

Name: Tushar Panchal

En.No: 21162101014

**Sub: CCE(Cloud Computing Essentials)** 

**Branch: CBA** 

Batch:71

## 

Zara and her Team Members are associated with a start-up company as a solution architects which provides consultancy solutions on AWS Cloud Platform. They got their project and details as follows:

They have users who are going to work on their project. Task is to create an isolated network for their project using VPC. In three tier architecture there is one web server and one database server given to their team. As per the requirement of Project, they need 2 networks in a single VPC as per below where they want to have 4 different subnets. [2 Public + 2 Private Subnets].

Web Server – 10.0.0.0/24: Public Database – 10. 0.1.0/24: Private

Additional Subnets must be created for VPC that spans multiple

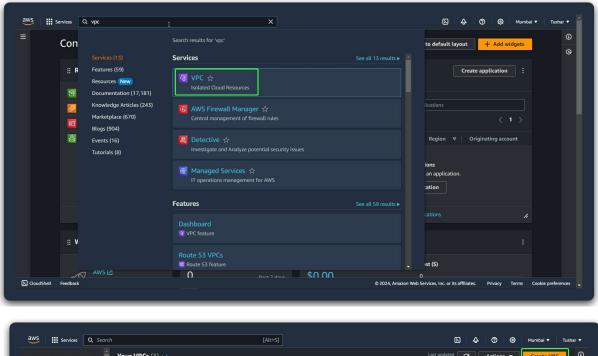
Availability Zones as per below:

Web Server Backup – 10.0.2.0/24: Public Database Backup – 10. 0.3.0/24: Private

#### Tasks to be done:

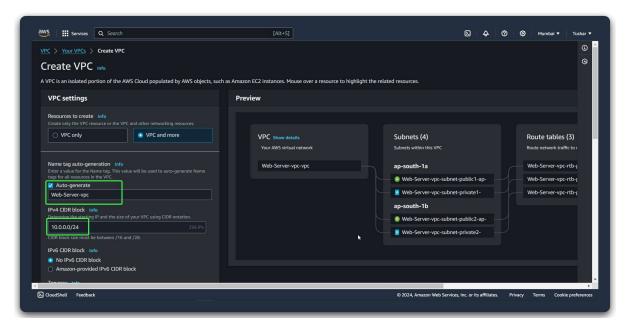
- 1. Create a VPC & Subnets as per attachments.
- 2. Create and configure security group for a) Web Server & b) DB Server.
- 3. Manage inbound traffic for security.

First we have to create the 4vpc.



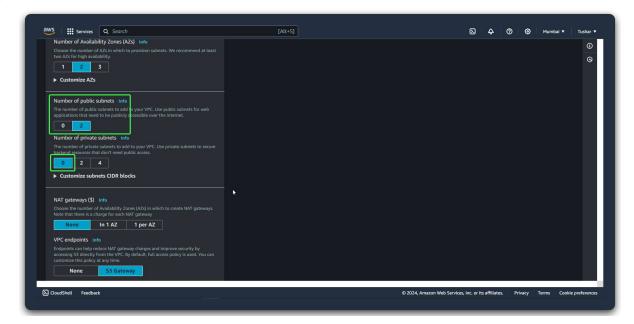


>> Webserver: 10.0.0.0/24 (public):

