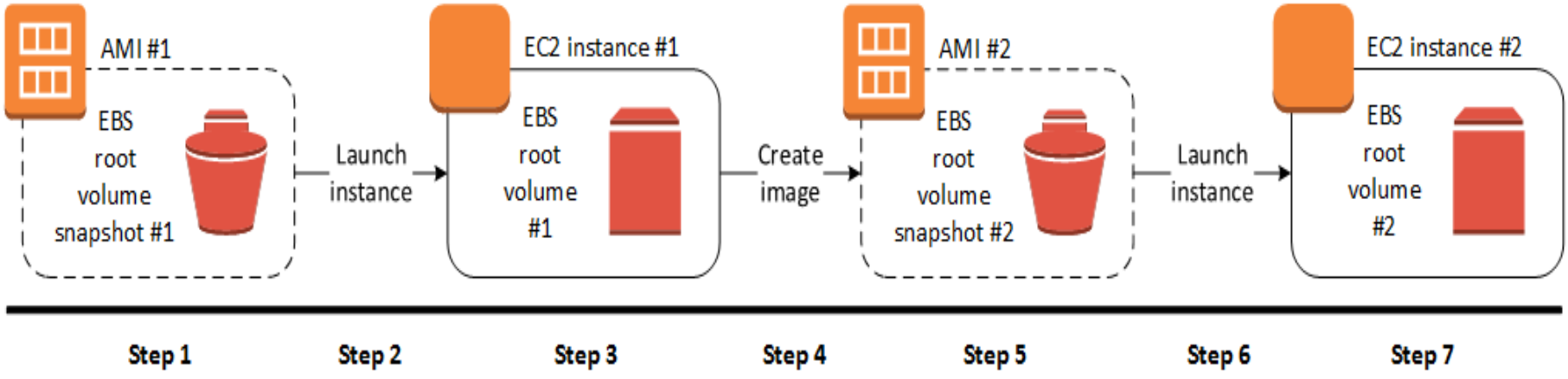
Creating your own AMI

You can launch an instance from an existing AMI, customize the instance, and then save this updated configuration as a custom AMI. Instances launched from this new custom AMI include the customizations that you made when you created the AMI.

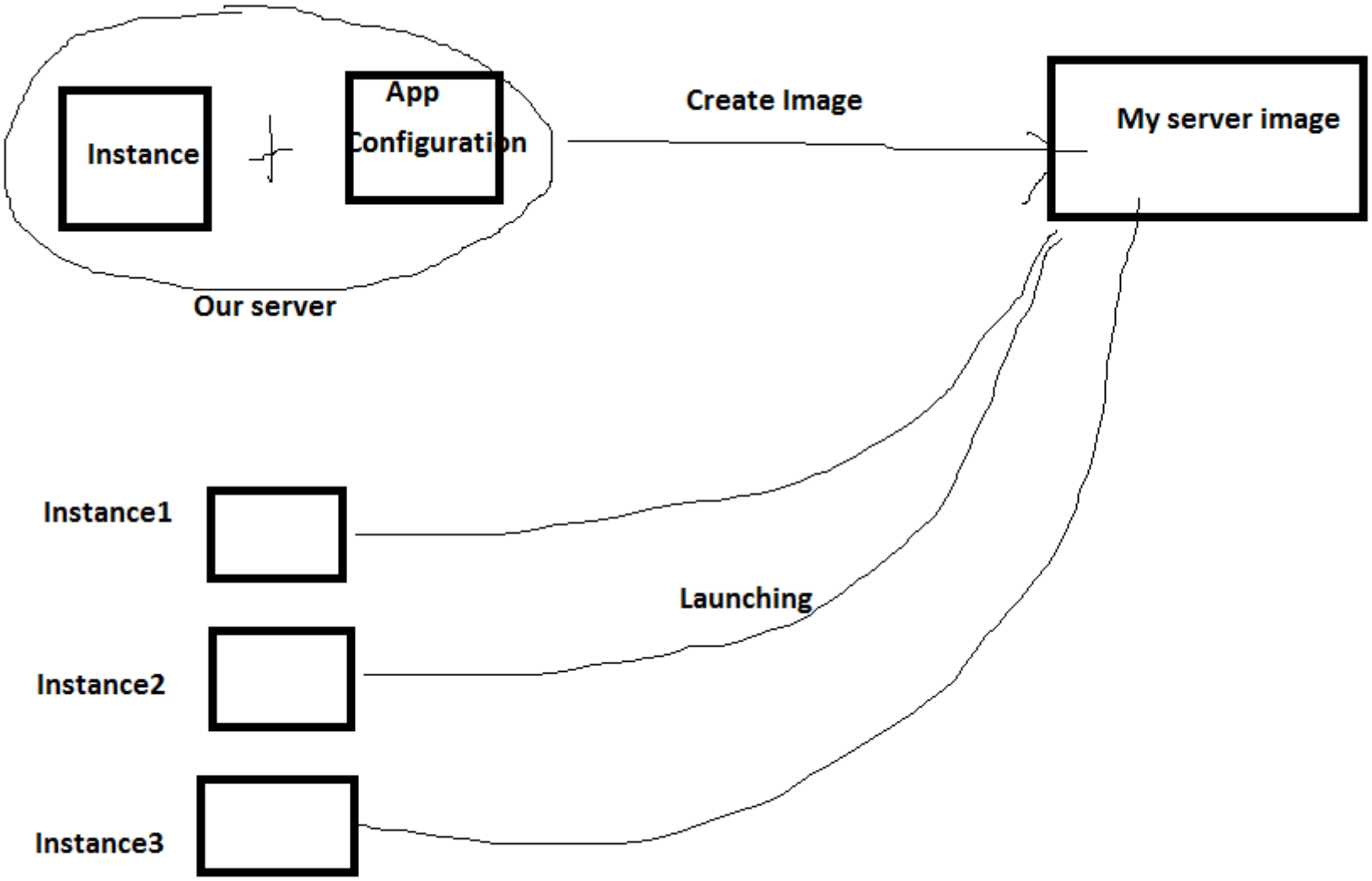


Overview of creating an AMI

- First, launch an instance from an AMI that's similar to the AMI that you'd like to create. You can connect to your instance and customize it. When the instance is set up the way you want it, ensure data integrity by stopping the instance before you create an AMI and then create the image. We automatically register the AMI for you.

