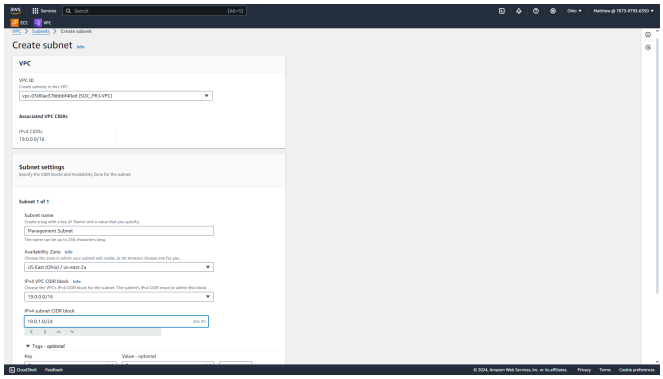
SOC Project Documentation

Create VPC

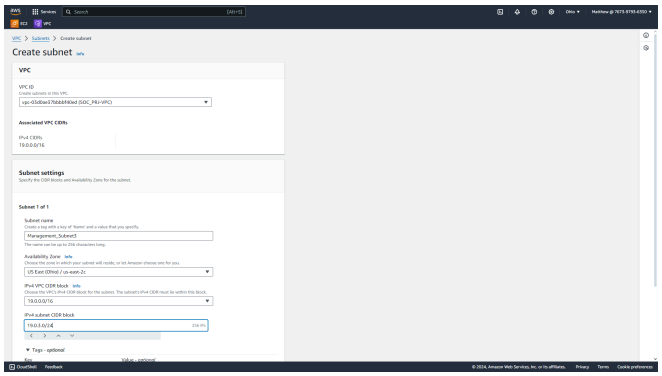
- Go to AWS(Log into root or IAM User account).
- Go to the **Services Search bar** on the top left and search for **VPC**.
- Create your VPC Name. **SOC_PRJ-VPC**
- Create your VPC IP Address. **(19.0.0.0/16)**
- Then Click **Create VPC**.

Create Subnets

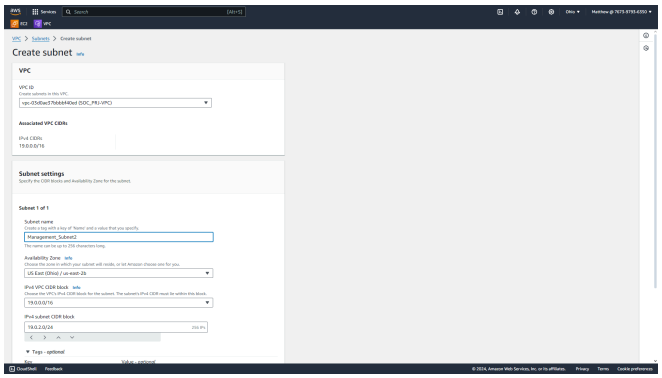
- Find Subnets in the VPC service on the left panel (CLICK IT)
- Click create Subnet on the top right.
- Click the VPC you create to connect your subnets to the VPC!
- Add the amount of subnets needed.
- Management Subnet:
    - AZ1: 19.0.1.0/24



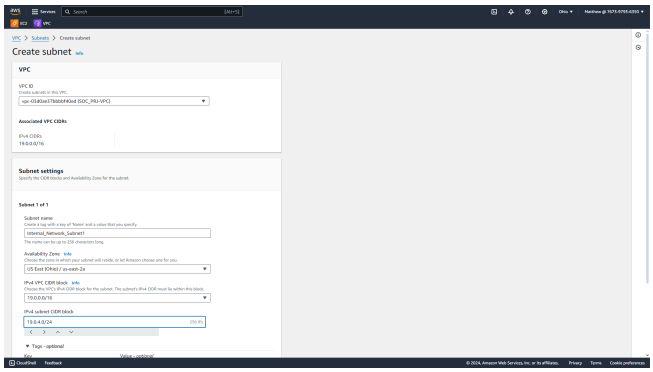
    - AZ2: 19.0.2.0/24



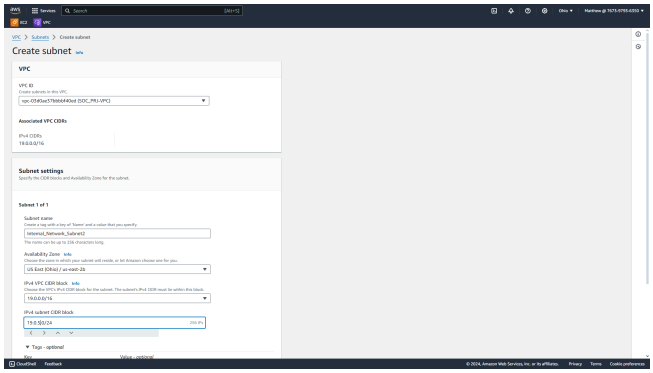
- AZ3: 19.0.3.0/24



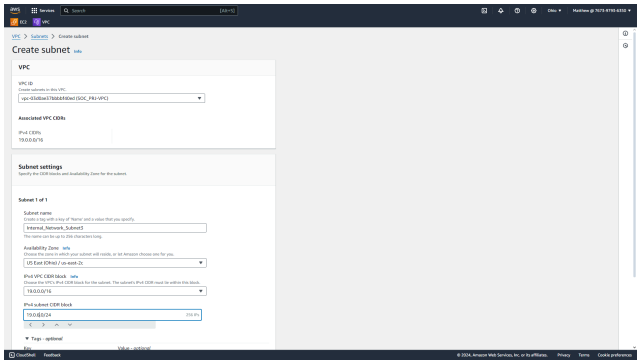
- Internal Network Subnets:
  - Web Servers Subnet:
    - AZ1: 19.0.4.0/24



