

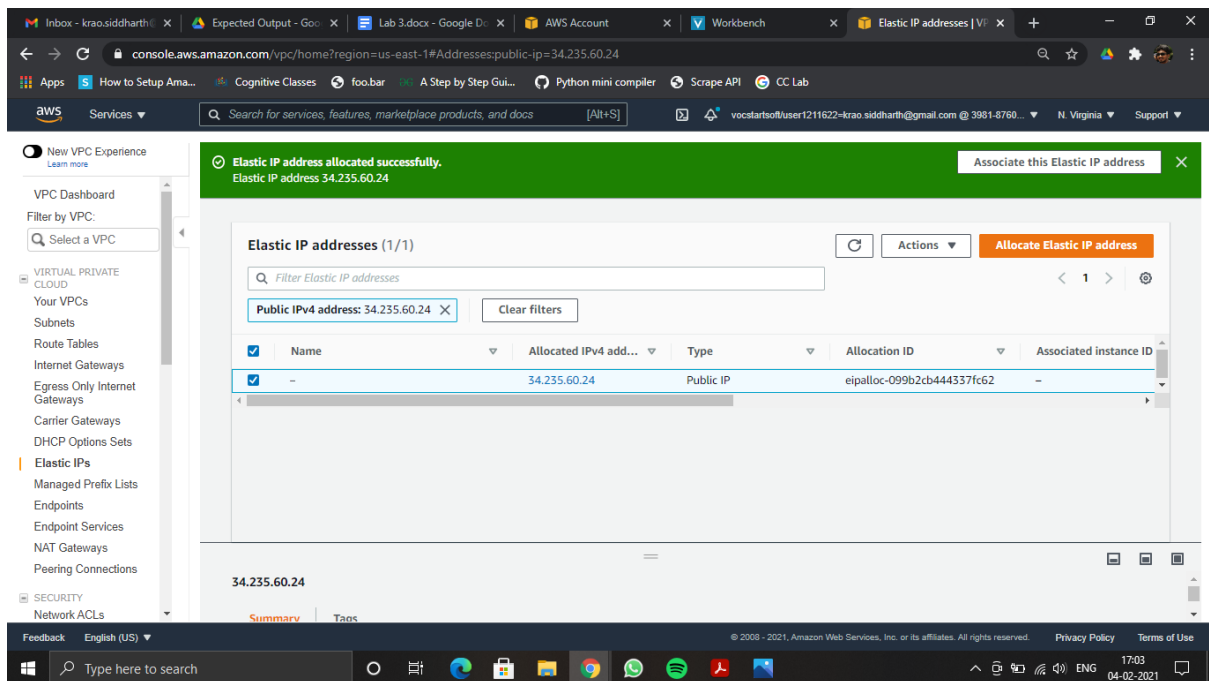
# CLOUD COMPUTING LAB: WEEK 3

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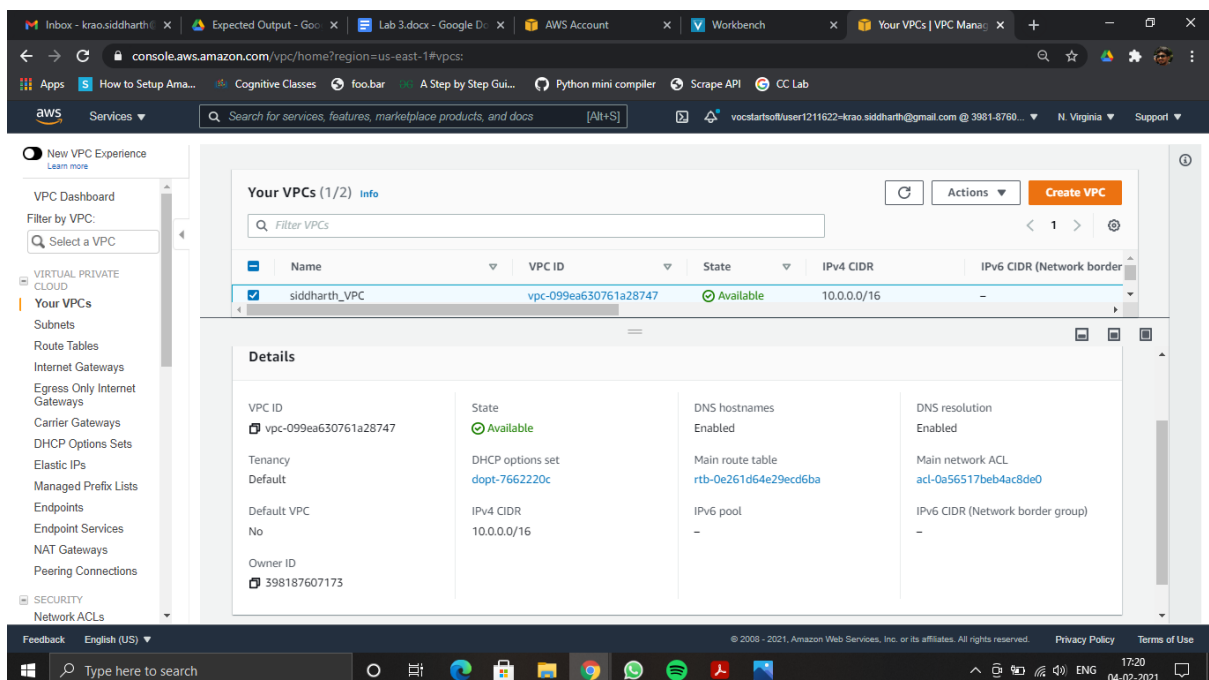
Siddharth K Rao

- 1.) Create Virtual Private Cloud Network, create subnets across availability zones, understand connectivity within and between subnets. Understanding NAT, ACLs and Routing Tables.

## 1.1) Create an Elastic IP Address: 3a



## 1.2) Create a VPC: 3b



### 3c: Subnet Details

The screenshot shows the AWS Management Console interface for the 'Subnets' page. The left sidebar contains navigation links for VPC Dashboard, Subnets, Route Tables, Internet Gateways, Egress Only Internet Gateways, Carrier Gateways, DHCP Options Sets, Elastic IPs, Managed Prefix Lists, Endpoints, Endpoint Services, NAT Gateways, Peering Connections, Network ACLs, and Security Groups. The main content area displays a table of subnets with columns for Name, Subnet ID, State, VPC, and IPv4 CIDR. The table lists eight subnets, all in an 'Available' state. Below the table, there is a 'Select a subnet' button.

