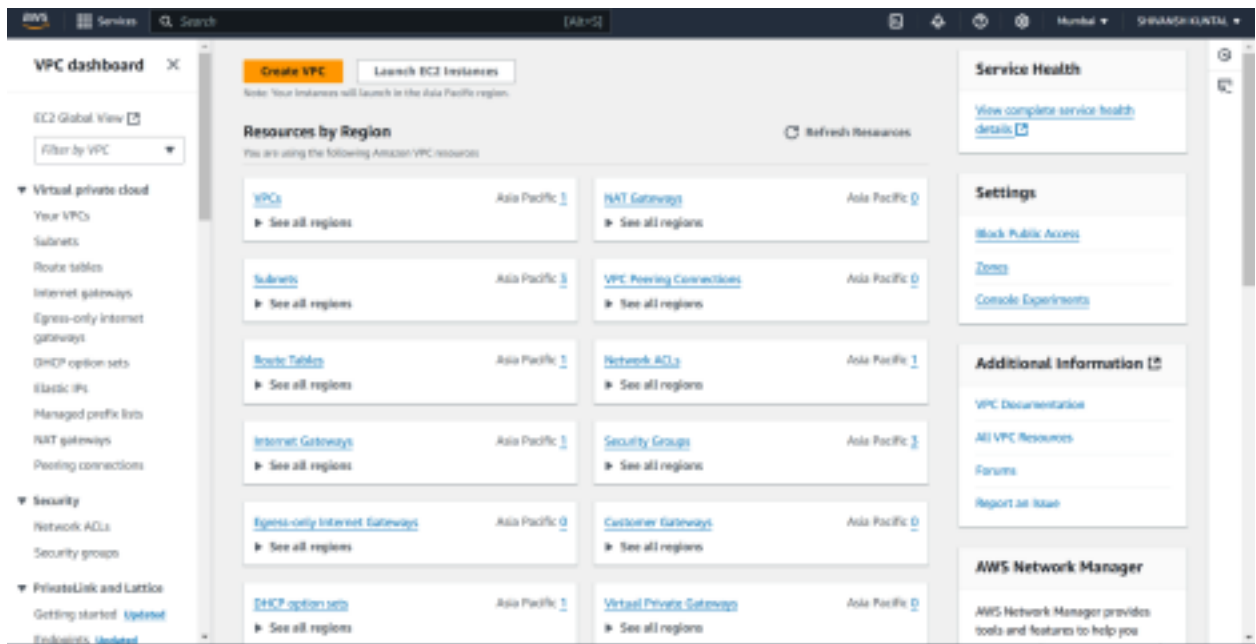
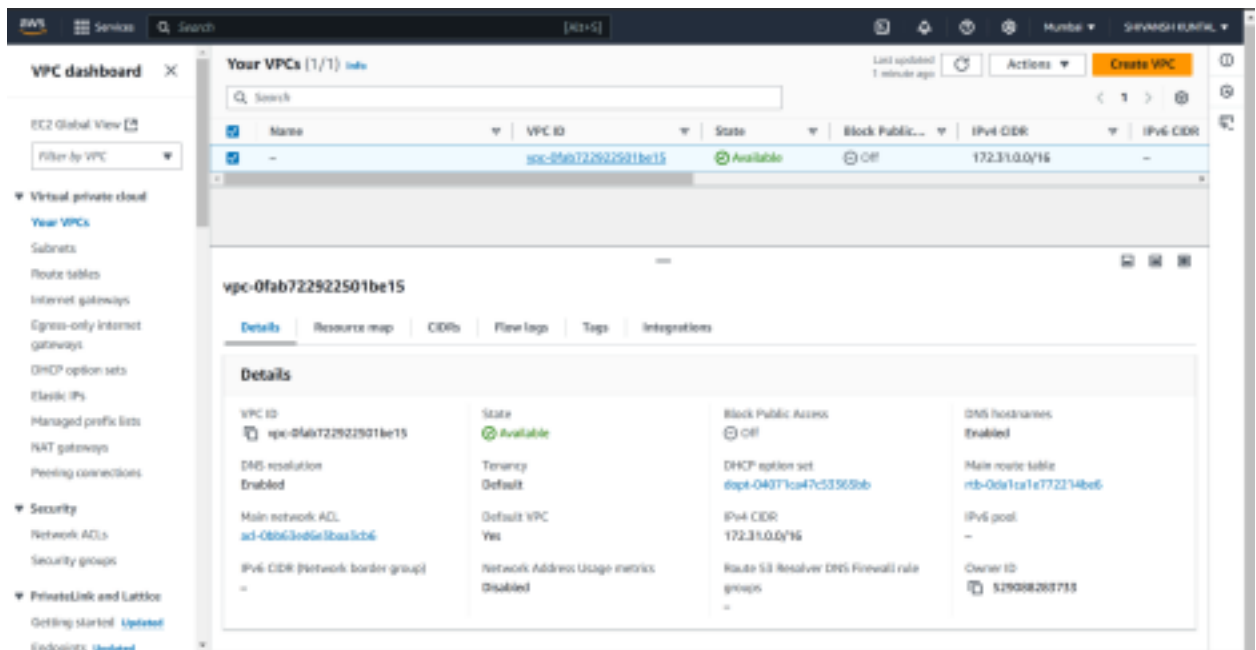


