Devops Assignment-3
Praveen Kumar Chukkapalli

Creating a new VPC in AWS :

→ **CIDR Range is** *10.0.0.0/16* **which gives** $65,536$ **usable Ip's**

Done with new VPC Creation

Devops Assignment-3
Praveen Kumar Chukkapalli

Defining Subnets in the created VPC :
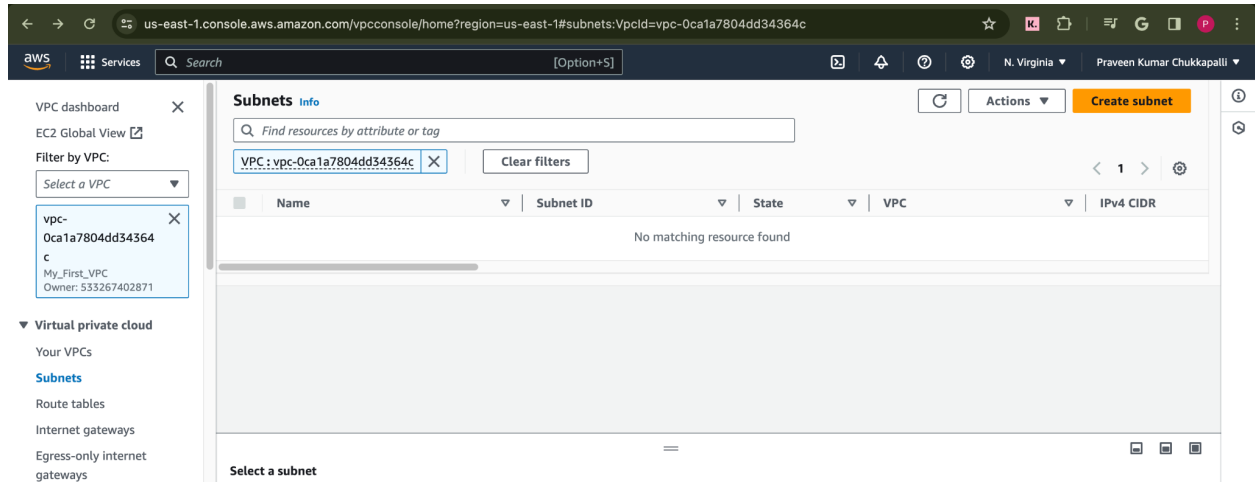
Creating Subnet -1 with subnet CIDR Range (10.0.0.0/24):

Devops Assignment-3
Praveen Kumar Chukkapalli

Creating subnet-2 with CIDR Range (10.0.1.0/24): :

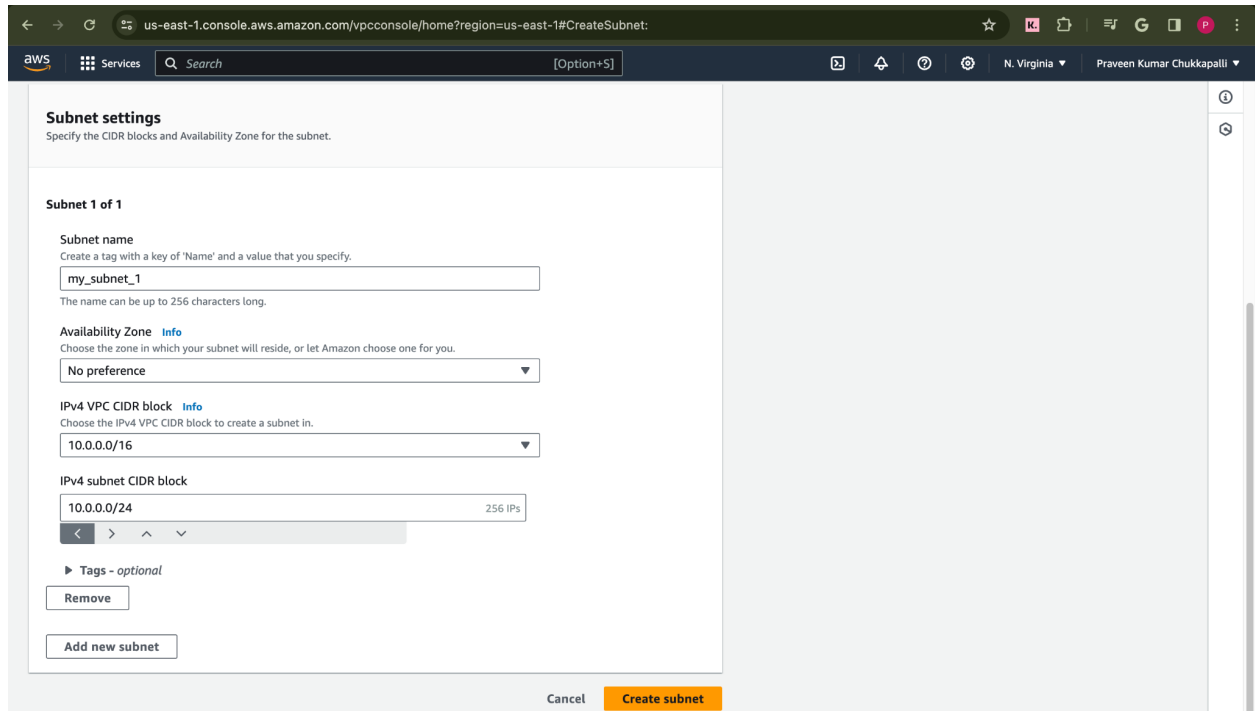Two Subnets have been created within the created VPC and each subnet usable IP's are 251 (should be 256) as first 4 and last IP address of CIDR range will be reserved by AWS.

Devops Assignment-3

Praveen Kumar Chukkapalli

Agile vs DevOps

Agile:

- Focus primarily on iterative development and incremental delivery of software.
- Agile is mainly a development methodology.
- Its primary Goal is to deliver a high-quality product through frequent releases and customer feedback.

DevOps:

- Focus primarily on Collaboration and automation across the entire software development lifecycle.
- DevOps includes both development and operations.
- Its primary Goal is to achieve faster, more reliable software delivery through continuous integration and deployment(CI/CD).

DevOps KPI's :

Key Performance Indicators (KPIs) in DevOps are crucial for measuring the efficiency, effectiveness, and overall success of the development and operations processes. Some of the Popular KPI's are :

1. Deployment Frequency
2. Lead Time for Changes
3. Mean Time to Recover (MTTR)
4. Change Failure Rate
5. Deployment Success Rate
6. Infrastructure as Code (IaC) Compliance
7. Code Churn
8. Test Automation Coverage etc.