

Today's Takeaways

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





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Amazon Machine Image (AMI)

CLARUSWAY

Amazon Machine Image (AMI)

What is AMI?



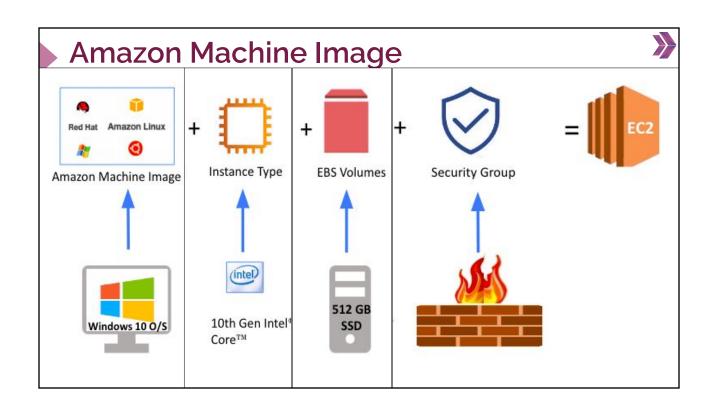


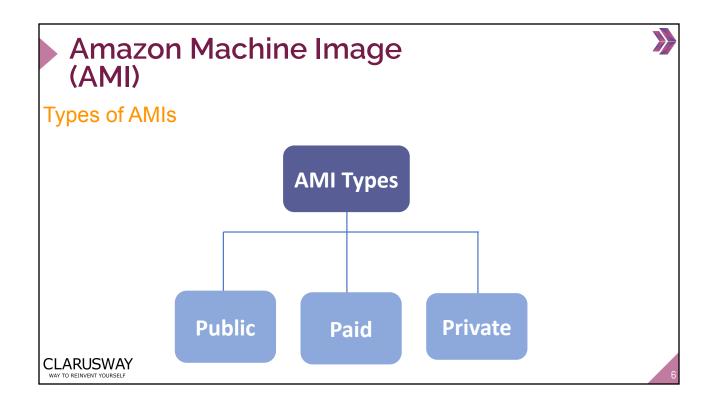






- An Amazon Machine Image (AMI) is used for the launching an virtual instances in the AWS environment.
- AMI are like templates that are configured with an operating system and other software, which determine the user's operating environment.
- You can copy an AMI. So you can launch multiple instances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









Snapshot

What is Snapshot?





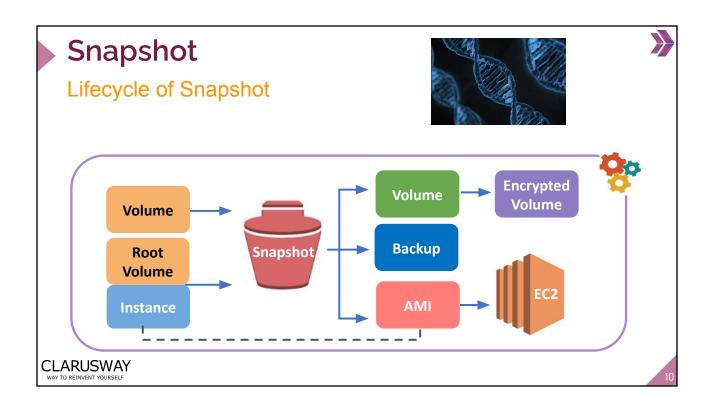
- It is a point-in-time copy of your Amazon EBS Volume/Instance
- Snapshots are used for the purpose of
 - Backup
 - Copying AMI for creating multiple instances with the same features.
 - Creating a new Volume

