Placement Empowerment Program

Cloud Computing and DevOps Centre

Set a private network in cloud – Create a VPC with subnets for your instances. Configure routing for internal communication between subnets

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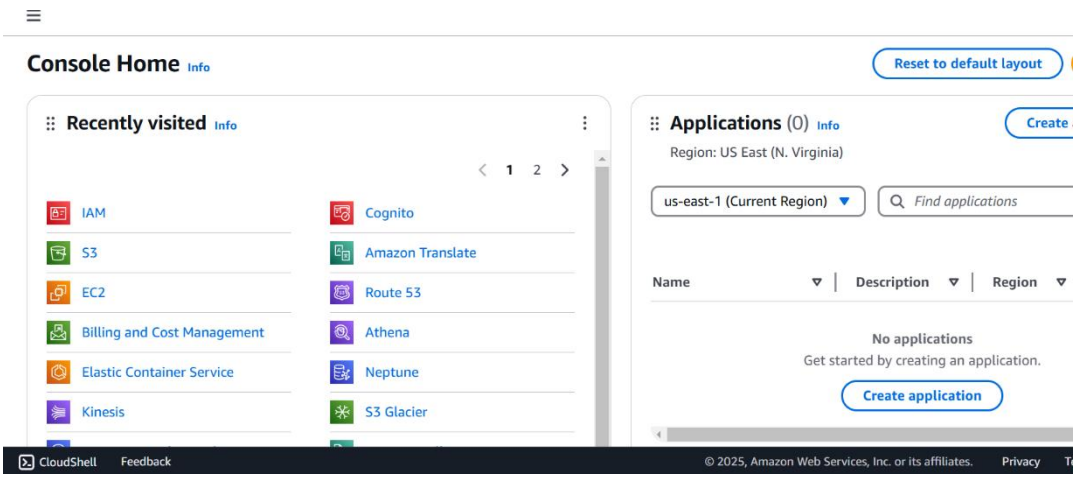
AUTONOMOUS INSTITUTIONS, AFFILIATED TO ANNA UNIVERSITY

Step-by-Step Overview

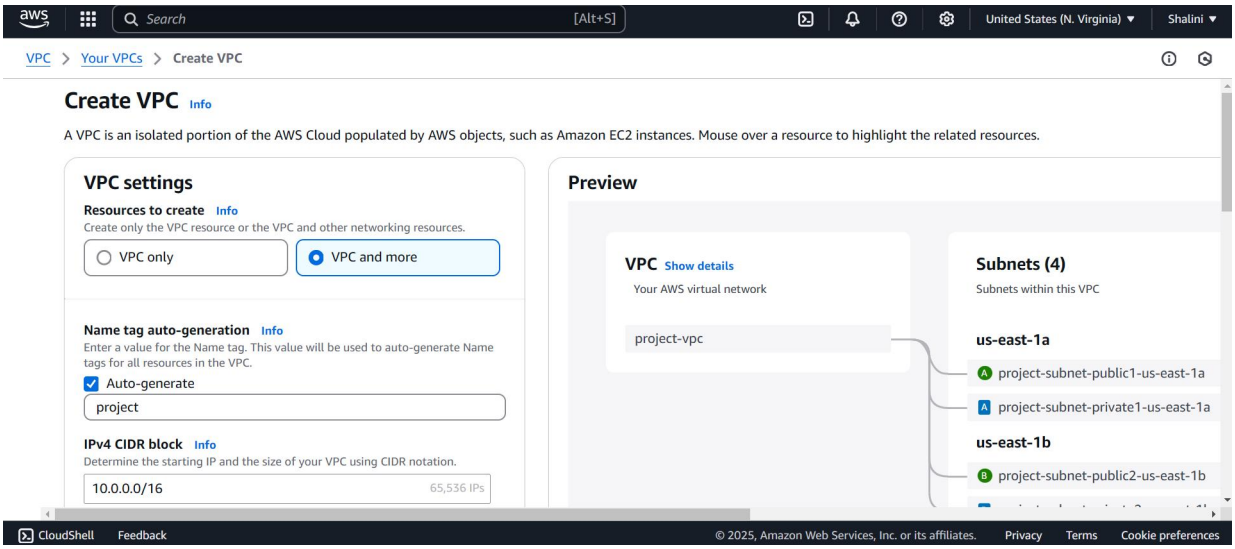
Step 1:

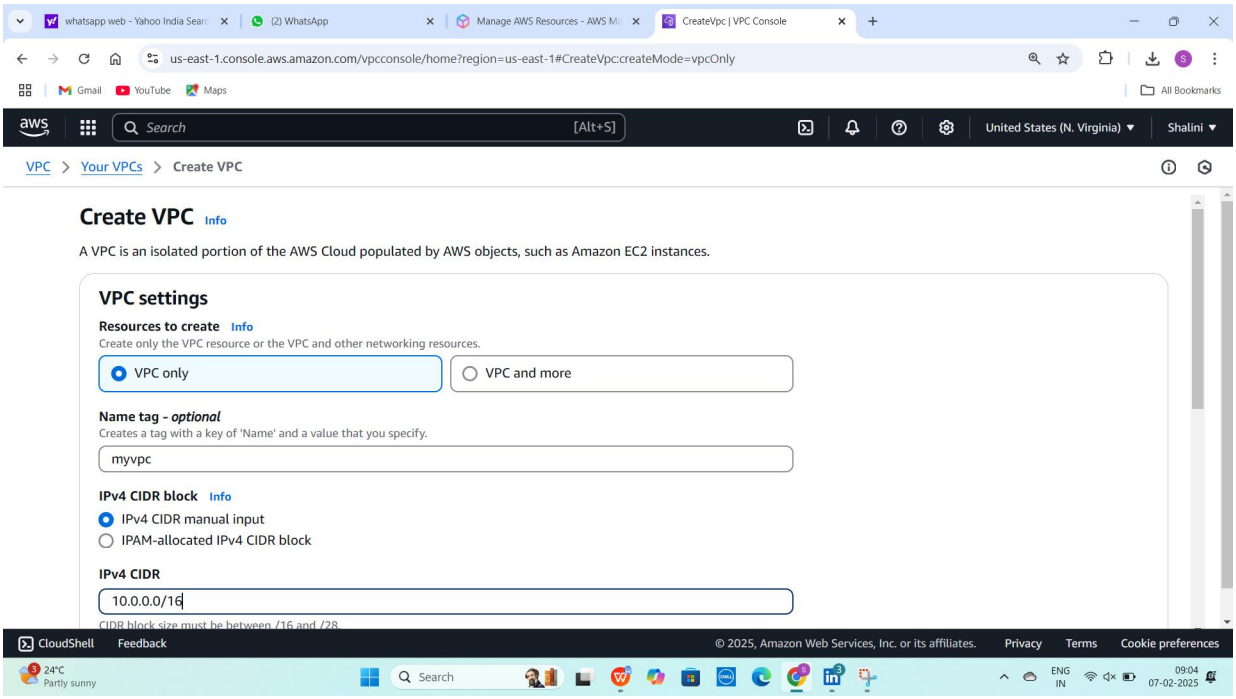
1. Go to AWS Management Console.
2. Enter your username and password to log in

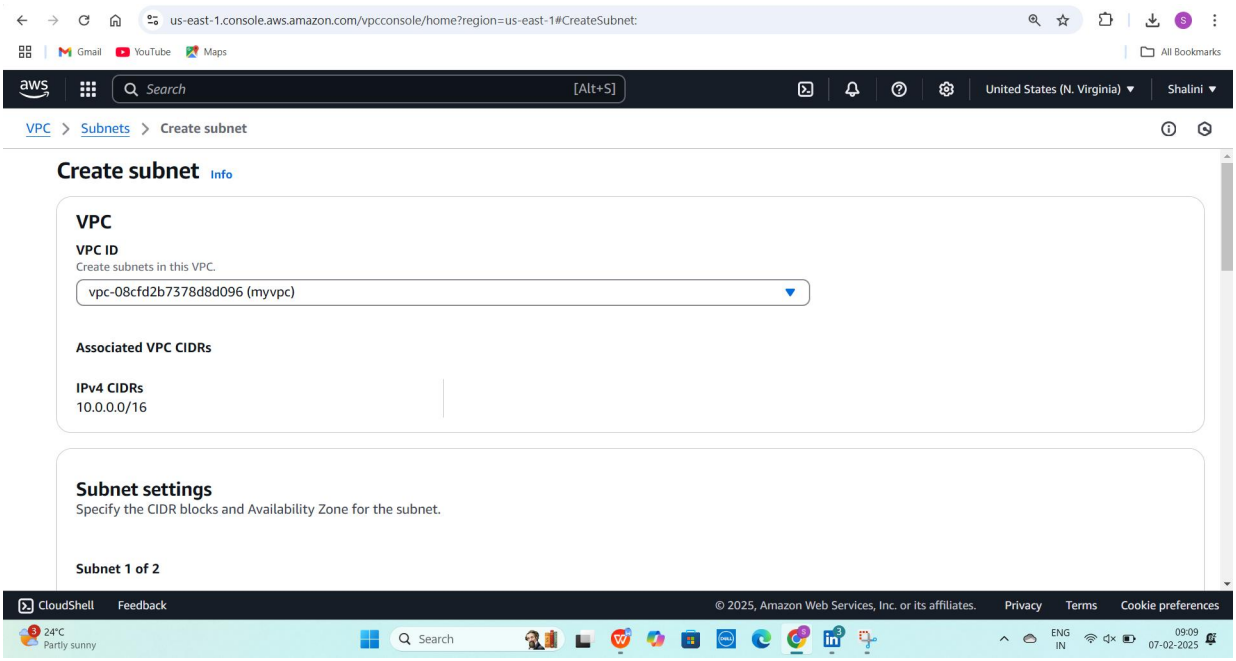


Step 2:

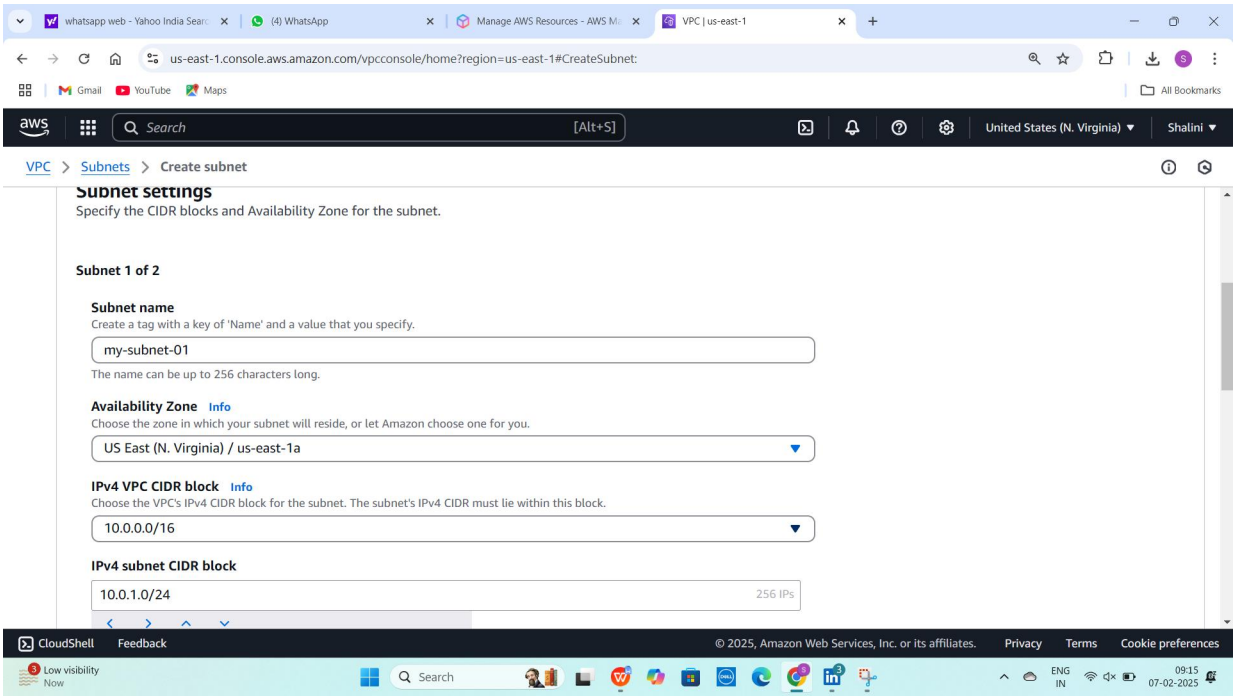
Create vpc

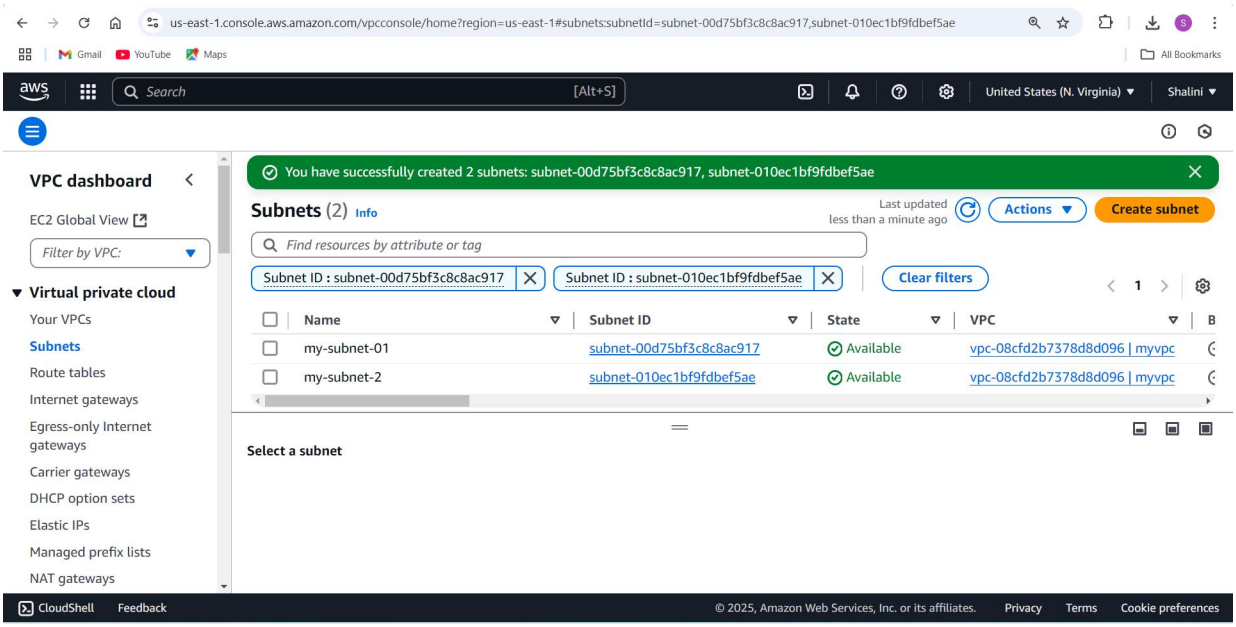






Step 3:
Create subnets





Step 3:

Create Subnets

You need at least two private subnets for internal communication:

1. Go to Subnets → Click Create Subnet.

2. Select the VPC (MyPrivateVPC) you created earlier.

3. Create two subnets:

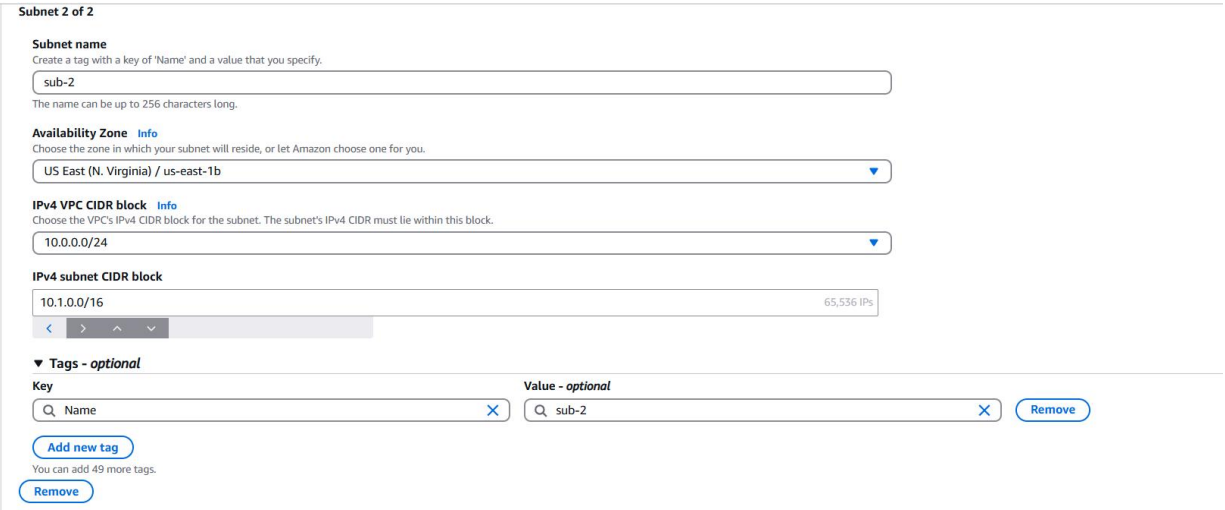
Subnet 1 (Private-Subnet-A)

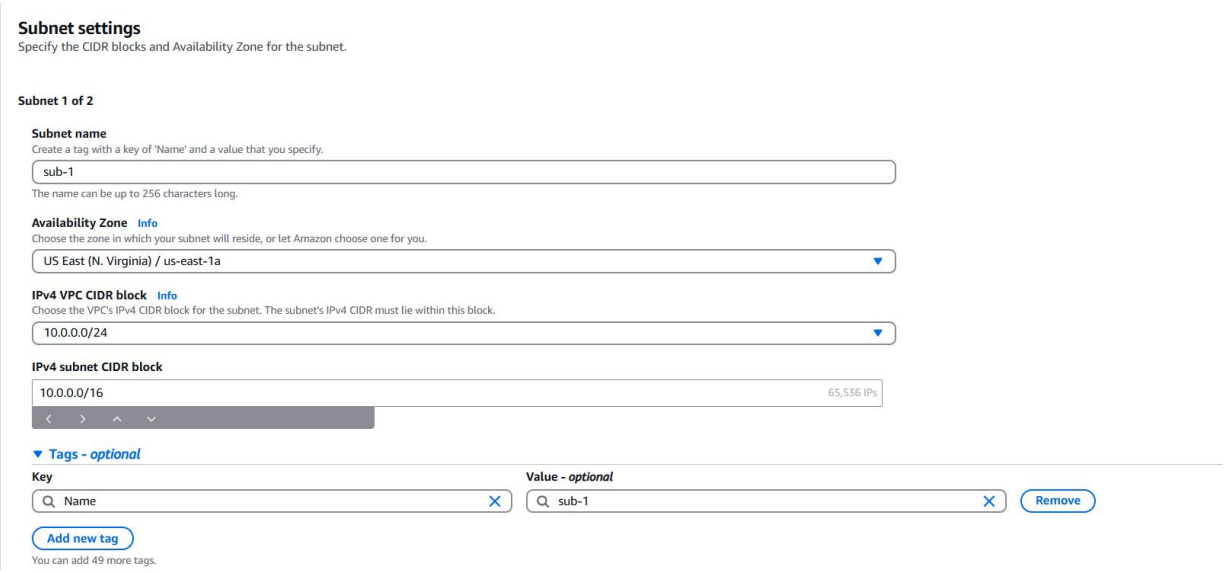
IPv4 CIDR: 10.0.1.0/24

Availability Zone: us-east-1a (example)

Subnet 2 (Private-Subnet-B)

IPv4 CIDR: 10.0.2.0/24





Step 4:

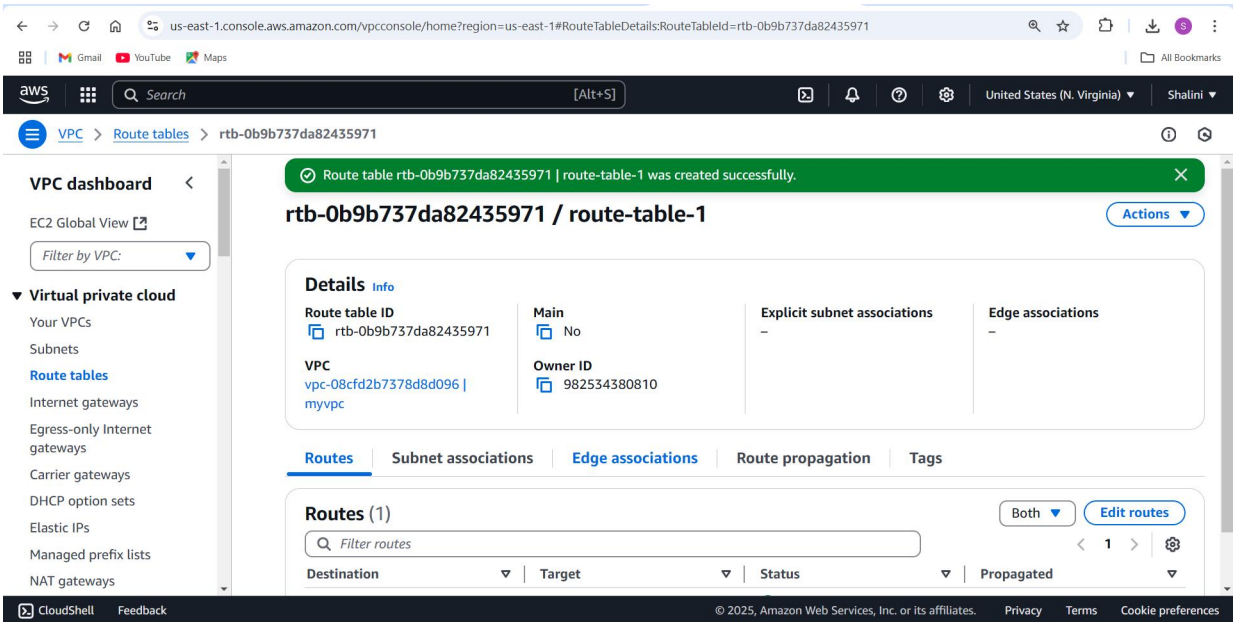
Configure Route Tables for Internal Communication

1. Go to Route Tables → Click Create Route Table.

2. Name it (e.g., PrivateRouteTable).

3. Select MyPrivateVPC.

4. Click Create.



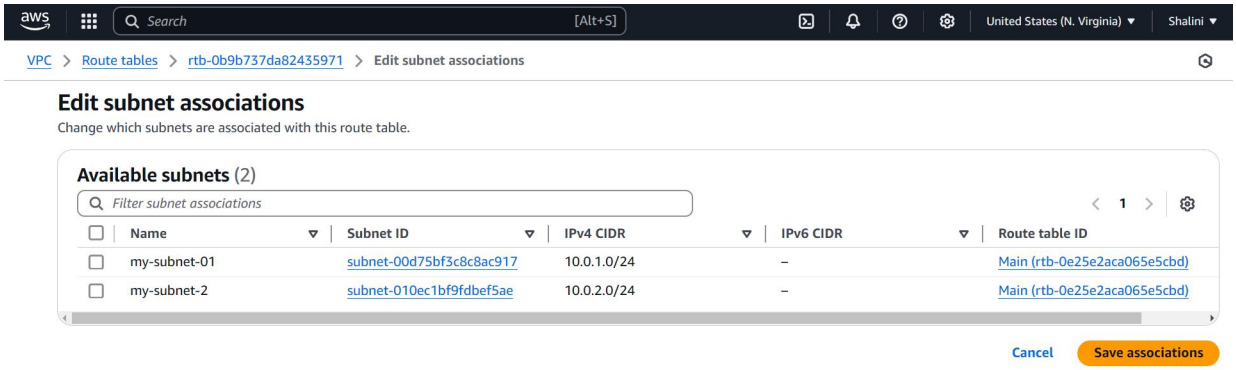
Step 5:

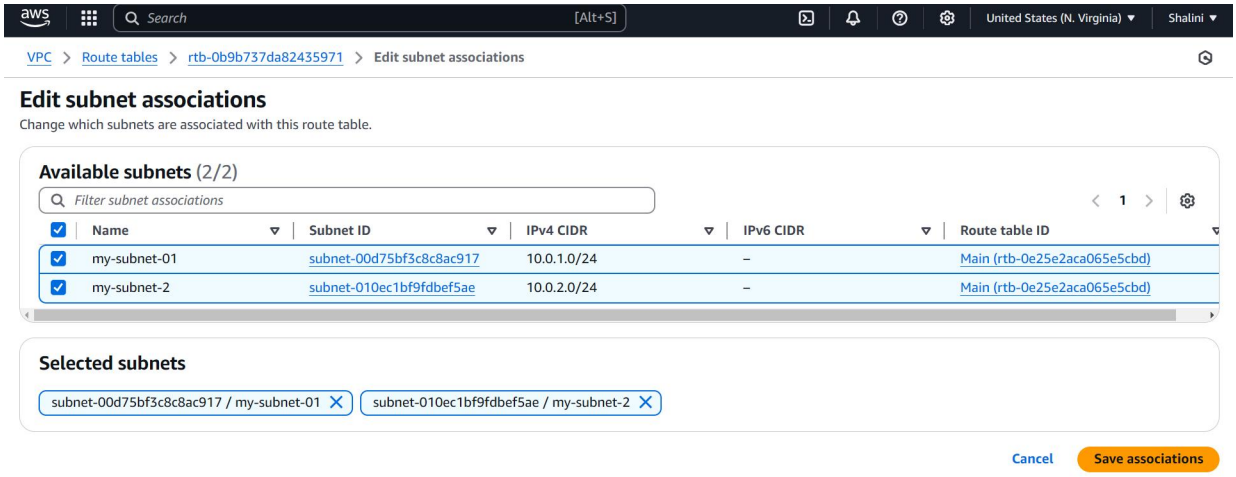
Associate the subnets:

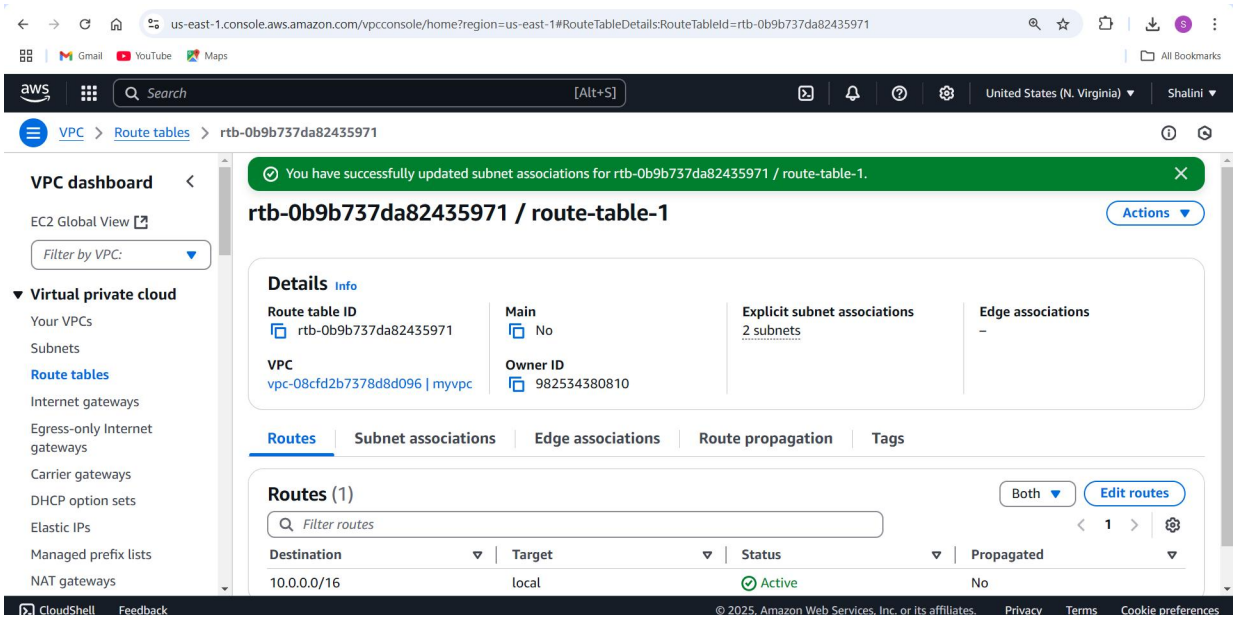
Go to Subnet Associations → Click Edit subnet associations.

Select Private-Subnet-A and Private-Subnet-B.

Click Save associations.

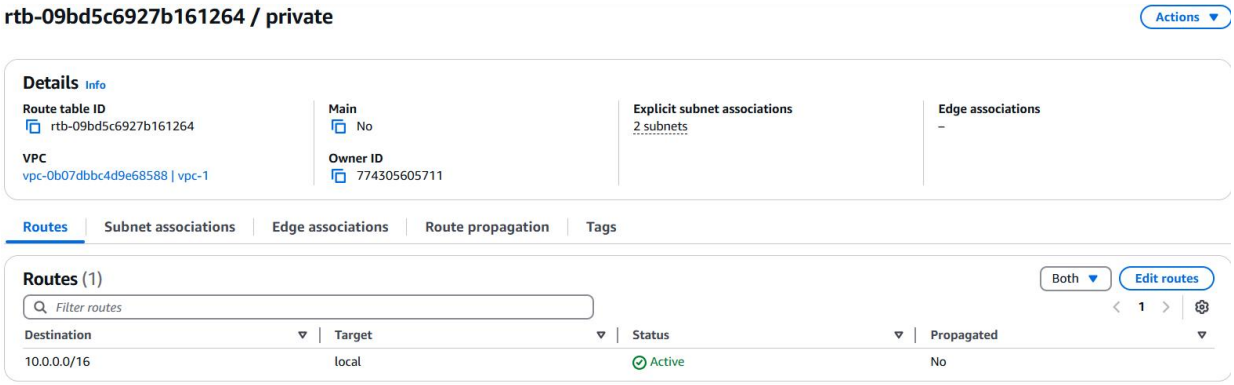






Step 6:

Default route: 10.0.0.0/16 → local (Automatically added).