- During the AMI-creation process, Amazon EC2 creates snapshots of your instance's root volume and any other EBS volumes attached to your instance. You're charged for the snapshots until you deregister the AMI and delete the snapshots.

- Depending on the size of the volumes, it can take several minutes for the AMI-creation process to complete

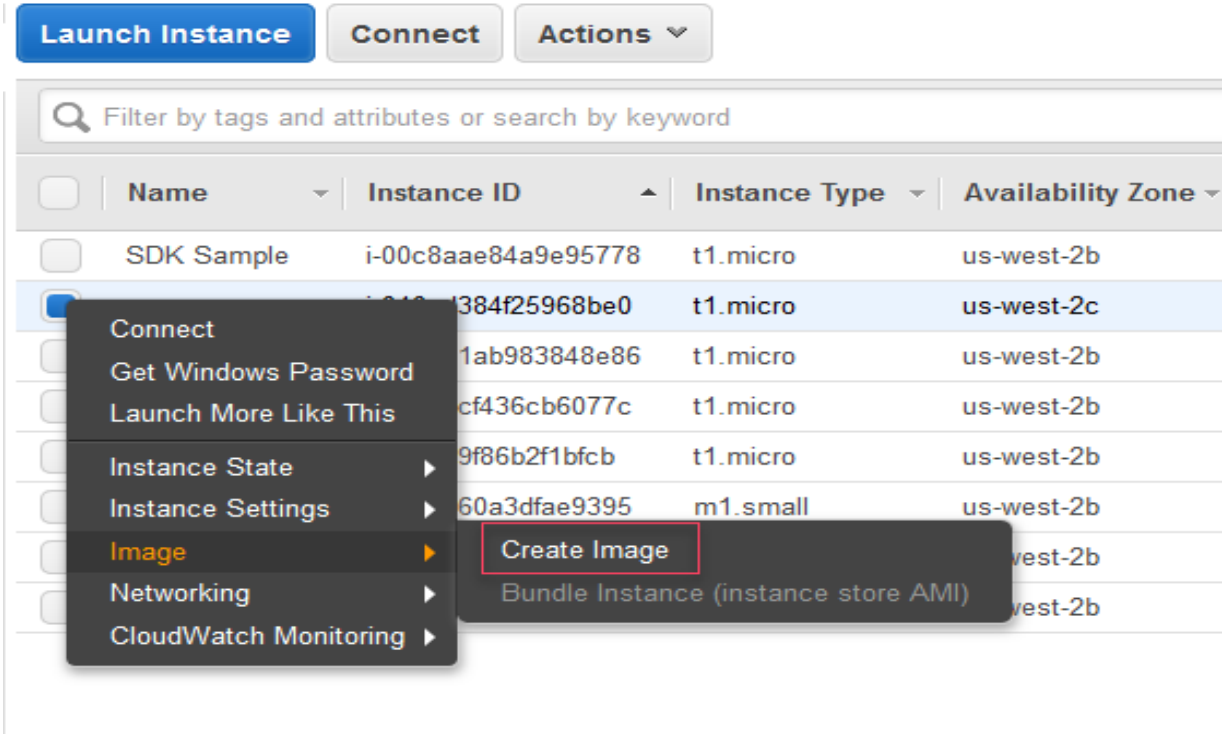

Instance
App
Configuration
Our server
Create Image
My server image
Instance1
Launching
Instance2
Instance3