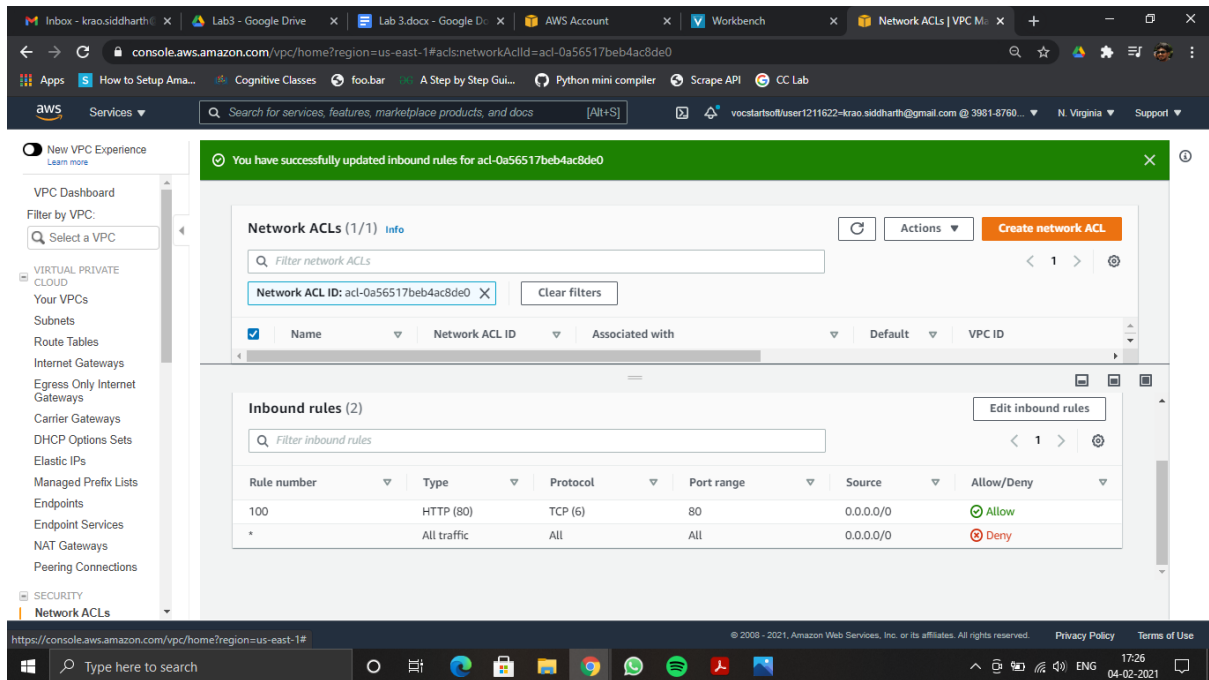
Name	Subnet ID	State	VPC	IPv4 CIDR
Public subnet	subnet-02bdb233be97107e5	Available	vpc-099ea630761a28747   sid...	10.0.0.0/24
-	subnet-e3e8b3ae	Available	vpc-3294334f	172.31.16.0/20
Private subnet	subnet-04c75a7f4b8085125	Available	vpc-099ea630761a28747   sid...	10.0.1.0/24
-	subnet-0f68e369	Available	vpc-3294334f	172.31.0.0/20
-	subnet-25d04104	Available	vpc-3294334f	172.31.80.0/20
-	subnet-b9a37d88	Available	vpc-3294334f	172.31.48.0/20
-	subnet-68079337	Available	vpc-3294334f	172.31.32.0/20
-	subnet-a4d79aaa	Available	vpc-3294334f	172.31.64.0/20

### 3d: Public Network Details

The screenshot shows the AWS Management Console interface for the 'subnet-02bdb233be97107e5 / Public subnet' details page. The left sidebar is the same as in the previous screenshot. The main content area displays the details for the selected subnet, organized into a grid. The details include the Subnet ID, State (Available), VPC (vpc-099ea630761a28747 | sidharth\_VPC), IPv4 CIDR (10.0.0.0/24), Availability Zone (us-east-1a), Network ACL (acl-0a56517beb4ac8de0), Auto-assign customer-owned IPv4 address (No), Subnet ARN (arn:aws:ec2:us-east-1:398187607173:subnet/subnet-02bdb233be97107e5), and other configuration options like Available IPv4 addresses (250), Network border group (us-east-1), Route table (rtb-08b27cb244e7c417e), Auto-assign IPv6 address (No), and Owner (398187607173).

Details			
Subnet ID subnet-02bdb233be97107e5	State Available	VPC vpc-099ea630761a28747   sidharth_VPC	IPv4 CIDR 10.0.0.0/24
Available IPv4 addresses 250	IPv6 CIDR -	Availability Zone us-east-1a	Availability Zone ID use1-az6
Network border group us-east-1	Route table rtb-08b27cb244e7c417e	Network ACL acl-0a56517beb4ac8de0	Default subnet No
Auto-assign public IPv4 address No	Auto-assign IPv6 address No	Auto-assign customer-owned IPv4 address No	Customer-owned IPv4 pool -
Outpost ID -	Owner 398187607173	Subnet ARN arn:aws:ec2:us-east-1:398187607173:subnet/subnet-02bdb233be97107e5	

### 3e: Inbound Rules Change



- 2.) Migrate application developed earlier on elastic beanstalk to VPC. Use both public and private cloud (Hybrid Cloud): Load balancer in the public cloud and the application along with the database resides in the private cloud. Migrating your existing application on Beanstalk into the VPC.

### 3f:

