

AWS-AMI-SNAPSHOT

otto

Training Clarusway

Pear Deck - October 23, 2021 at 9:33AM

Part 1 - Summary

Use this space to summarize your thoughts on the lesson

Part 2 - Responses

Slide 1

▶ AMI & Snapshot

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Today's Takeaways

- ▶ Amazon Machine Image (AMI)
- ▶ Snapshot

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1 Amazon Machine Image (AMI)

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► Amazon Machine Image (AMI)

What is AMI?

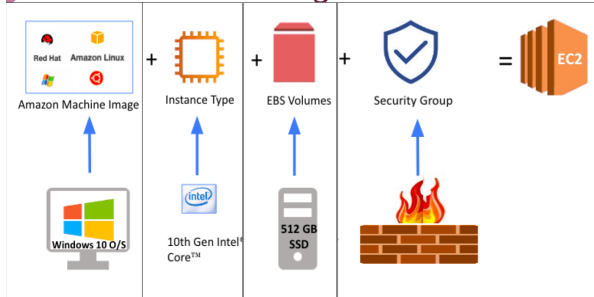


- An Amazon Machine Image (AMI) is used for the launching an virtual instances in the AWS environment.
- AMI are like templates that are configured with an operating system and other software, which determine the user's operating environment.
- You can copy an AMI . So you can launch multiple instances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

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► Amazon Machine Image

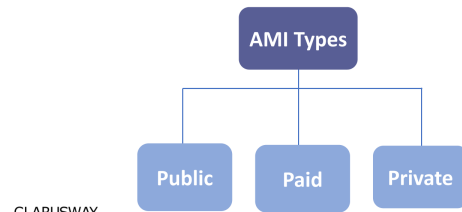


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▶ Amazon Machine Image (AMI)

Types of AMIs



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2 ▶ Snapshot

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► 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

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► Snapshot

Features of the Snapshot



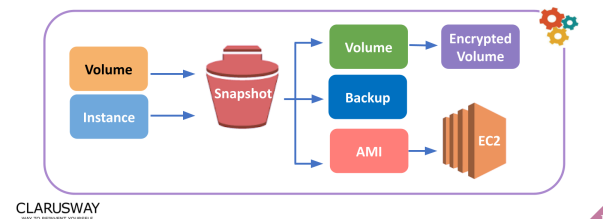
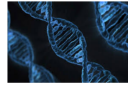
- Source from **Volume or Instance**
- Stored in **Amazon S3**
- **Incremental** storage
- **Data Lifecycle Manager (DLM)**

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Snapshot

Lifecycle of Snapshot



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Snapshot

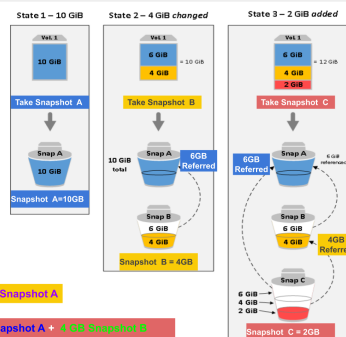
Incremental Backups

32 GIB vs. 16 GIB

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



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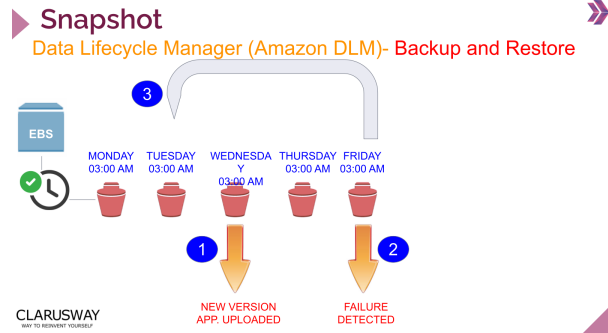


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Snapshot
Encryption of Root Device via Snapshot

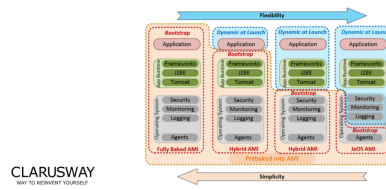
- Root device (volume) cannot be encrypted after creation. "How to encrypt unencrypted volume after creation" is a common question that can be asked in certification exams!
 - Take snapshot of unencrypted volume.
 - Copying the unencrypted Snapshot,
 - You are able to encrypt this Snapshot while copying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

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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 .



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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

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THANKS!

Any questions?



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