

SOLUTIONS ARCHITECTING ON CLOUD (20CS3235AA)

LAB-5

NAME: K. VENKATA SREE SAI

IDNO:2000030439

Create an Amazon EBS system using Amazon EC2 Launch Instance

Step-1: Log in to the AWS Management Console and navigate to the EC2 dashboard.

The screenshot shows the AWS Management Console for the EC2 service in the N. Virginia region. The left sidebar contains navigation links for EC2 Dashboard, EC2 Global View, Events, Tags, Limits, Instances, Instance Types, Launch Templates, Spot Requests, Savings Plans, Reserved Instances, Dedicated Hosts, Scheduled Instances, Capacity Reservations, Images, AMIs, AMI Catalog, and Elastic Block Store. The main content area is divided into several sections: Resources (showing counts for various EC2 resources), Launch instance (with a 'Launch instance' button), Service health (showing 'This service is operating normally'), Zones (listing zone names and IDs), and Scheduled events. The right sidebar displays Account attributes (Supported platforms, VPC, Default VPC, Settings) and Explore AWS (Get Up to 40% Better Price Performance, Enable Best Price-Performance with AWS Graviton2).

Resources

You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:

Instances (running)	0	Auto Scaling Groups	0	Dedicated Hosts	0
Elastic IPs	0	Instances	0	Key pairs	0
Load balancers	0	Placement groups	0	Security groups	1
Snapshots	0	Volumes	0		

Launch instance

To get started, launch an Amazon EC2 Instance, which is a virtual server in the cloud.

[Launch instance](#)

[Migrate a server](#)

Note: Your instances will launch in the US East (N. Virginia) Region

Service health

[AWS Health Dashboard](#)

Region: US East (N. Virginia)

