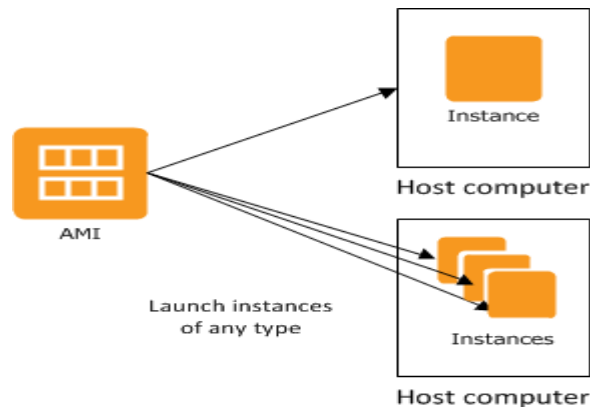
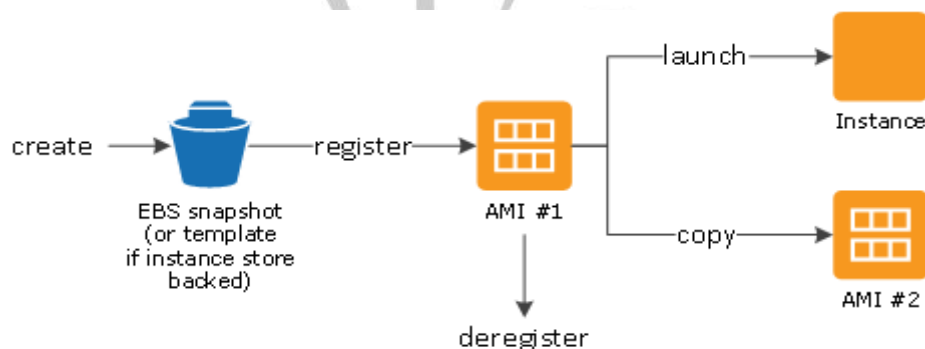


AMI (Amazon Machine Image)

- An AMI is a template that contains a software configuration (for example, an operating system, an application server, and applications)
- From an AMI, you launch an instance, which is a copy of the AMI running as a virtual server in the cloud.
- You can launch multiple instances of an AMI, as shown in the following figure.



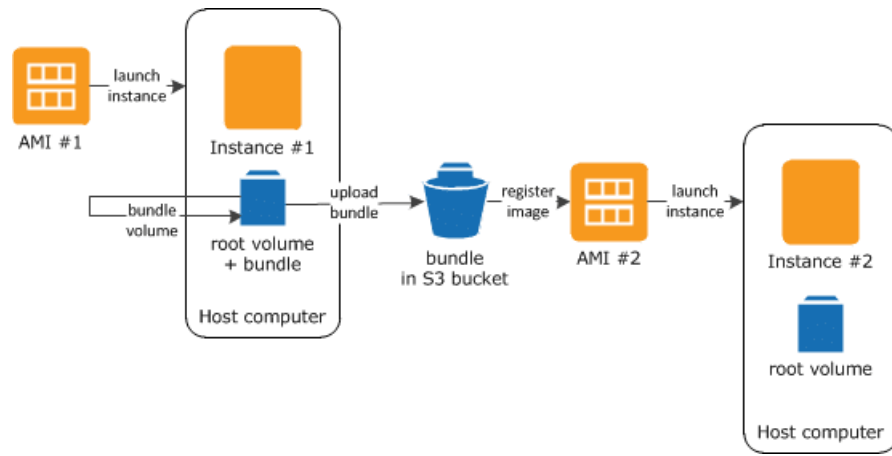
• AMI Lifecycle



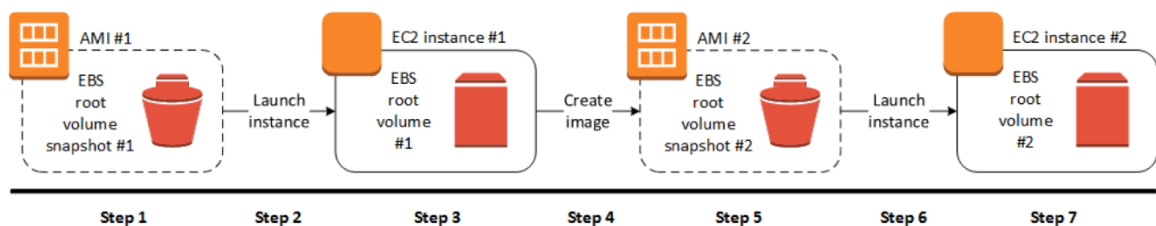
• Creating AMI from instance Stored Backed EC2

