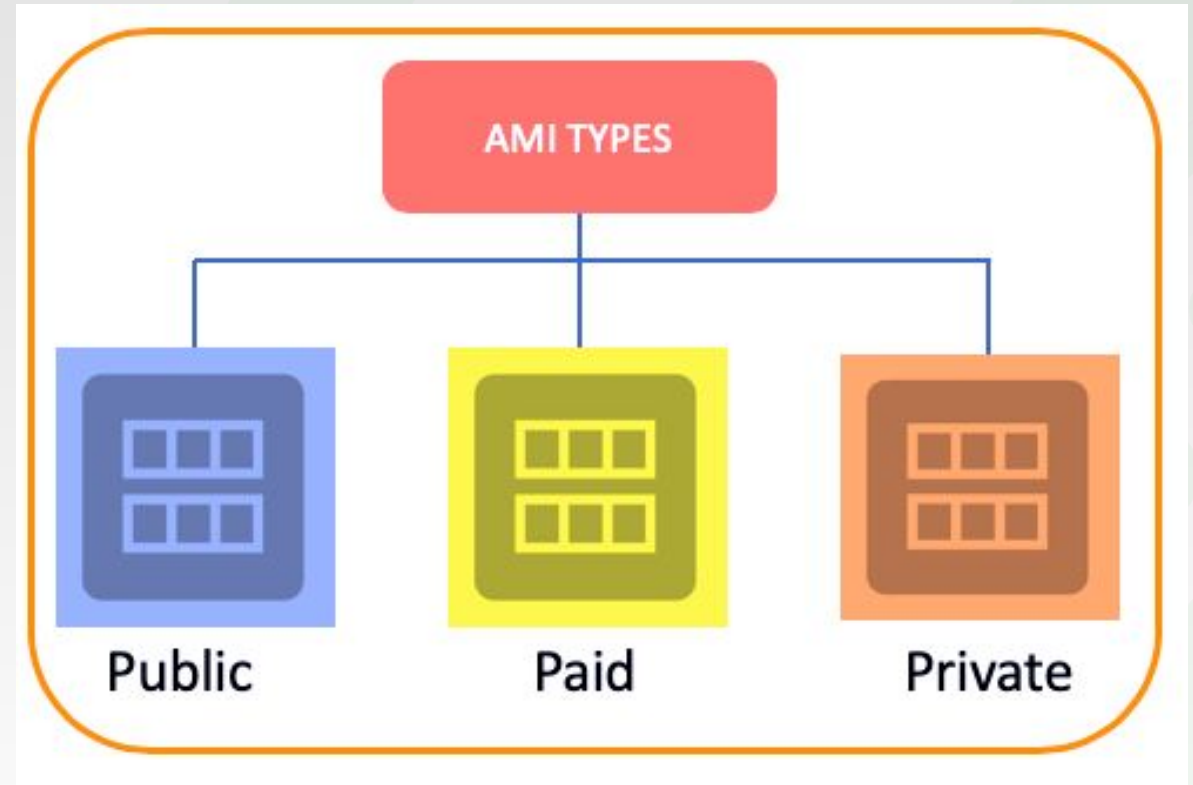
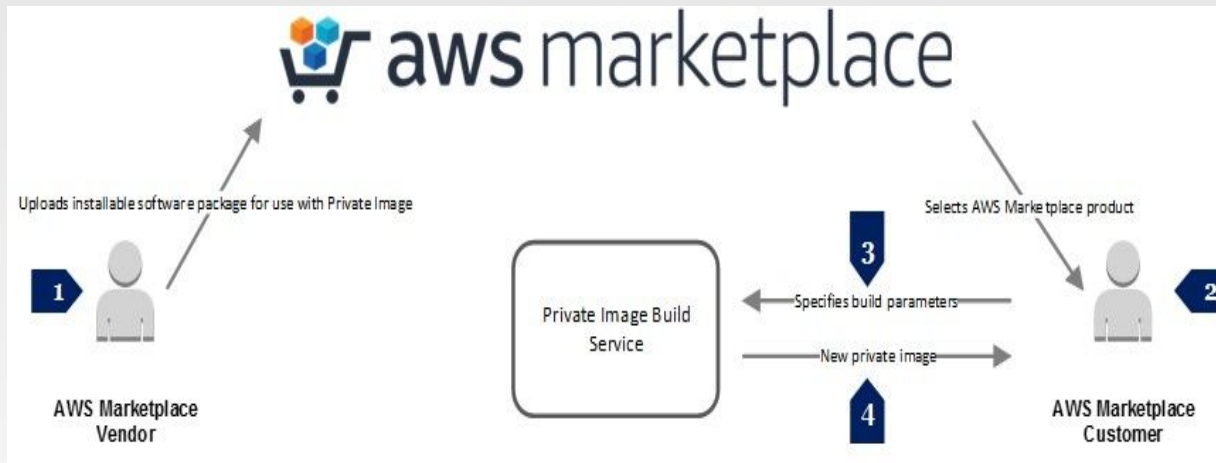
- ✓ **AMI is a virtual image** used to create a virtual machine within an EC2 instance. In other words, it is **a virtual machine template containing predefined operating system and application files.**
- ✓ When creating a virtual machine, you will get an **operating system and application list** according to the features presented in that template by choosing which template to create this machine. **All AMI provides a template for the root volume** of an instance.



