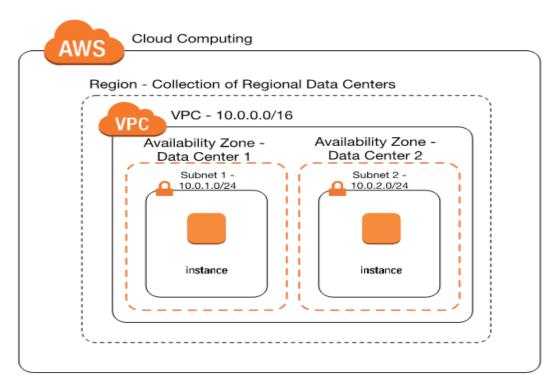
### **Amazon VPC(Virtual Private Cloud)**

<u>VPC:-</u>Amazon Virtual Private Cloud (Amazon VPC) enables you to launch AWS resources into a virtual network that you've defined. A VPC is a virtual private cloud that allows us to create a logical unit of the network where the hardware and resources are managed by the vendor, or the service provides. As users, we are responsible for the configuration and logical setup of the network. A VPC can only be defined within a single region, each VPC can have a number of subnets.

A <u>VPC</u> is a virtual network that closely resembles a traditional network that you'd operate in your own data center.



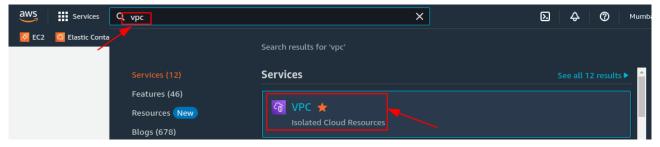
<u>Subnet:</u>-Subnets are used to provide granularity inside the VPC. After you create a VPC, you can add subnets.

Create VPC

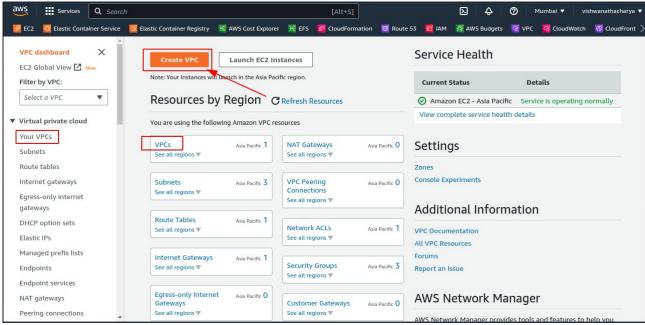
Open AWS Management Console

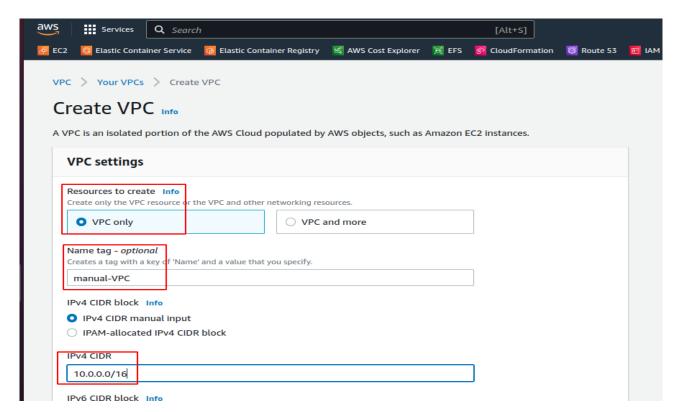
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EC2	Elastic Conta	iner Service	6 Elastic Container Registry	M AWS Cost Explorer	₩ EFS	CloudFormation	Route 53	MAI 🛅	💹 AWS Budgets	☑ VPC	CloudWatch	<b>⊚</b> CloudFrc
		C	Console Home	Info		Reset to d	lefault layout	: -	- Add widgets			0
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			Config			AWS Budget:	s					
			AWS AppConfig			CodeDeploy						
			AWS Cloud Map			© Elastic Conta	iner Service					
			AWS Elastic Disaste	er Recovery								
			AWS Backup									
		View all services										