Status: ✔ This service is operating normally

Zones

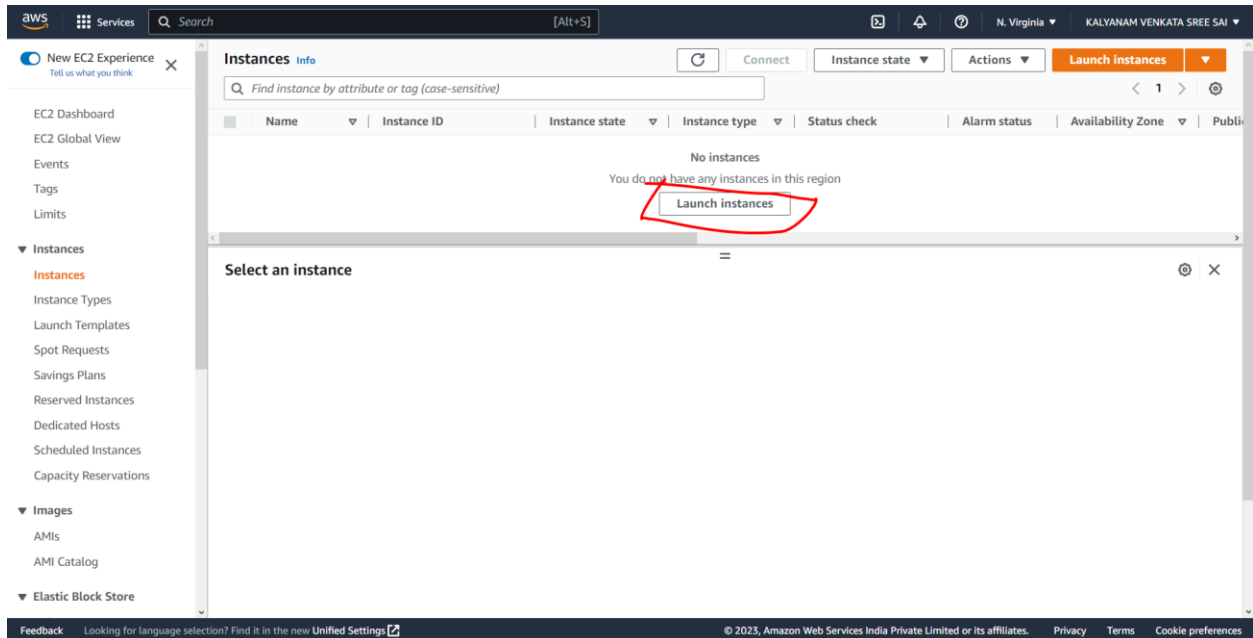
Zone name	Zone ID
-----------	---------

Scheduled events

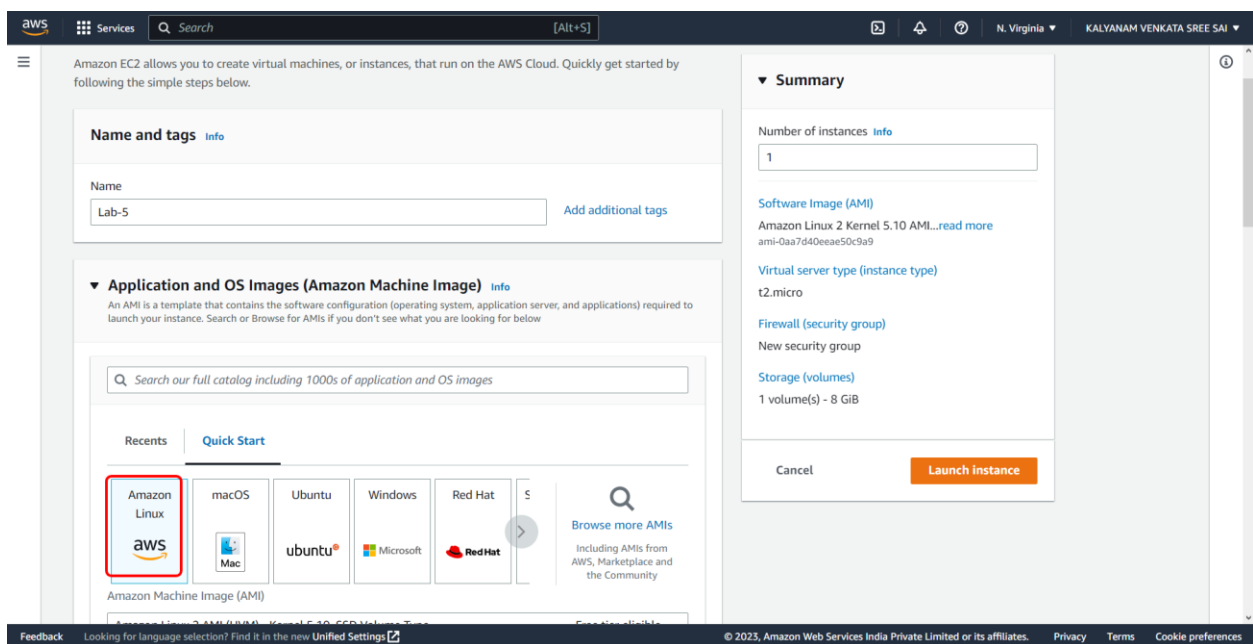
[Feedback](#) Looking for language selection? Find it in the new [Unified Settings](#)

© 2023, Amazon Web Services India Private Limited or its affiliates. [Privacy](#) [Terms](#) [Cookie preferences](#)