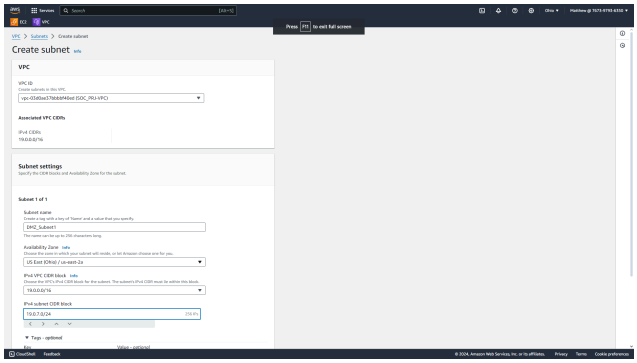
  - Application Servers Subnet:
    - AZ2: 19.0.5.0/24



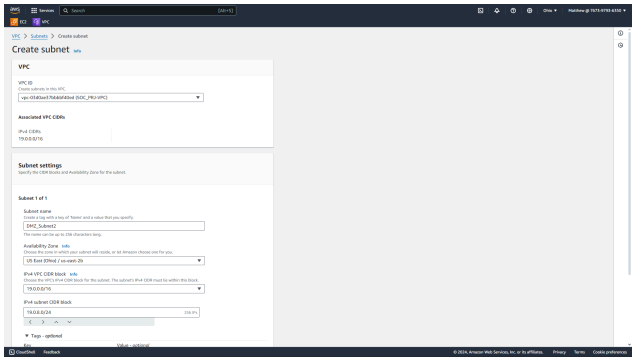
  - Databases Subnet:
    - AZ3: 19.0.6.0/24



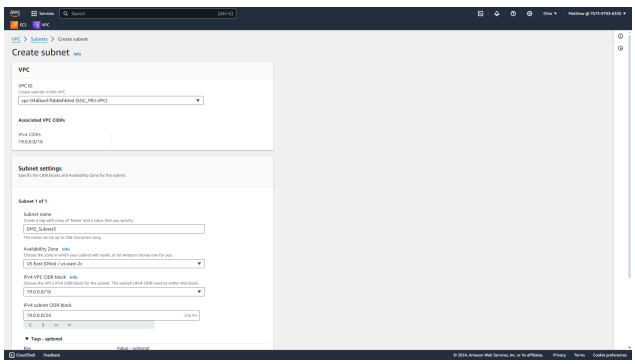
- DMZ (Demilitarized Zone) Subnet:
  - AZ1: 19.0.7.0/24



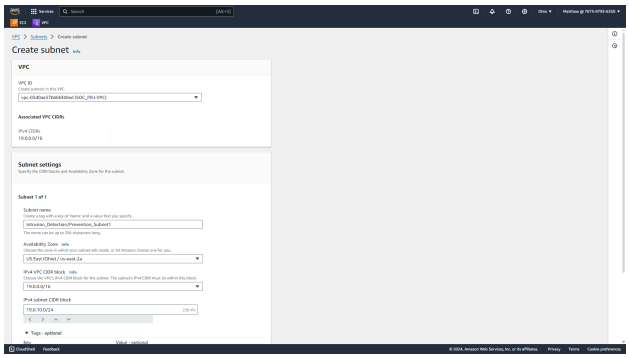
  - AZ2: 19.0.8.0/24



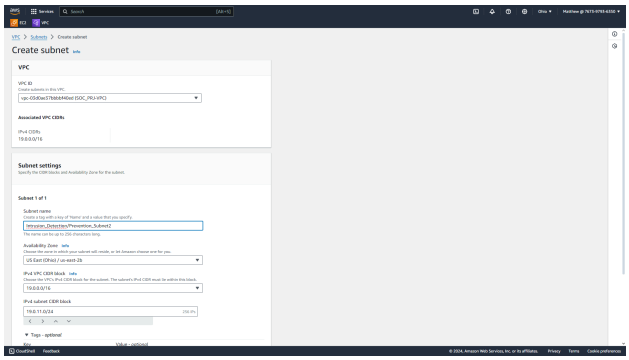
  - AZ3: 19.0.9.0/24



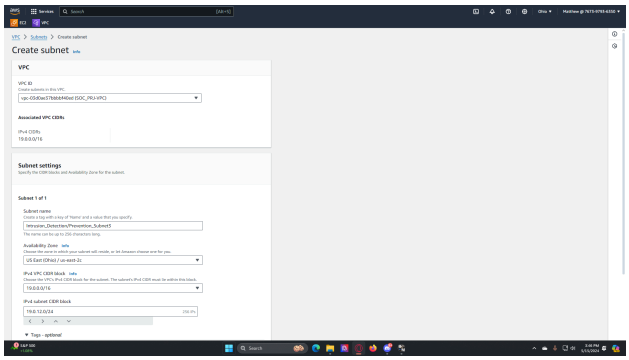
- Intrusion Detection/Prevention Subnet:
    - AZ1: 19.0.10.0/24



