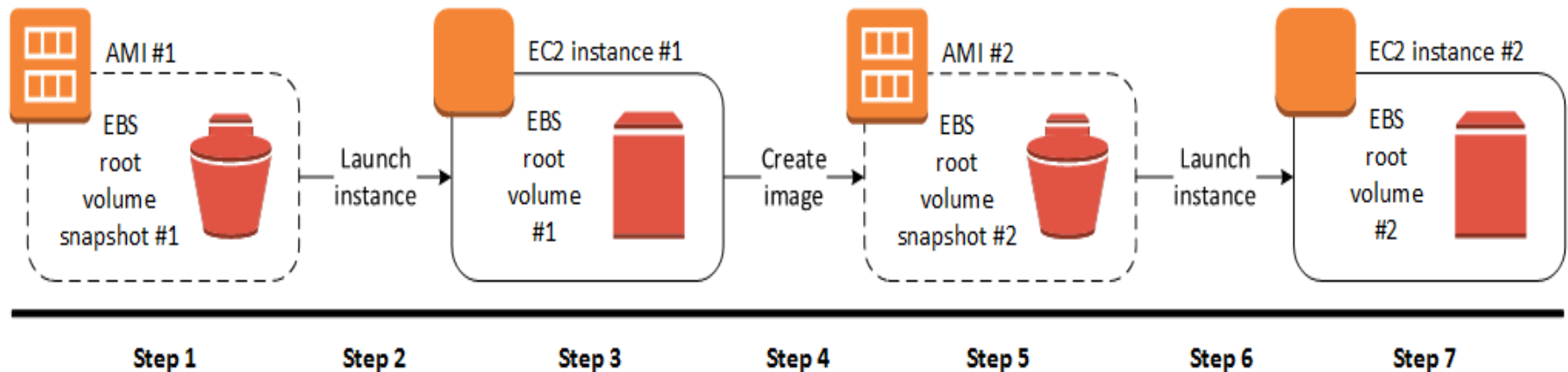


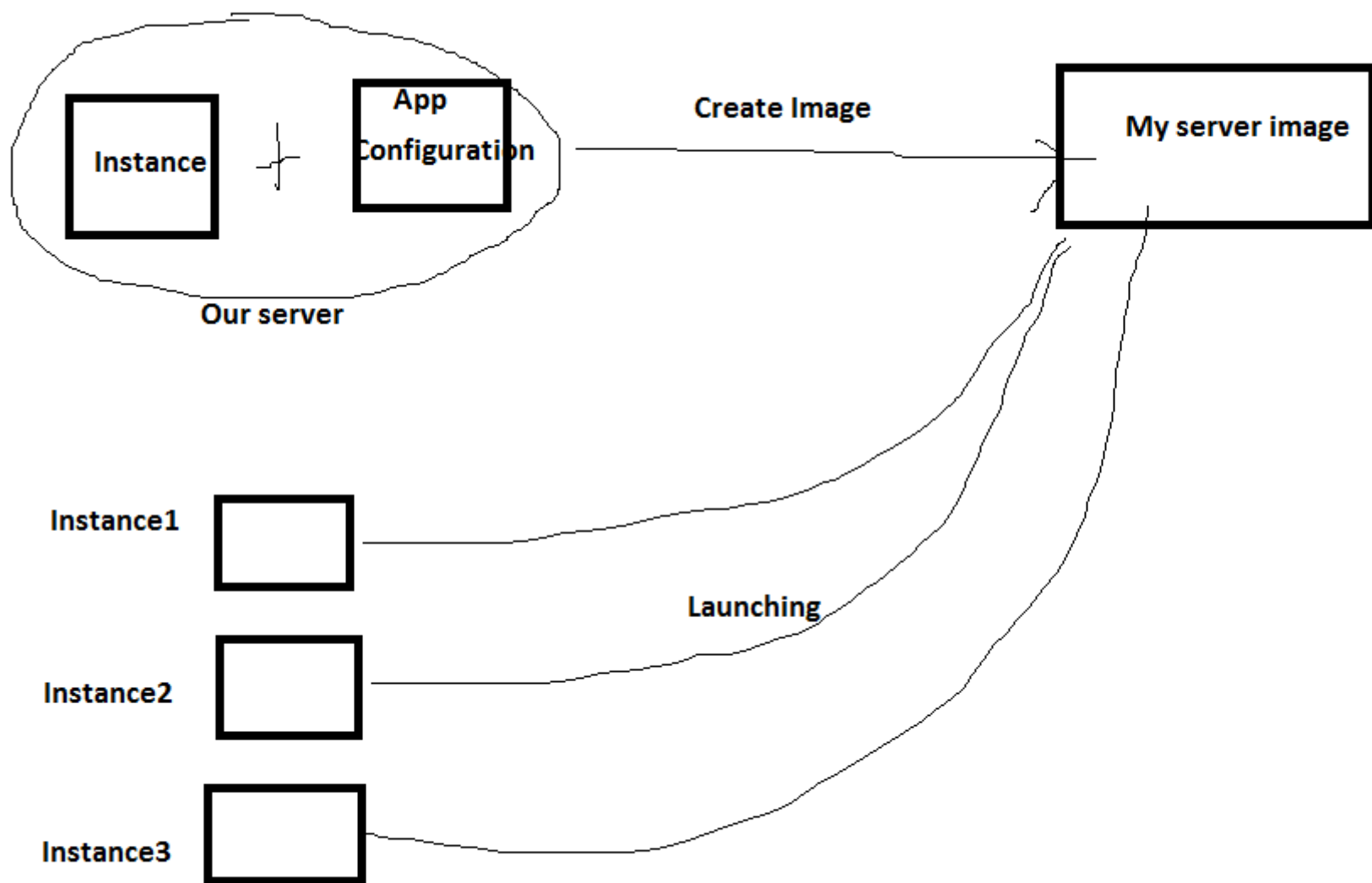
Creating your own AMI

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.