VPC IMPLEMENTATION

1) VPC DASHBOARD



2) DEFAULT VPC



3) CLICK ON CREATE VPC AND CONFIGURE IT

Create VPC [info](#)

A VPC is an isolated portion of the AWS Cloud populated by AWS objects, such as Amazon EC2 instances.

VPC settings

Resources to create [info](#)
Create only the VPC resource or the VPC and other networking resources.

☒ VPC only ☐ VPC and more

Name tag - optional [info](#)
Creates a tag with a key of 'Name' and a value that you specify.

22BCY10290-SHIVANSHKUNTAL-VPC

IPv4 CIDR block [info](#)
☒ IPv4 CIDR manual input
☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR
12.0.0.0/25
CIDR block size must be between /16 and /32.

IPv6 CIDR block [info](#)
☒ No IPv6 CIDR block
☐ IPAM-allocated IPv6 CIDR block
☐ Amazon-provided IPv6 CIDR block
☐ IPv6 CIDR owned by me

Tenancy [info](#)
Default

4) CUSTOM VPC CREATED

You successfully created vpc-080dec6fa743ecf91 / 22BCY10290-SHIVANSHKUNTAL-VPC

vpc-080dec6fa743ecf91 / 22BCY10290-SHIVANSHKUNTAL-VPC [Actions](#)

Details [info](#)

VPC ID vpc-080dec6fa743ecf91	State Available	Block Public Access Off	DNS hostnames Disabled
DNS resolution Enabled	Tenancy Default	DHCP options set dopt-048571ca47c53965ab	Main route table rtb-038d71a0535e1ff31
Main network ACL acl-037a480384e996cd	Default VPC No	IPv4 CIDR 12.0.0.0/25	IPv6 pool -
IPv6 CIDR (Network border group) -	Network Address Usage metrics Disabled	Route 53 Resolver DNS Firewall rule groups -	Owner ID 529080283753

Resource map [info](#)

