

## Assignment 7

### Problem Statement:

Working for an organization, you are required to provide them a safe and secure environment for the deployment of their resources. They might require different types of connectivity. Implement the following to fulfil the requirements of the company.

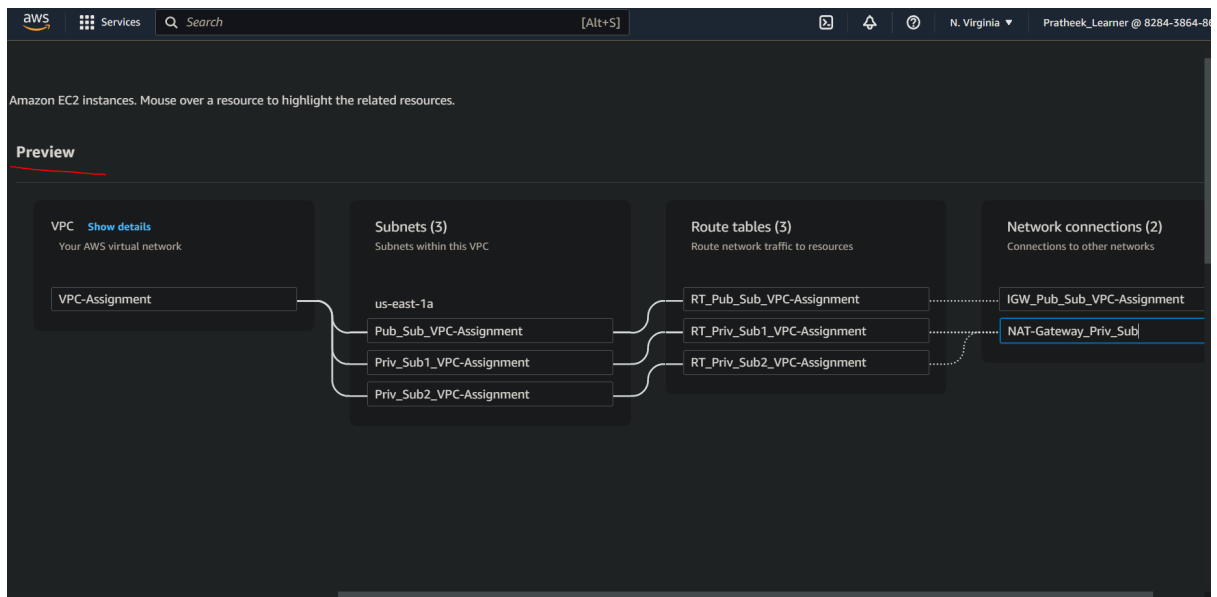
### Tasks To Be Performed:

1. Create a VPC with 120.0.0.0/16 CIDR block.
2. Create 1 public subnet 2 private subnets and make sure you connect a NAT gateway for internet connectivity to a private subnet.

### Solution:

Step 1:- Go to the VPC section & select VPC & more for creation of VPC with the given CIDR block & to create the necessary resources as mentioned attached to it.

The screenshot shows the AWS Management Console 'Create VPC' page. The 'VPC settings' section is expanded, showing 'Resources to create' with two options: 'VPC only' and 'VPC and more'. The 'VPC and more' option is selected. Below this, the 'Name tag auto-generation' section is visible, with a checkbox for 'Auto-generate' and a text input field. The 'IPv4 CIDR block' section shows the selected CIDR block '120.0.0.0/16' and the number of IP addresses '65,536 IPs'. The 'IPv6 CIDR block' section shows two options: 'No IPv6 CIDR block' (selected) and 'Amazon-provided IPv6 CIDR block'. The 'Tenancy' section shows a dropdown menu with 'Default' selected.



Step 2:- VPC creation & it's associated resources as required are successfully created.

## Create VPC workflow

✔ Success

### ▼ Details

- ✔ Create VPC: [vpc-0d51c08a6d57317c5](#)
- ✔ Enable DNS hostnames
- ✔ Enable DNS resolution
- ✔ Verifying VPC creation: [vpc-0d51c08a6d57317c5](#)
- ✔ Create subnet: [subnet-0131518abdb2d68b2](#)
- ✔ Create subnet: [subnet-0b8d9f558face93f8](#)
- ✔ Create subnet: [subnet-0bbcd6a898499f0e9](#)
- ✔ Create internet gateway: [igw-0f0d632de050dbb4e](#)
- ✔ Attach internet gateway to the VPC
- ✔ Create route table: [rtb-08424c394cd808a7d](#)
- ✔ Create route
- ✔ Associate route table
- ✔ Allocate elastic IP: [eipalloc-03a6aa43c4fade693](#)
- ✔ Create NAT gateway: [nat-07e4fc14367d6e02c](#)
- ✔ Wait for NAT Gateways to activate
- ✔ Create route table: [rtb-07fdce897385690f6](#)
- ✔ Create route
- ✔ Associate route table
- ✔ Create route table: [rtb-0c18fe1f8d5a36d7b](#)
- ✔ Create route
- ✔ Associate route table
- ✔ Verifying route table creation