CLOUD SECURITY & MANAGEMENT LAB

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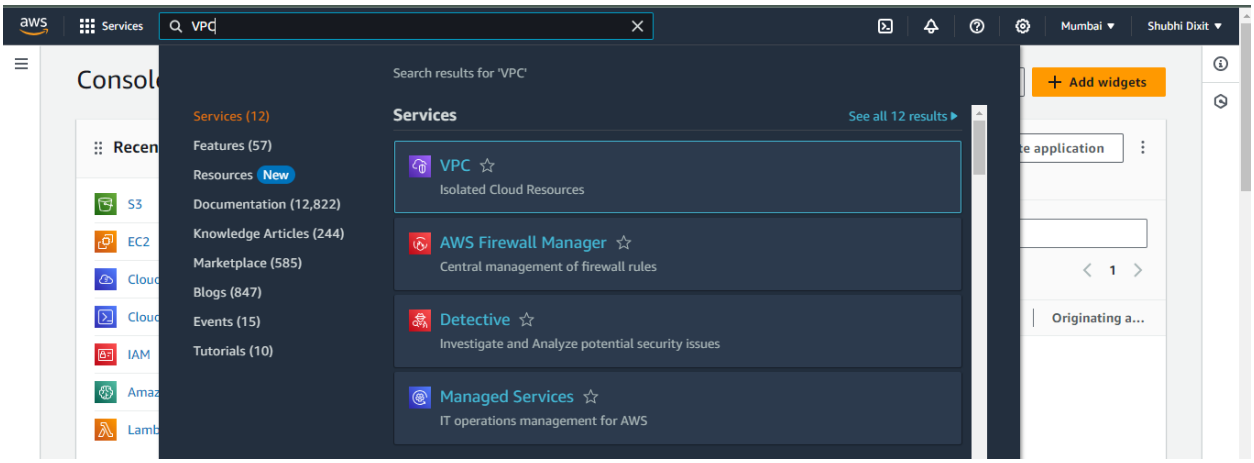
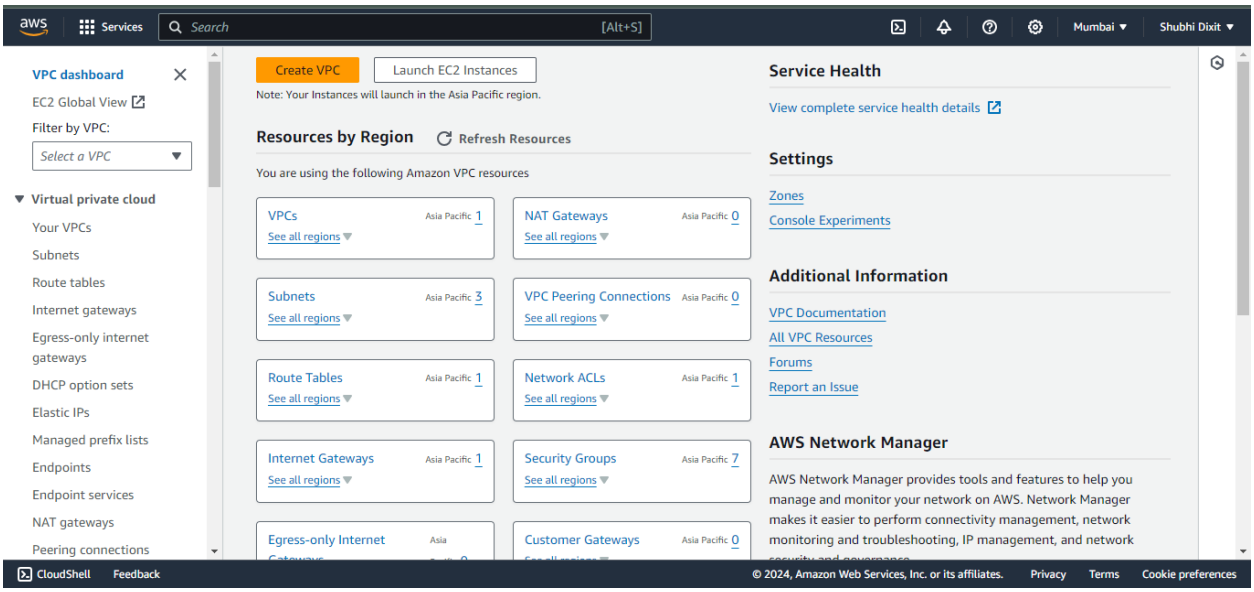
Batch- 05