### Search VPC Resource



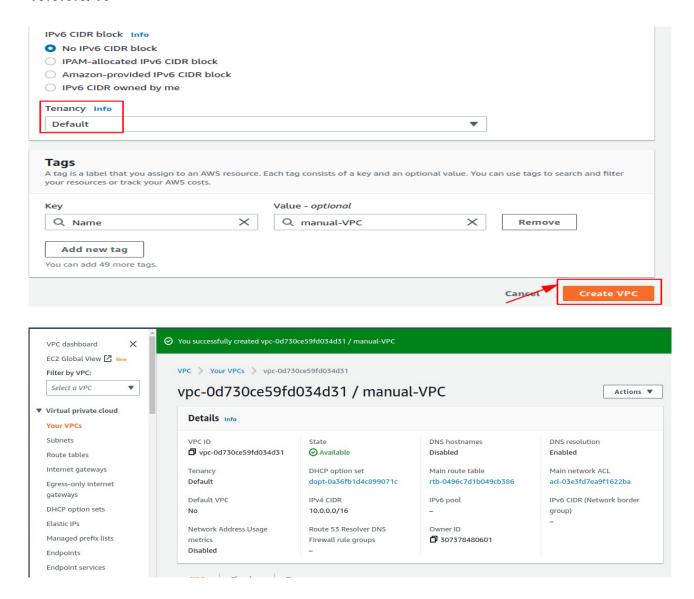
# Open it





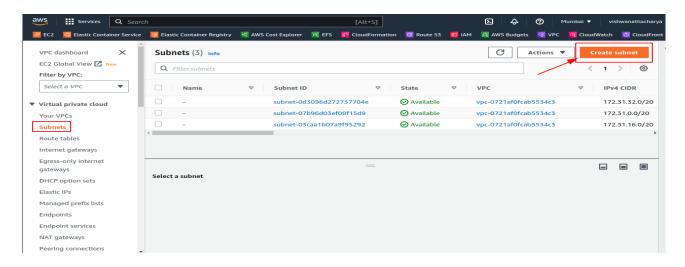
Ipv4 CIDR Classless Inter-Domain Routing (CIDR) block

#### 10.0.0.0/16



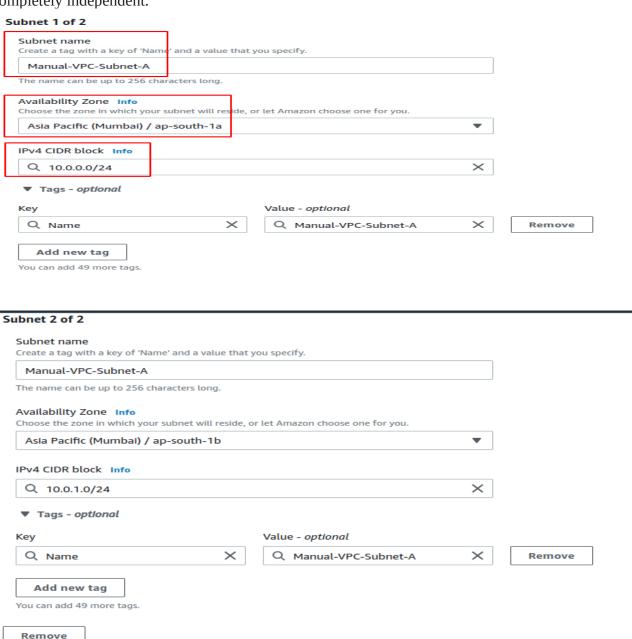
**Subnet:**-A subnet is a range of IP addresses in your VPC. A subnet must reside in a single Availability Zone. After you add subnets, you can deploy AWS resources in your VPC.