Steps to create a customize AMI

1) Launch an AMI

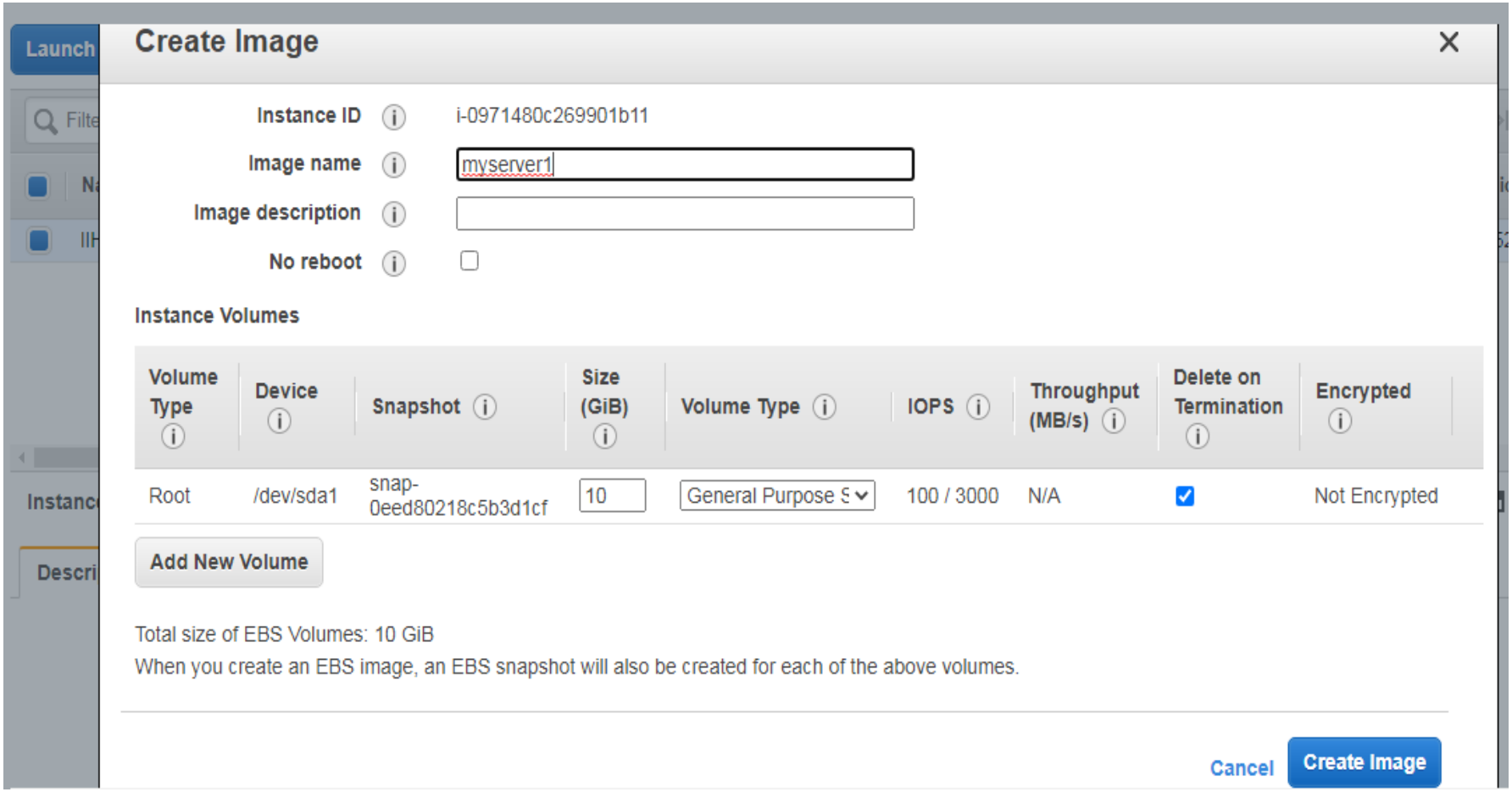
2) Configure your application

3)Instance – Action – image –Create Image



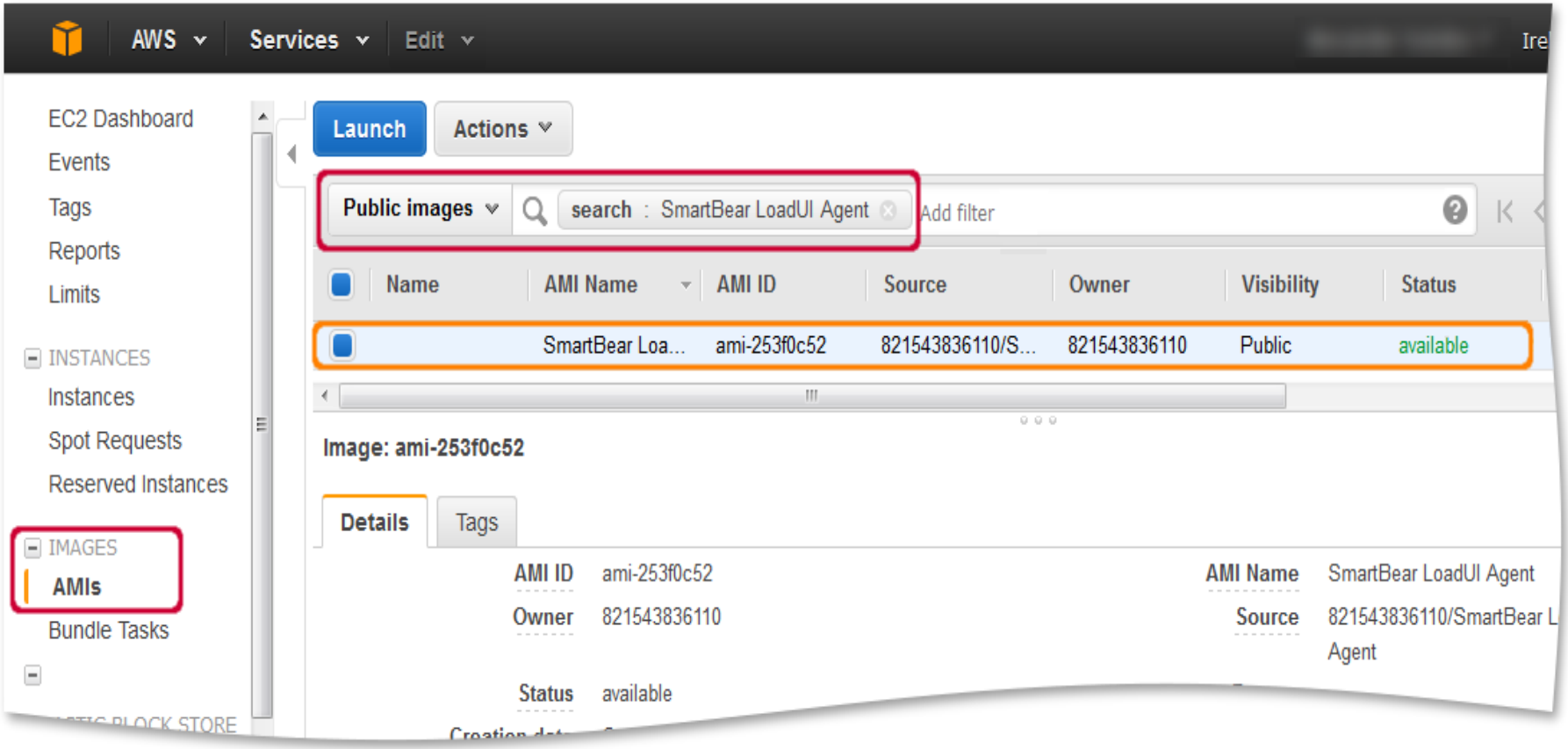
Steps to create a customize AMI

Give image name: mywebserver1



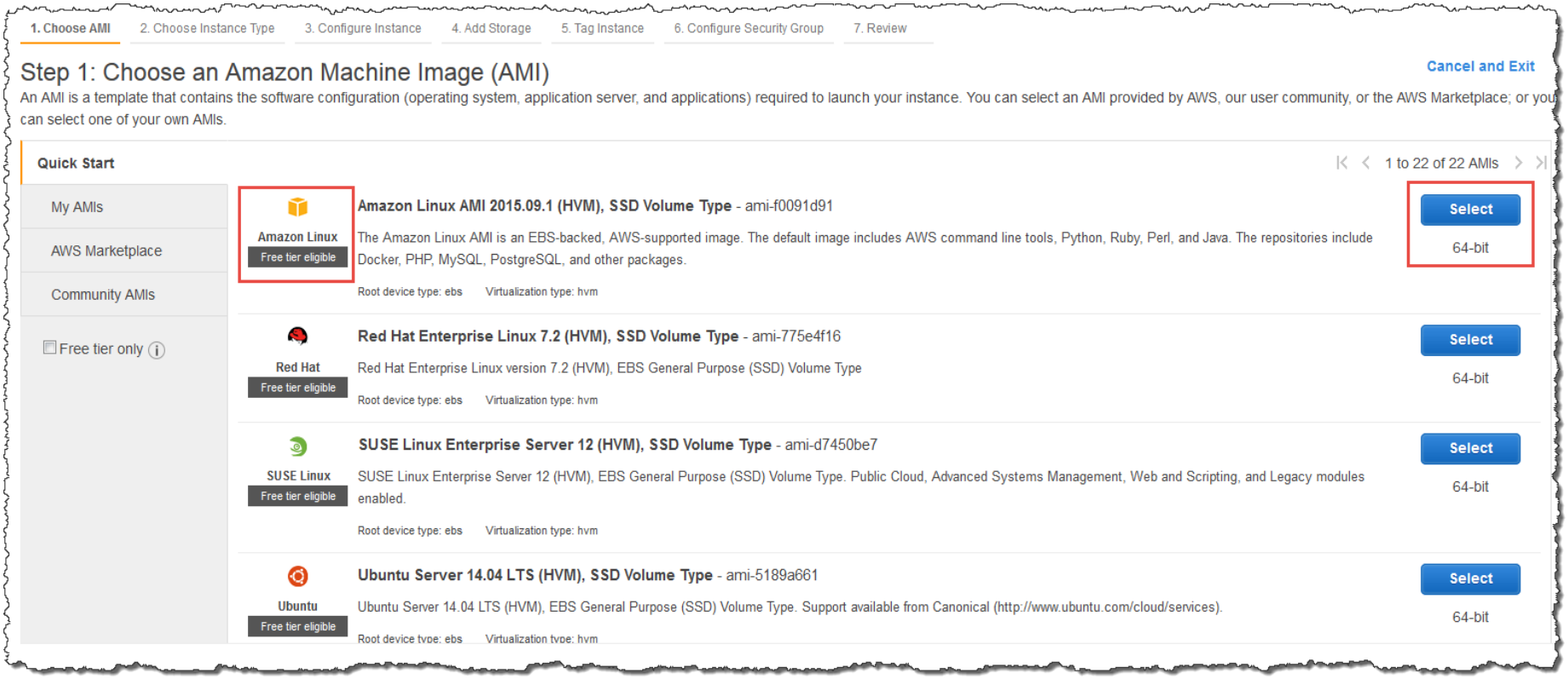
How to check

EC2 – Images --AMI



Launch New Instance from Customised AMI

EC2---Instance –Launch Instance –My AMI –select your customised server image – Follow normal steps to launch it—After launching connect the instance and check your application



Step 1: Choose an Amazon Machine Image (AMI)

Cancel and E

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. You can select an AMI provided by AWS, our user com
or the AWS Marketplace; or you can select one of your own AMIs.