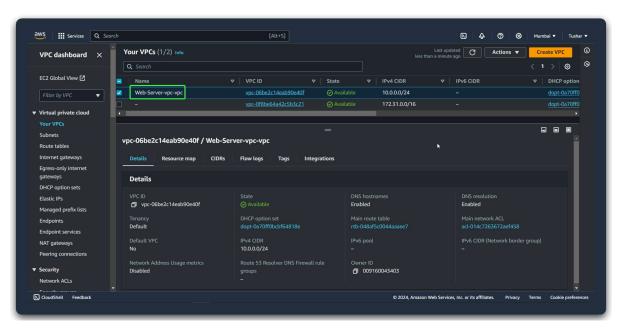


Select the VPC and more and give the name and IPv4 CIDR block

Select the number of private subnets as 0 and public subnets as 2

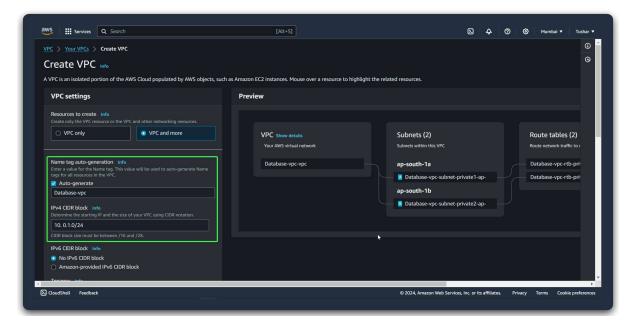


Then hit the create button as you can see below our VPC has been created successfully.

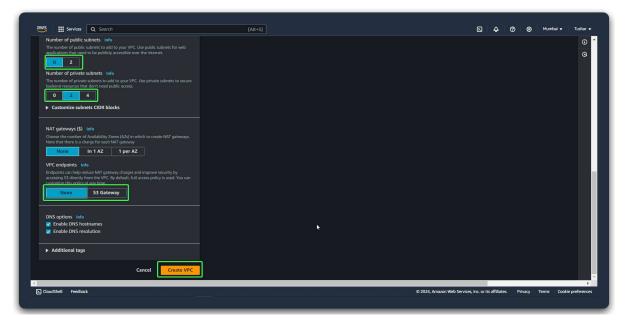


# Database: 10. 0.1.0/24: (private):

Select VPC and more and give the name of the VPC as Database

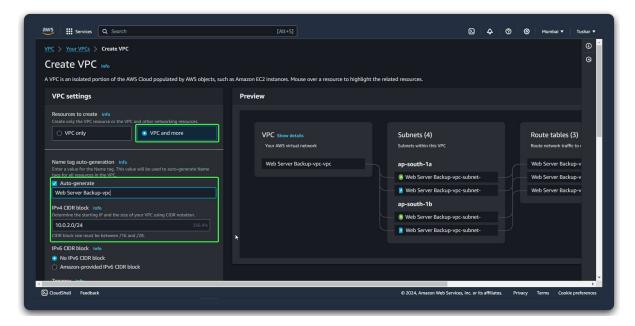


Here select the number of private subnets as 2 and the number of public subnets as 0, and hit the create button

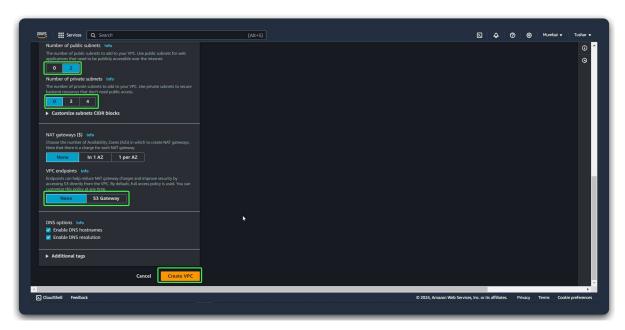


# Webserver-backup: 10. 0.2.0/24: (public):

Select VPC and more and give the name of VPC

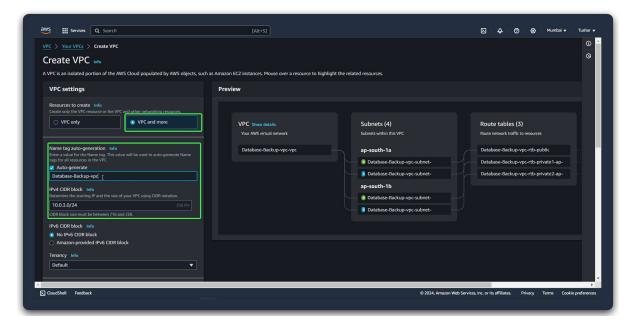


Select the number of private subnets as 0 and public subnets as 2, and hit create button