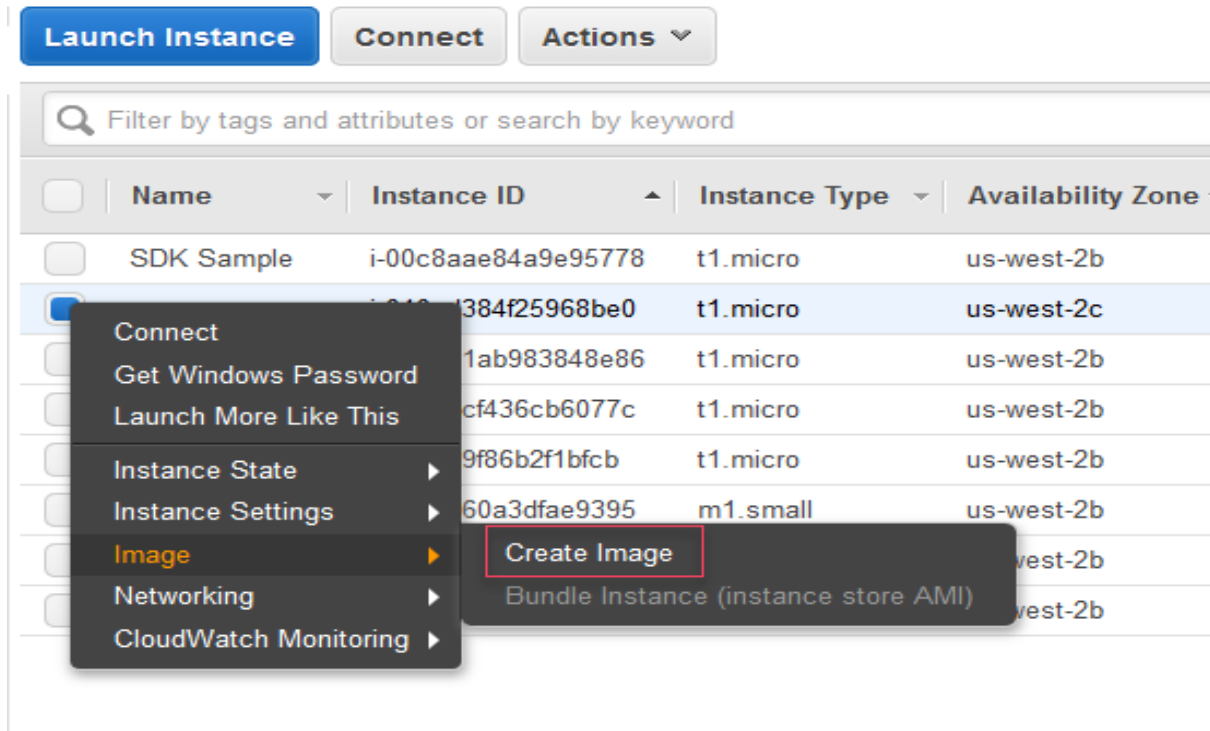
Overview of creating an AMI

- 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



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

Launch

Create Image

Instance ID ⓘ i-0971480c269901b11

Image name ⓘ myserver1

Image description ⓘ

No reboot ⓘ ☐

Instance Volumes

Volume Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Throughput (MB/s) ⓘ	Delete on Termination ⓘ	Encrypted ⓘ
Root	/dev/sda1	snap-0eed80218c5b3d1cf	10	General Purpose S ⓘ	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypted

Add New Volume

Total size of EBS Volumes: 10 GiB
When you create an EBS image, an EBS snapshot will also be created for each of the above volumes.

Cancel Create Image

How to check

EC2 – Images --AMI

The screenshot displays the AWS Management Console interface for the EC2 service. The left-hand navigation pane shows the 'IMAGES' section selected, with 'AMIs' highlighted. The main content area shows the 'Public images' filter applied, and the search results table lists the 'SmartBear LoadUI Agent' AMI. The 'Details' tab is active, showing the AMI's metadata.

Name	AMI Name	AMI ID	Source	Owner	Visibility	Status
SmartBear LoadUI Agent	ami-253f0c52	821543836110/S...	821543836110	Public	available	

Image: ami-253f0c52

Details | Tags

Property	Value
AMI ID	ami-253f0c52
Owner	821543836110
Status	available

AMI Name SmartBear LoadUI Agent
Source 821543836110/SmartBear LoadUI Agent

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

1. Choose AMI2. Choose Instance Type3. Configure Instance4. Add Storage5. Tag Instance6. Configure Security Group7. Review

Step 1: Choose an Amazon Machine Image (AMI)

Cancel and Exit

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 community, or the AWS Marketplace; or you can select one of your own AMIs.


Quick Start

My AMIs


AWS Marketplace

Community AMIs


☐ Free tier only ⓘ

**Amazon Linux**
Free tier eligible


Amazon Linux AMI 2015.09.1 (HVM), SSD Volume Type - ami-f0091d91
The Amazon Linux AMI is an EBS-backed, AWS-supported image. The default image includes AWS command line tools, Python, Ruby, Perl, and Java. The repositories include Docker, PHP, MySQL, PostgreSQL, and other packages.
Root device type: ebs Virtualization type: hvm

**Red Hat**
Free tier eligible

Red Hat Enterprise Linux 7.2 (HVM), SSD Volume Type - ami-775e4f16
Red Hat Enterprise Linux version 7.2 (HVM), EBS General Purpose (SSD) Volume Type
Root device type: ebs Virtualization type: hvm

**SUSE Linux**
Free tier eligible

SUSE Linux Enterprise Server 12 (HVM), SSD Volume Type - ami-d7450be7
SUSE Linux Enterprise Server 12 (HVM), EBS General Purpose (SSD) Volume Type. Public Cloud, Advanced Systems Management, Web and Scripting, and Legacy modules enabled.
Root device type: ebs Virtualization type: hvm

**Ubuntu**
Free tier eligible

Ubuntu Server 14.04 LTS (HVM), SSD Volume Type - ami-5189a661
Ubuntu Server 14.04 LTS (HVM), EBS General Purpose (SSD) Volume Type. Support available from Canonical (<http://www.ubuntu.com/cloud/services>).
Root device type: ebs Virtualization type: hvm

