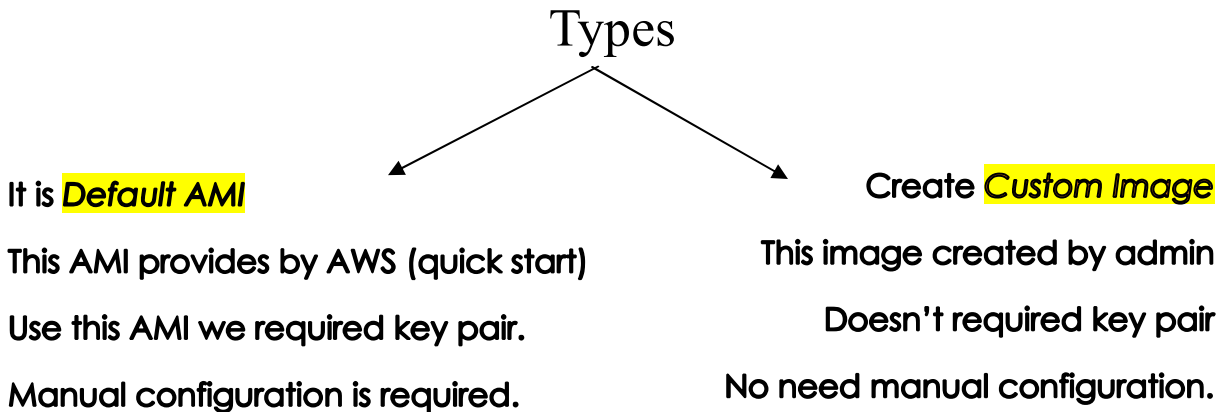


PROJECT: - CREATE SERVER WITH CUSTOM AMI

AMI have 2 Types:



Why do we create custom AMI?

Custom Amazon Machine Images serve as point-in-time, fully-configured templates of an EC2 instance. If the underlying instance or its Amazon EBS volumes are corrupted or terminated—whether by human error, software failure, or other incidents—you can relaunch an identical replacement in minutes from the AMI, thereby restoring service continuity with minimal downtime.

What Is Snapshot?

An Amazon EBS snapshot is a point-in-time, incremental backup of an EBS volume that is stored as an Amazon S3 object. It captures the exact block-level state of the volume at the moment the snapshot is initiated, including the operating system, installed applications, configuration files, and all user data. Snapshots are crash-consistent, compressed, and

deduplicated, providing durable, cost-efficient, and rapidly restorable copies that can be used to:

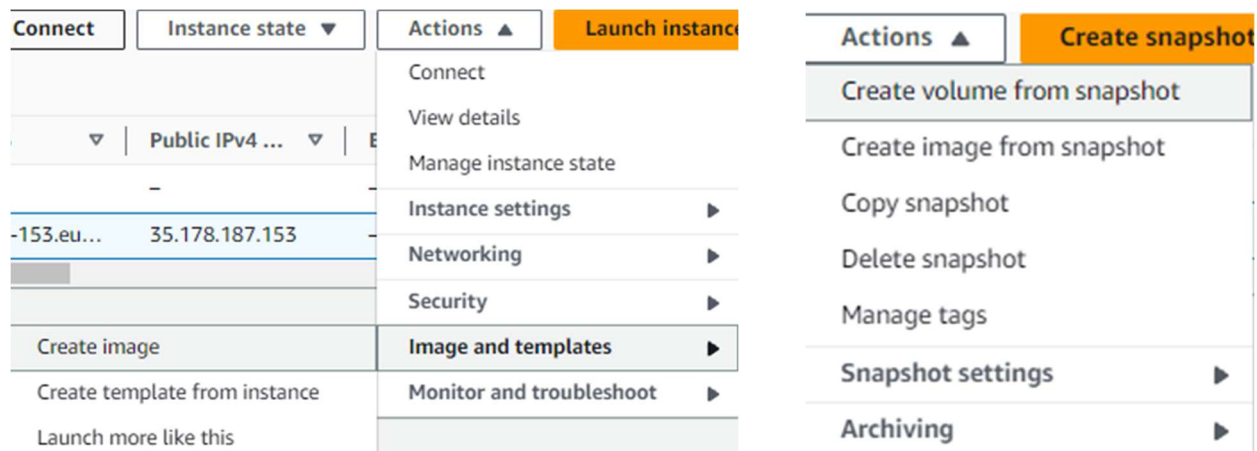
- Create new EBS volumes or replace failed ones.
 - Reconstruct or duplicate AMIs.
- Implement disaster-recovery, migration, and compliance strategies.

Relationship between AMIs and snapshots

An AMI is composed, in part, of Amazon EBS snapshots that capture the block-level state of each attached volume. Consequently, even if the AMI itself is inadvertently deregistered, the snapshots persist in Amazon S3.

From these retained snapshots, we can:

- Re-create the original AMI
- Create new EBS volumes and attach them to any EC2 instance, ensuring that your data remains recoverable and reusable.



If we want to create AMI then we have to select the server that we created before and then go to their action option and select **IMAGE AND TEMPLATES** → **CREATE IMAGE** and create **NEW AMI**.

Note: To use an existing AMI in another AWS Region, select the AMI, open the **Actions** menu, and choose **Copy AMI**.

This operation replicates the AMI—and its underlying EBS snapshots—from the source Region to the destination Region. Once the copy completes, the AMI becomes available in the new Region and can be used to launch instances without any dependency on the original Region.