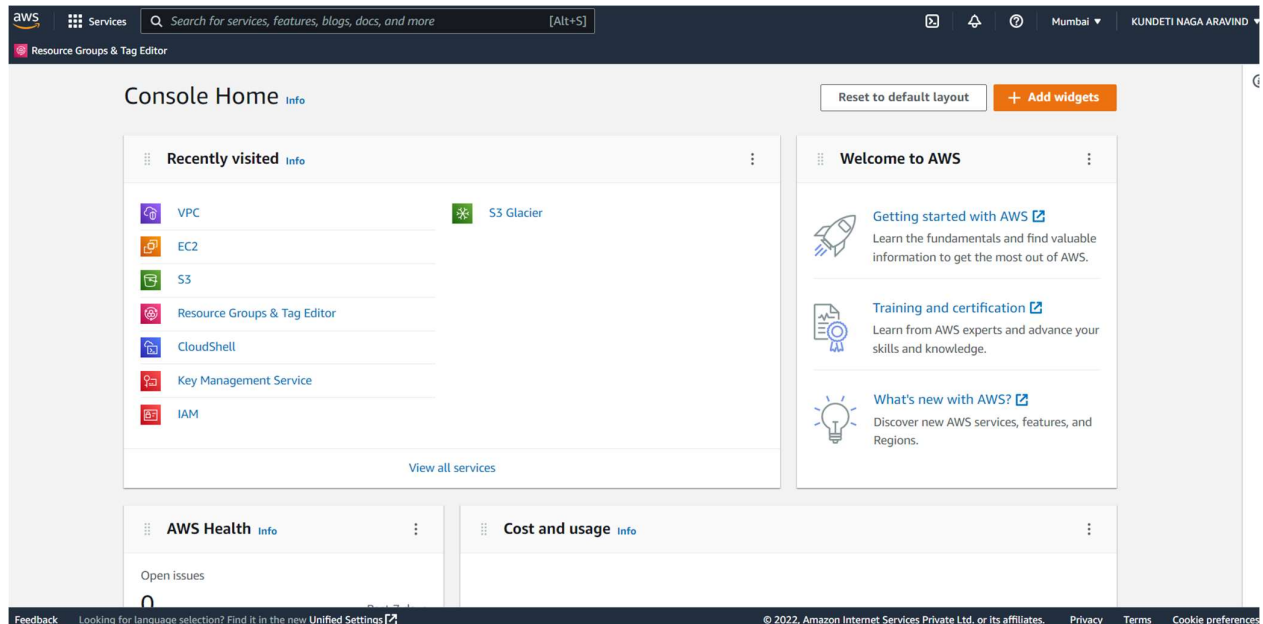


## Experiment 3 - Configuring Virtual Private Cloud VPC & Troubleshoot a VPC

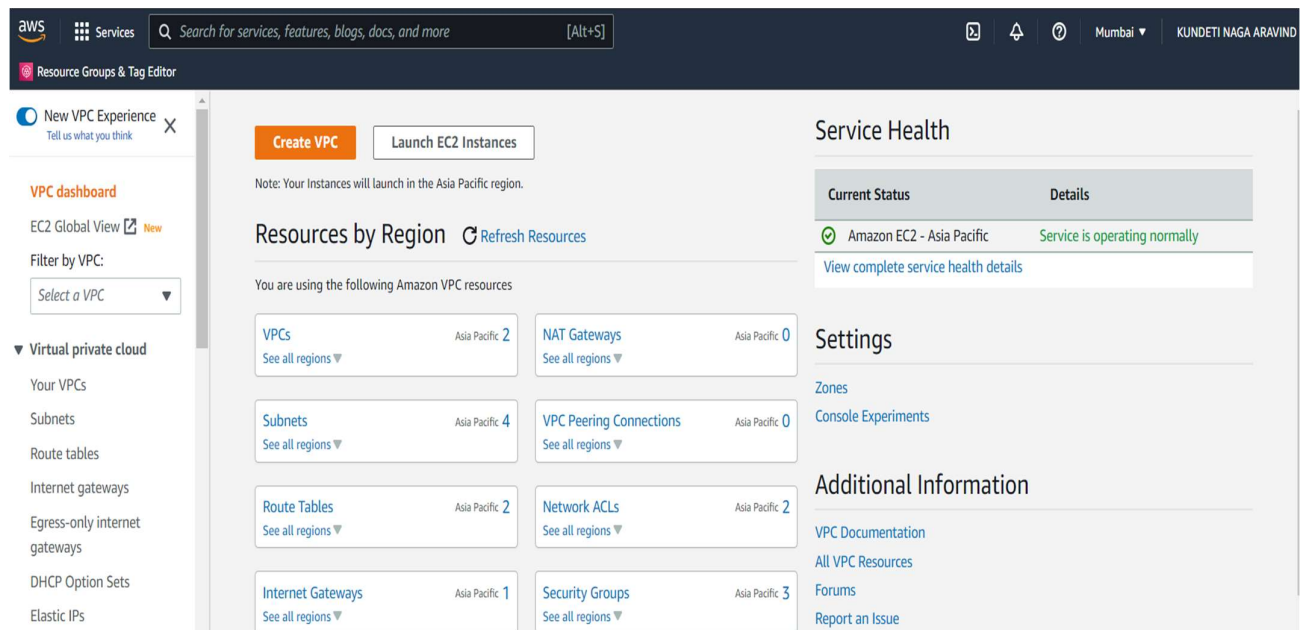
**AIM:** To configure a Virtual Private Cloud VPC & Troubleshoot a VPC