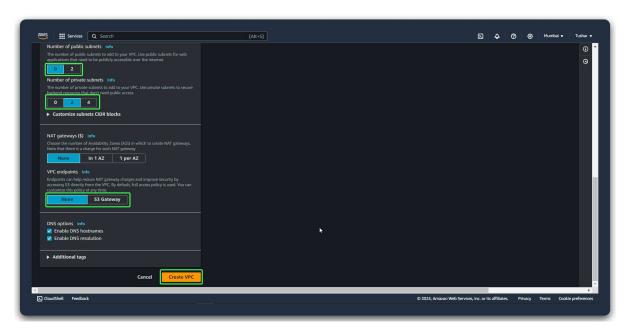


>> Database backup: 10.0.3.0/24: (private):

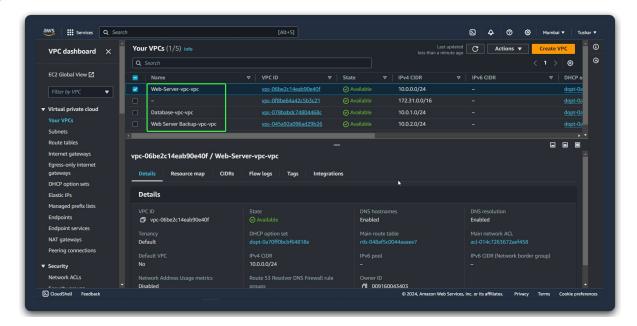
Select the VPC and more and give the name of the vpc



Select number of public subnet as 0 and number of private subnet as 2

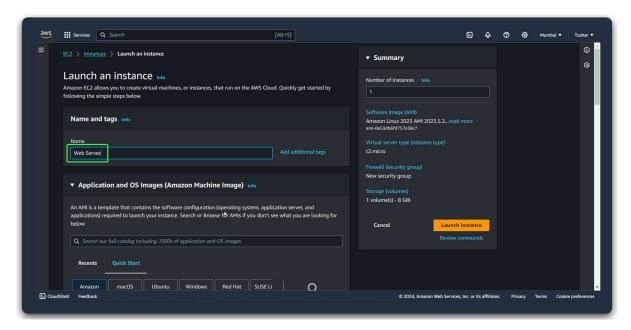


As you can see the all the 4 VPC are there

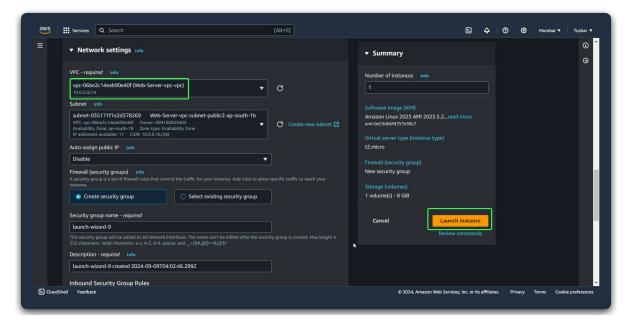


Now create the four instance and connect the cretaed VPc to it

#### Webserver:

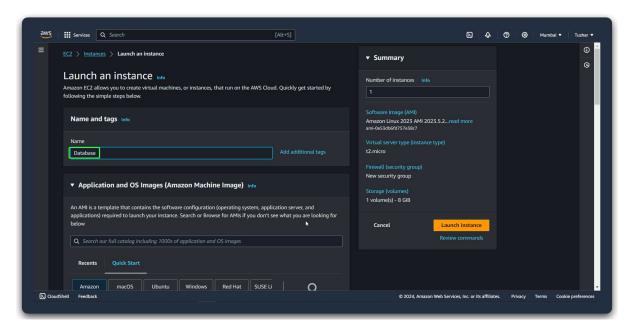


In the network select the Created VPC for the webserver then ,hit launch Instance Button

