

# CASE STUDY- MODULE 1

## 1. Create an instance linux.

Name

EC-2

Add additional tags

▼ Application and OS Images (Amazon Machine Image) Info

An AMI is a template that contains the software configuration (operating system, application server, and applications) required to launch your instance. Search or Browse for AMIs if you don't see what you are looking for below

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RecentsQuick Start

Amazon Linux

macOS

Ubuntu

Windows

Red Ha

Browse more AMIs

Including AMIs from AWS, Marketplace and the Community

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more

ami-0b0dcb5067f052a63

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

CancelLaunch instance

➔ Created Amazon Linux instance and

Amazon Linux

Mac

ubuntu

Microsoft

Red H

Including AMIs from AWS, Marketplace and the Community

Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type

Free tier eligible

ami-0b0dcb5067f052a63 (64-bit (x86)) / ami-01b5ec3ed8678d8b7 (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Description

Amazon Linux 2 Kernel 5.10 AMI 2.0.20221103.3 x86\_64 HVM gp2

Architecture

AMI ID

64-bit (x86)

ami-0b0dcb5067f052a63

Verified provider

▼ Instance type Info

Instance type

t2.micro

▼ Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more

ami-0b0dcb5067f052a63

Virtual server type (instance type)

t2.micro

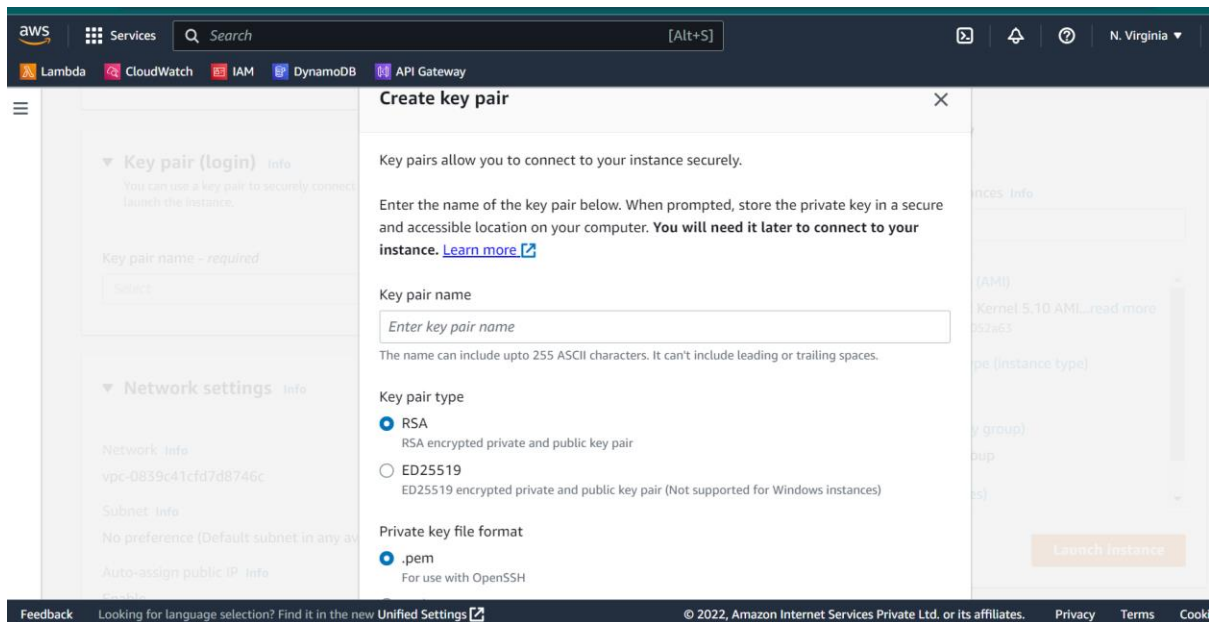
Firewall (security group)

New security group

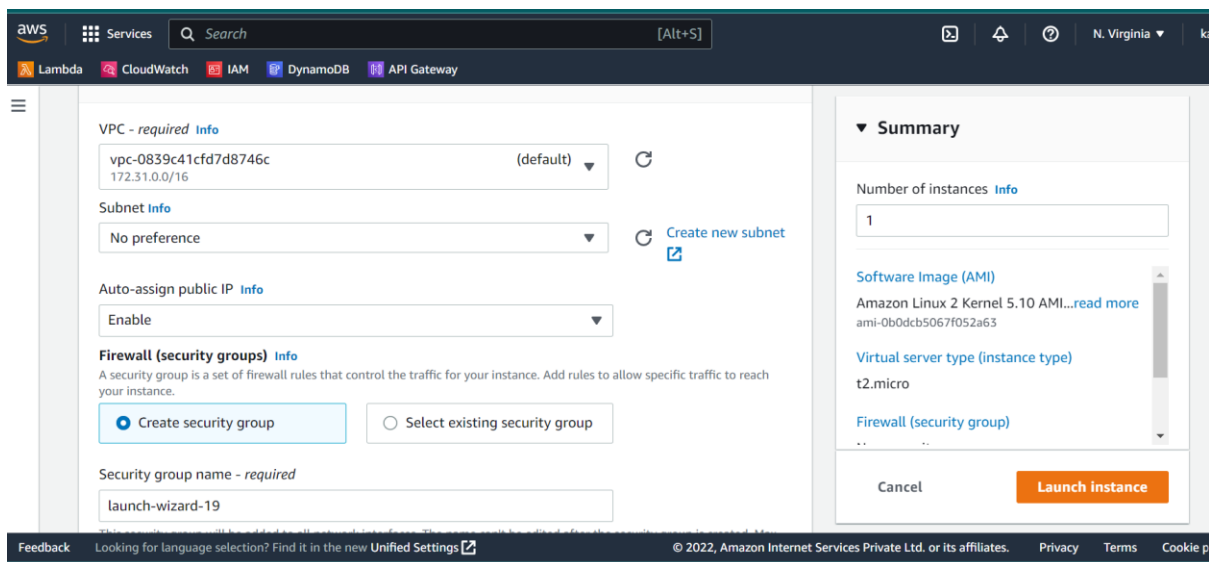
Storage (volumes)

CancelLaunch instance

➔ Selected t2.micro server type /instance type



➔ Created key pair-value which allows the instance to connect securely and there are 2 types of Key pair 1. RSA and 2.ED25519 .



➔ The instance get into the default VPC and security group control traffic for the instance .

## 2. Creating the AMI to Oregon region

aws Services Search [Alt+S] N. Virginia

Lambda CloudWatch IAM DynamoDB API Gateway

Instance ID  
i-0f6acf30e29293dd5 (ec-2)

Image name  
ec2-replica  
Maximum 127 characters. Can't be modified after creation.

Image description - optional  
Image description  
Maximum 255 characters

No reboot  
☐ Enable

Instance volumes

Volume type	Device	Snapshot	Size	Volume type	IOPS	Throughput	Delete on termination
EBS	/dev/...	Create new snapshot fr...	8	EBS General Purpose S...	100		<input checked="" type="checkbox"/> Enable

➔ Name of instance is ec2-replica and volume type is EBS which is by default available .

aws Services Search [Alt+S] N. Virginia

Lambda CloudWatch IAM DynamoDB API Gateway

## Copy AMI Info

Create a copy of an Amazon Machine Image in a Region.