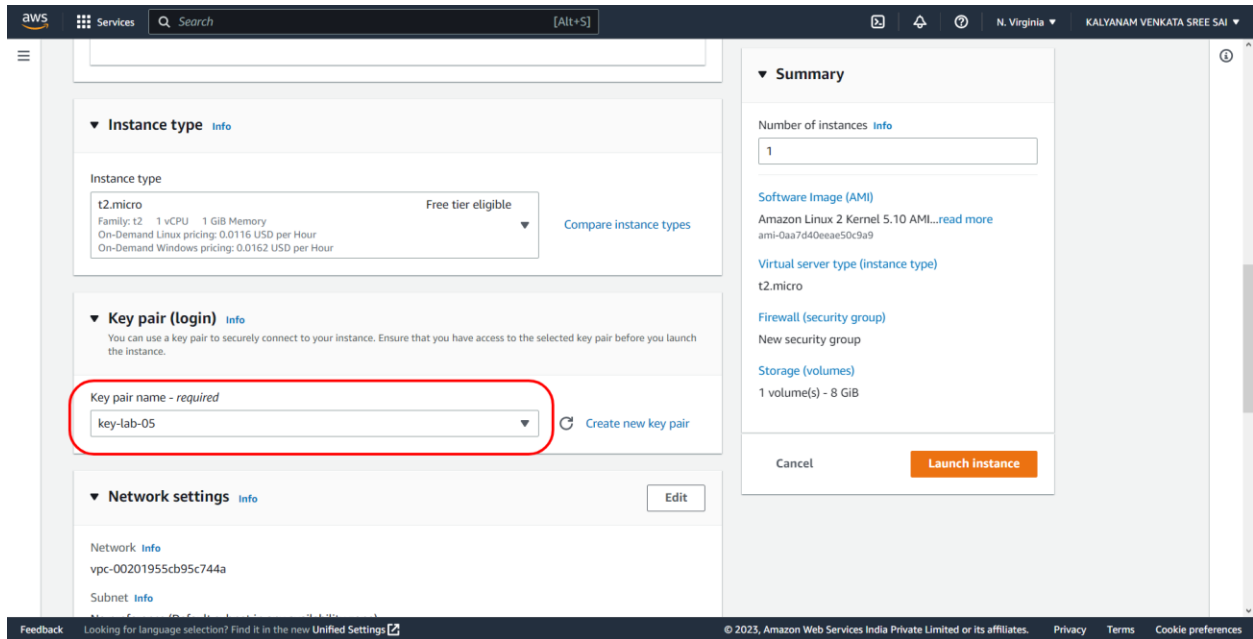
Step-2: Click on the "Launch Instance" button.



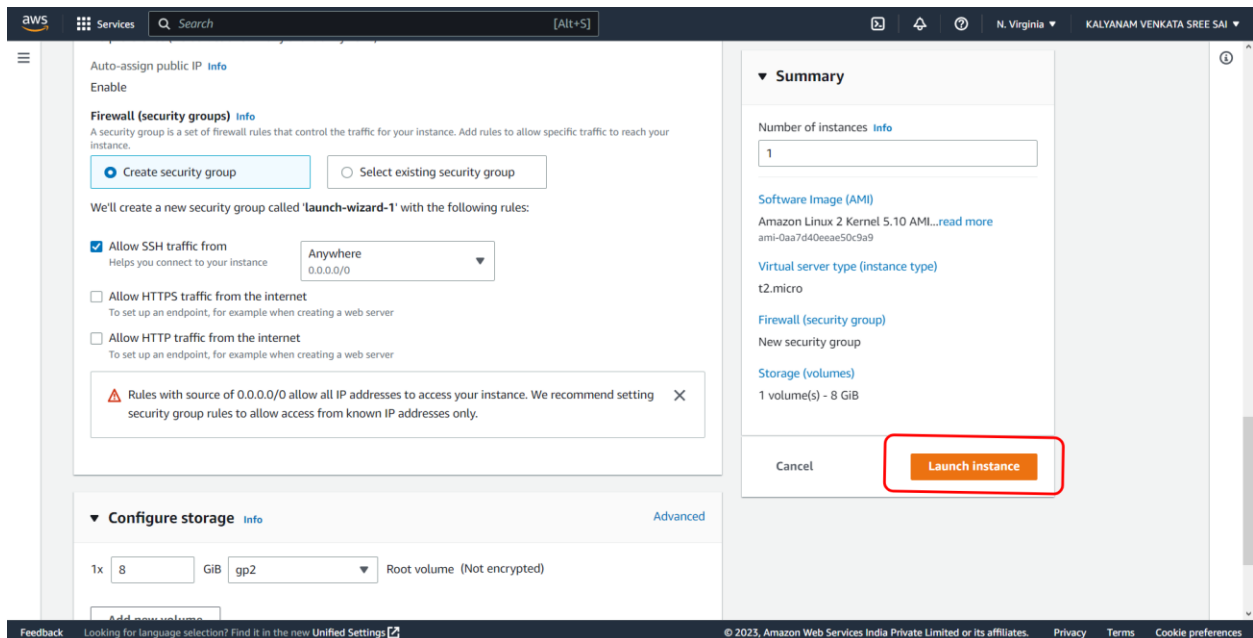
Step-3: Select the Amazon Machine Image (AMI) for the instance you want to launch