VPC [Show details](#)
Your AWS virtual network

22BCY10290-SHIVANSHKUNTAL-VPC

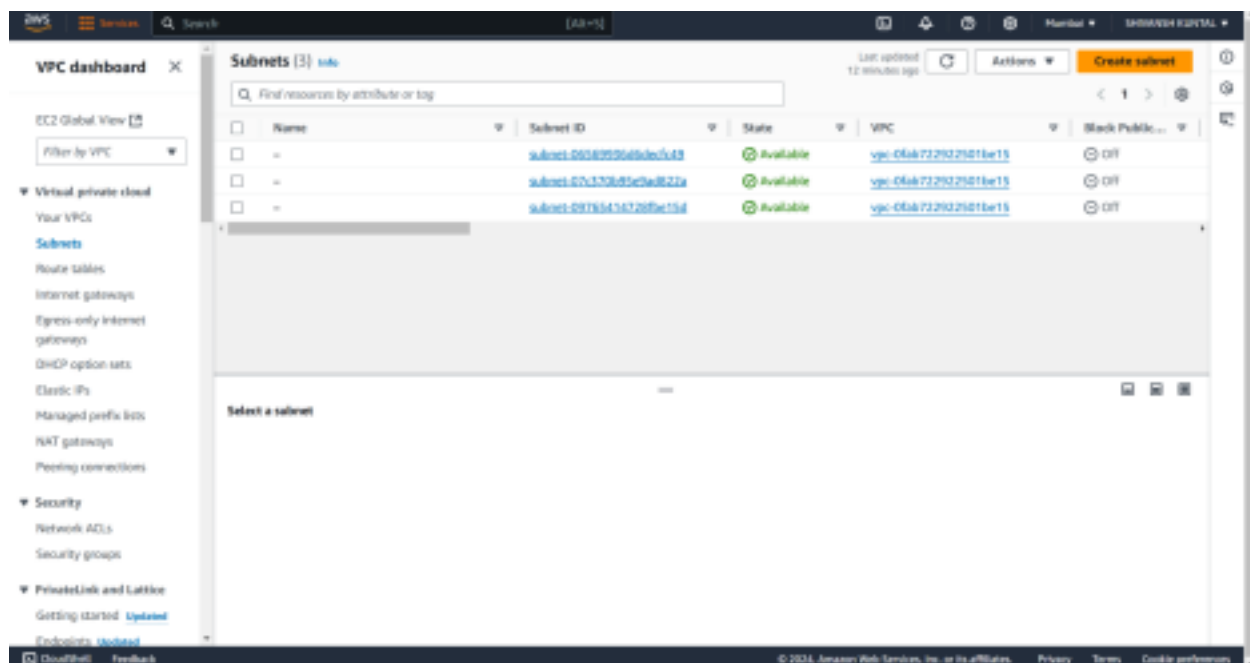
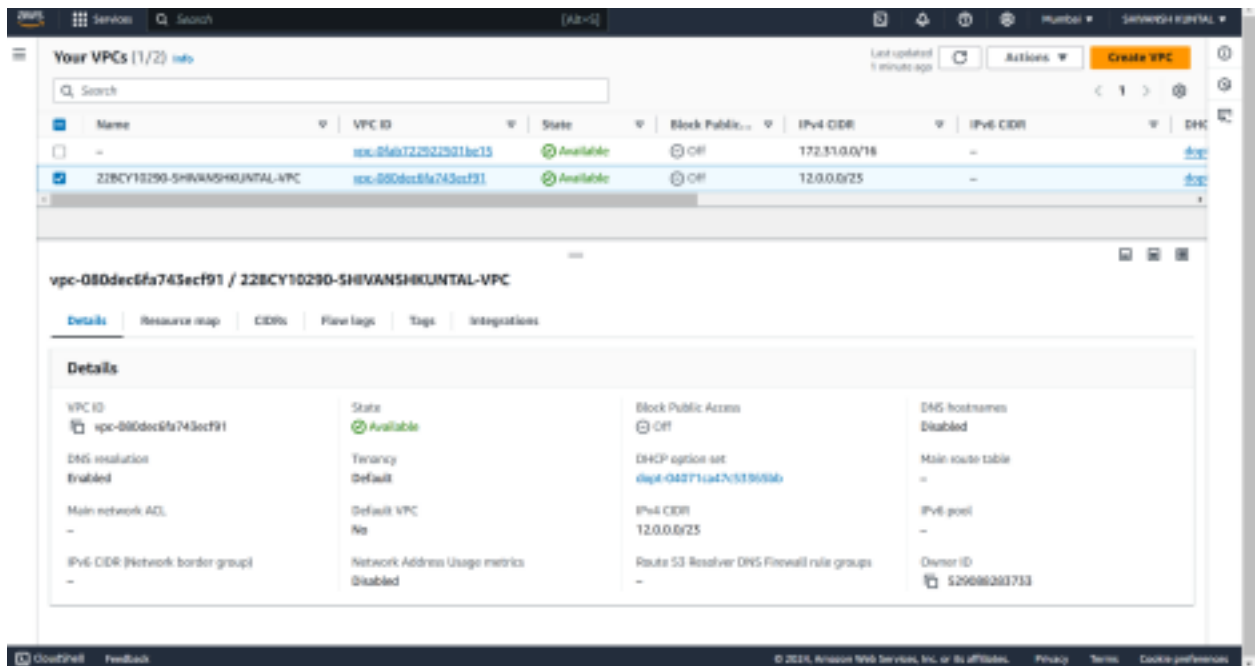
Subnets (0)
Subnets within this VPC

Route tables (1)
Route network traffic to resources

rtb-038d71a0535e1ff31

Network connections
Connections to other networks

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Create subnet

VPC

VPC ID
Create subnets in this VPC.
vpc-080d6bfa745ecf91 (22BCY10290-SHAWANSHRINTAL-VPC)

Associated VPC CIDRs
IPv4 CIDRs
12.0.0.0/25

Subnet settings
Specify the CIDR block and Availability Zone for the subnet.

Subnet 1 of 1

Subnet name
Create a tag with a key of 'Name' and a value that you specify.
22BCY10290-PUBLIC-SUBNET
The name can be up to 256 characters long.

7) CONFIGURE PUBLIC AND PRIVATE SUBNET

Subnet 2 of 2

Subnet name
Create a tag with a key of 'Name' and a value that you specify.
22BCY10290-PRIVATE-SUBNET
The name can be up to 256 characters long.