Select64-bit

Select64-bit

Select64-bit

Select64-bit

Cancel and Ex

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

Search by Systems Manager parameter

1 to 1 of 1 AMIs

Select

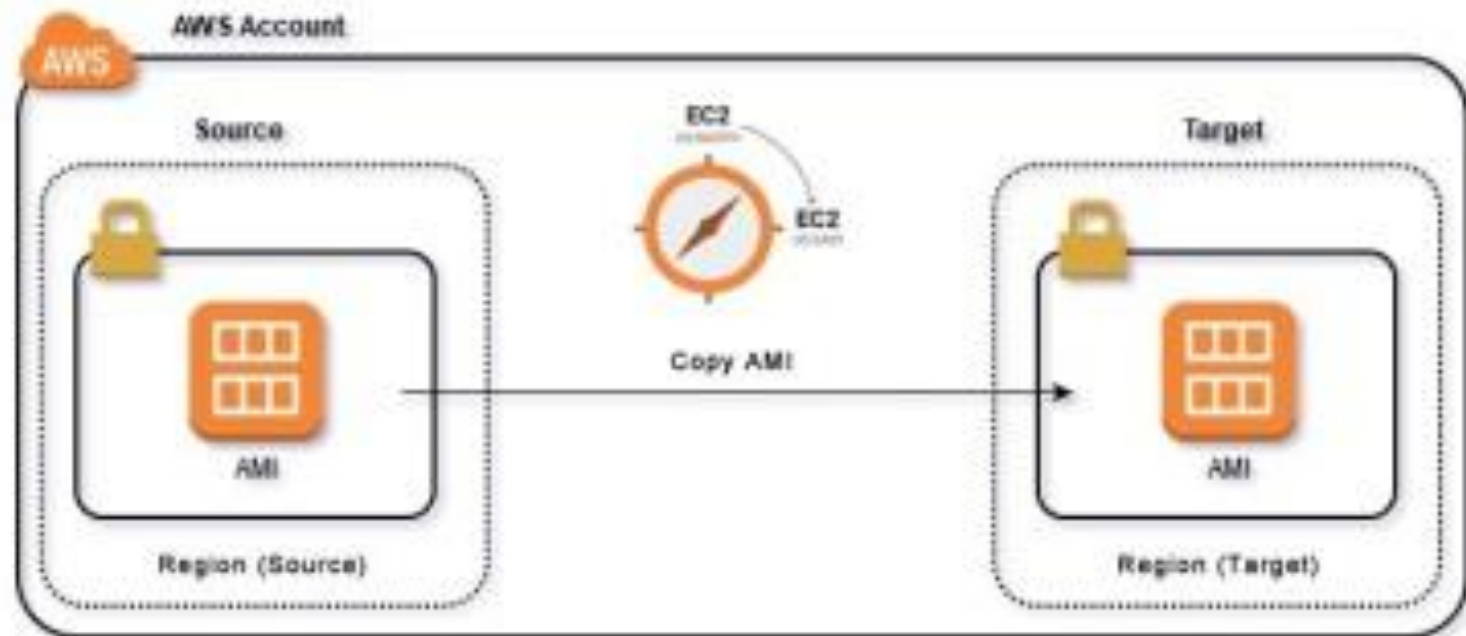
Root device type: ebs Virtualization type: hvm Owner: 904917277585 ENA Enabled: Yes