Search for an AMI by entering a search term e.g. "Windows"

Search by Systems Manager parar

- Quick Start
- **My AMIs**
- AWS Marketplace
- Community AMIs

1 to 1 of 1 AMIs

myserver1 - ami-02df13f39c1e5036d

Select

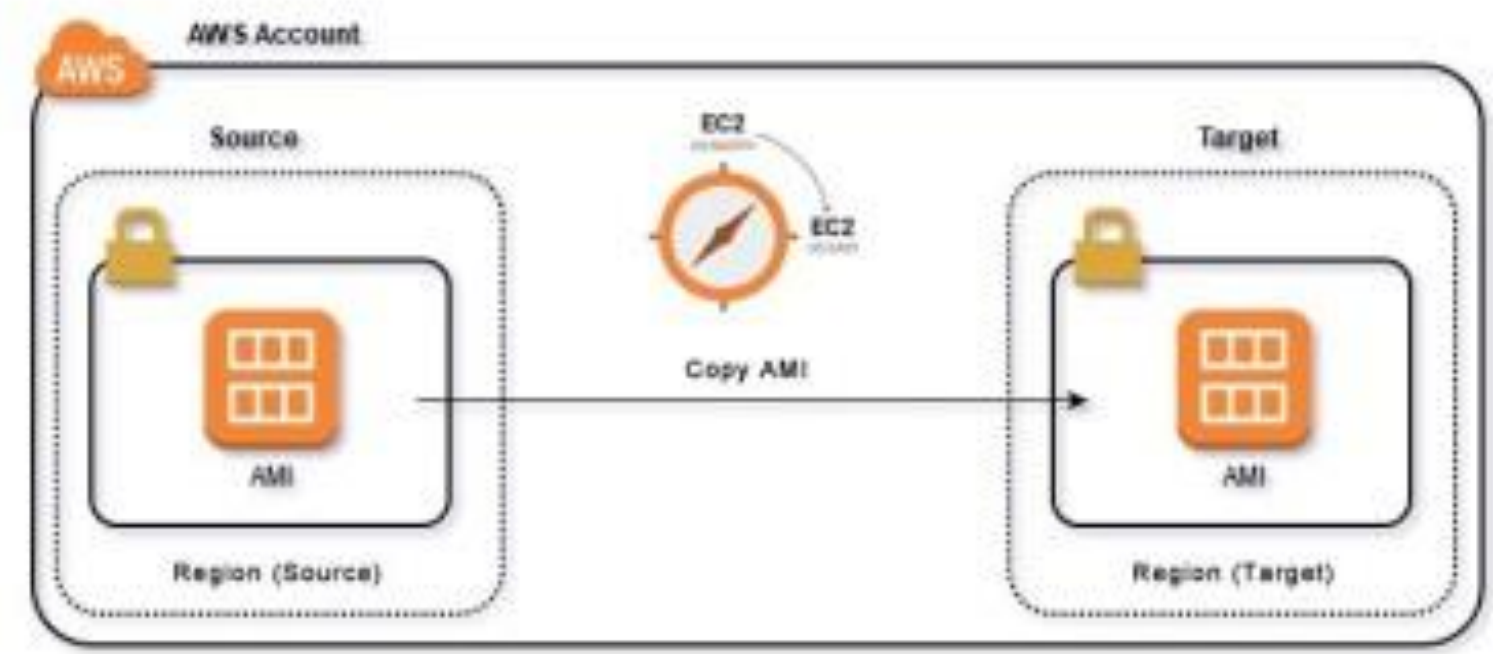
Root device type: ebs Virtualization type: hvm Owner: 904917277585 ENA Enabled: Yes

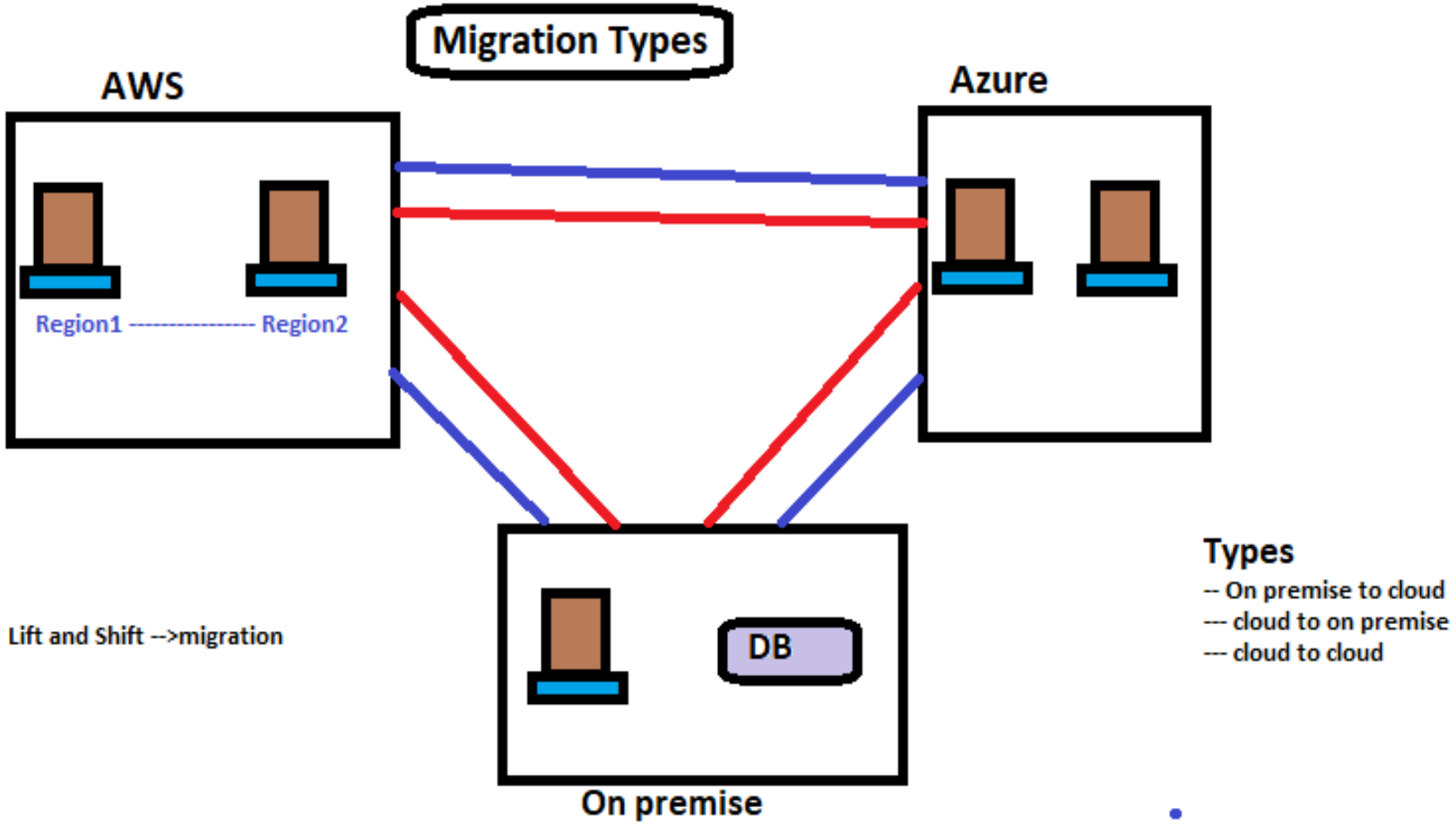
64-bit (x86)