Availability Zone
Choose the zone in which your subnet will reside, or let Amazon choose one for you.
Asia Pacific (Mumbai) / ap-south-1a

IPv4 VPC CIDR block
Choose the VPC's IPv4 CIDR block for the subnet. The subnet's IPv4 CIDR must lie within this block.
12.0.0.0/25

IPv4 subnet CIDR block
12.0.1.0/24 256 IPs

Tags - optional

Key	Value - optional	
Name	22BCY10290-PRIVATE-SUBNET	Remove

Add new tag
You can add 40 more tags.
Remove

8) SUCCESSFULLY CREATED PUBLIC AND PRIVATE SUBNETS

Amazon Web Services console screenshot showing the VPC dashboard. The top notification bar states: "You have successfully created 2 subnets: subnet-081590b843e2c1ef9, subnet-0c45610eb3c5abc23".

The left sidebar shows the navigation menu with categories: Virtual private cloud, Security, and PrivateLink and Lattice. The "Subnets" link is selected under the Virtual private cloud category.

The main content area displays the "Subnets (2)" page. It includes a search bar and a table of subnets:

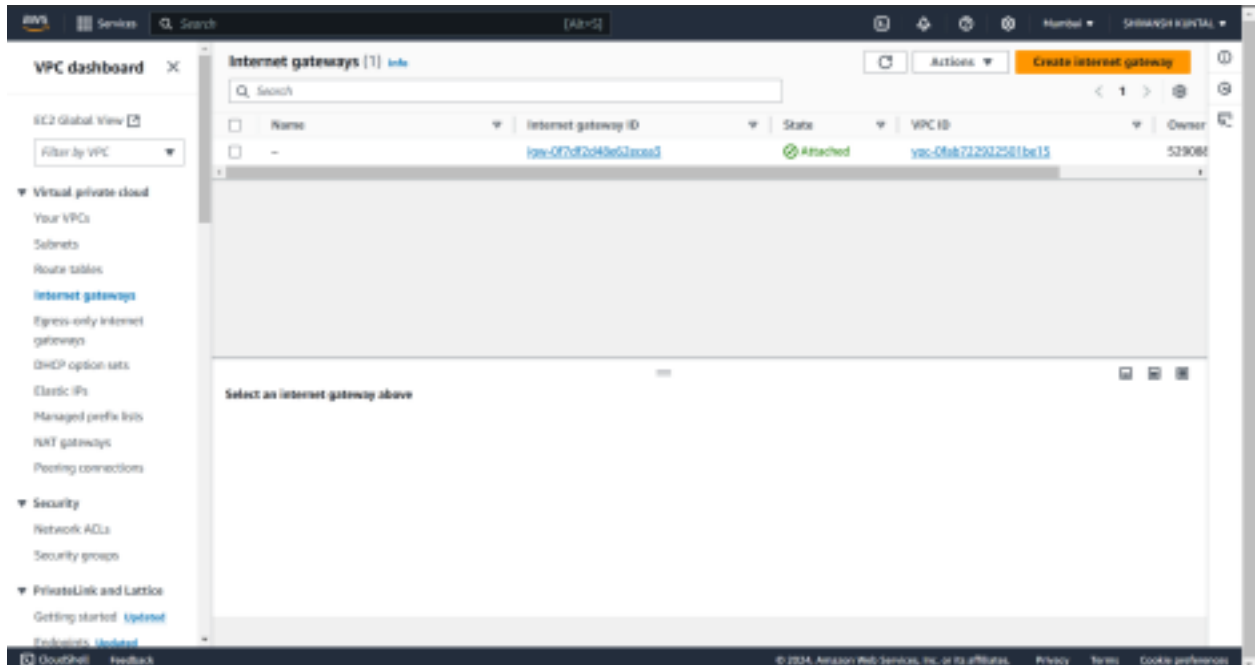
Name	Subnet ID	State	VPC	Block Public...
22BCY10290-PUBLIC-SUBNET	subnet-081590b843e2c1ef9	Available	vpc-0809c6fa7d1ecf911 22BC...	Off
22BCY10290-PRIVATE-SUBNET	subnet-0c45610eb3c5abc23	Available	vpc-0809c6fa7d1ecf911 22BC...	Off

Below the table, there is a "Select a subnet" section with a search bar and a list of subnets.