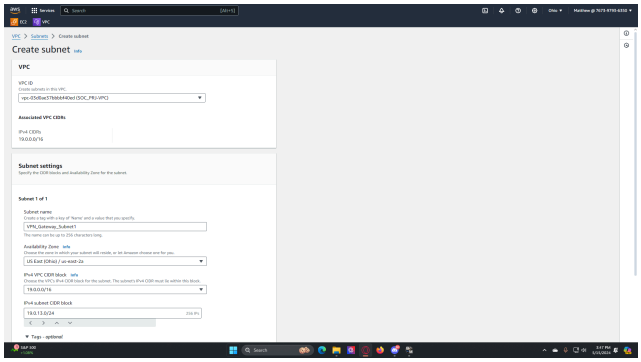
    - AZ2: 19.0.11.0/24



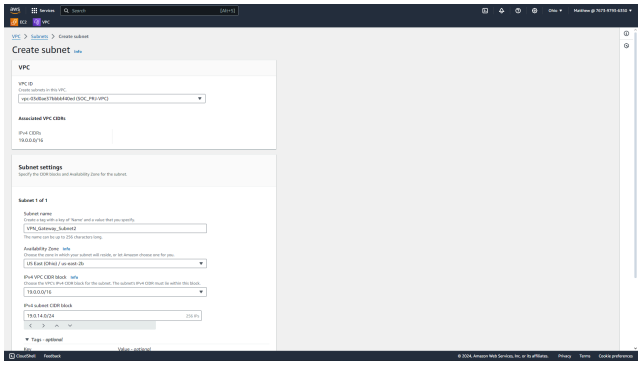
    - AZ3: 19.0.12.0/24



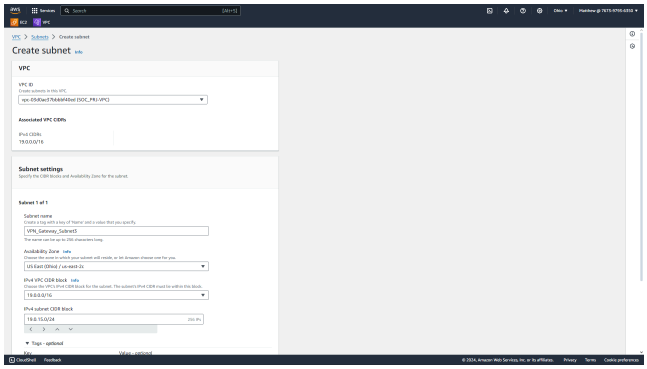
- VPN Gateway Subnet:
    - AZ1: 19.0.13.0/24



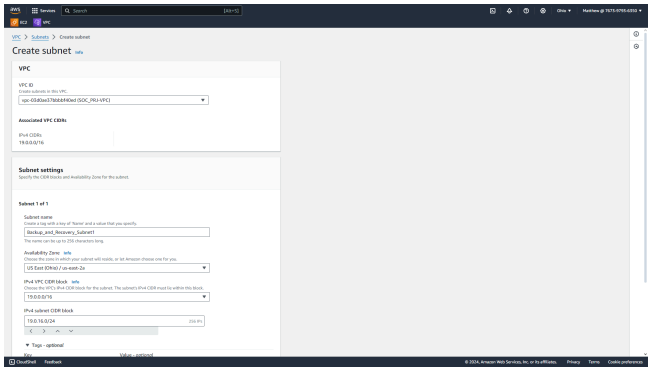
- AZ2: 19.0.14.0/24



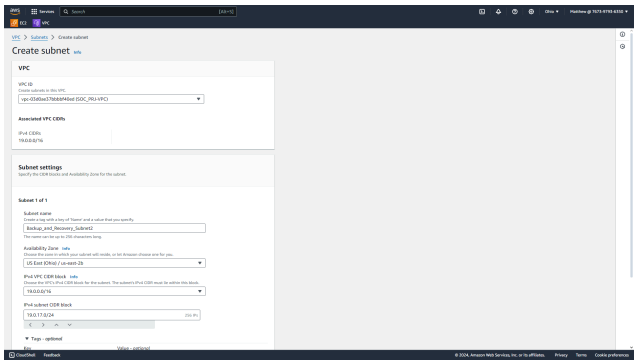
- AZ3: 19.0.15.0/24



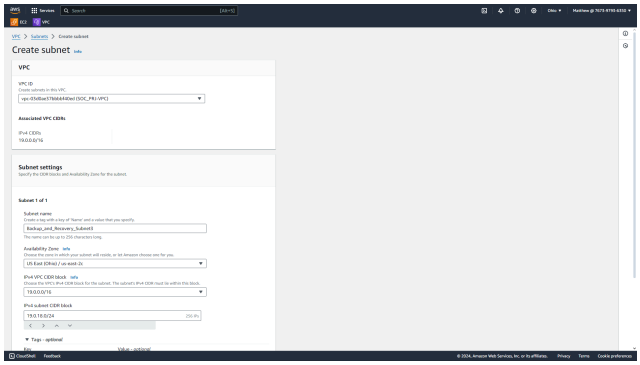
- Backup and Recovery Subnet:
  - AZ1: 19.0.16.0/24