Ownership

- [x] Owned by me
- [ ] Shared with me

Migrating Instance




Migration Types
AWS
Azure
Region1 ---------- Region2
DB
On premise
Lift and Shift -->migration
Types
-- On premise to cloud
--- cloud to on premise
--- cloud to cloud

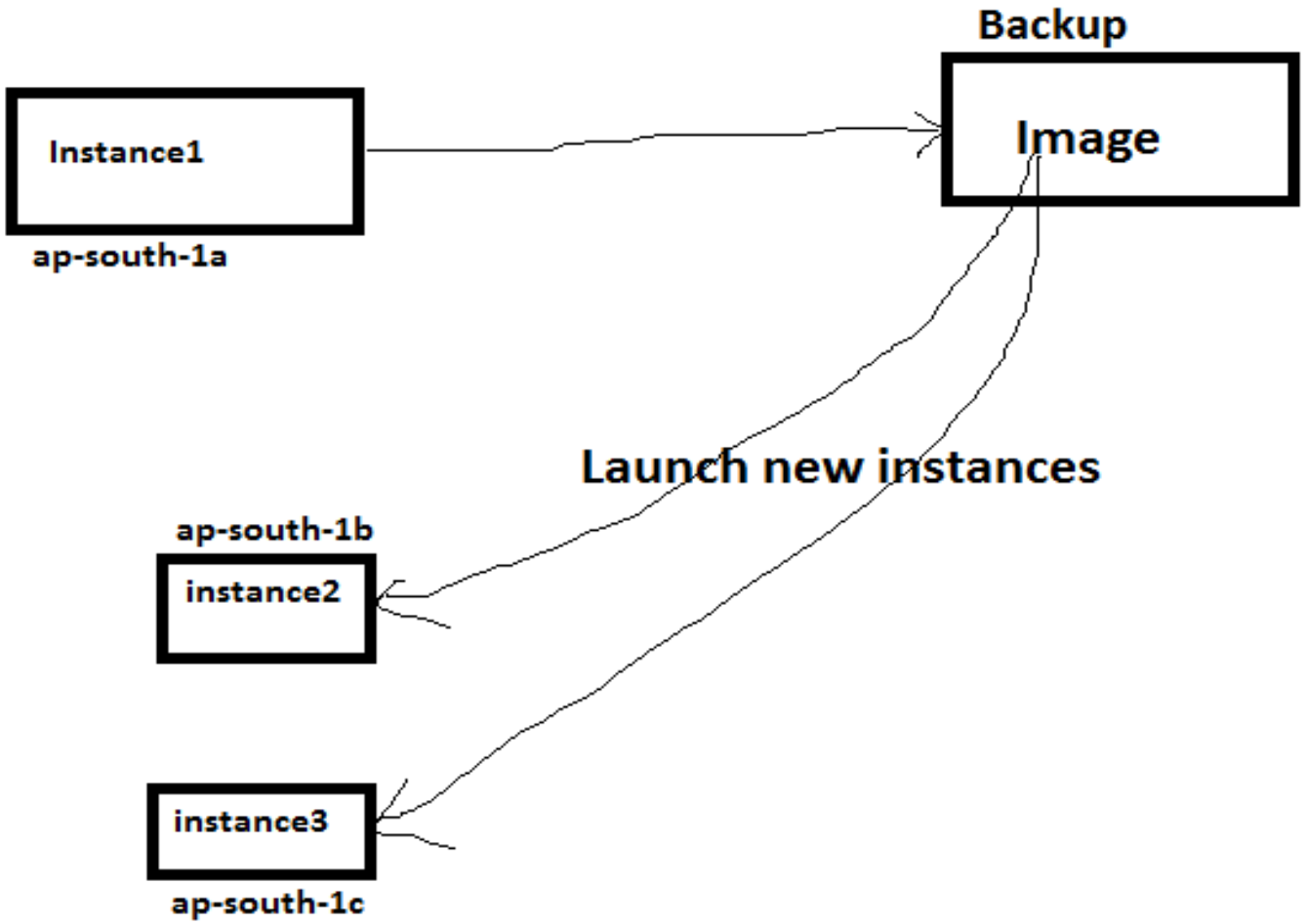
Migrating Instance Lab

1) Backup and restore or Instance migration one subnet to other

2) Instance migration one account(Dev) to other(Prod)

3) Instance migration one region to other

Lab: Backup and Restore, Create multiple Identical Instances, Migrate instance from subnet1 to subnet2



1) Migrating Instance one subnet to another

a) Launch Instance in ap-south-1a

b) Take image of the instance

c)Crete a new instance from this image and select other subnet(ap-south-1b) –and follow normal installation steps.