Statement- Create a Virtual Private Cloud within AWS infrastructure

Step 1: Go to AWS console and search for VPC

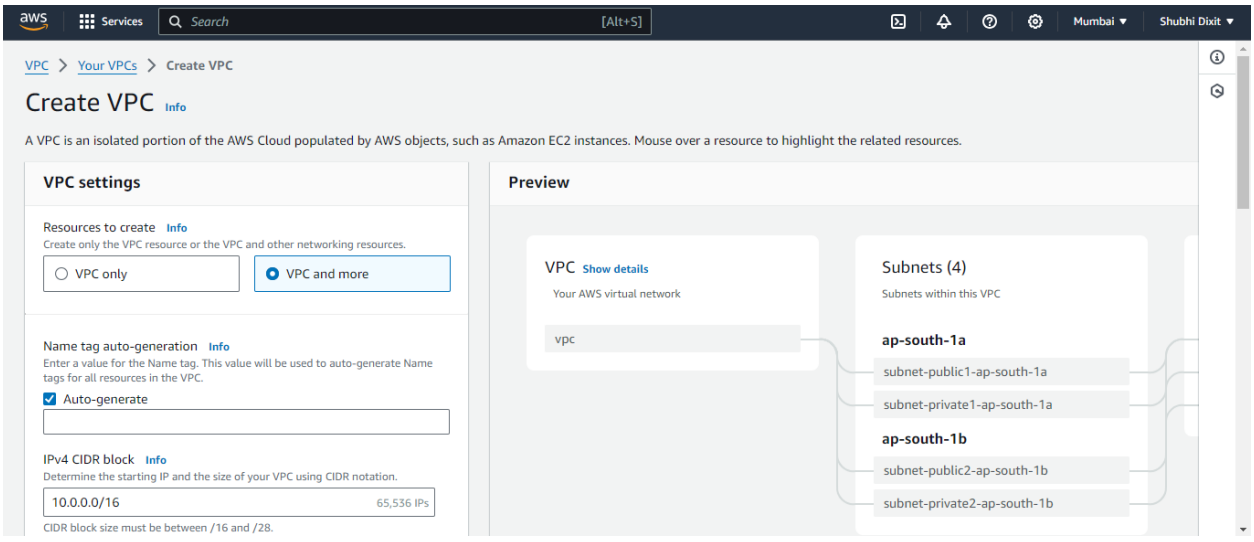


Step 2: Now, click on Create VPC.



Step 3: Here I am creating a VPC in AWS with additional networking options such as private subnets and AZs.

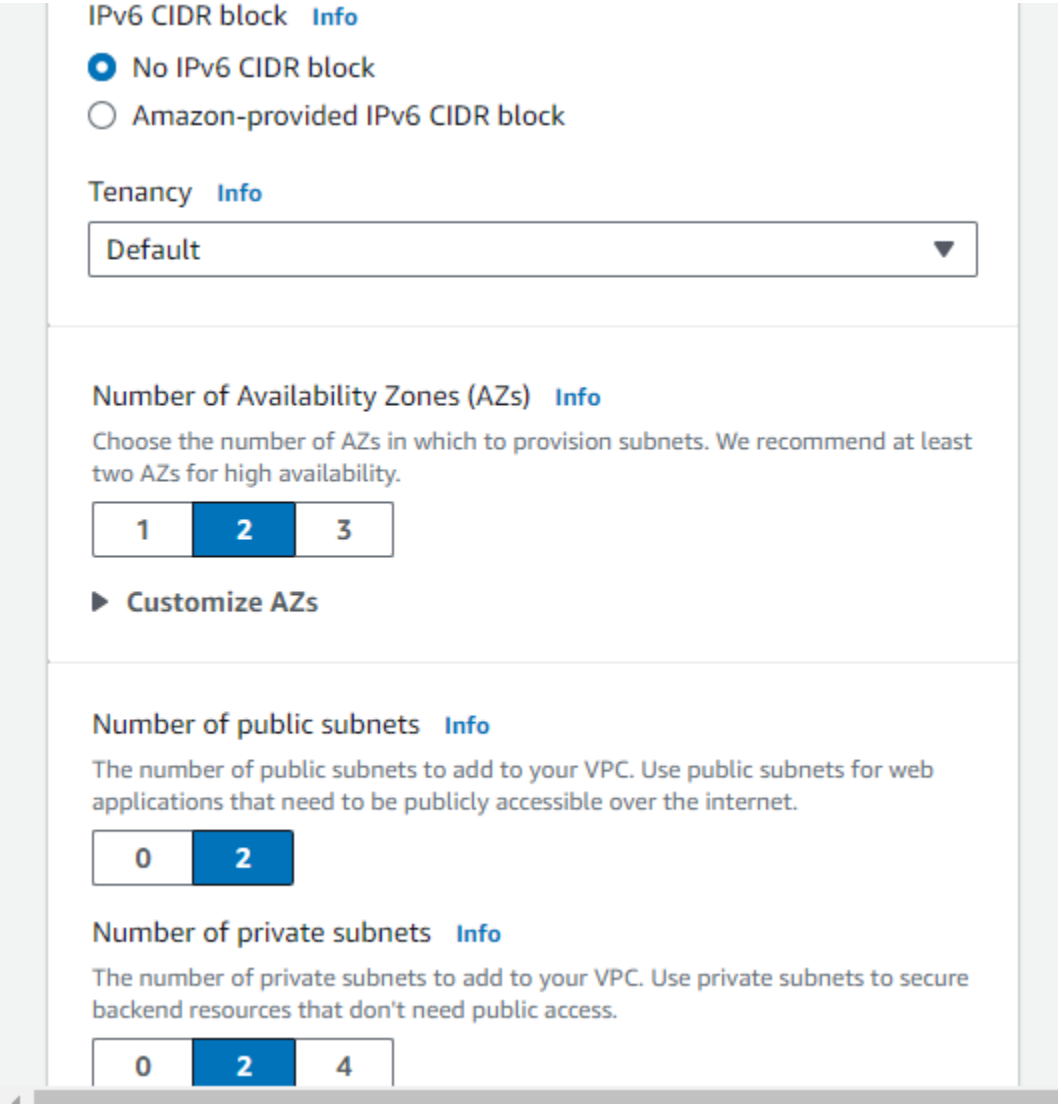
Name your VPC and specify the IP address range for your VPC in CIDR notation. For example, 10.0.0.0/16.