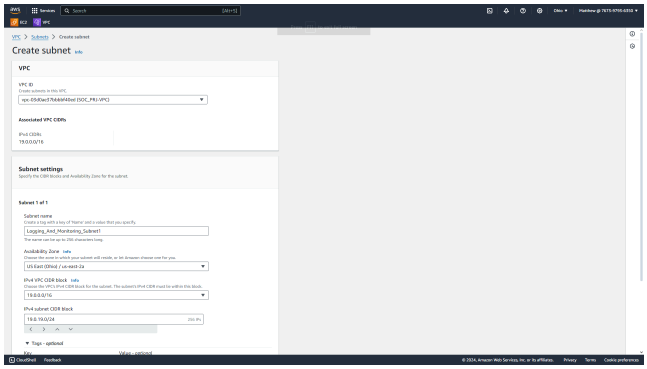
- AZ2: 19.0.17.0/24



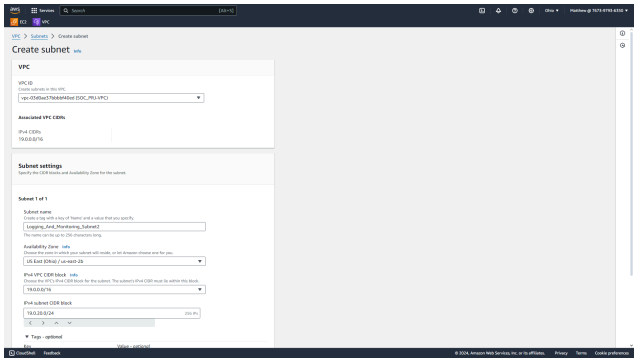
- AZ3: 19.0.18.0/24



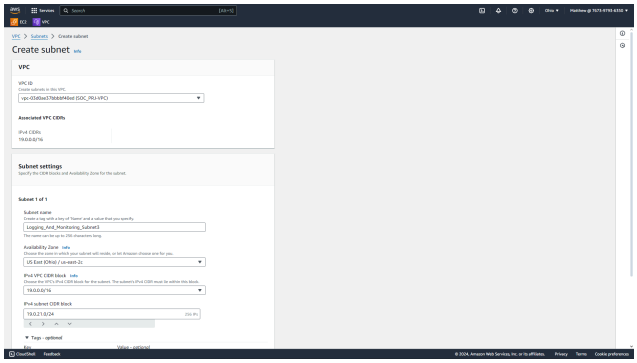
- Logging and Monitoring Subnet:
  - AZ1: 19.0.19.0/24



  - AZ2: 19.0.20.0/24



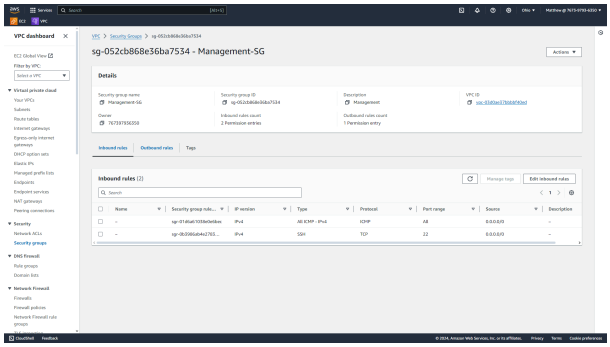
- AZ3: 19.0.21.0/24



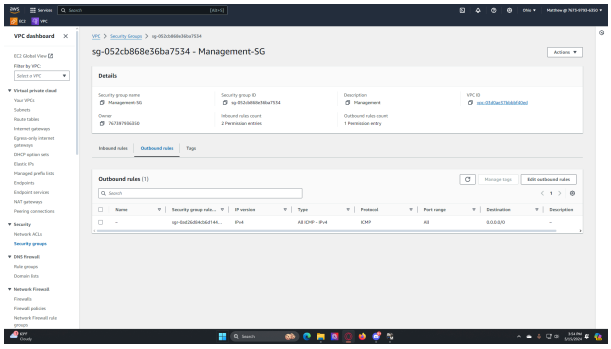
Create Security Groups

Management Security Group

- Click Create Security Group on the top right
- Type in the name()
- Type in a description
- Connect it to your VPC
- Set Inbound Rules()

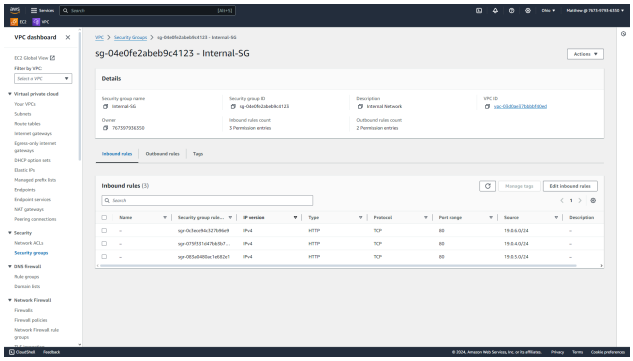


- Set Outbound rules()

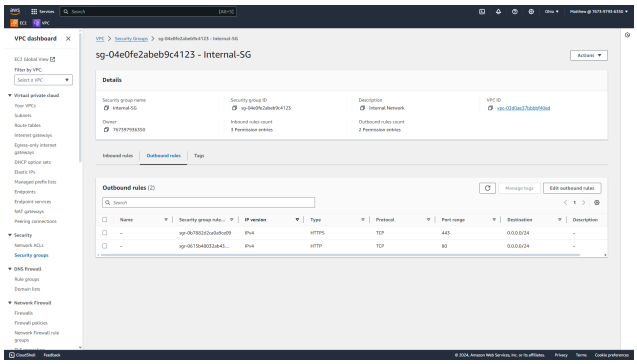


Internal Network Security Group

- Click Create Security Group on the top right
- Type in the name()
- Type in a description
- Connect it to your VPC
- Set Inbound Rules()



