

### Today's Takeaways

- Amazon Machine Image (AMI)
- **Snapshot**

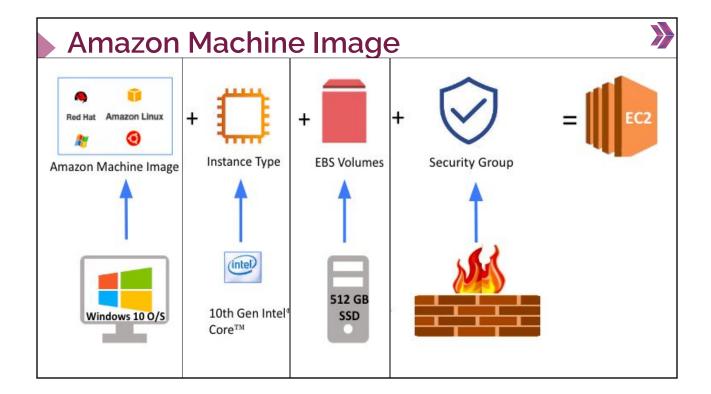






# Amazon Machine Image (AMI)





## Amazon Machine Image (AMI)

What is AMI?

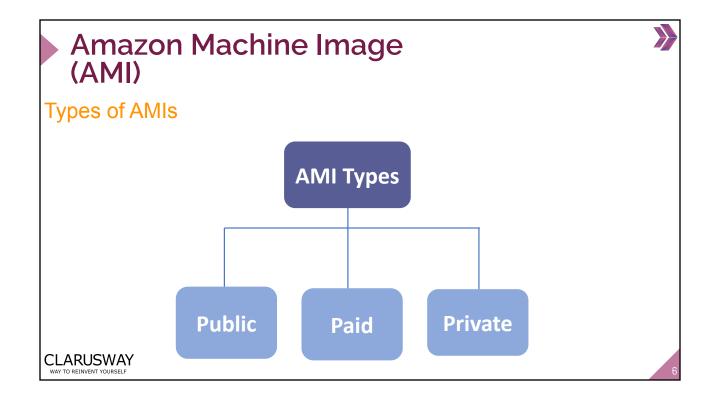








- An Amazon Machine Image (AMI) is used for the launching an virtual instances in the AWS environment.
- AMI are like templates that are configured with an operating system and other software, which determine the user's operating environment.
- You can copy an AMI. So you can launch multiple instances from a single AMI with the same configuration.





2 Snapshot



#### **Snapshot**

What is Snapshot?





- It is a point-in-time copy of your Amazon EBS Volume/Instance
- Snapshots are used for the purpose of
  - Backup
  - Copying AMI for creating multiple instances with the same features.
  - Creating a new Volume