Amazon AMI



Amazon Machine Image Types





What is Snapshot?

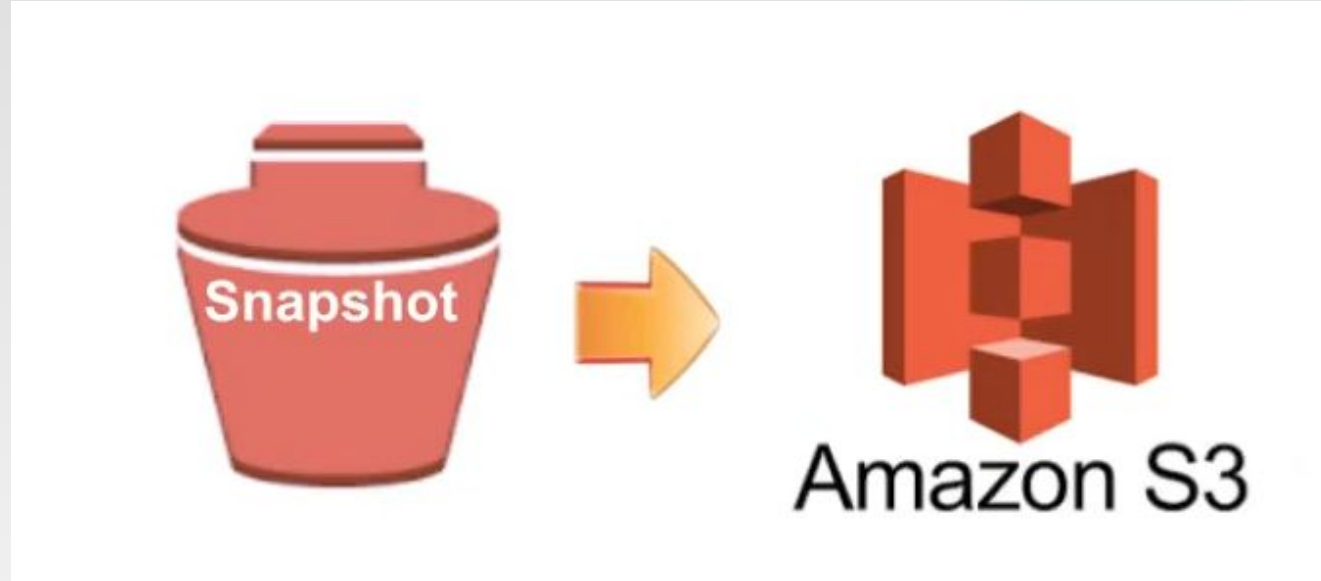
- ✓ Snapshot is the name of the method that allows us to take **a current copy of an EBS disk**.
- ✓ It is a **point-in-time copy of your Amazon EBS volume**.
- ✓ Snapshots are used for the purpose of
 - ✓ **Backup**
 - ✓ **Copying AMI for creating multiple instances** with the same features
 - ✓ **Creating a new Volume**