**Copy Amazon Machine Image (AMI)**

Original AMI ID  
ami-09a2477bd909a5cf0

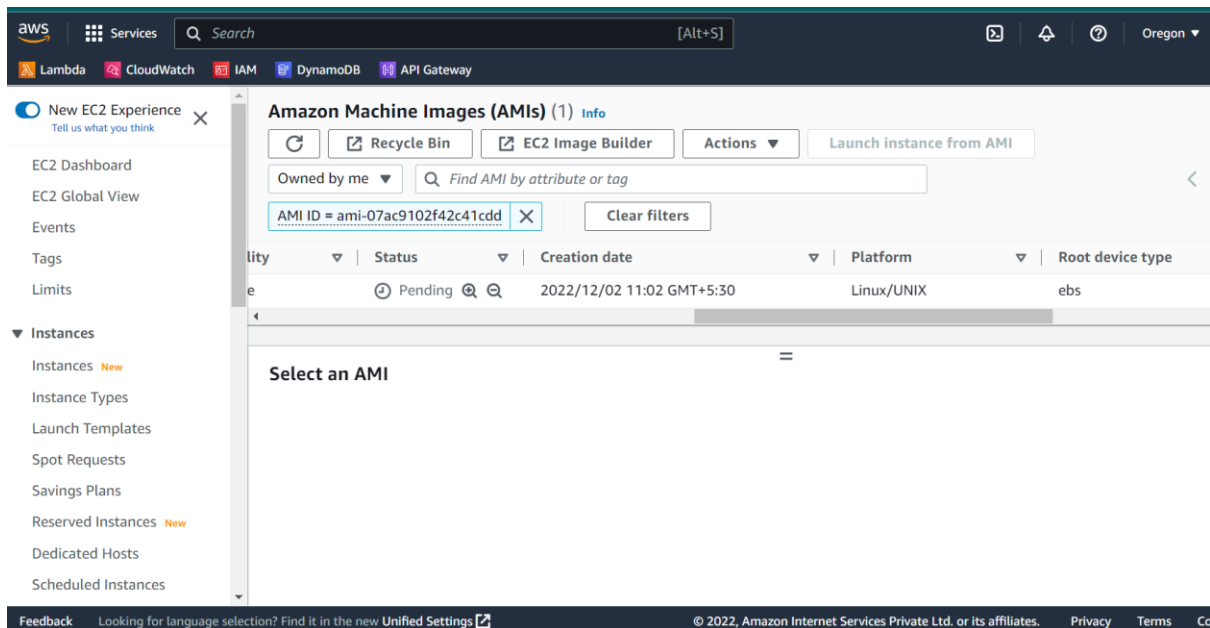
AMI copy name  
my-ec2-Replica

AMI copy description  
[Copied ami-09a2477bd909a5cf0 from us-east-1] my-ec2-Replica

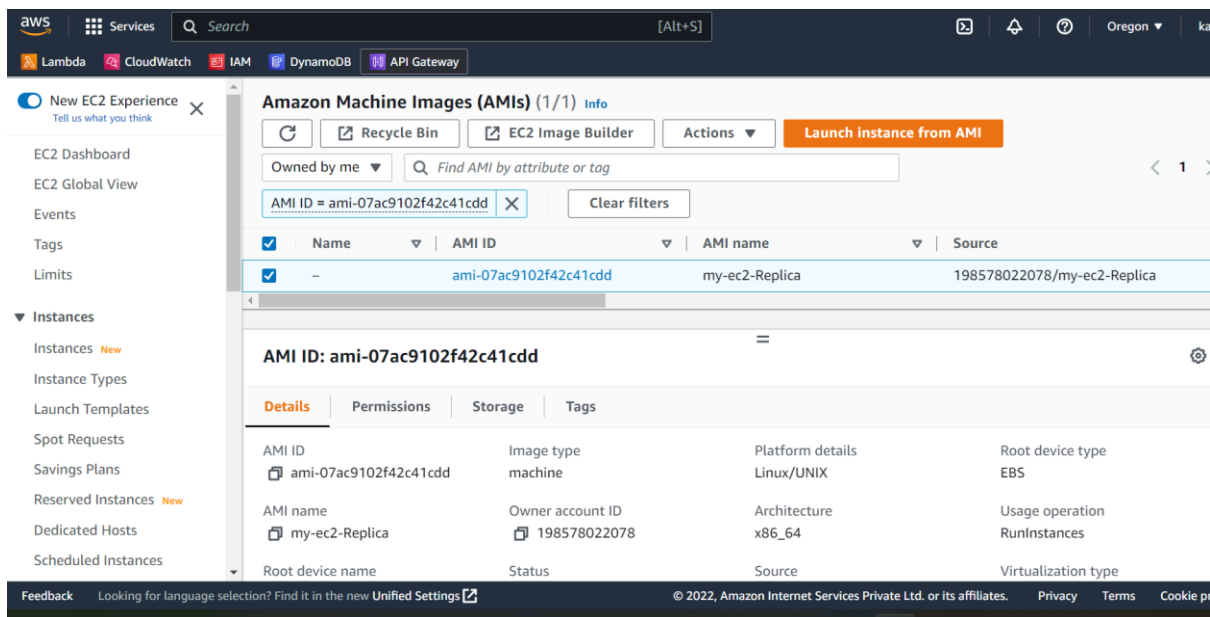
Destination Region  
A copy of the original AMI will be created in the destination Region.  
US West (Oregon)