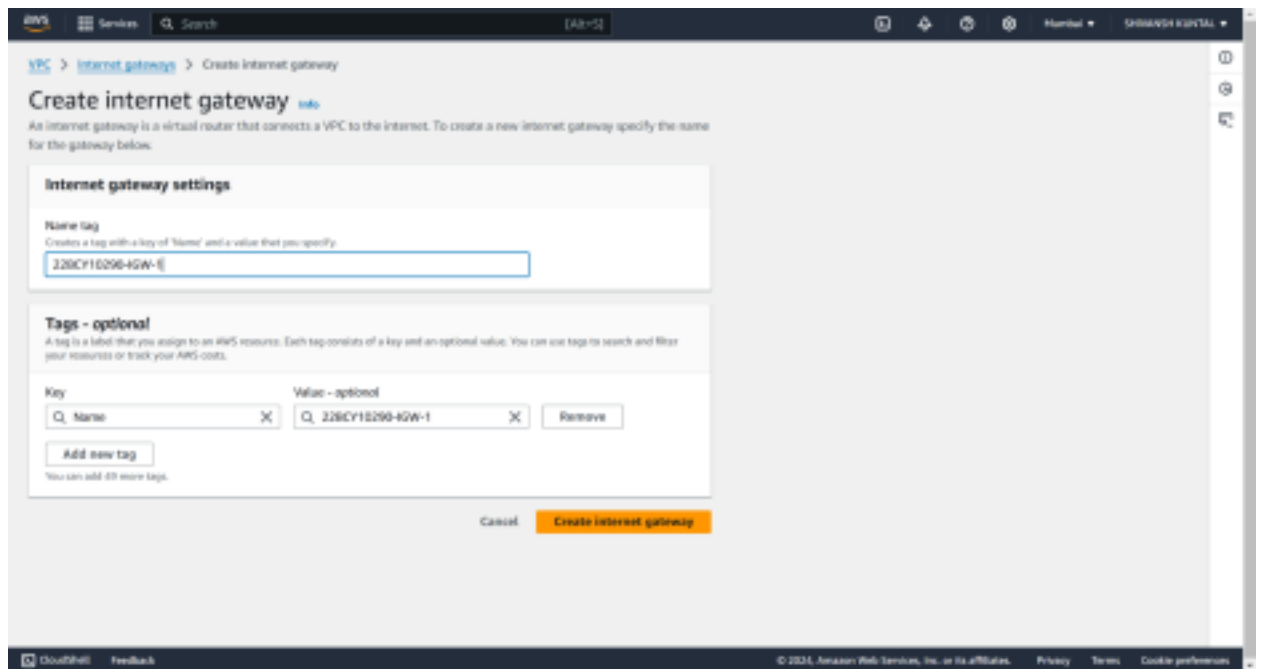
The bottom screenshot shows the same VPC dashboard but with 5 subnets listed in the table:

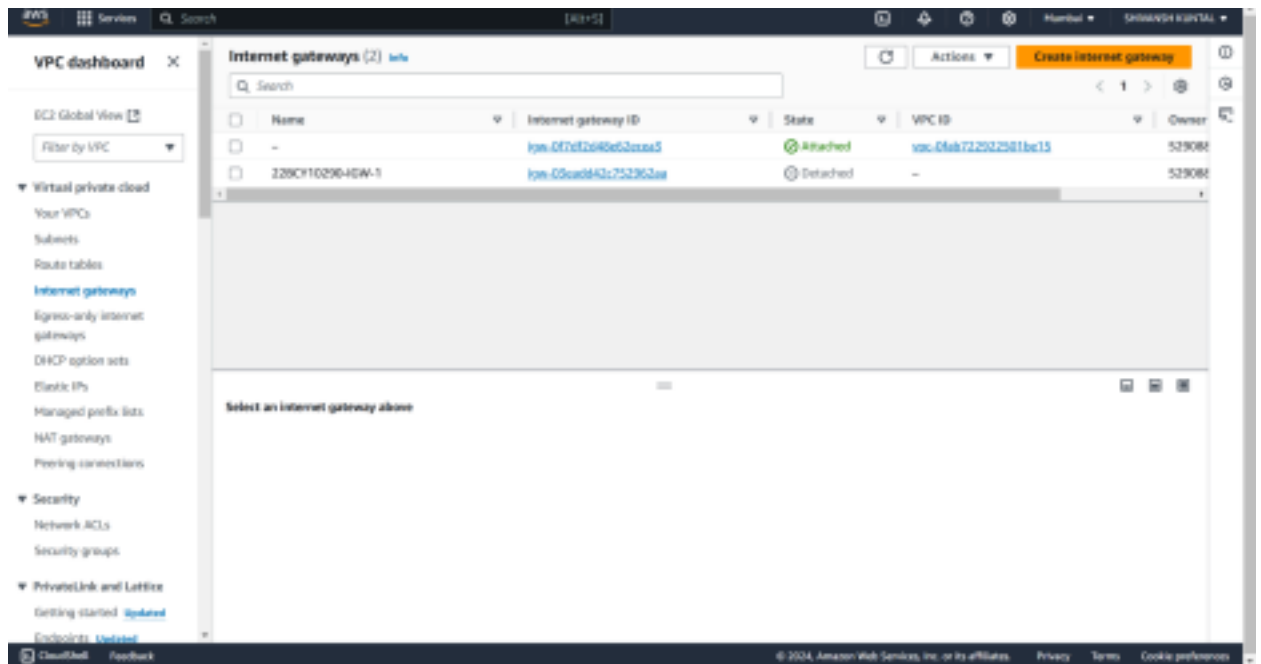
Name	Subnet ID	State	VPC	Block Public...
-	subnet-06569235d8dec6c40	Available	vpc-09eb722922501bc05	Off
-	subnet-07c519e95e8e632a	Available	vpc-09eb722922501bc05	Off
-	subnet-08765614728fbc15d	Available	vpc-09eb722922501bc05	Off
22BCY10290-PUBLIC-SUBNET	subnet-081590b843e2c1ef9	Available	vpc-0809c6fa7d1ecf911 22BC...	Off
22BCY10290-PRIVATE-SUBNET	subnet-0c45610eb3c5abc23	Available	vpc-0809c6fa7d1ecf911 22BC...	Off