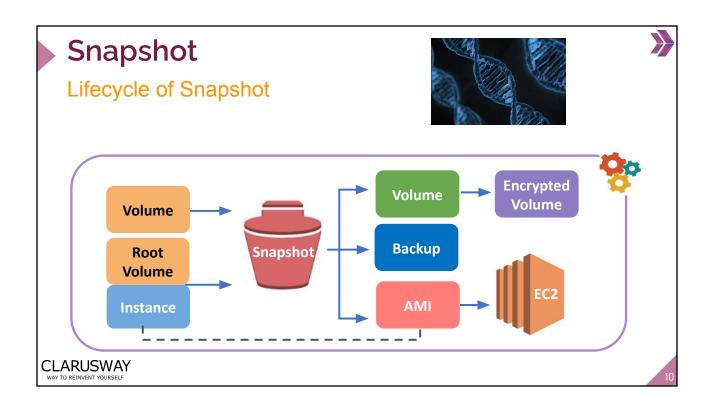


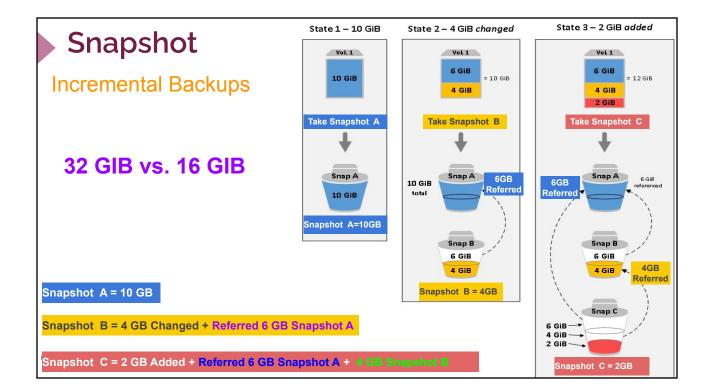
#### **Snapshot**

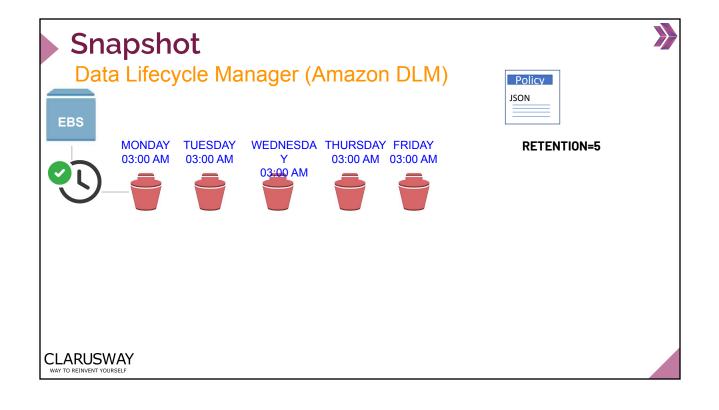
Features of the Snapshot

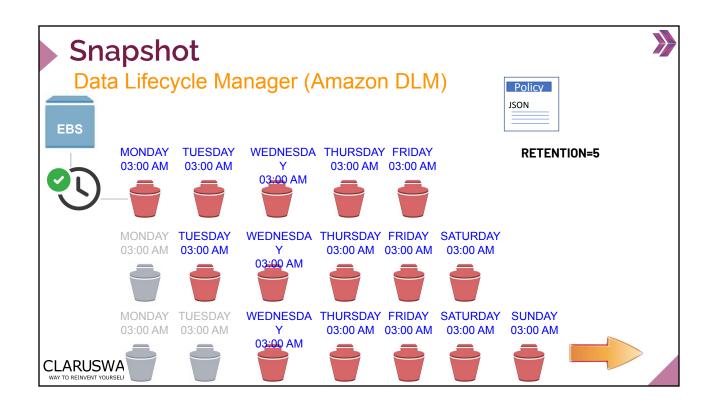


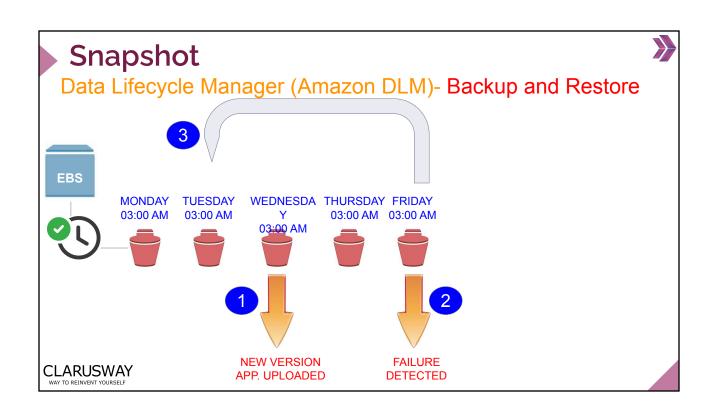
- Source from Volume or Instance
- Stored in Amazon S3
- Incremental storage
- Data Lifecycle Manager (DLM)











#### **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.

#### **Snapshot**



#### Let's get our hands dirty!

- Create Snapshots
- Make Public The Snapshot
- Data Life Cycle Manager
- Creating AMI from the Snapshot
- Creating Volume from the Snapshot
- Creating an Image from Instance





#### 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.

