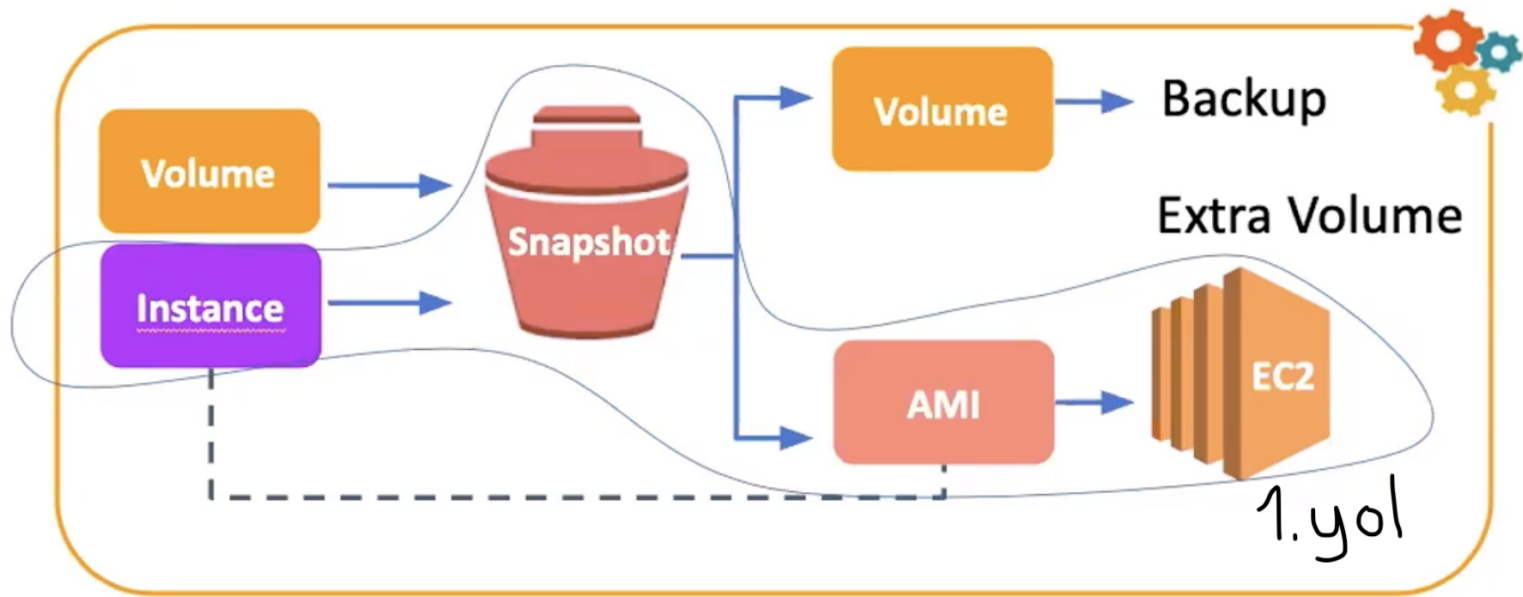
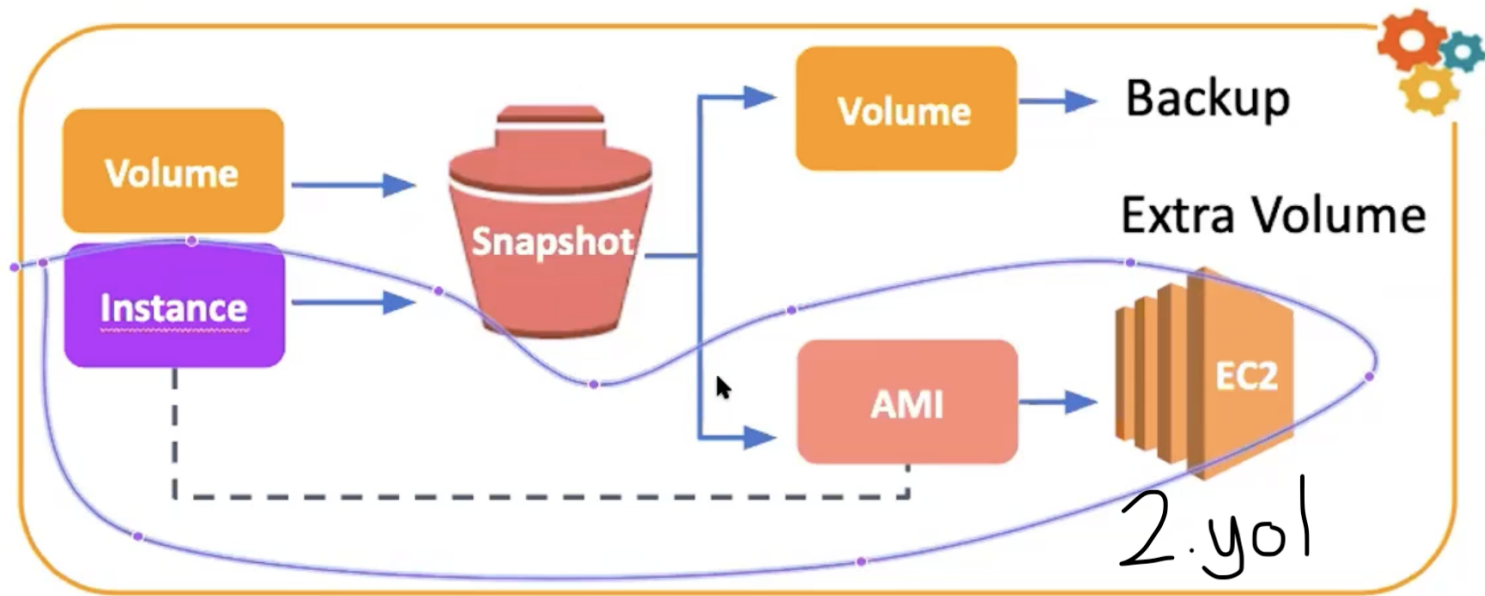