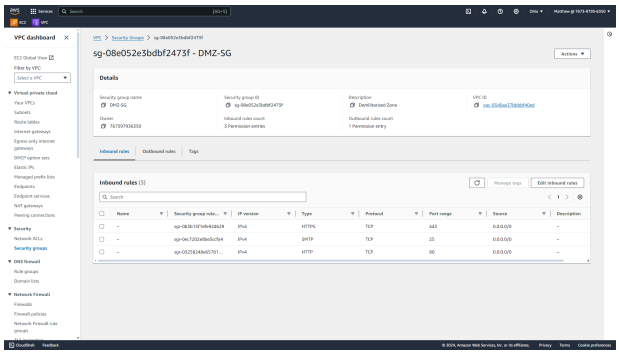
- Set Outbound rules()



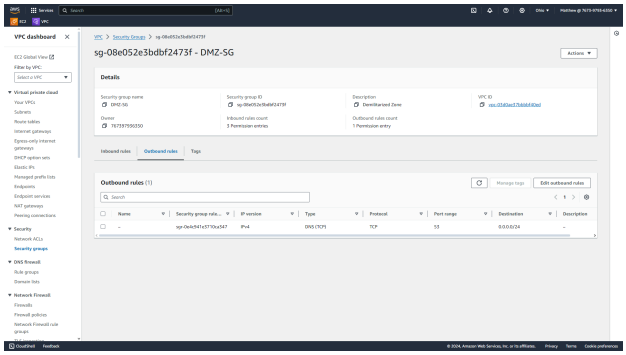
DMZ (Demilitarized Zone) Security Group

- Click Create Security Group on the top right
- Type in the name()

- Type in a description
- Connect it to your VPC
- Set Inbound Rules()

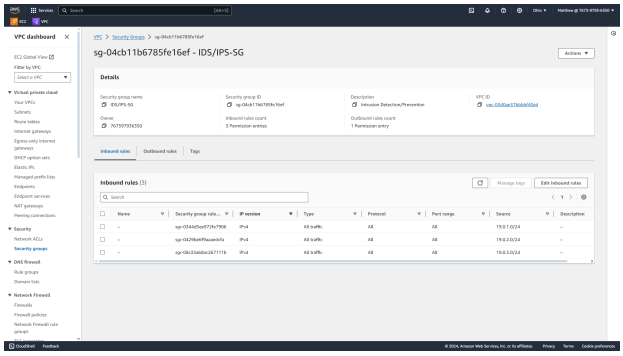


- Set Outbound rules()

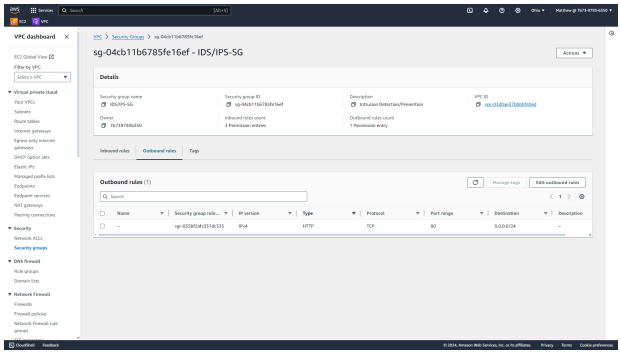


Intrusion Detection/Prevention Security Group

- Click Create Security Group on the top right
- Type in the name()
- Type in a description
- Connect it to your VPC
- Set Inbound Rules()

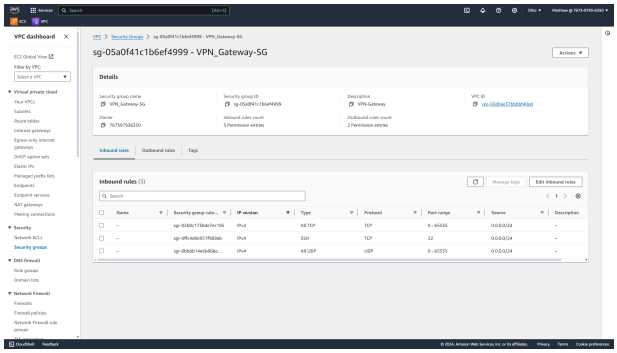


- Set Outbound rules()

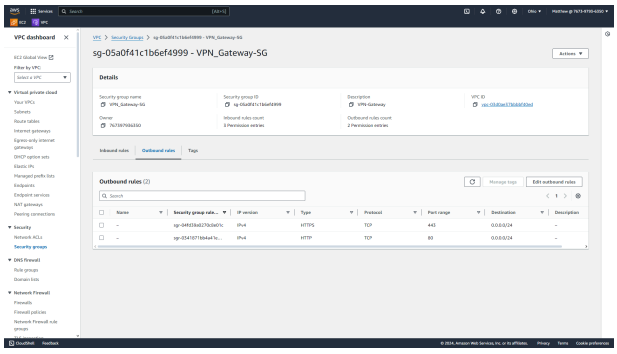


VPN Gateway Security Group

- Click Create Security Group on the top right
- Type in the name()
- Type in a description
- Connect it to your VPC
- Set Inbound Rules()



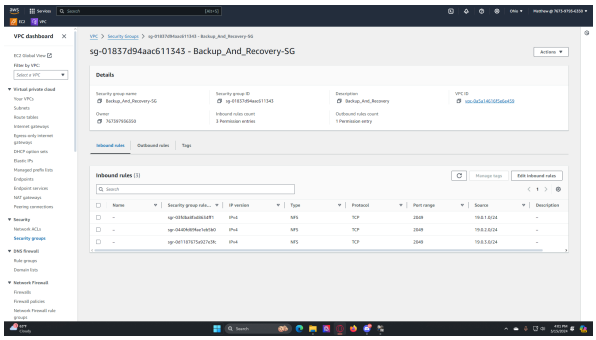
- Set Outbound rules()