### **Create Subnet**





**Availability Zones**:-Availability Zones are distinct locations within an AWS Region that are engineered to be isolated from failures in other Availability Zones. They provide inexpensive, low-latency network connectivity to other Availability Zones in the same AWS Region. Each region is completely independent.



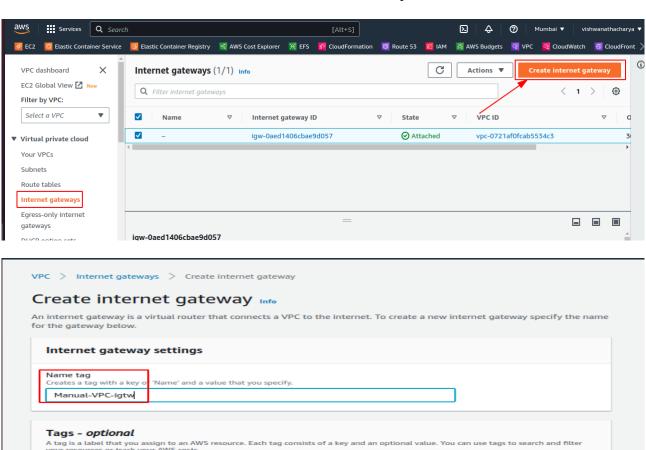
#### Click Create Subnet

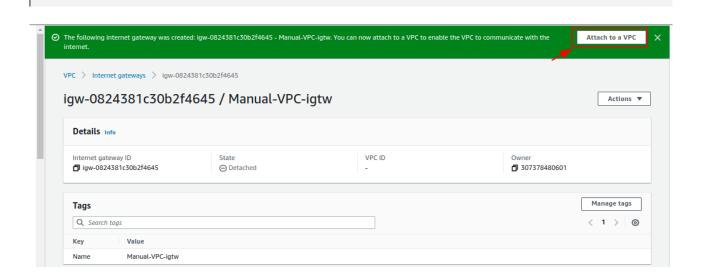
Q Name

Add new tag

**Internet Gateway:**-An internet gateway is a horizontally scaled, redundant, and highly available VPC component that allows communication between your VPC and the internet.