☐ Copy tags  
Includes the AMI tags when copying the AMI.

➔ Copying the image and changing the destination region to orgon .



➔ AMI created in Oregon region



➔ Now launched the instance in the same region .

### 3. Creating the EBS Volume

aws Services ebs

Lambda CloudWatch IAM DynamoDB API Gateway

New EC2 Experience Tell us what you think

EC2 Dashboard  
EC2 Global View  
Events  
Tags  
Limits

Instances  
Instances **New**  
Instance Types  
Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances **New**  
Dedicated Hosts  
Scheduled Instances

Successfully created volume **vol-0ed749ba59646fc13**.

Volumes (2/3)

Search

	Name	Volume ID	Type	Size	IOPS	Throughput	Snapshot
<input type="checkbox"/>	-	vol-0de5c5f91d27a00b4	gp2	8 GiB	100	-	snap-0cc1
<input checked="" type="checkbox"/>	volume-1	vol-0c9b4751814627b6b	gp2	100 GiB	300	-	-
<input checked="" type="checkbox"/>	volume-2	vol-0ed749ba59646fc13	gp2	20 GiB	100	-	-

Volume IDs: vol-0ed749ba59646fc13 (volume-2), vol-0c9b4751814627b6b (volume-1)

Monitoring

The following metrics are provided by Amazon CloudWatch. The graphs have transformations applied to them and might differ from what is natively available in Amazon CloudWatch.

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➔ Created 2 EBS volume and attaching to the instance .

aws Services ebs

Lambda CloudWatch IAM DynamoDB API Gateway

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Launch Templates  
Spot Requests  
Savings Plans  
Reserved Instances **New**  
Dedicated Hosts  
Scheduled Instances

Successfully created volume **vol-0ed749ba59646fc13**.

Volumes (1/3)

Search

	Name	Volume ID	Type	Size	IOPS
<input checked="" type="checkbox"/>	volume-1	vol-0c9b4751814627b6b	gp2	100 GiB	300
<input type="checkbox"/>	volume-2	vol-0ed749ba59646fc13	gp2	20 GiB	100

Volume ID: vol-0c9b4751814627b6b (volume-1)