EBS Snapshot



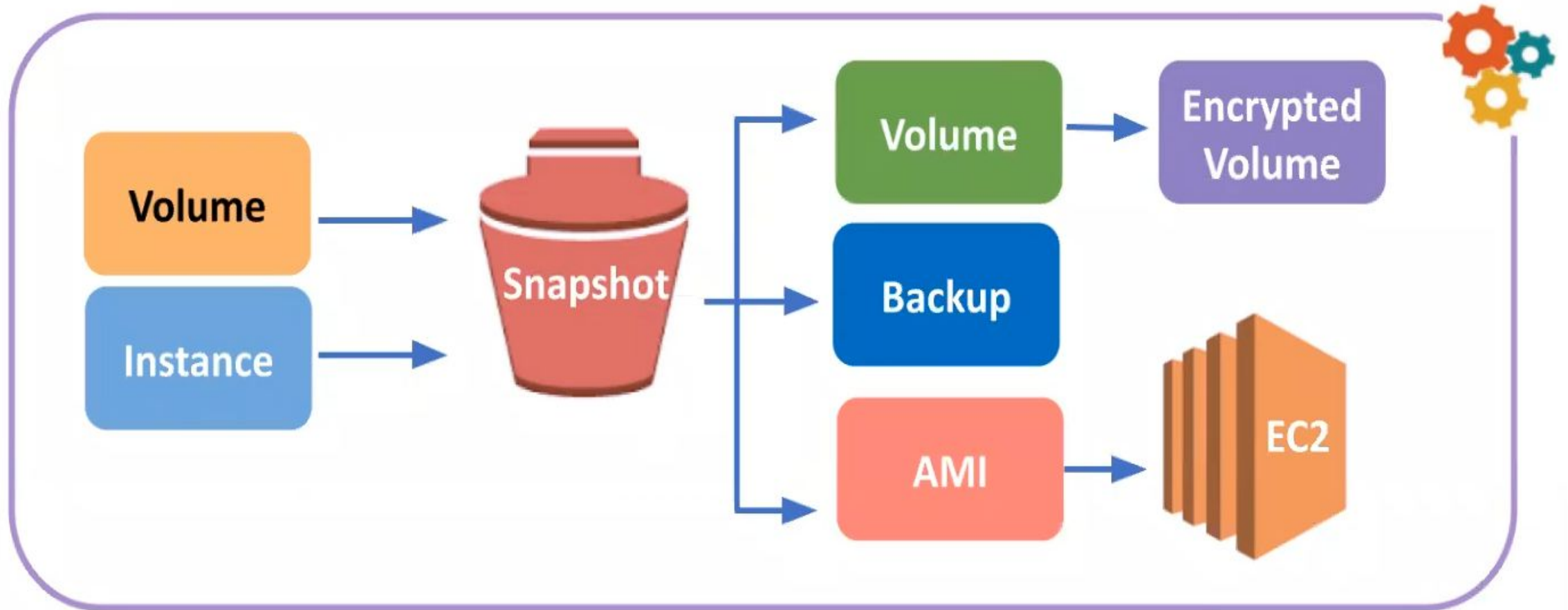
Features of Snapshot



- ✓ Source from **Volume or Instance**
- ✓ Stored in Amazon **S3**
- ✓ **Incremental** Storage
- ✓ Data Lifecycle Manager
- ✓ EBS Snapshot Archive, From Standard to Archive Tier
- ✓ Recycle Bin for EBS Snapshots
- ✓ Fast Snapshot Restore
- ✓ **Snapshots go across regions** where **volumes stay in the same region as the snapshot.**
- ✓ You can **create a copy of a snapshot** but you **can't create a copy of a volume.**
- ✓ **Volumes, AMIs, instances all depend on the snapshot.**