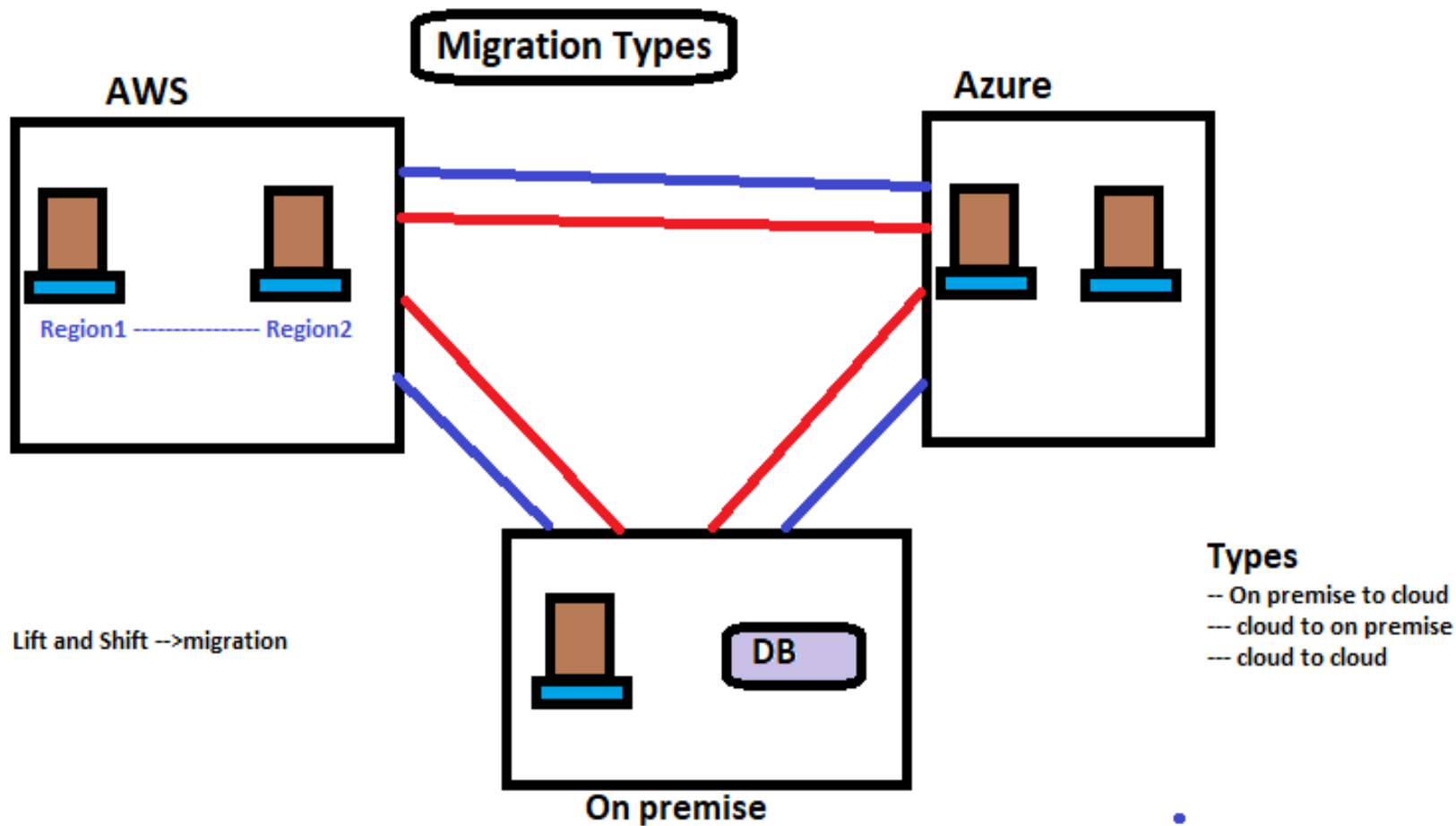
64-bit (x86)