Step 7:

Launch Instances in Private Subnets

1. Go to EC2 Dashboard → Launch Instance.

2. Select an AMI (Amazon Linux, Ubuntu, etc.).

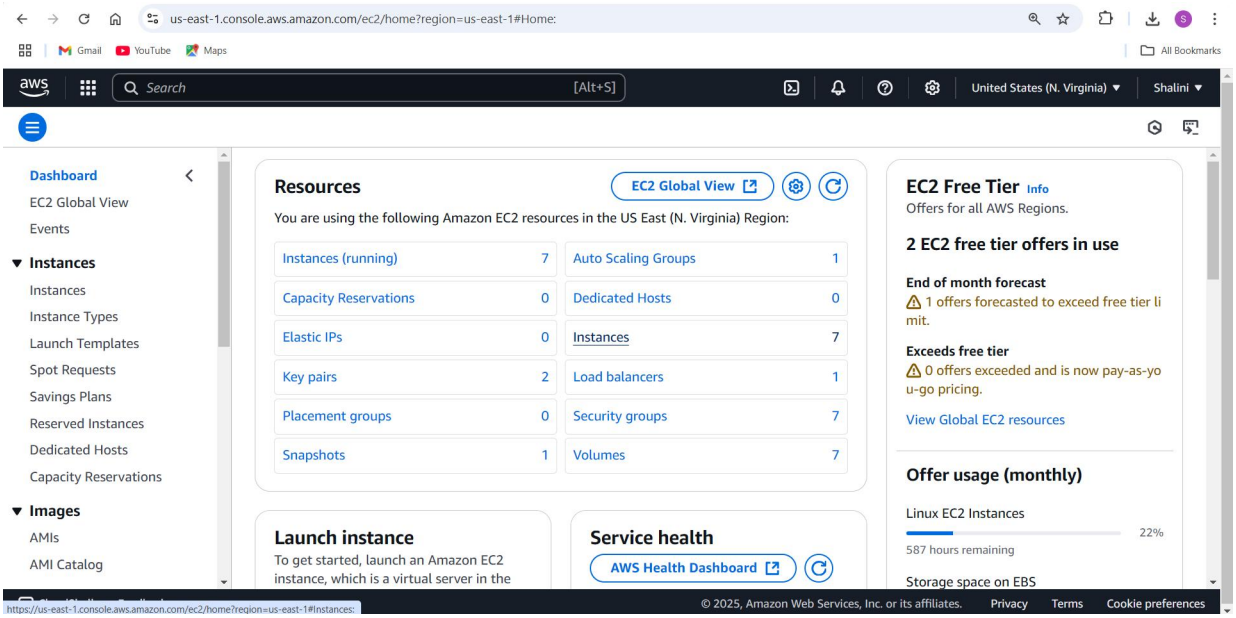
3. Choose an Instance Type (e.g., t2.micro).

4. Under Network settings:

Select MyPrivateVPC.

Select Private Subnet-A or Private-Subnet-B.

Disable Auto-assign Public IP (to keep it private).