Step 4: Choose the Availability Zone for the subnet and create subnets within the VPC. This time, you'll create both public and private subnets.

Public Subnets: These subnets have a route to an internet gateway (IGW) for internet access.

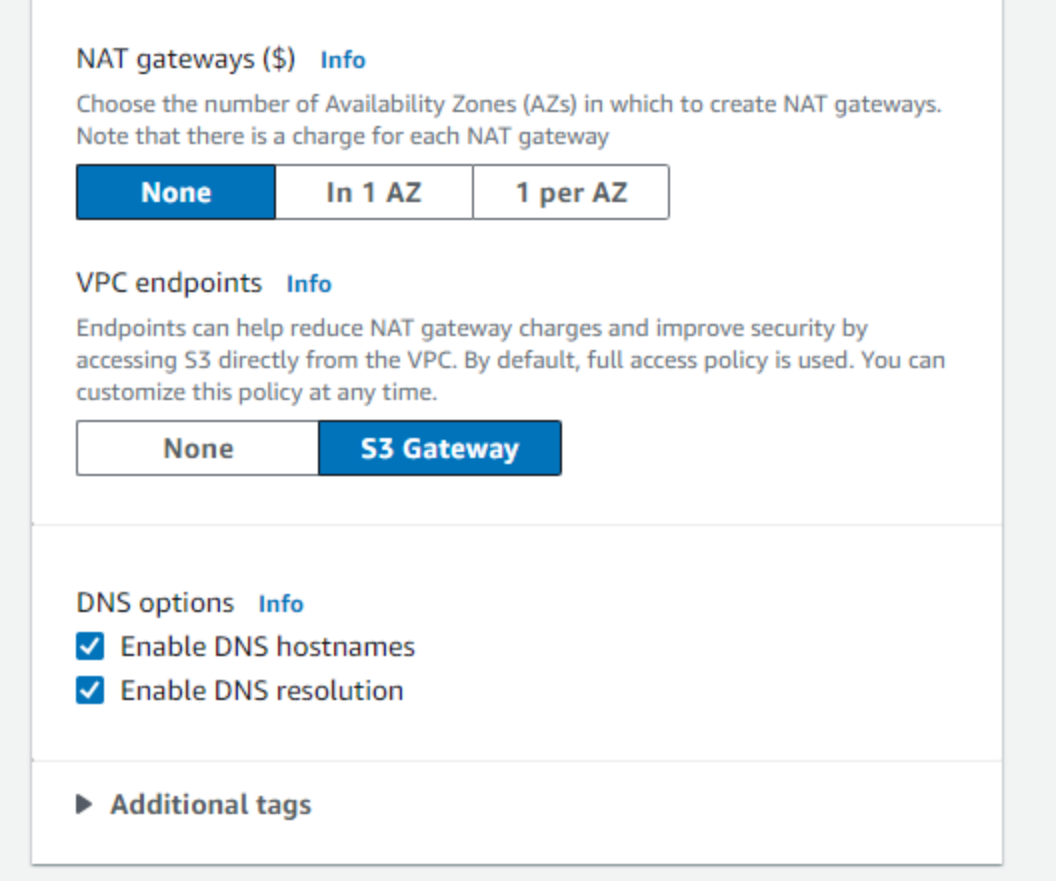
Private Subnets: These subnets do not have a route to an IGW, making them suitable for resources that should not be directly accessible from the internet.



Step 5: Now, choose the availability zone for you NAT gateway and VPC endpoint(optional)

A **NAT (Network Address Translation) Gateway** is a managed service provided by AWS that enables instances in a private subnet to connect to the internet or other AWS services while preventing inbound traffic from initiating a connection with those instances. It acts as a mediator between the private instances and the internet.

A VPC (Virtual Private Cloud) Endpoint is a service provided by AWS that enables private connectivity between your VPC and supported AWS services without requiring internet gateways, NAT devices, VPN connections, or direct peering connections.



Then click on create VPC

The VPC is created.