▼ Ownership

☒ Owned by me☐ Shared with me

Migrating Instance

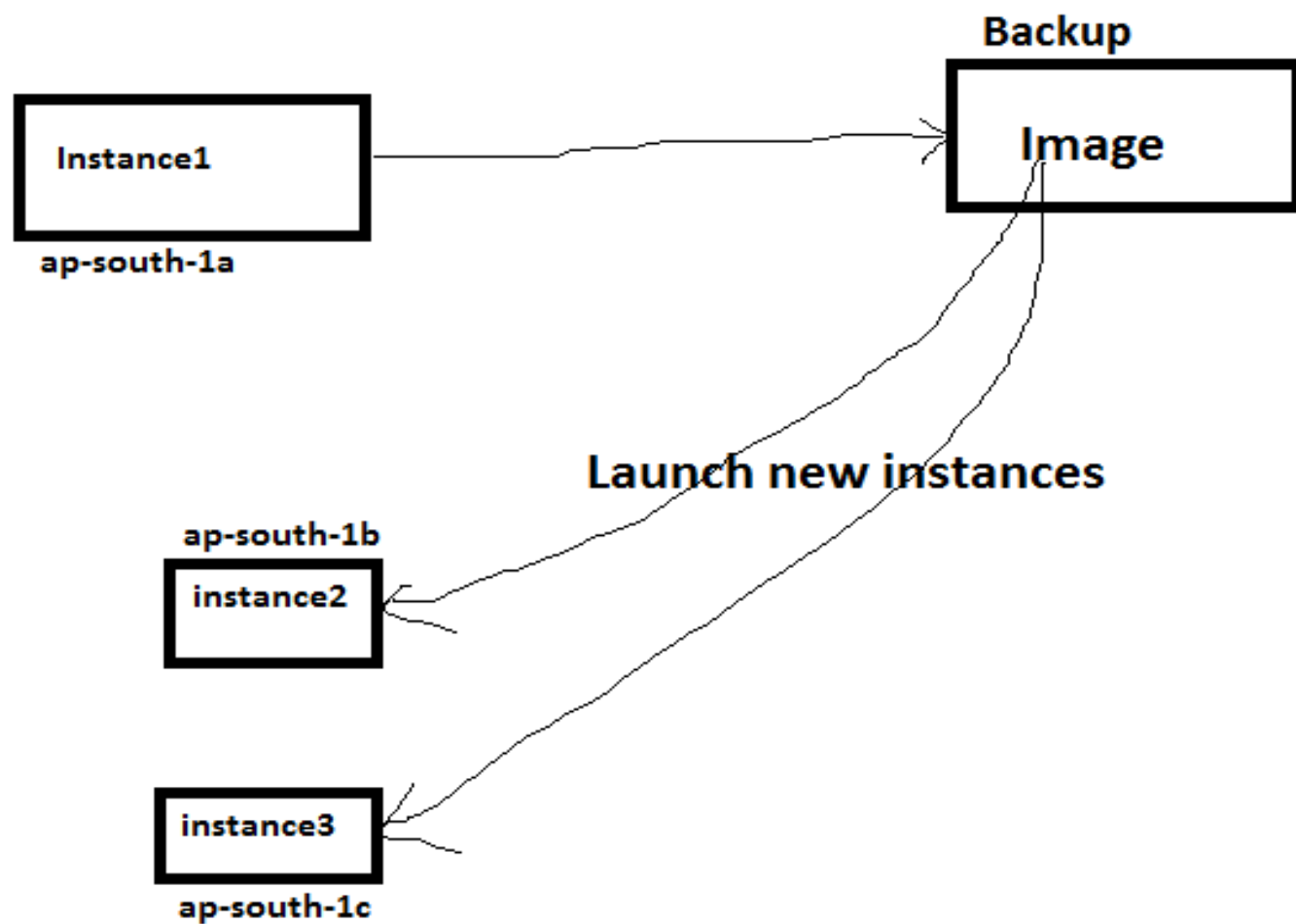




Migrating Instance Lab