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Home:
Search
[Alt+S]
United States (N. Virginia)
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Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Images
AMIs
AMI Catalog
Resources
EC2 Global View
You are using the following Amazon EC2 resources in the US East (N. Virginia) Region:
Instances (running) 7
Auto Scaling Groups 1
Capacity Reservations 0
Dedicated Hosts 0
Elastic IPs 0
Instances 7
Key pairs 2
Load balancers 1
Placement groups 0
Security groups 7
Snapshots 1
Volumes 7
Launch instance
To get started, launch an Amazon EC2 instance, which is a virtual server in the
Service health
AWS Health Dashboard
EC2 Free Tier Info
Offers for all AWS Regions.
2 EC2 free tier offers in use
End of month forecast
1 offers forecasted to exceed free tier limit.
Exceeds free tier
0 offers exceeded and is now pay-as-you-go pricing.
View Global EC2 resources
Offer usage (monthly)
Linux EC2 Instances
22%
587 hours remaining
Storage space on EBS
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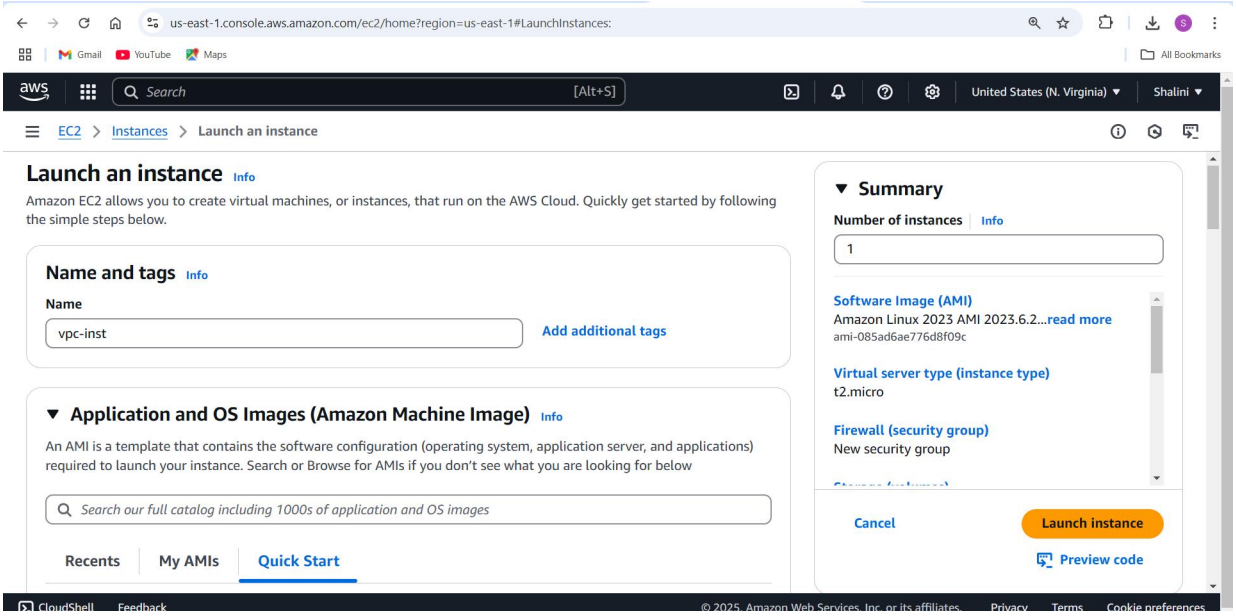
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:
Search
[Alt+S]
United States (N. Virginia)
Shalini
EC2 > Instances > Launch an instance
Launch an instance Info
Amazon EC2 allows you to create virtual machines, or instances, that run on the AWS Cloud. Quickly get started by following the simple steps below.
Name and tags Info
Name
vpc-inst
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
Search our full catalog including 1000s of application and OS images
Recents
My AMIs
Quick Start
Summary
Number of instances Info
1
Software Image (AMI)
Amazon Linux 2023 AMI 2023.6.2...read more
ami-085ad6ae776d8f09c
Virtual server type (instance type)
t2.micro
Firewall (security group)
New security group
Cancel
Launch instance
Preview code
CloudShell
Feedback
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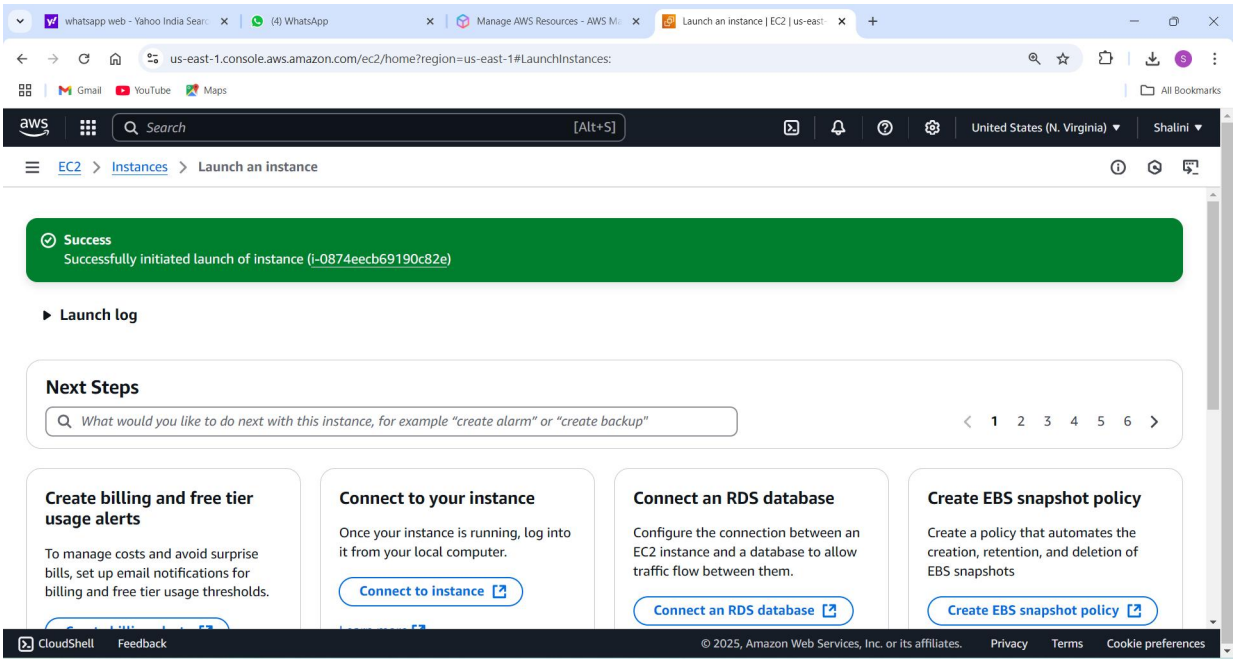

Outcome

After following these steps, you will have:

- A VPC that is isolated from other networks.
- One or more subnets for your instances, with at least one public subnet that can communicate with the Internet.
- Proper routing configured for internal communication between subnets.