2) Migrating Instance one account to other

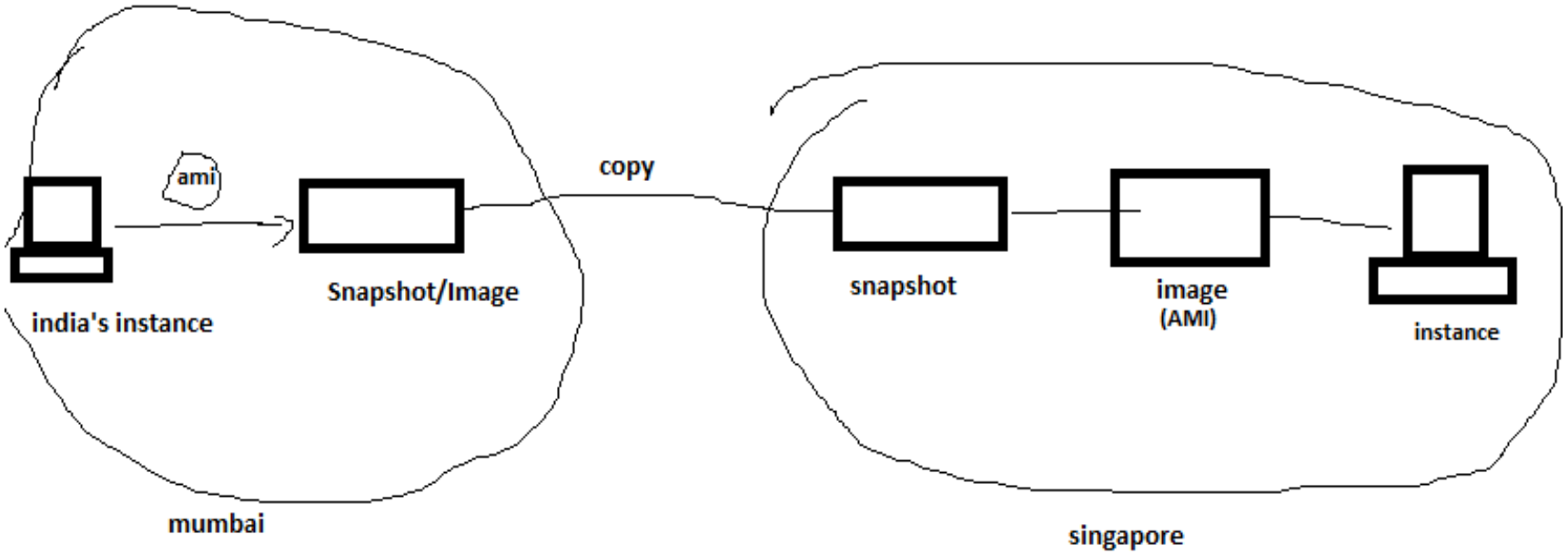
a) Launch Instance in ap-south-1a

b) Take image of the instance

c) Go to AMI –select the AMI image –Action –modify permission– aws account number –type the other account number –add permission—save

d) In other aws account –logon—EC2—AMI – click on owned by me—private images—now we are getting here the shared image –go to action and launched instance

Instance Migration from one region to another



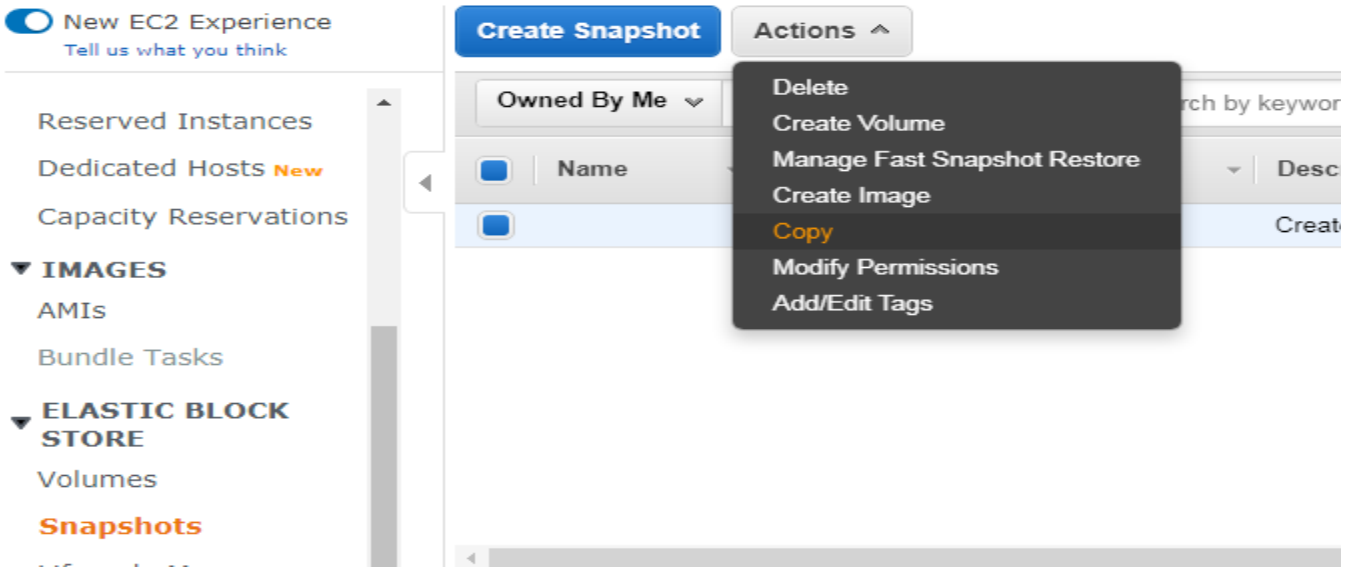
3) Instance migration one region to other