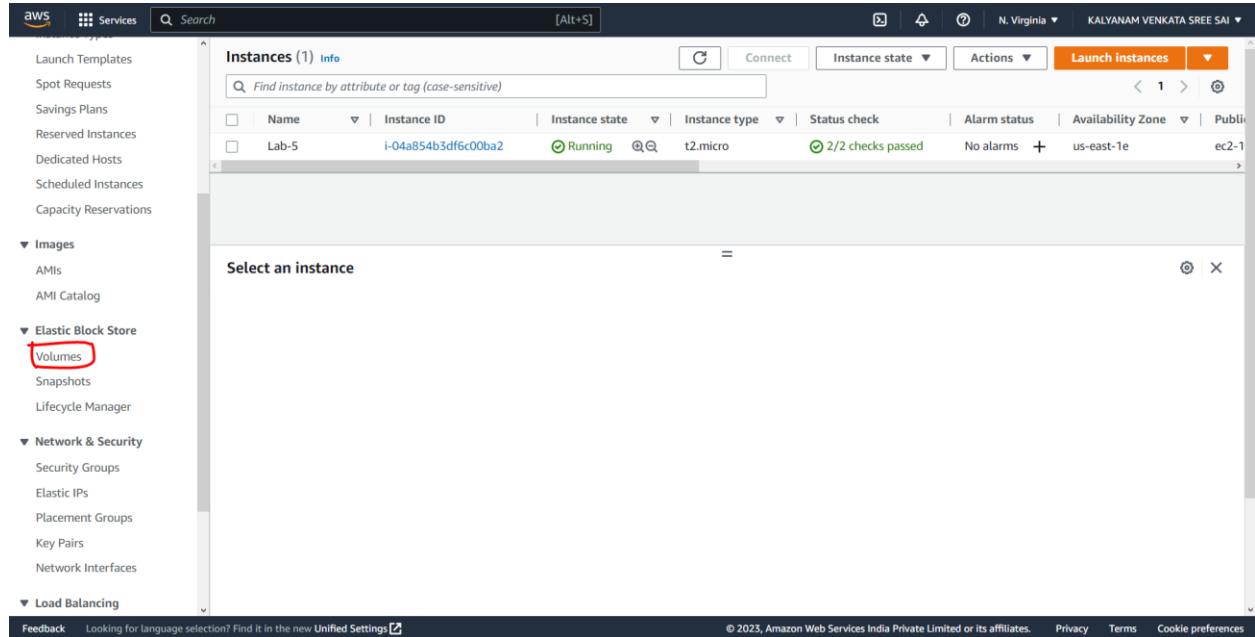
Step-4: Configure any other settings as desired, such as security groups and key pairs



Step-5: Click on the "Launch" button.



Step-6:



Step-7: Create the volume in the same availability zone.

aws Services Search [Alt+S] N. Virginia KALYANAM VENKATA SREE SAI

New EC2 Experience Tell us what you think

EC2 Dashboard
EC2 Global View
Events
Tags
Limits

▼ Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations

▼ Images
AMIs
AMI Catalog

▼ Elastic Block Store

You can now create Amazon Data Lifecycle Manager policies to automate snapshot management directly from this screen. Select the volumes to back up, and then choose **Actions**, **Create snapshot lifecycle policy**. For more information, see the [Knowledge Center article](#).

Volumes (2)

Search

Type	Size	IOPS	Throughput	Snapshot	Created	Availability Zone	Volume state	Alarm status
gp2	8 GiB	100	-	snap-0c371a5...	2023/01/28 16:57 GMT+5...	us-east-1b	In-use	No alarms
gp2	10 GiB	100	-	-	2023/01/28 16:59 GMT+5...	us-east-1b	Available	No alarms

Select a volume above

Feedback Looking for language selection? Find it in the new Unified Settings. © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

Step-8: Attach The volume to the existing instance in the same availability zone.

aws Services Search [Alt+S] N. Virginia KALYANAM VENKATA SREE SAI

EC2 > Volumes > vol-027b309b22891a5c2 > Attach volume

Attach volume [Info](#)

Attach a volume to an instance to use it as you would a regular physical hard disk drive.