Lifecycle of Snapshot

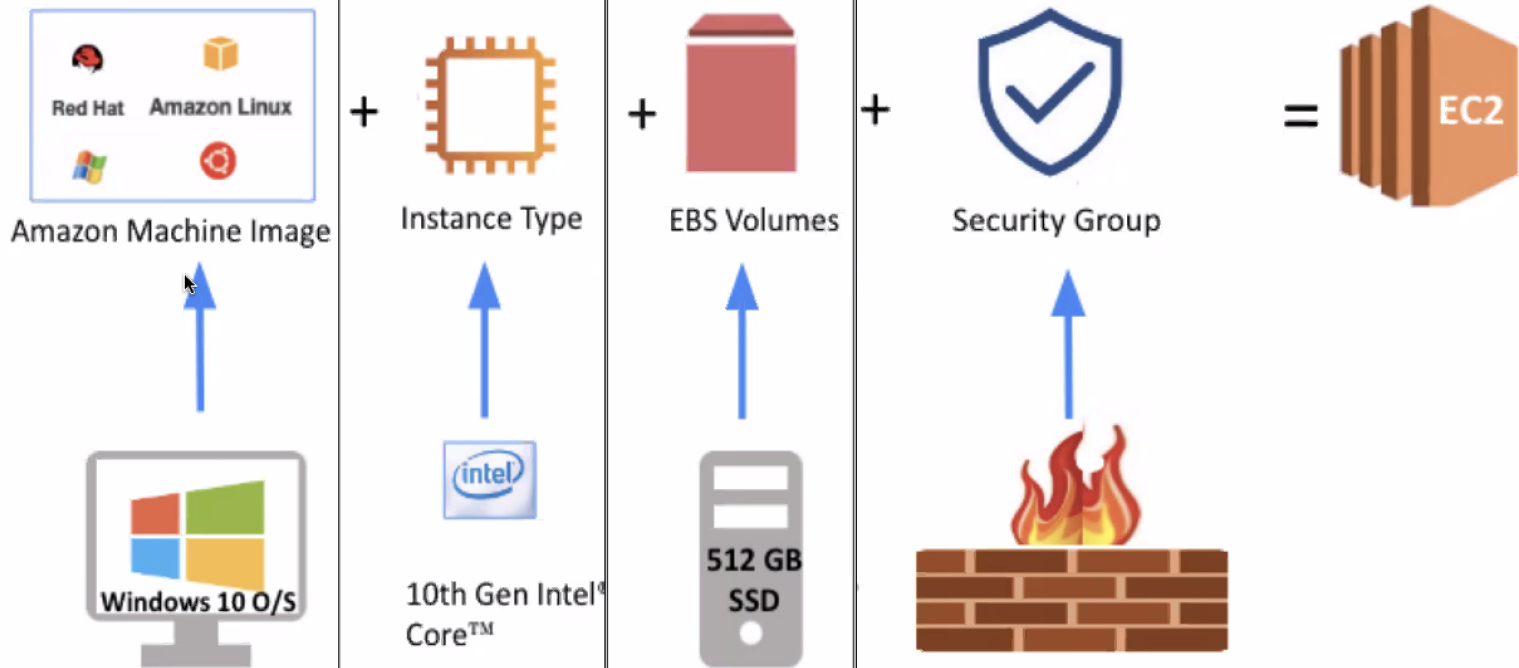


*Lifecycle of Snapshot*



*Lifecycle of Snapshot*

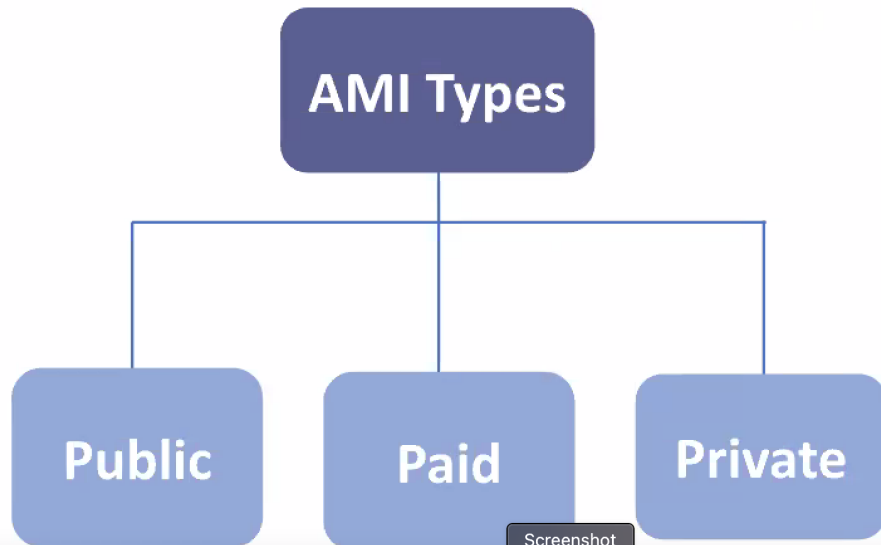
# Amazon Machine Image



# Amazon Machine Image (AMI)



## Types of AMIs



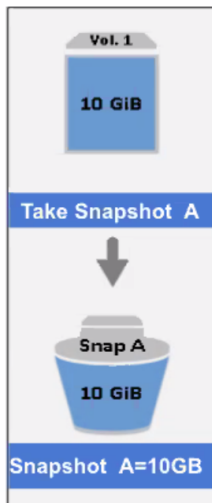
Screenshot

# Snapshot

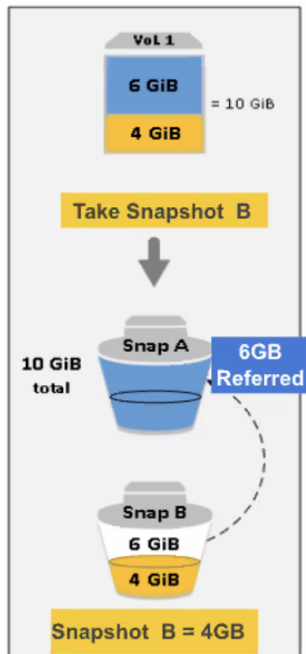
## Incremental Backups

32 GiB vs. 16 GiB

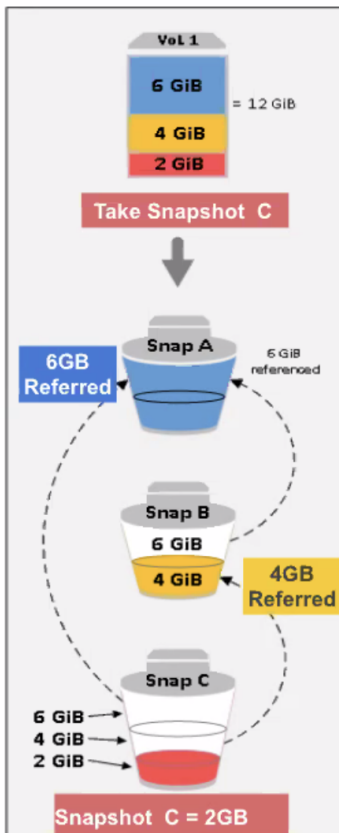
State 1 – 10 GiB



State 2 – 4 GiB changed



State 3 – 2 GiB added



Snapshot A = 10 GB

Snapshot B = 4 GB Changed + Referred 6 GB Snapshot A

Snapshot C = 2 GB Added + Referred 6 GB Snapshot A + 4 GB Snapshot B

# Snapshot

## Data Lifecycle Manager (Amazon DLM)



**RETENTION=5**



MONDAY 03:00 AM TUESDAY 03:00 AM WEDNESDAY 03:00 AM THURSDAY 03:00 AM FRIDAY 03:00 AM



MONDAY 03:00 AM TUESDAY 03:00 AM WEDNESDAY 03:00 AM THURSDAY 03:00 AM FRIDAY 03:00 AM SATURDAY 03:00 AM



MONDAY 03:00 AM TUESDAY 03:00 AM WEDNESDAY 03:00 AM THURSDAY 03:00 AM FRIDAY 03:00 AM SATURDAY 03:00 AM SUNDAY 03:00 AM



# Snapshot



## Encryption of Root Device via Snapshot



- Root device (volume) cannot be encrypted after creation. “How to encrypt unencrypted volume after after creation” is a common question that can be asked in certification exams!
  - Take snapshot of unencrypted volume.
  - Copying the unencrypted Snapshot,
  - You are able to encrypt this Snapshot while coping
  - Create an encrypted volume from this copied Snapshot.



# Golden AMI



- A **golden AMI** is an AMI that contains **security patches**, **configuration**, and **agents** required to by an organization. A “just enough OS” (jeOS) is the most basic golden AMI.
- It may also contain specific **software components** that make it **easier and faster** to start-up an instance .