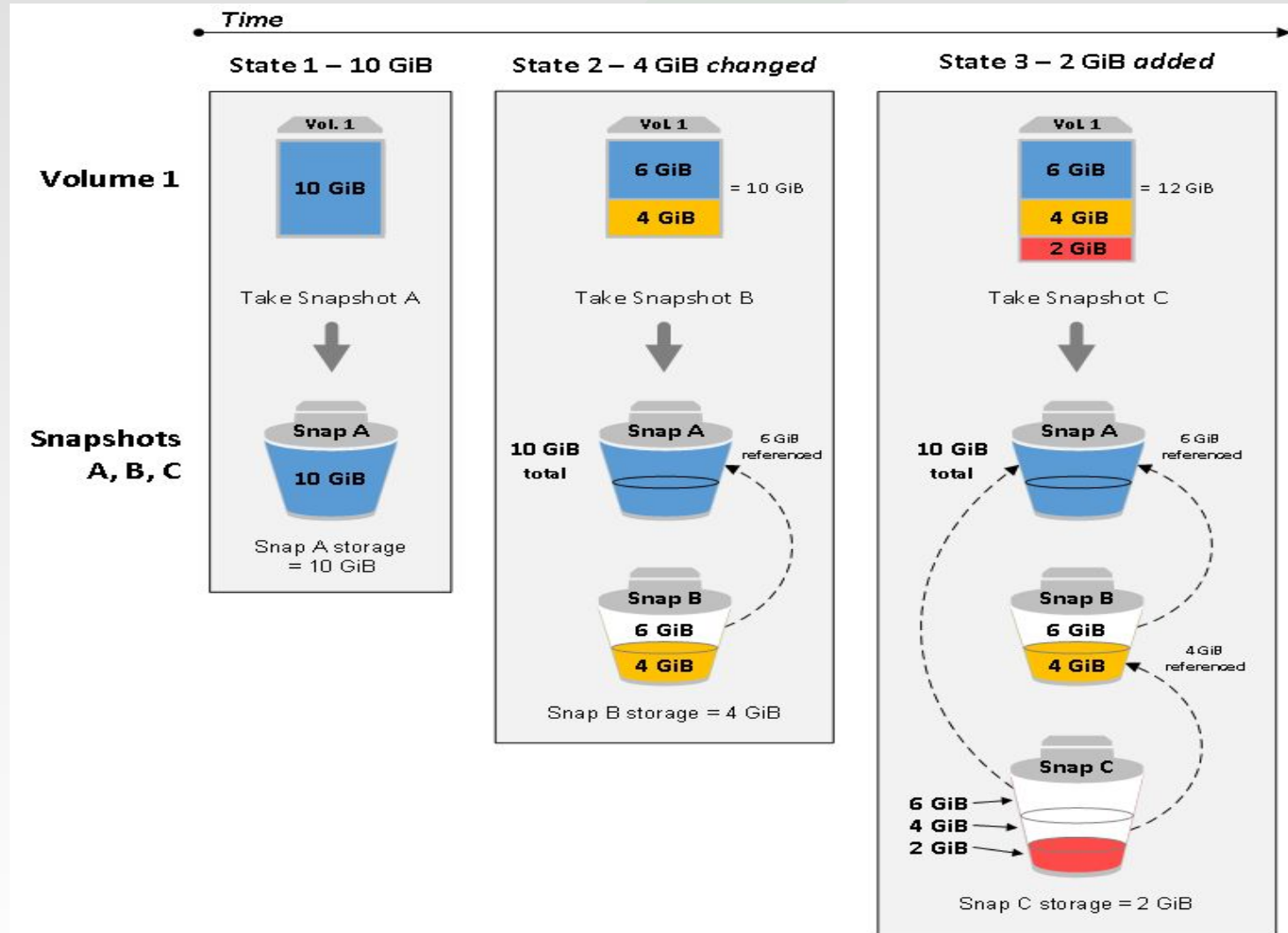
Lifecycle of Snapshot





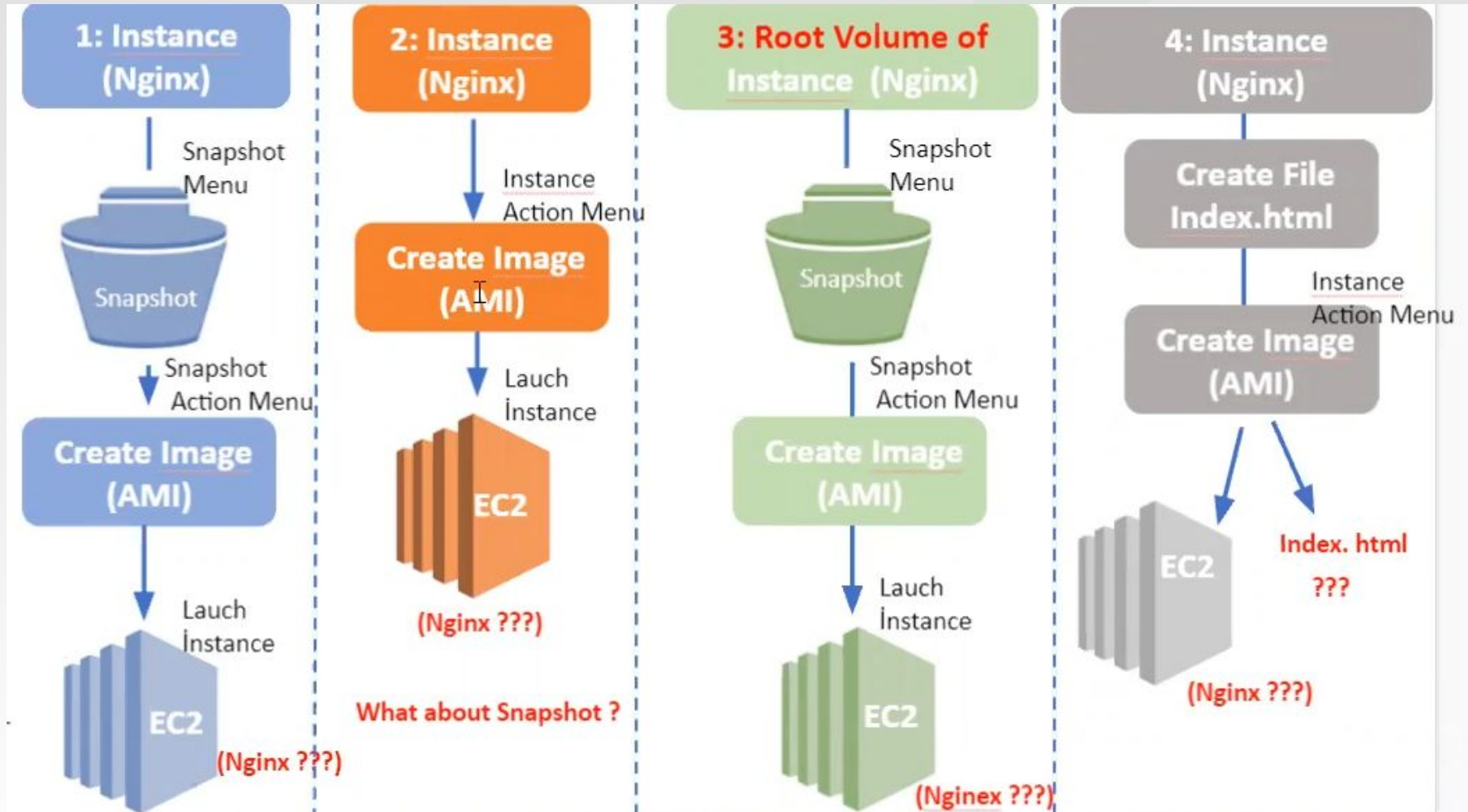
Lifecycle of Snapshot

Incremental Backups





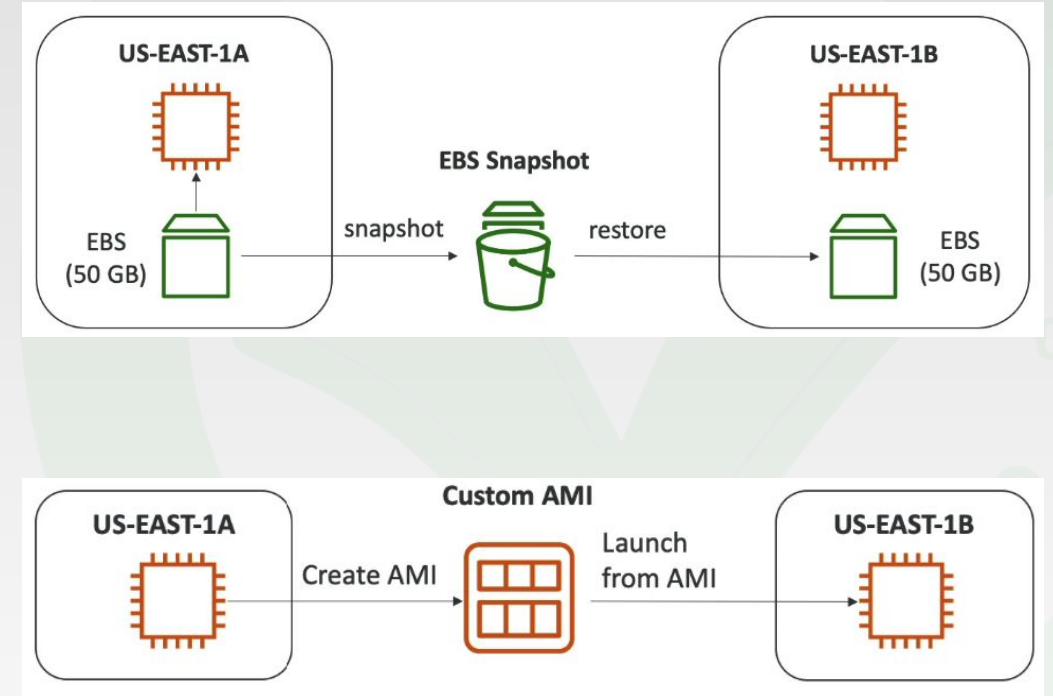
Lifecycle of Snapshot





Snapshots-AMI Summary

- You can have a backup of your EBS volume **at any point in time**
- **Snapshots can be copied across AZ or Region**
- **Snapshots are incremental storage**
- **Snapshots are stored in S3**
- **AMI is customization of an EC2 instance**