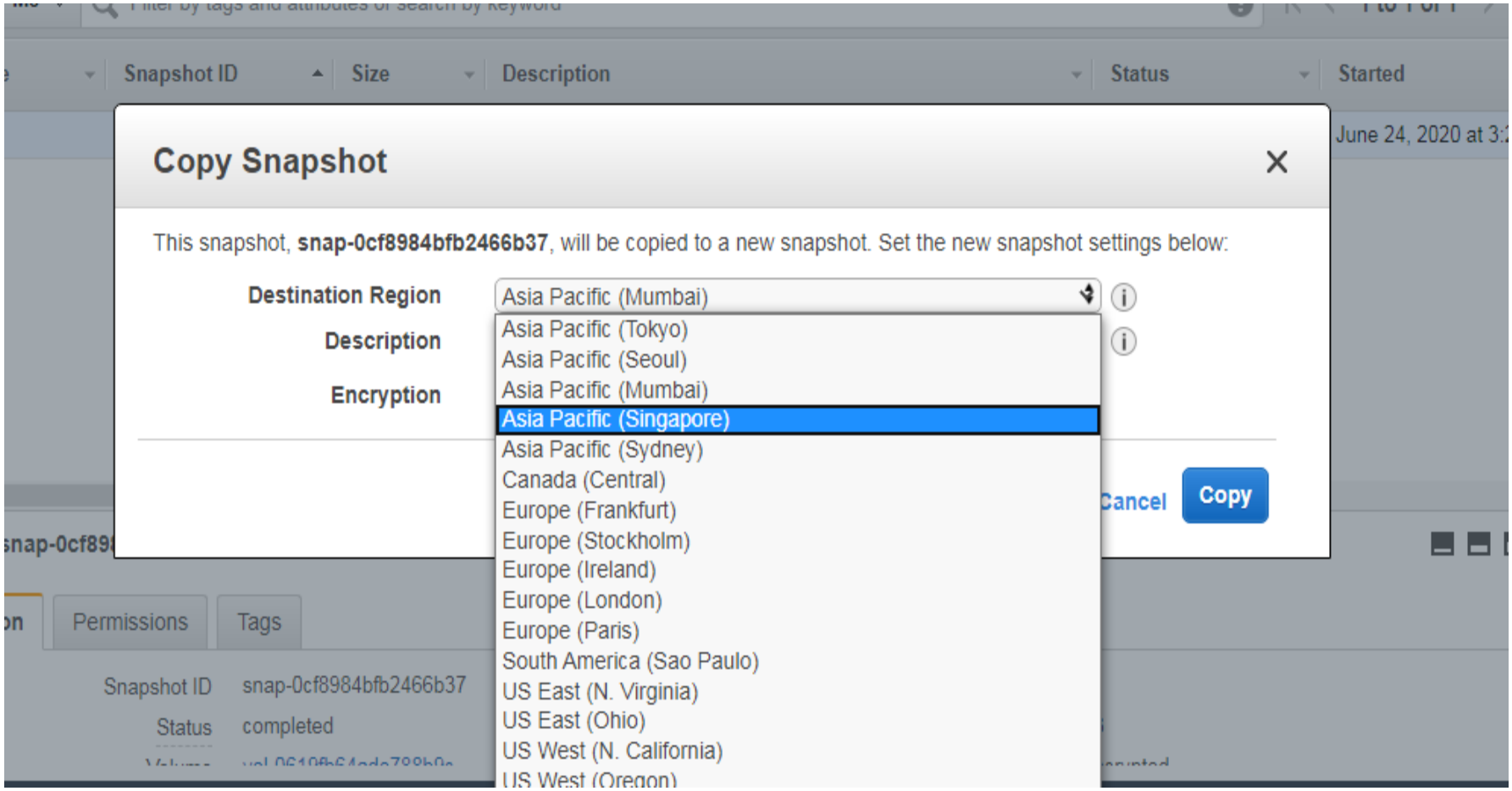
a) Launch Instance in Mumbai region

b) Take image of the instance

c) Go to snapshot –select the snapshot image –Action –copy –select destination region (Singapore) –ok

d) Now go to singapore –wait for mins—select transferred snapshot—action—create image then launch instance from that image




Snapshot ID
Size
Description
Status
Started
June 24, 2020 at 3:
Copy Snapshot
This snapshot, snap-0cf8984bfb2466b37, will be copied to a new snapshot. Set the new snapshot settings below:
Destination Region
Asia Pacific (Mumbai)
Description
Encryption
Asia Pacific (Tokyo)
Asia Pacific (Seoul)
Asia Pacific (Mumbai)
Asia Pacific (Singapore)
Asia Pacific (Sydney)
Canada (Central)
Europe (Frankfurt)
Europe (Stockholm)
Europe (Ireland)
Europe (London)
Europe (Paris)
South America (Sao Paulo)
US East (N. Virginia)
US East (Ohio)
US West (N. California)
US West (Oregon)
Cancel
Copy
Permissions
Tags
Snapshot ID
snap-0cf8984bfb2466b37
Status
completed