- 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



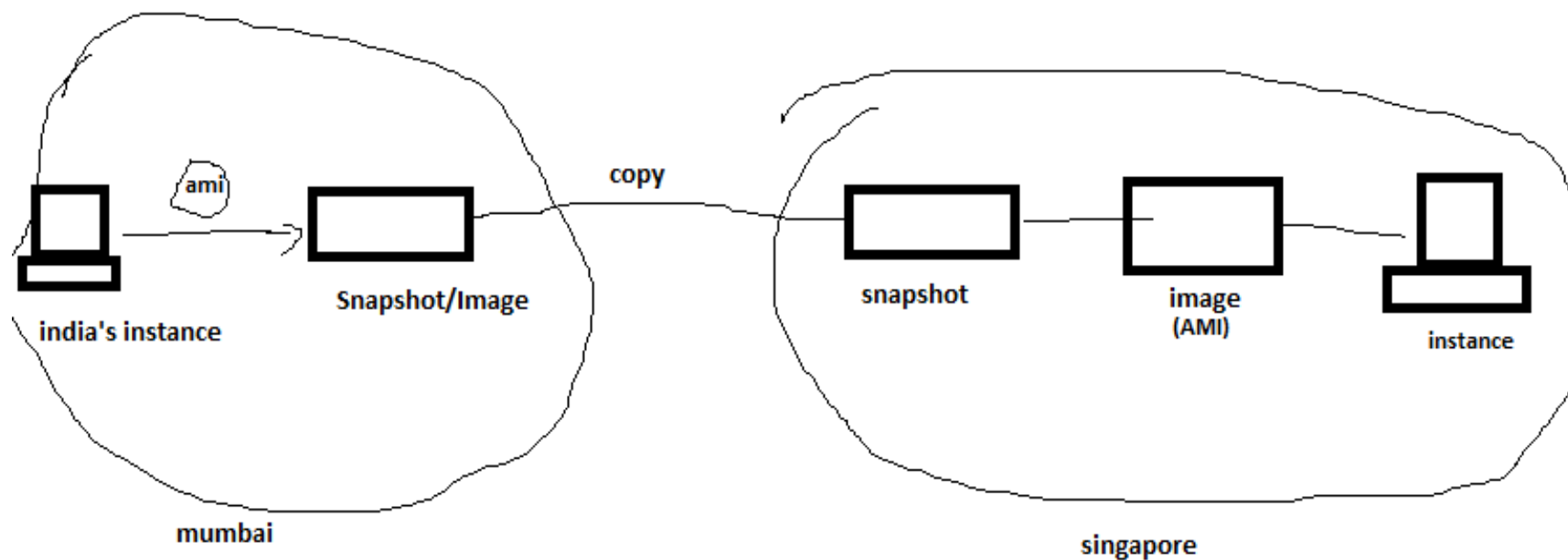
1) Migrating Instance one subnet to another