Details Status checks Monitoring Tags

Details

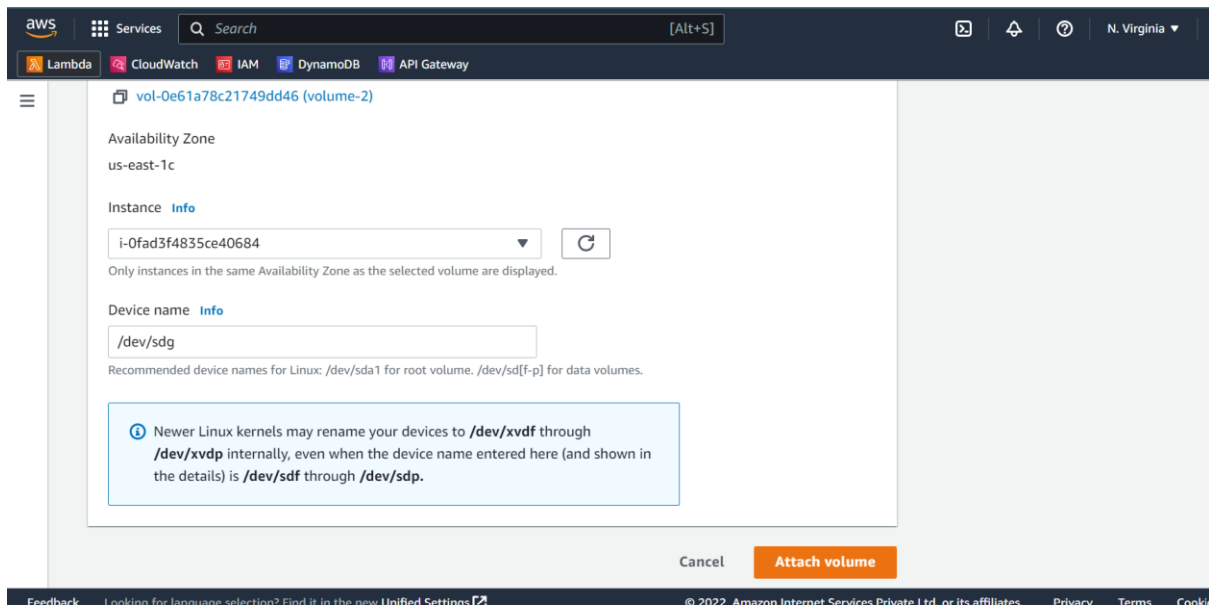
Volume ID Size Type Volume status

Actions

- Modify volume
- Create snapshot
- Create snapshot lifecycle policy
- Delete volume
- Attach volume
- Detach volume
- Force detach volume
- Manage auto-enabled I/O
- Manage tags

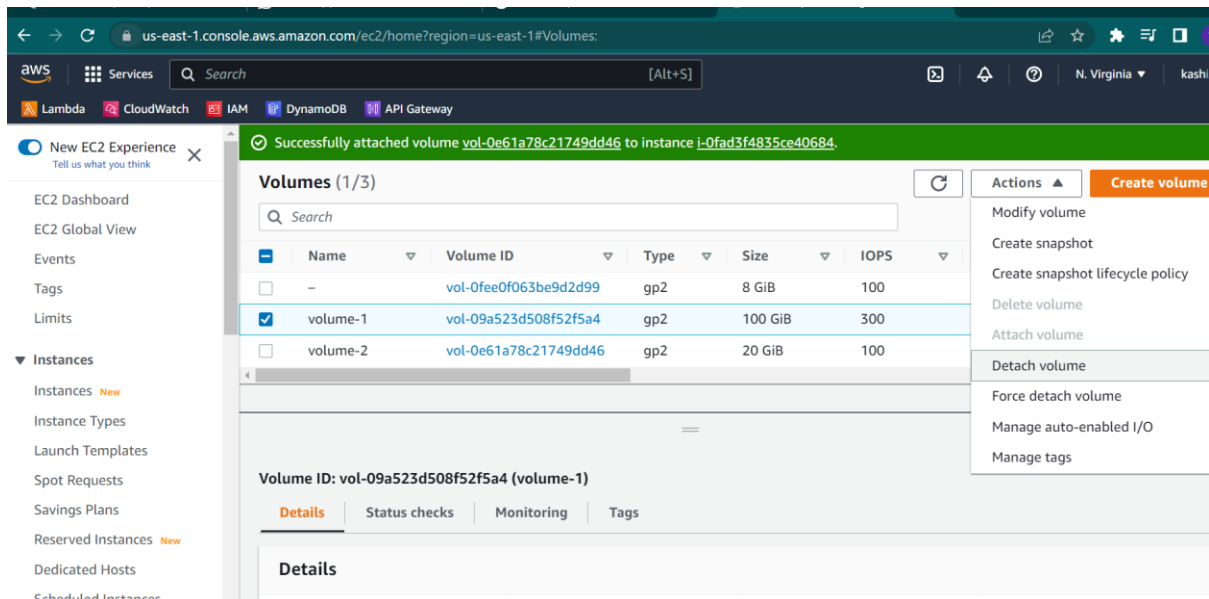
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➔ Attaching both the volumes