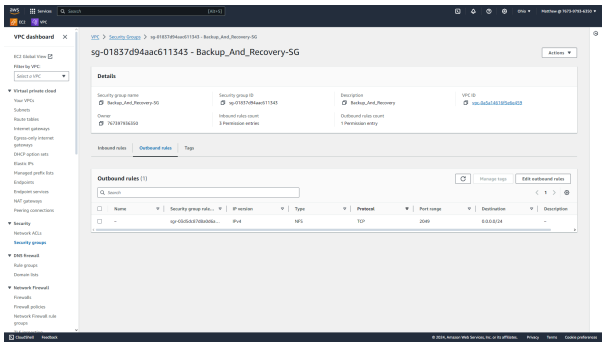
Backup and Recovery Security Group

- Click Create Security Group on the top right
- Type in the name()
- Type in a description
- Connect it to your VPC

- Set Inbound Rules()

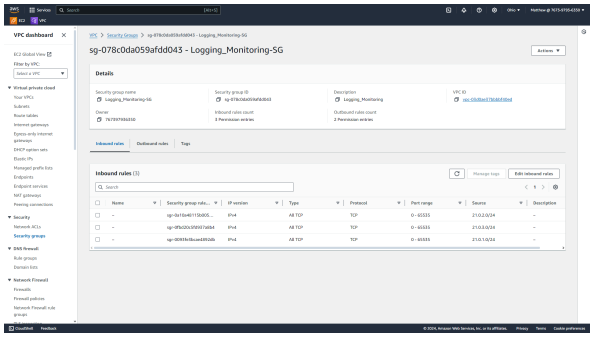


- Set Outbound rules()

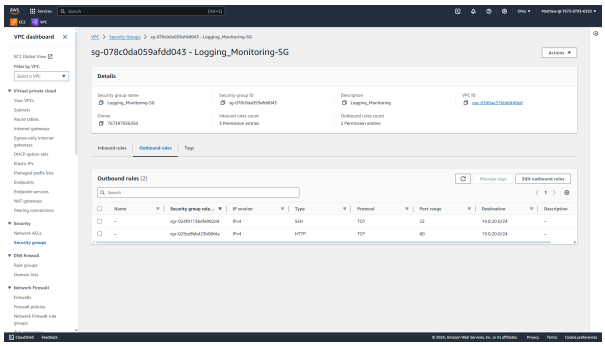


Logging and Monitoring Security Group

- Click Create Security Group on the top right
- Type in the name()
- Type in a description
- Connect it to your VPC
- Set Inbound Rules()



- Set Outbound rules()

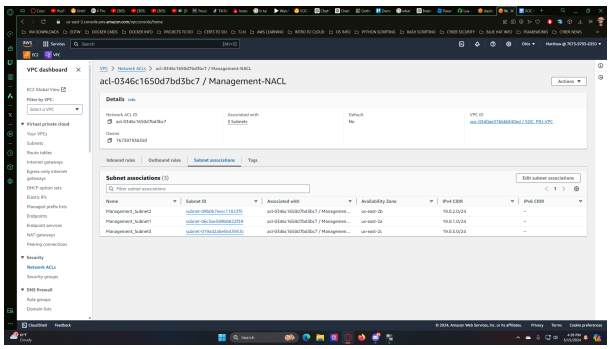


Setting up NACLs

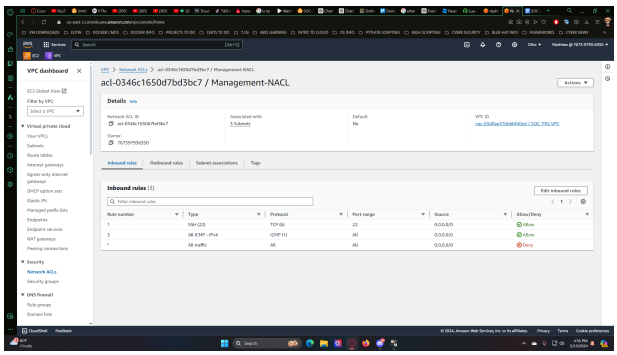
Go to the NACLs in the subsections of the VPC

Management NACL

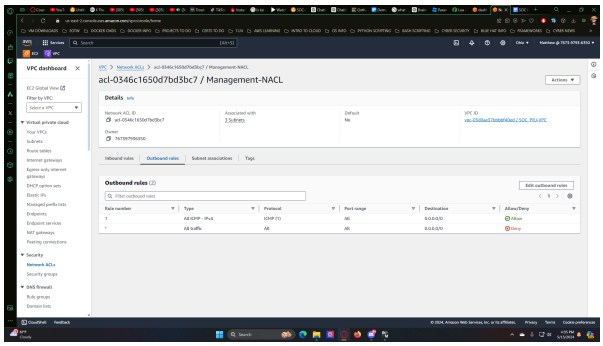
- Click Create Network ACL on the top right
- Type in the name()
- Connect it to your VPC
- Add any tags related to the NACL
- Set the Subnet associations()



- Set Inbound Rules()