- a) Launch Instance in ap-south-1a
- b) Take image of the instance
- c) Create 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

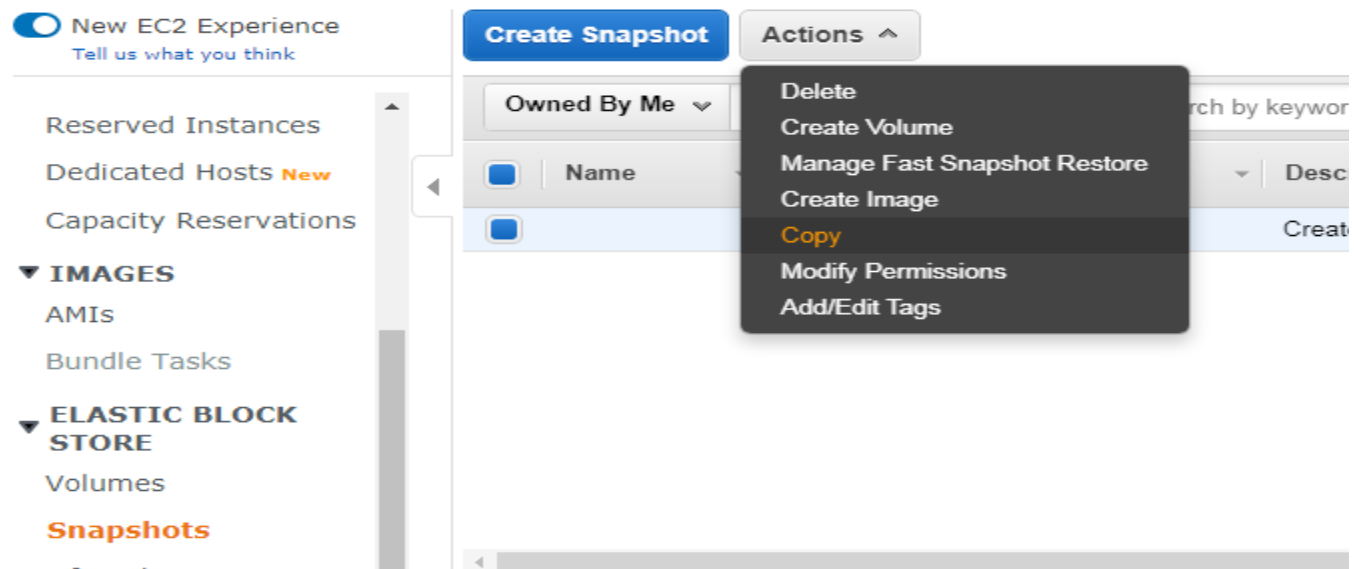
- a) Launch Instance in ap-south-1a
- b) Take image of the instance
- c) Go to AMI –select the AMI image –Action –modify permission–aws account number –type the other account number –add permission—save
- d) In other aws account –logon—EC2—AMI – click on owned by me—private images—now we are getting 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



Copy Snapshot

This snapshot, **snap-0cf8984bfb2466b37**, will be copied to a new snapshot. Set the new snapshot settings below:

Destination Region

Description

Encryption

Asia Pacific (Mumbai)

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

Snapshot ID snap-0cf8984bfb2466b37

Status completed

Volume vol-0c10bf64ada799b0a