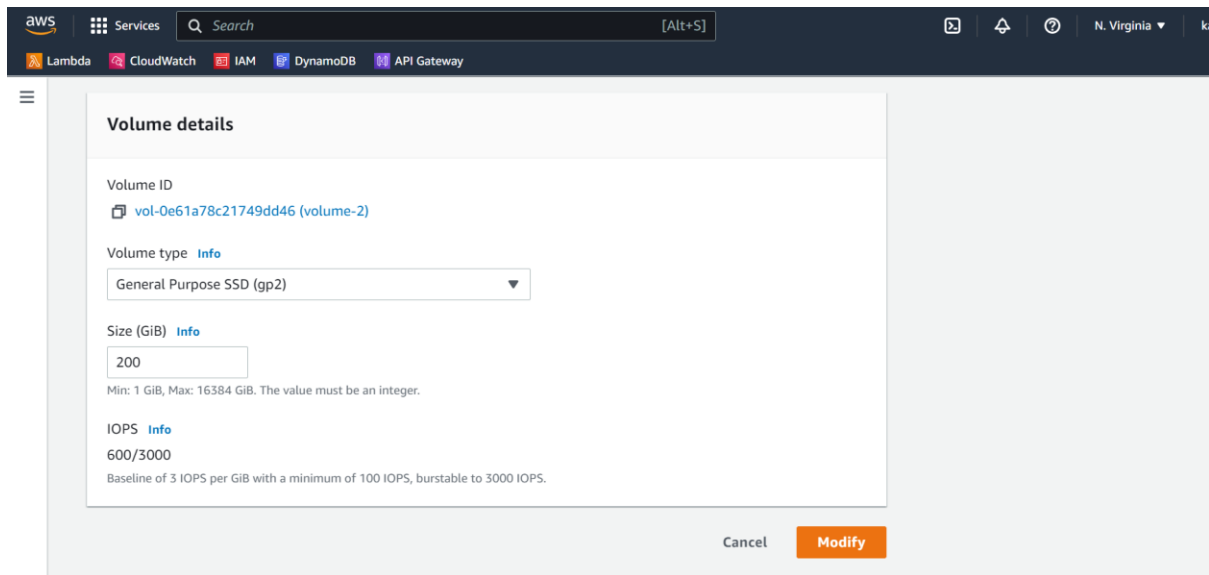


➔ Availability zone have been in us-east 1c accordingly created volumes in the same availability zones .