**PROCEDURE:**

1. Firstly, open the AWS console homepage on browser (<https://aws.amazon.com/console/>).

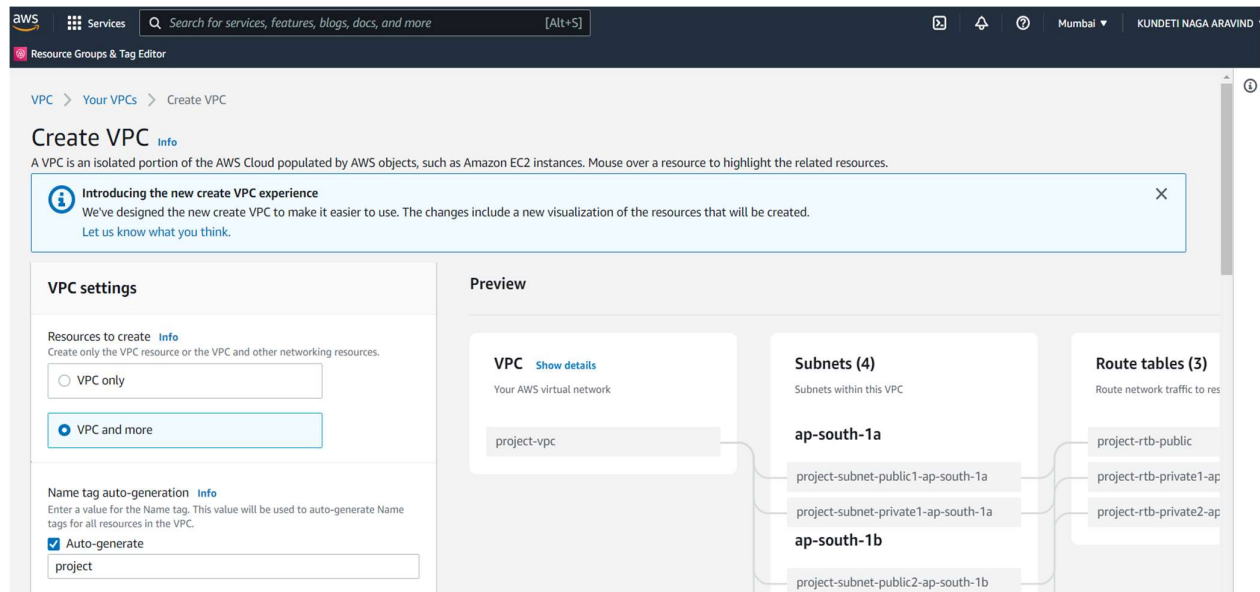


2. Search for VPC in the search bar and open the VPC dashboard page.

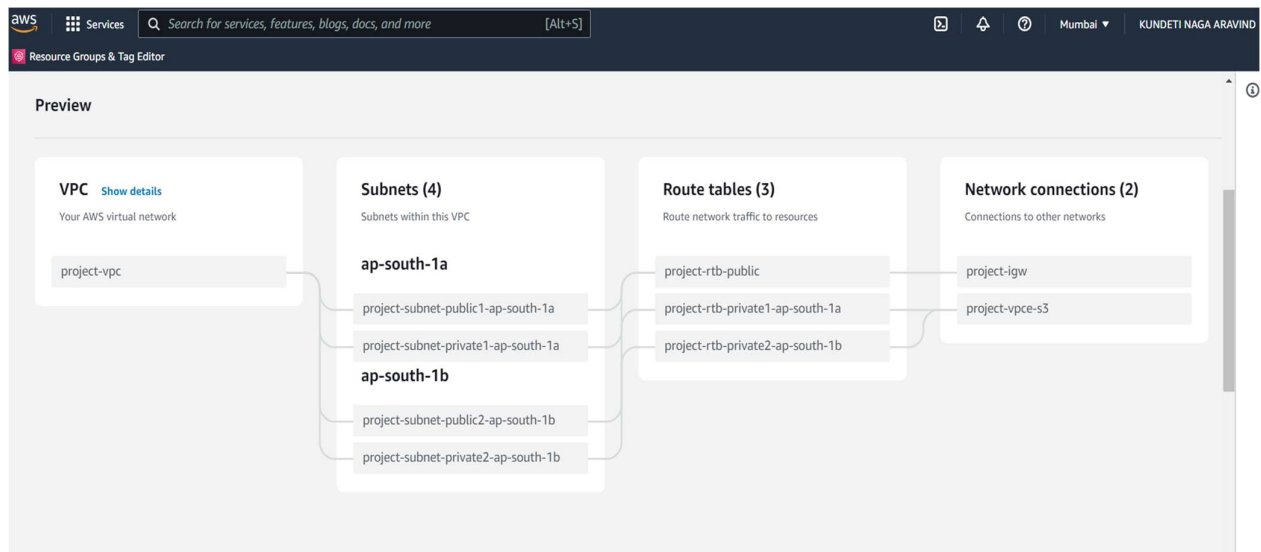


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3. To create a new VPC, click “Create VPC” and go to the Create VPC page.



4. Select the following configurations with appropriate VPC name.



5. Click on “Create VPC” button and wait for your VPC to be created.