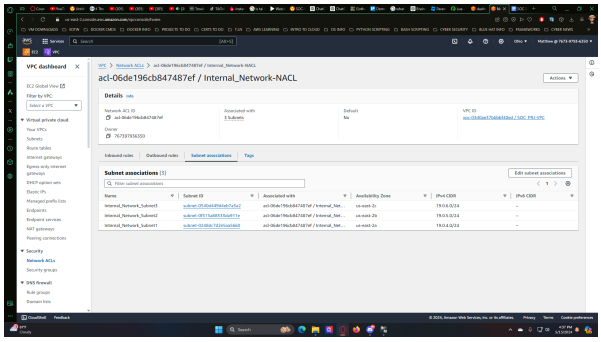


- Set Outbound rules()

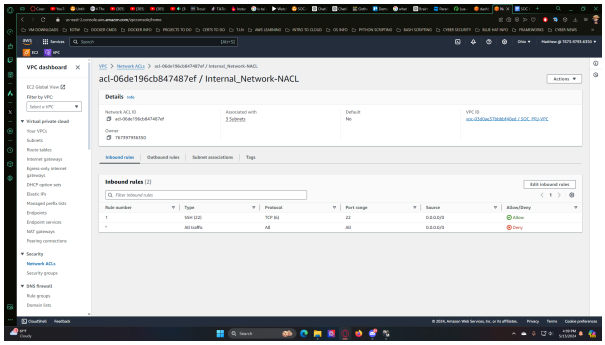


Internal Network NACL

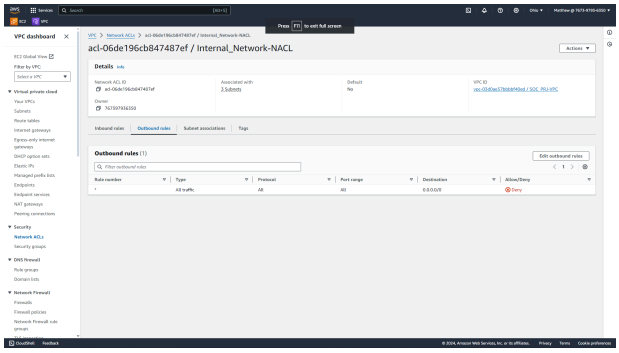
- Click Create Network ACL on the top right
- Type in the name()
- Connect it to your VPC
- Add any tags related to the NACL
- Set the Subnet associations()



- Set Inbound Rules()

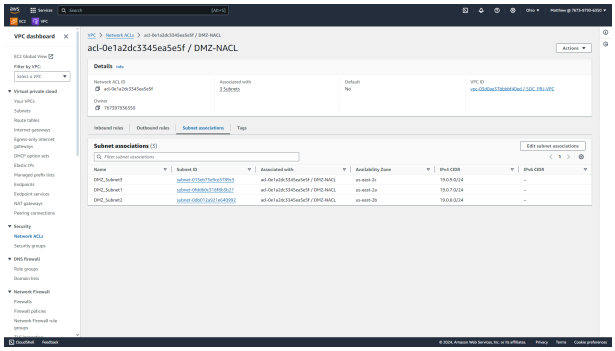


- Set Outbound rules()

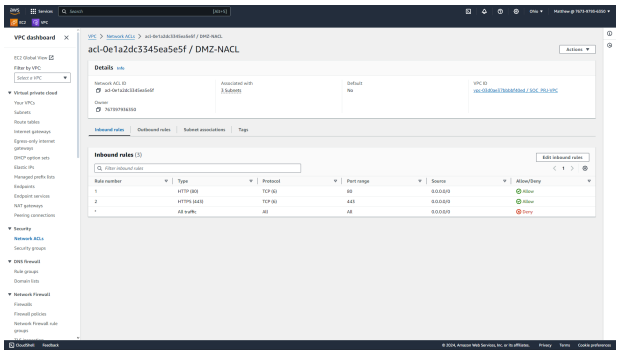


DMZ (Demilitarized Zone) NACL

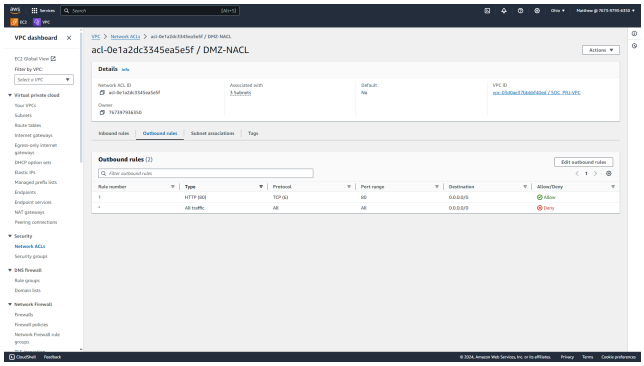
- Click Create Network ACL on the top right
- Type in the name()
- Connect it to your VPC
- Add any tags related to the NACL
- Set the Subnet associations()



- Set Inbound Rules()

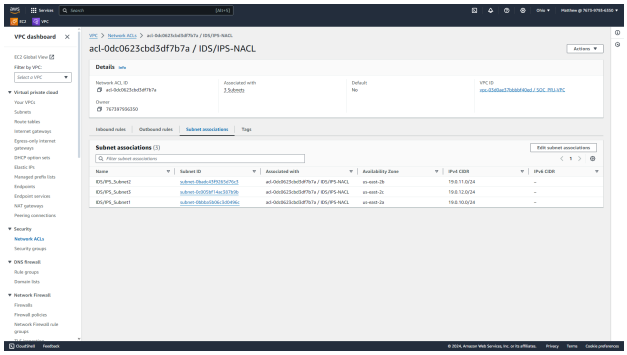


- Set Outbound rules()

