AWS Project: VPC Setup with Public & Private Subnets
Steps to Set Up a VPC with Public & Private Subnets
1. Create a VPC
Navigate to AWS VPC Console
Click Create VPC \rightarrow VPC only
Set CIDR Block: 10.0.0.0/16
Enable DNS hostname & DNS resolution
2. Create Subnets
Public Subnet:
CIDR Block: 10.0.1.0/24
Enable Auto-assign Public IP
Private Subnet:
CIDR Block: 10.0.2.0/24

3. Create an Internet Gateway & Attach to VPC
Navigate to Internet Gateways
Click Create Internet Gateway \rightarrow Attach it to the VPC
4. Create Route Tables
Public Route Table
Associate with Public Subnet
Add Route: $0.0.0.0/0 \rightarrow \text{Target: Internet Gateway}$
Private Route Table
Associate with Private Subnet
5. Launch EC2 Instances
Public Instance:
Select Public Subnet

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Private Instance:

Select Private Subnet (No Public IP)

6. Security Groups & Key Pair

Create a Security Group:

Allow SSH (22) from your IP for Public Instance

Allow HTTP (80) for web access (if needed)

7. Verify Setup

Connect to Public EC2 via SSH

Test outbound connectivity from private subnet (if needed)

This setup ensures a secure and structured VPC with public and private instances. 🜮