**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**  
Creates a tag with a key of 'Name' and a value that you specify.

my-vpc-01

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

IPv4 CIDR  
10.0.0.0/24

**IPv6 CIDR block** [Info](#)  
☒ No IPv6 CIDR block ☐ IPAM-allocated IPv6 CIDR block ☐ Amazon-provided IPv6 CIDR block

6. Click on “View VPC” to view your VPC details.

**vpc-01f3319a9d7d8c067 / my-vpc-03** [Actions](#)

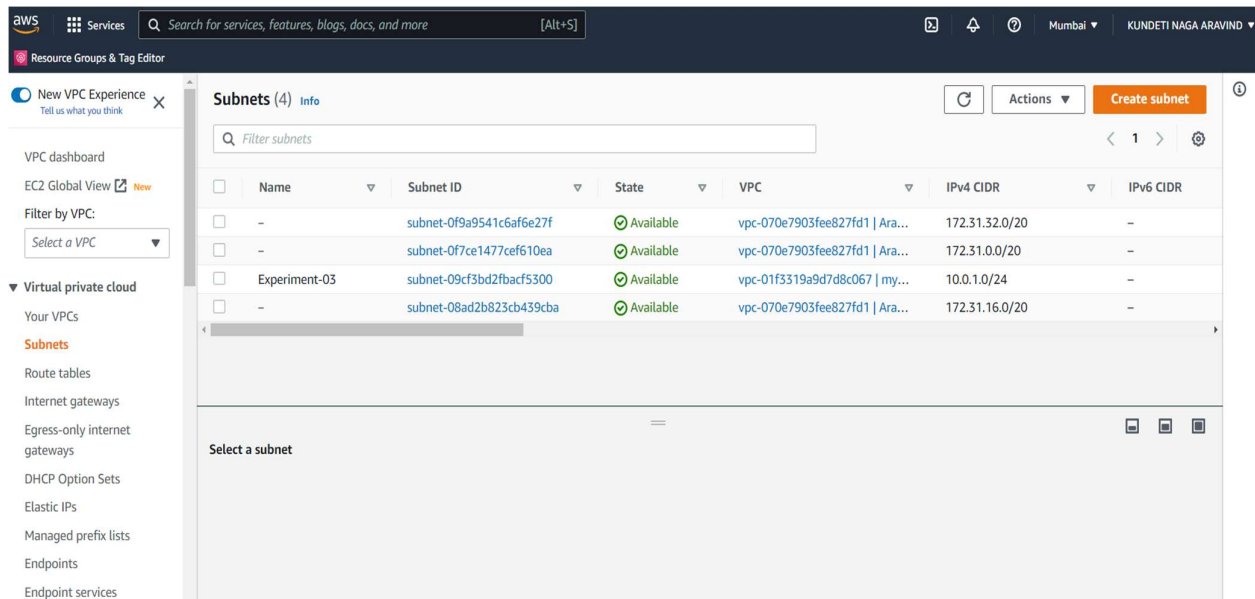
**Details** [Info](#)