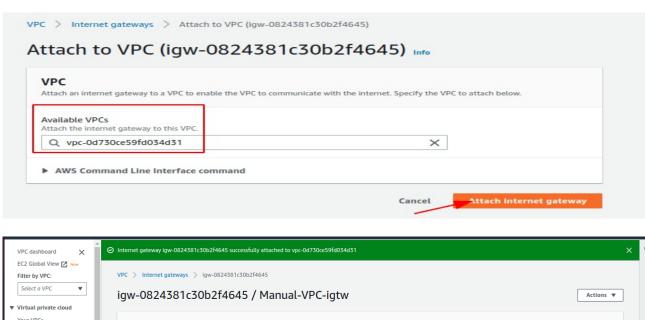
# **Create Internet Gateway**

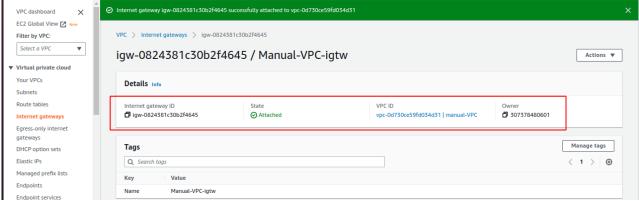




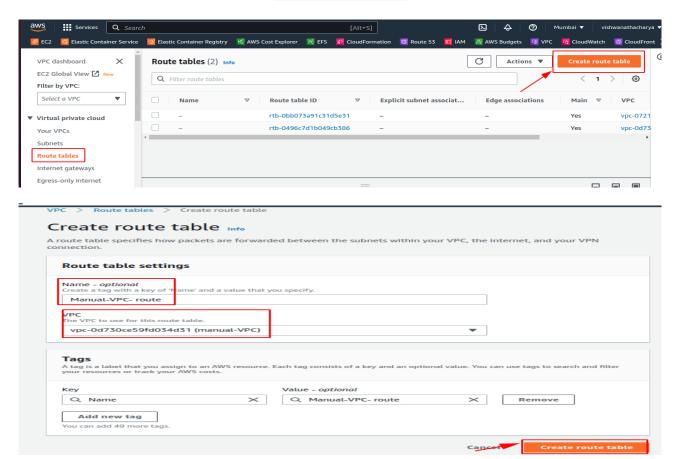
Remove

Cancel

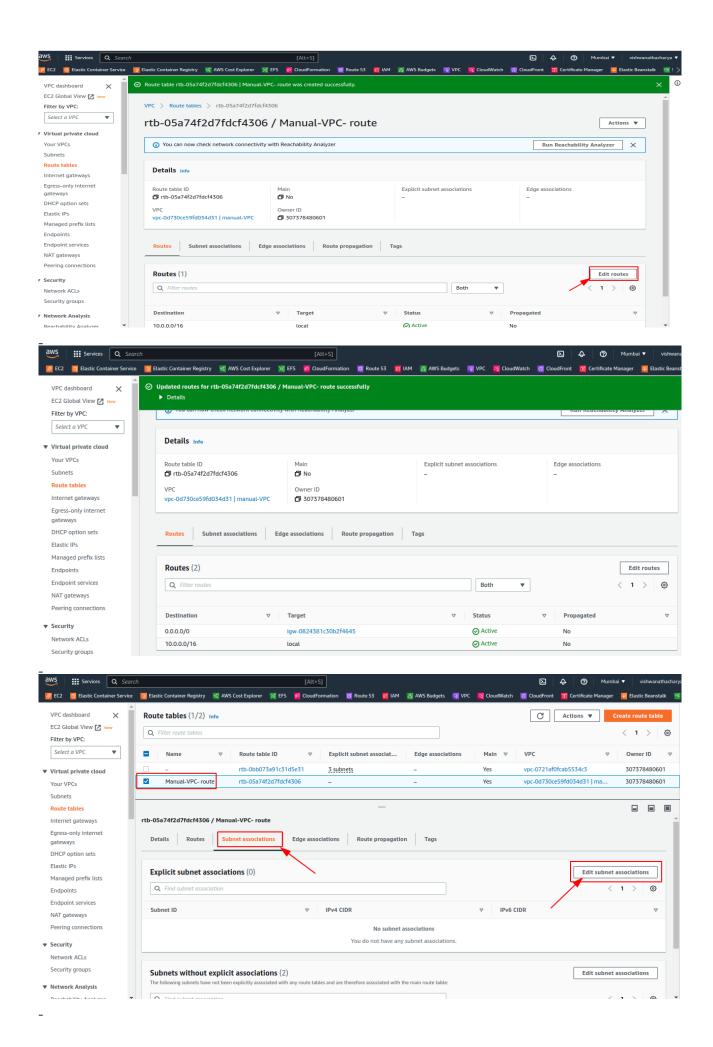


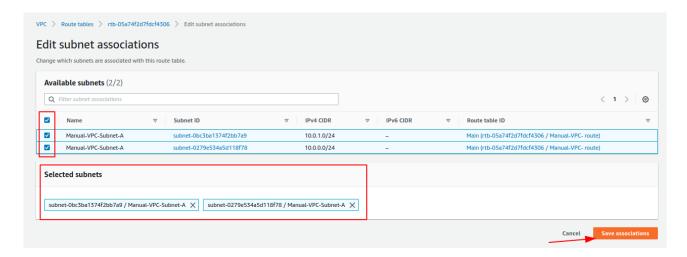


## **Create Route Table**



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IF YOU USE DEFAULT VPC SG SO PLEASE OPEN PORT 22 FORT SSH

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