9) NOW WE WILL CREATE CUSTOM INTERNET GATEWAY

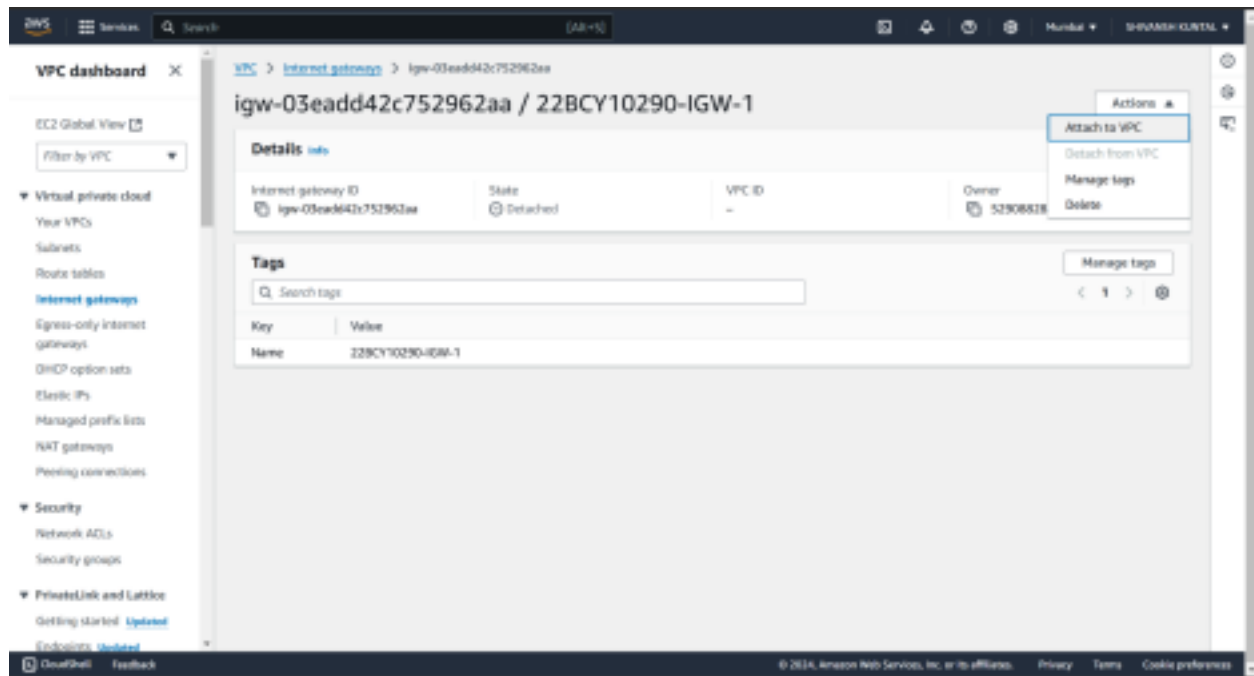


10) CREATE IGW





11) ATTACH INTERNET GATEWAY





12) SUCCESSFULLY ATTACHED OUR IGW



13) CREATE 2 ROUTING TABLES (PUBLIC AND PRIVATE)



**14) EDIT PUBLIC RT BY CLICKING ON ID AND THEN EDIT ROUTES
AND ATTACH IT OUR CREATED IGW**



15) EDIT SUBNET ASSOCIATION



17) CREATE SECOND ROUTING TABLE (PRIVATE)