- **AMI is built for a specific region and can be copied across regions**





Snapshots-AMI

Certification Test Cases

1

A Cloud Engineer needs to backup EBS volumes simply in an automated way.

How do you advise?

Use Data Lifecycle Manager

2

A DevOps Engineer needs to move EBS volume across Regions.

How can you advise?

Take a snapshot of the volume then copy the snapshot between Regions

3

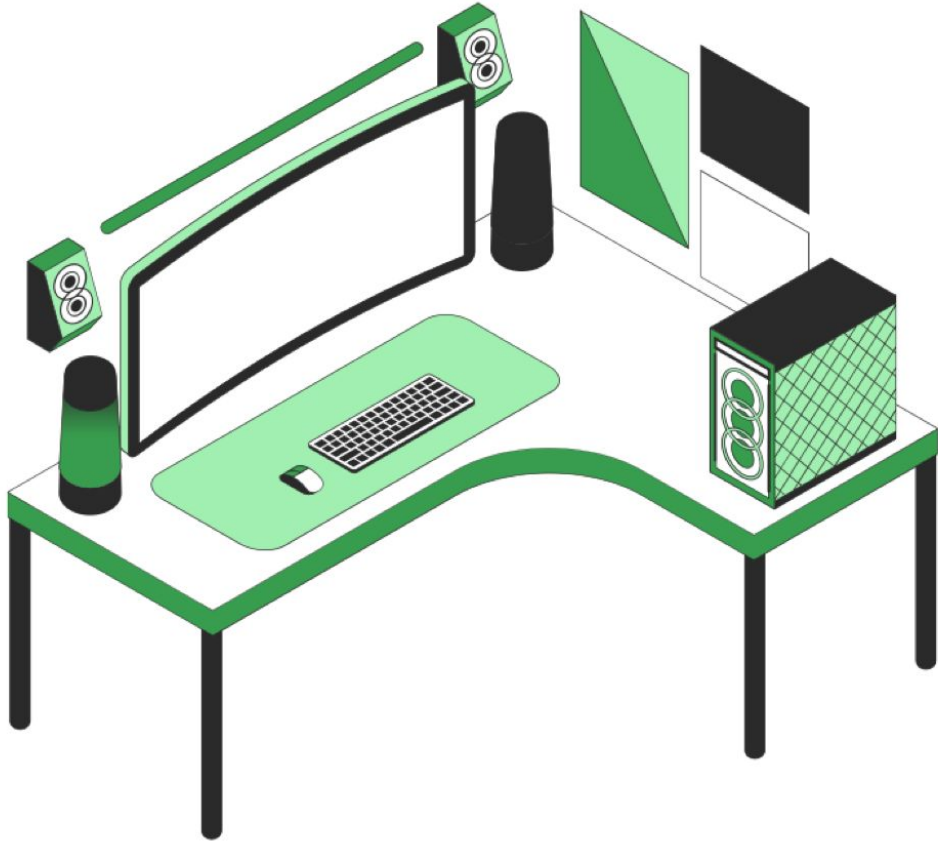
A system administrator needs to reduce the cost of snapshot data as many instances have numerous snapshots. Which snapshots must be retained to ensure a full restore can be performed?

Only the most recent snapshot

4

A solutions architect needs to encrypt an unencrypted EBS volume attached to an EC2 instance. What should he/she do?

Create a snapshot of EBS volume. Copy the snapshot and check the encryption option. Then use the encrypted snapshot to create EBS volume.



Do you
have any
questions?

Send it to us! We hope you learned
something new.