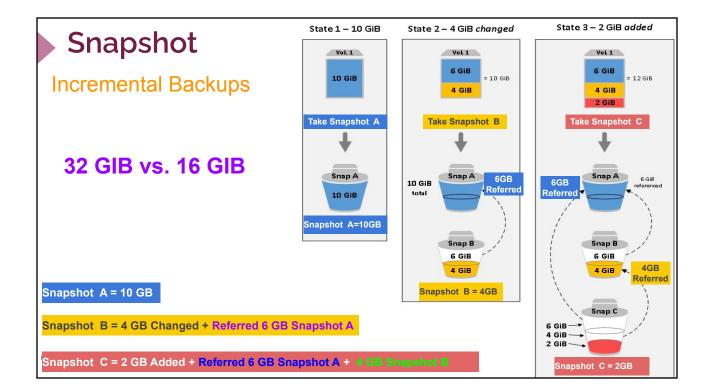


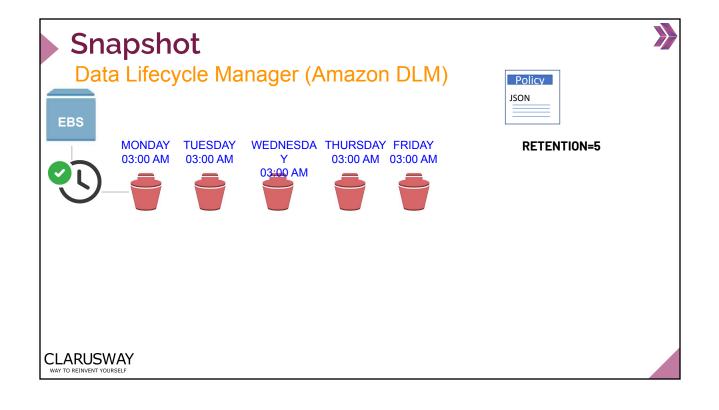
Features of the Snapshot

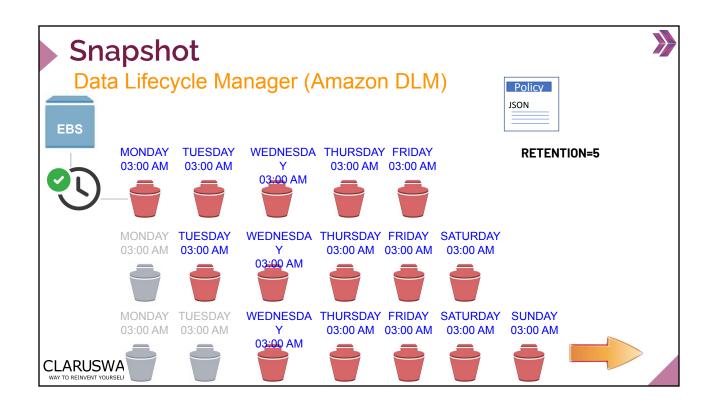


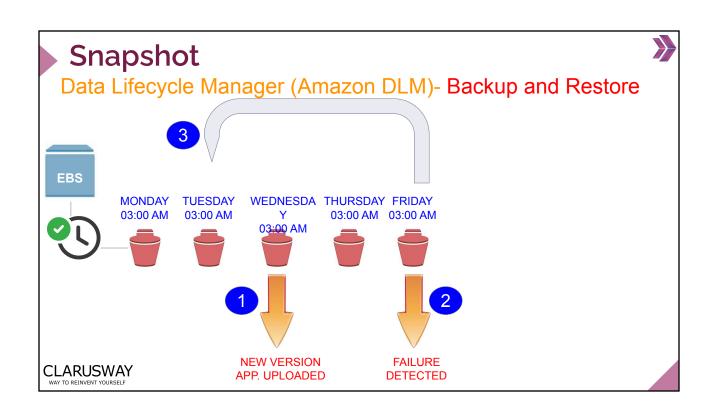
- Source from Volume or Instance
- Stored in Amazon S3
- Incremental storage
- Data Lifecycle Manager (DLM)













Encryption of Root Device via Snapshot

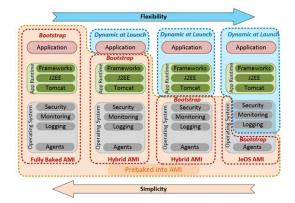


- Root device (volume) cannot be encrypted after creation. "How to encrypt unencrypted volume after after creation" is a common question that can be asked in certification exams!
 - Take snapshot of unencrypted volume.
 - Copying the unencrypted Snapshot,
 - You are able to encrypt this Snapshot while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







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



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