18) EDIT ITS SUBNET ASSOCIATION



19) CREATE NAT GATEWAY



**20) NOW EDIT ROUTES OF PRIVATE RT AND ATTACH NAT GATEWAY
IN ROUTES**



21) NOW CREATE EC2 INSTANCES (PUBLIC SERVER AND PRIVATE SERVER)





22) SUCCESSFULLY CREATED PUBLIC SERVER



23) CREATE PRIVATE SERVER





24) SUCCESSFULLY CREATED PRIVATE SERVER



25) CREATED 2 EC2 INSTANCES



26) NOW CONNECT TO PUBLIC SERVER



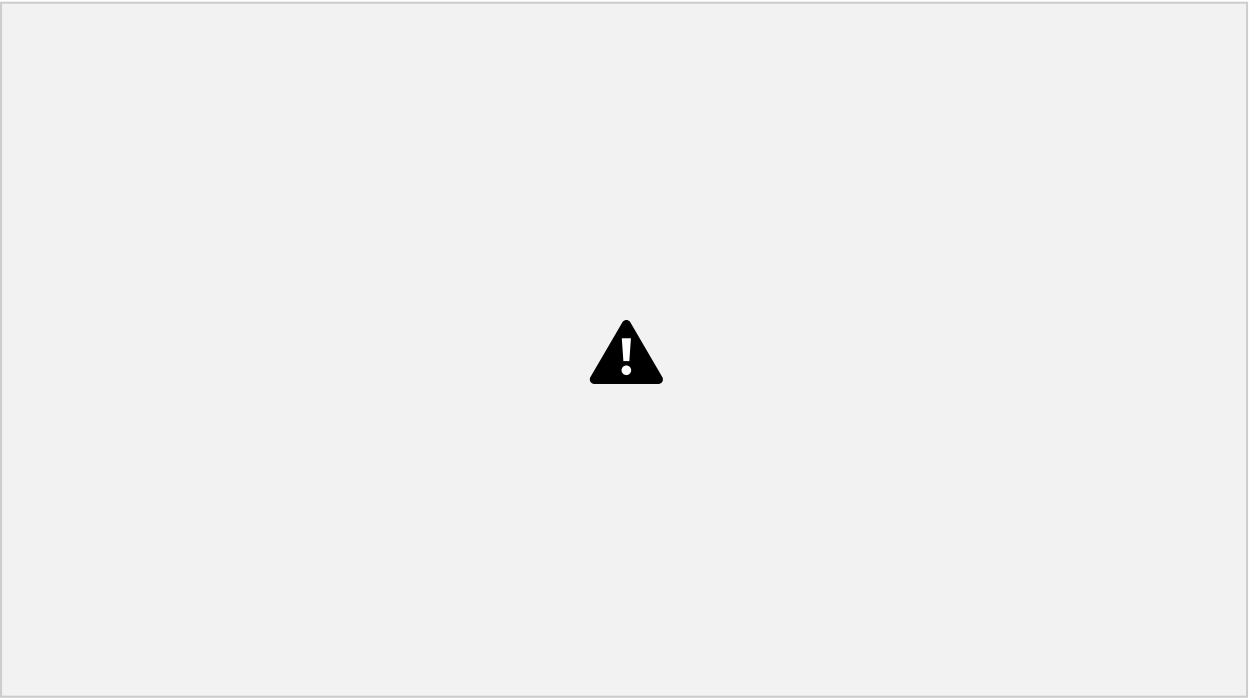
NOTE - COULD NOT ABLE TO CONNECT TO PUBLIC SERVER
27) NOW DELETE ALL THE RESOURCES WE CREATED IN THIS
EXPERIMENT

A)