- Launch an EC2 instance from an AWS instance- store Backed AMI
- Update the root volume as you require (s/w, patches, app etc...)
- Create the AMI which will upload the AMI as a bundle to S3
- You need to specify the s3 bucket (user bucket) to load the AMI/Bundle.
- Register the AMI (manually) so that AWS EC2 can find it to launch further EC2 instances.
- Since your new AMI is stored in an AWS S3 bucket, S3 charges apply until you deregister the AMI and delete the S3 stored objects.
- Stop the instances to ensure data consistency and integrity then create the AMI.
- AWS registers the created AMI's automatically
- During the AMI creation process, AWS creates snapshot of your instances root volume and any other EBS volume attached to your instances.
- In EBS case NO need to specify one of your S3 Buckets.

• Instance -store Backed AMI



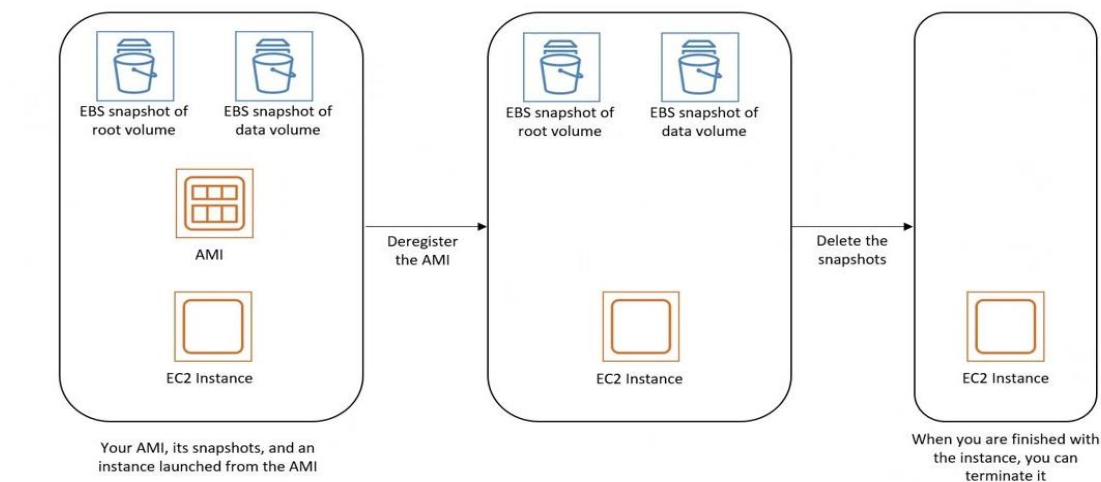
• EBS Backed AMI



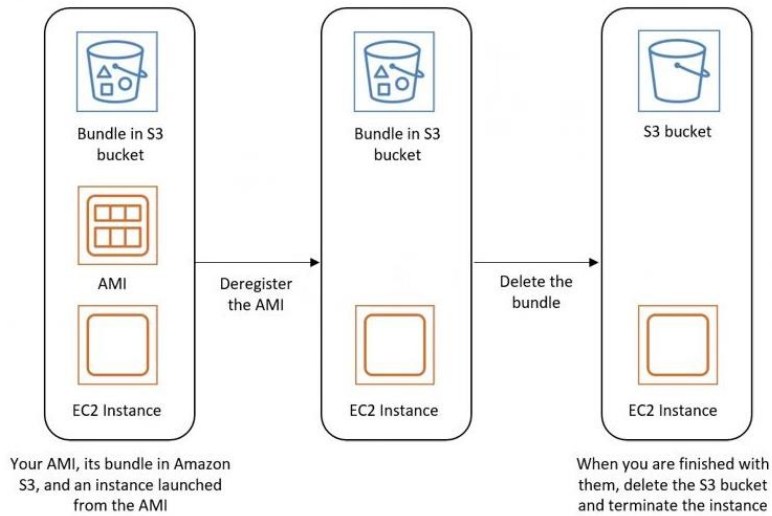
• De-registering AMI

- When you do not need an AMI, you can de-register it.
- De-registered AMI's cannot be used to launch further instances (AWS EC2 will not find it)
- De-registering an AMI will not impact those instances created from AMI while it was registered.

• Cleaning Up Your Amazon EBS – Backed AMI



Cleaning Up Your Instance Store-Backed AMI



• Deleting AMI's

- De-register AMI
- Delete the bundle in amazon S3 (if instance store backed EC2 instance)
- Select the snapshot – look for snapshot ID in the description column (EBS Backed EC2 instances)