### 3. Deleting and extending volume of other

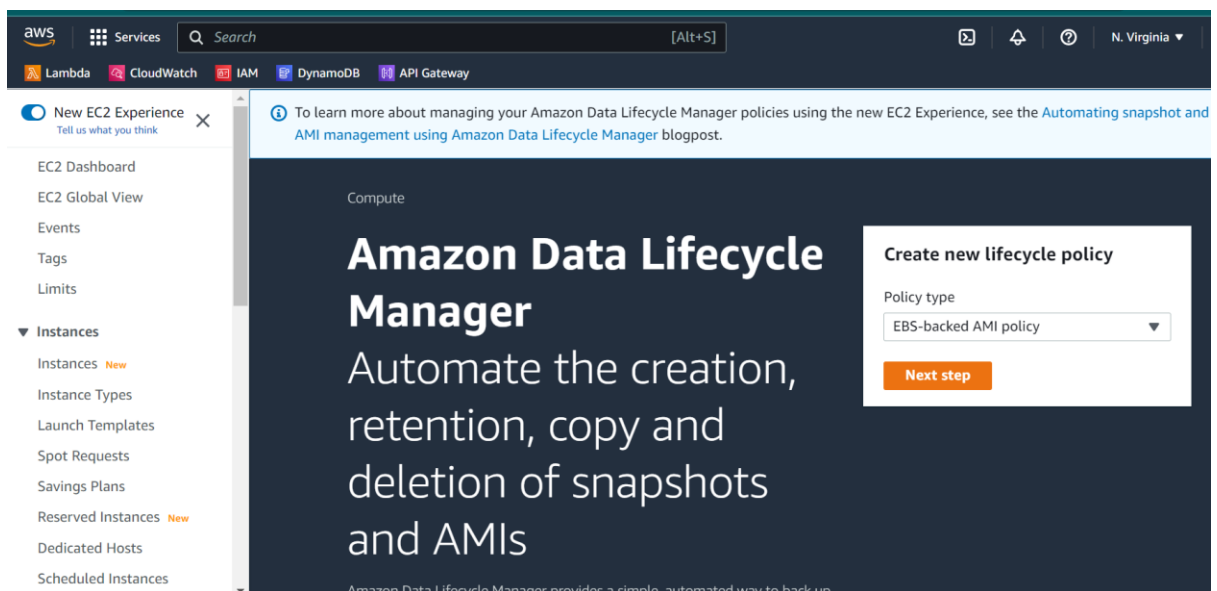


➔ Detached the volume-1 from the instance and deleted.

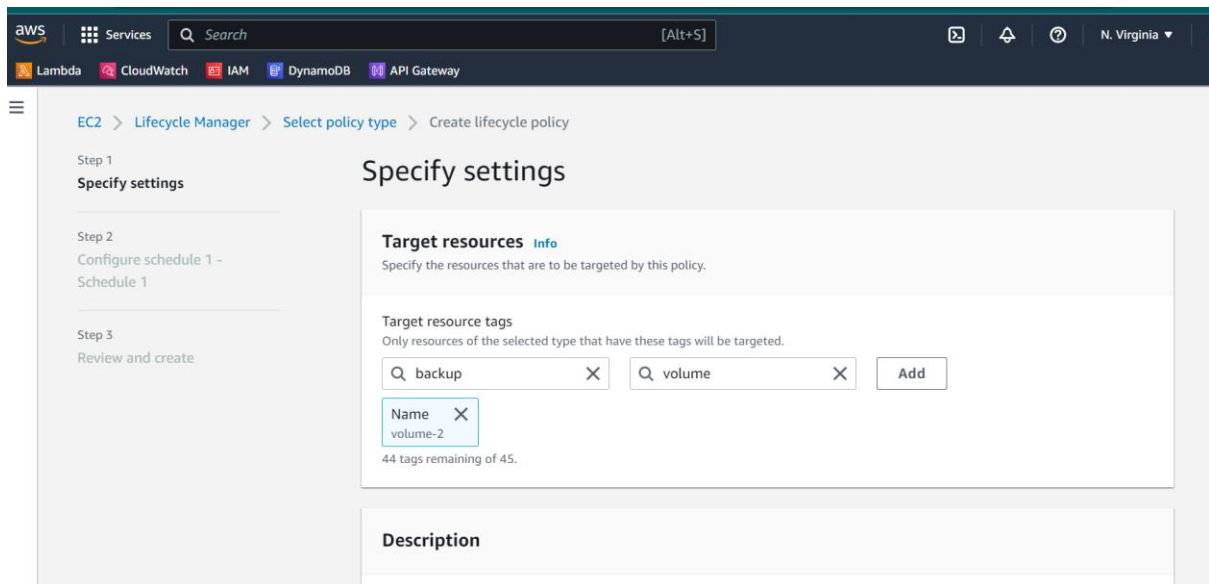


➔ Extending the volume-2 size from 20gb to 200gb .

#### 4. Backup of the volume



➔ Choose the EBS -backup policy



➔ Created the policy for backup