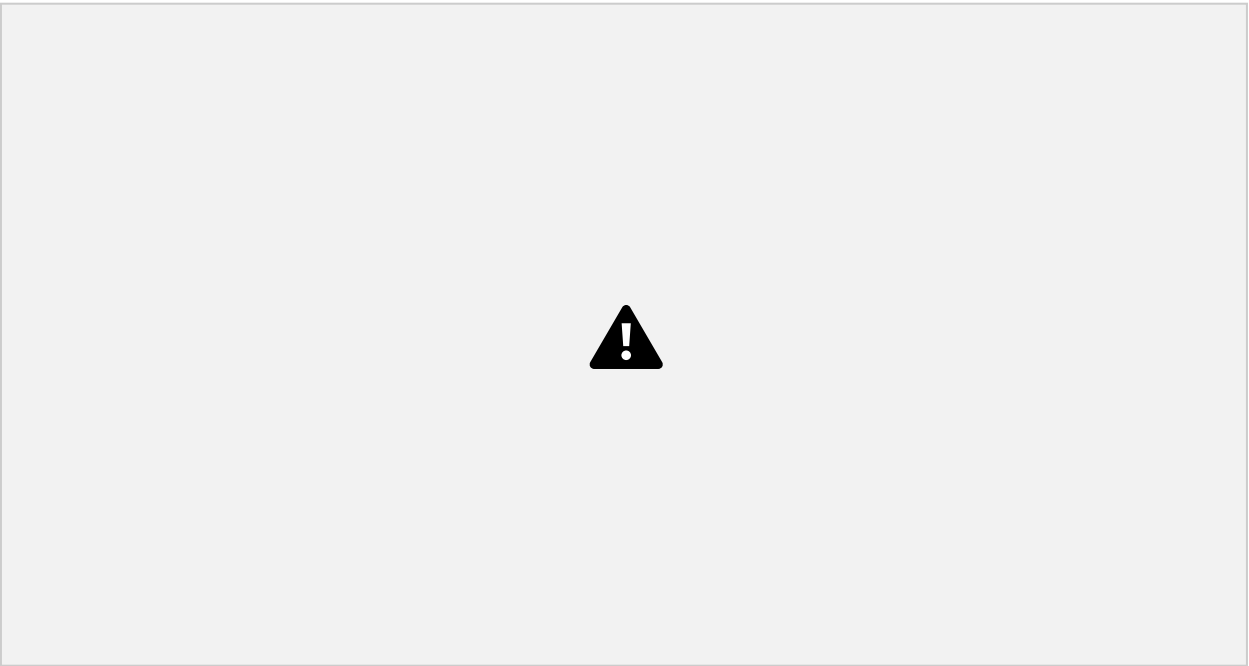


B)





C)

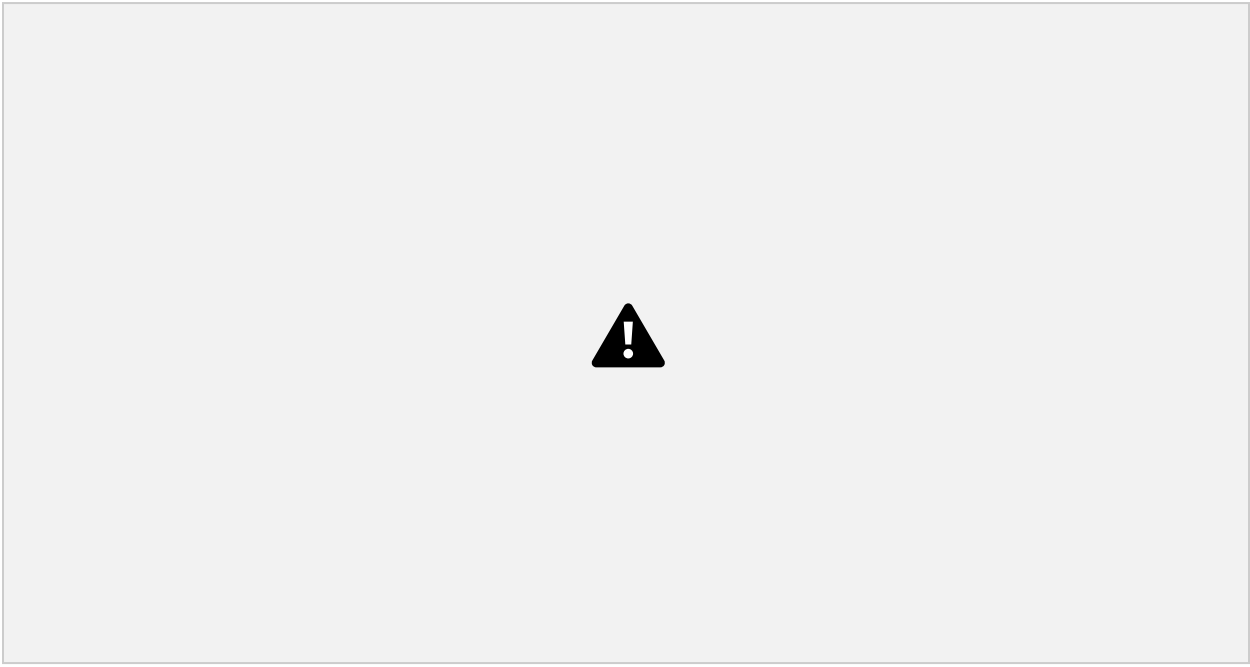


D)

E)



F)



G)