VPC ID vpc-01f3319a9d7d8c067	State <span style="color: green;">Available</span>	DNS hostnames Disabled	DNS resolution Enabled
Tenancy Default	DHCP option set dopt-0f9ca0f0358d040b5	Main route table rtb-0e5308f41946cfcfc	Main network ACL acl-08065f927ee16a450
Default VPC No	IPv4 CIDR 10.0.0.0/16	IPv6 pool -	IPv6 CIDR -
Route 53 Resolver DNS Firewall rule groups -	Owner ID 528772518443		

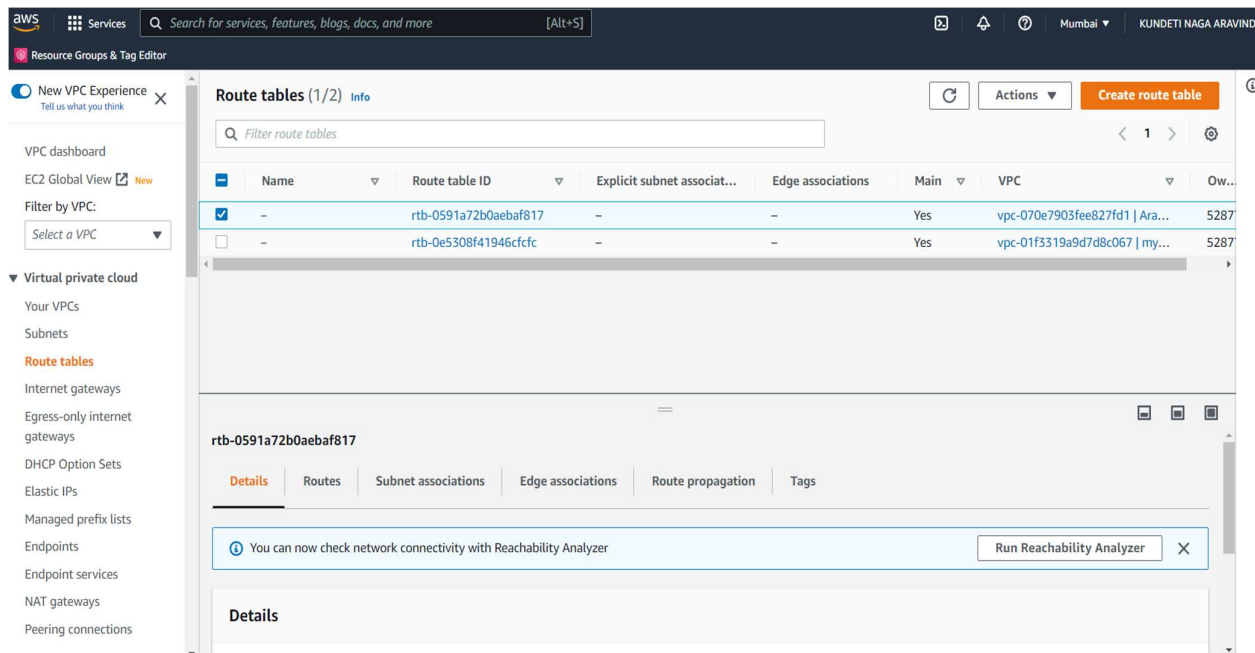
**CIDRs** [Info](#)

Address type	CIDR	Pool	Status
IPv4	10.0.0.0/16	-	<span style="color: green;">Associated</span>

7. Click on “Subnets” in the left side menu to view subnets of your VPC.



8. Click on “Route Tables” in the left side menu to view route tables of your VPC.



9. Click on “Network ACL’s” in the left side menu to view ACLs of your VPC.

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Resource Groups & Tag Editor

Network ACLs (1/2) Info

Filter network ACLs

	Name	Network ACL ID	Associated with	Default	VPC ID	
<input checked="" type="checkbox"/>	-	acl-08065f927ee16a450	subnet-09cf3bd2fbacf5300 / Experiment-03	Yes	vpc-01f3319a9d7d8c067 / my-vpc-03	2
<input type="checkbox"/>	-	acl-07deda449ce6b794f	3 Subnets	Yes	vpc-070e7903fee827fd1 / Aravind	2

acl-08065f927ee16a450

Details Inbound rules Outbound rules Subnet associations Tags

Details

Network ACL ID acl-08065f927ee16a450	Associated with subnet-09cf3bd2fbacf5300 / Experiment-03	Default Yes	VPC ID vpc-01f3319a9d7d8c067 / my-vpc-03
Owner 528772518443			

## RESULT:

A Virtual Private Cloud (VPC) was successfully created and troubleshooted.

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