Basic details

Volume ID
vol-027b309b22891a5c2

Availability Zone
us-east-1b

Instance [Info](#)
i-016f81ef70754bdc0

Only instances in the same Availability Zone as the selected volume are displayed.

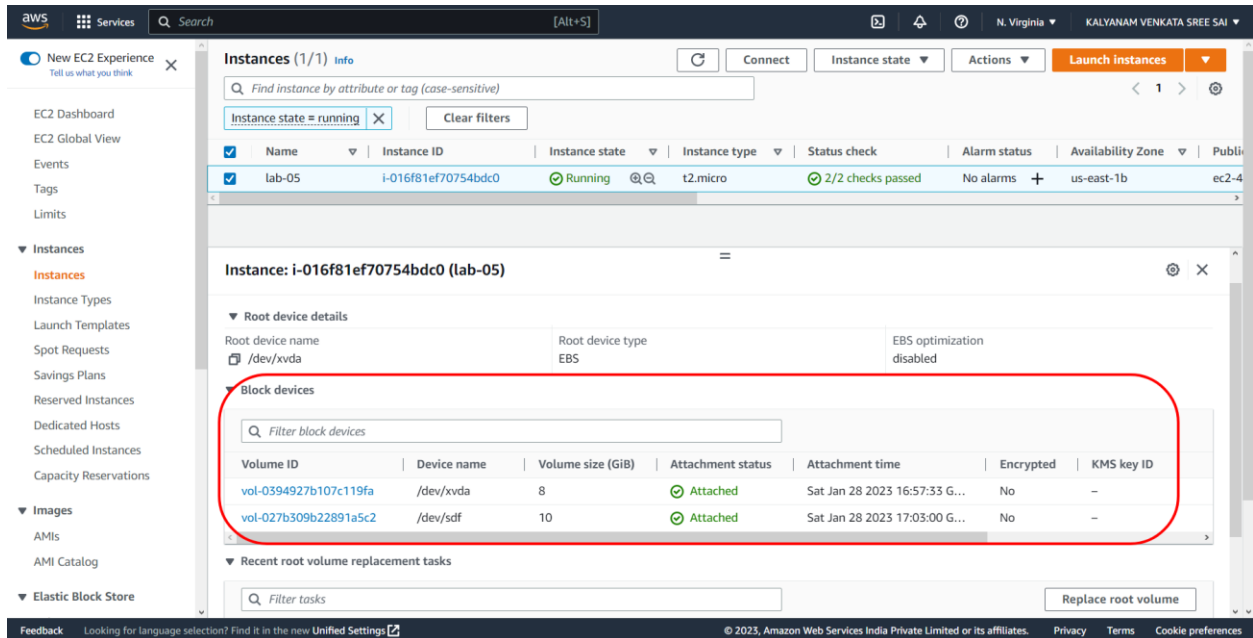
Device name [Info](#)
/dev/sdf

Recommended device names for Linux: /dev/sda1 for root volume, /dev/sd[f-p] for data volumes.

ⓘ Newer Linux kernels may rename your devices to /dev/xvdf through /dev/xvdp internally, even when the device name entered here (and shown in the details) is /dev/sdf through /dev/sdp.

Feedback Looking for language selection? Find it in the new Unified Settings. © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

Step-9: finally we created the “AWS EBS System” with “EC2 Instance”.



The screenshot displays the AWS Management Console interface for an EC2 instance. The instance is named "lab-05" with ID "i-016f81ef70754bdc0", running on a "t2.micro" instance type in the "us-east-1b" availability zone. The instance state is "Running".

The "Block devices" section is highlighted with a red circle, showing two attached EBS volumes:

Volume ID	Device name	Volume size (GiB)	Attachment status	Attachment time	Encrypted	KMS key ID
vol-0394927b107c119fa	/dev/xvda	8	Attached	Sat Jan 28 2023 16:57:33 G...	No	-
vol-027b309b22891a5c2	/dev/sdf	10	Attached	Sat Jan 28 2023 17:03:00 G...	No	-

The footer of the console shows the copyright notice: "© 2023, Amazon Web Services India Private Limited or its affiliates." and links for "Privacy", "Terms", and "Cookie preferences".