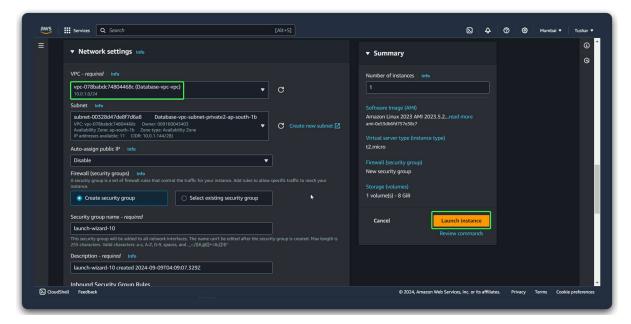


#### » Database:

Create the Second instance with the name of the database

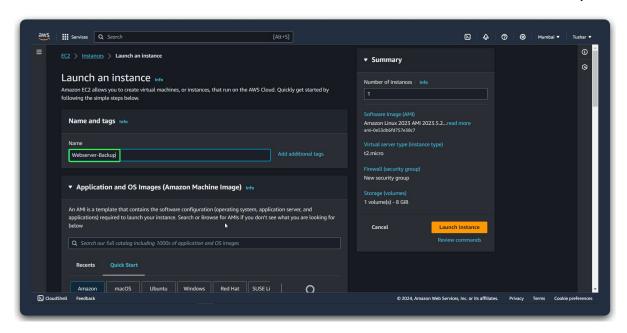


In the network select the Created VPC for the Database ,then hit the Launch instance button

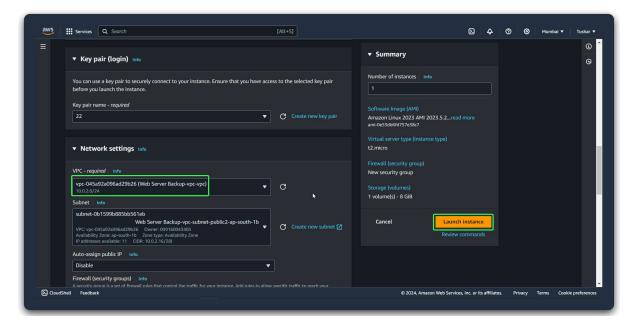


### Webserver-Backup:

Create the third instance with the name of webserver-backup

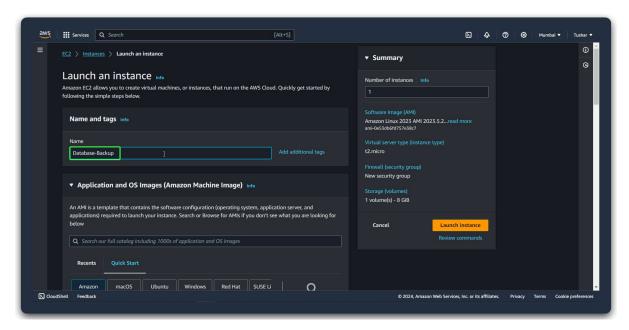


In the network select the Created VPC for the webserver backup ,then hit the Launch instance button

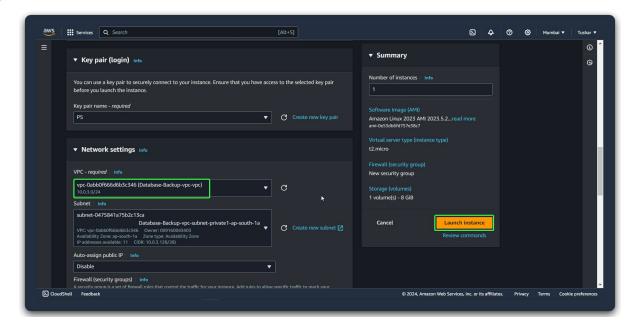


### Database-Backup:

Create the fourth instance with the name of database-backup



In the network select the Created VPC for the Database-backup, then hit the Launch instance button



Now as you can see all the Instances have Launched successfully:



Here we can see all the instances are connected with their VPC

