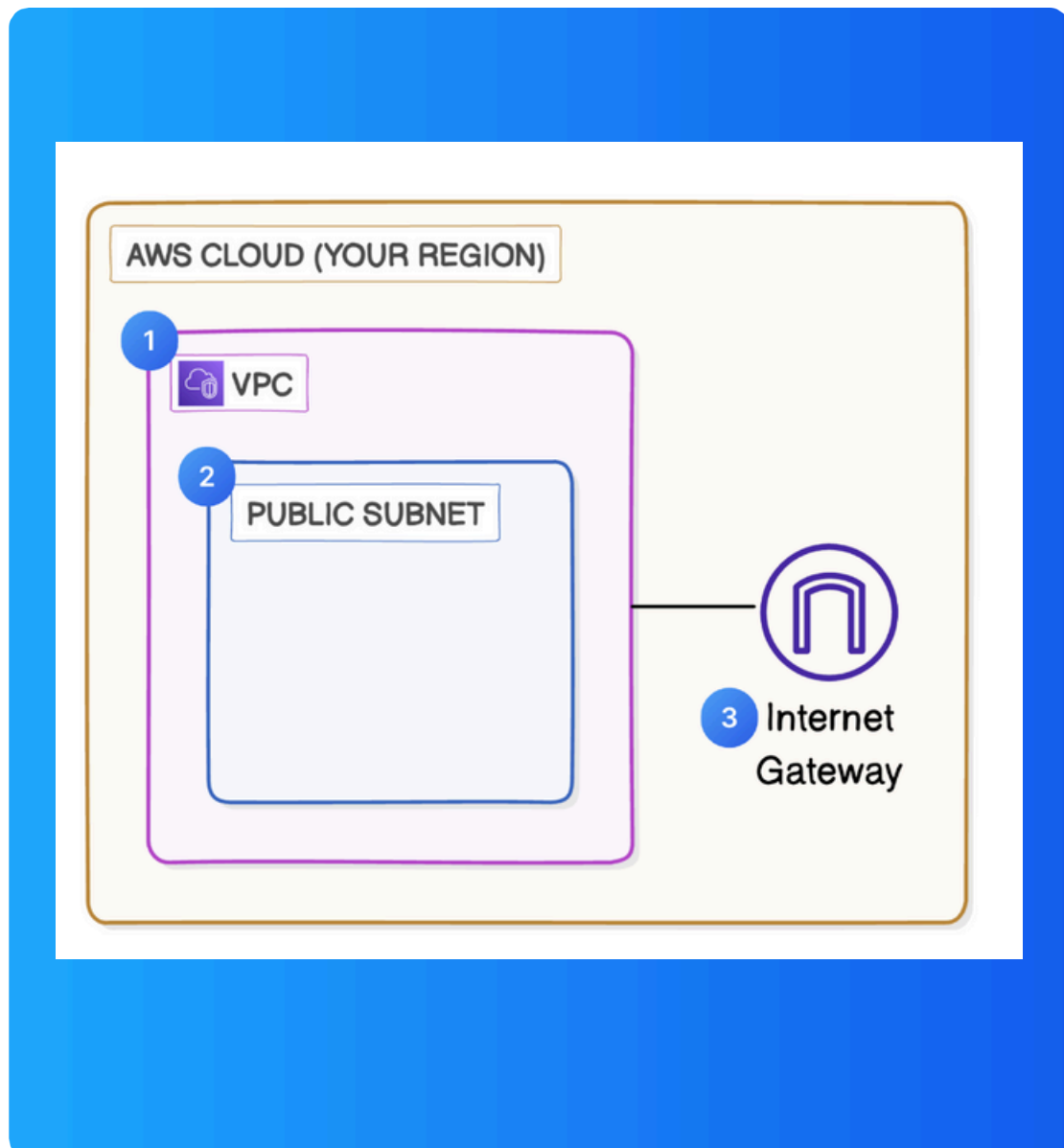




Build a Virtual Private Cloud

 Shridhar Ballal





Introducing Today's Project!

What is Amazon VPC?

Amazon Virtual Private Cloud (VPC) is a customizable network space in AWS that allows you to launch AWS resources in a virtual network. Developers and teams use Amazon VPC because it offers isolation, security, and control over network configurations

How I used Amazon VPC in this project

I'm using Amazon VPC in this project to demonstrate how to create a customizable network space in AWS, set up subnets, and attach an internet gateway.

One thing I didn't expect in this project was...

it was a challenging and a very exciting project

This project took me...

The project took me less than an hour to complete. Documentation took me less than an hour to write as well.



Virtual Private Clouds VPCs

isolated section of the AWS cloud that help to keep my resource private and secure

AWS has set up a default VPC to allow me to deploy resource like EC2 instance/RDS databases right away (without having to create my own VPC from scratch).

a range of IP addresses that my VPC can allocate to the resource deploy into my VPC

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.

my shri vpc

IPv4 CIDR block Info

☒ IPv4 CIDR manual input
☐ IPAM-allocated IPv4 CIDR block

IPv4 CIDR
10.0.0.0/16

CIDR block size must be between /16 and /28.

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



Subnets

subsection of my VPC, just like how neighbourhoods are subsection of city

Availability zone in the Region that I've set up my VPC in since my region is Mumbai (ap-south-1), which has 3 Availability Zone, I had 3 default subnet already

be connected to an internet gateway

Subnets (1/4) Info						Last updated less than a minute ago	Actions	Create subnet
Find resources by attribute or tag								
<input type="checkbox"/>	Name	Subnet ID	State	VPC	IPv4 CIDR			
<input type="checkbox"/>	-	subnet-0dddf327ab87db042	Available	vpc-0e219ba194f9bf5d6	172.31.0.0/20			
<input type="checkbox"/>	-	subnet-0eac69abee96e5603	Available	vpc-0e219ba194f9bf5d6	172.31.16.0/20			
<input type="checkbox"/>	-	subnet-0cdee77d2219eb790	Available	vpc-0e219ba194f9bf5d6	172.31.32.0/20			
<input checked="" type="checkbox"/>	public 1	subnet-000e90a0a52e51892	Available	vpc-0fc0441cbd740e57e my s...	10.0.0.0/24			



Internet gateways

the key VPC component that allows internet access for the resources in my VPC/subnet. An internet gateway is also how users in the public can access my resources in a public subnet.

resources in your VPC can now access the internet. The EC instance with public IP addresses also become accessible to users, so your applications hosted on those servers become public too.

	Name	Internet gateway ID	State	VPC ID	Owner
<input type="checkbox"/>	-	igw-0ec5f174e529200eb	Attached	yvc-0e219ba194f9bf5d6	905418396442
<input type="checkbox"/>	my shri IG	igw-0abd05e375cd05466	Attached	yvc-0fc0441cbd740e57e my shri vpc	905418396442