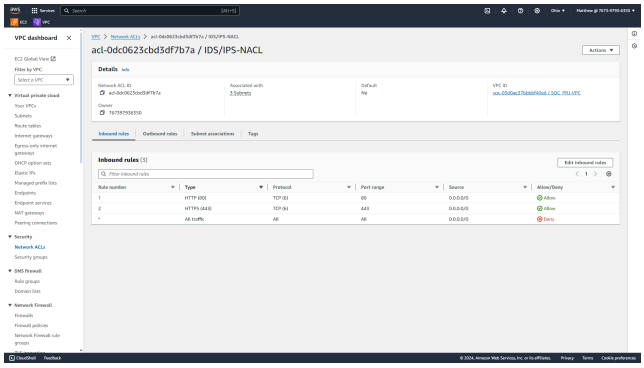


Intrusion Detection/Prevention NACL

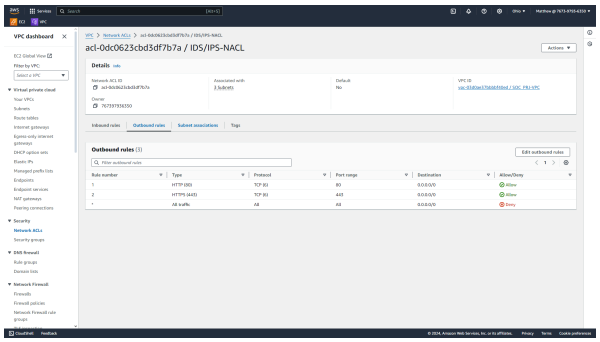
- Click Create Network ACL on the top right
- Type in the name()
- Connect it to your VPC
- Add any tags related to the NACL
- Set the Subnet associations()



- Set Inbound Rules()

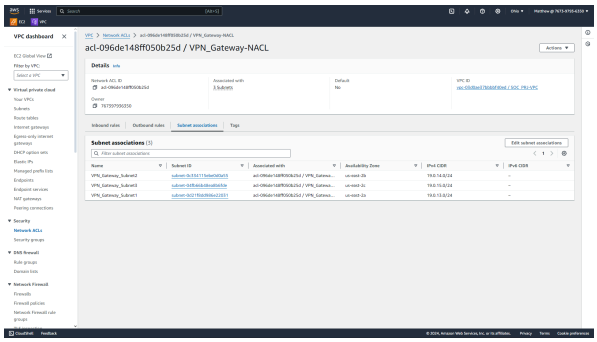


- Set Outbound rules()

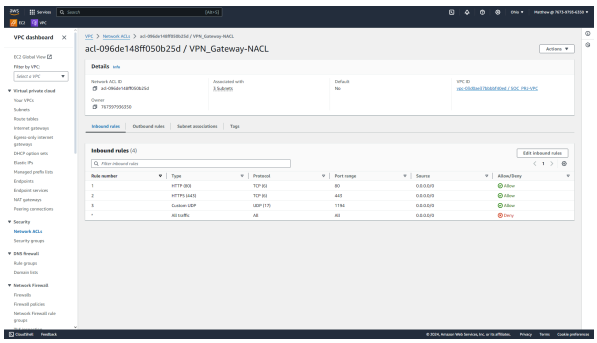


VPN Gateway NACL

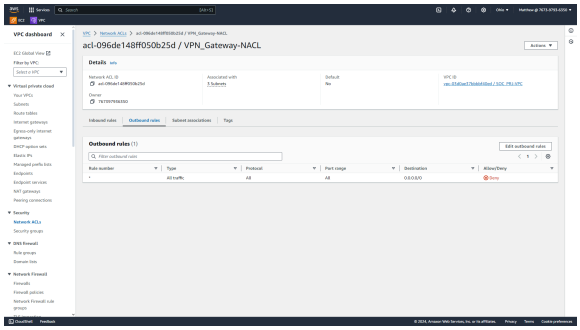
- Click Create Network ACL on the top right
- Type in the name()
- Connect it to your VPC
- Add any tags related to the NACL
- Set the Subnet associations()



- Set Inbound Rules()

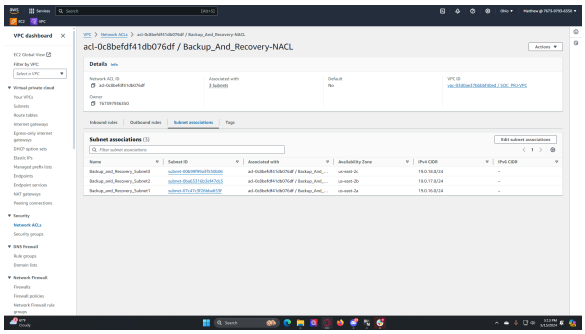


- Set Outbound rules()

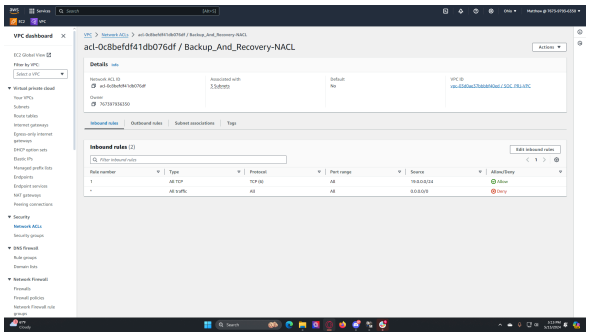


Backup and Recovery NACL

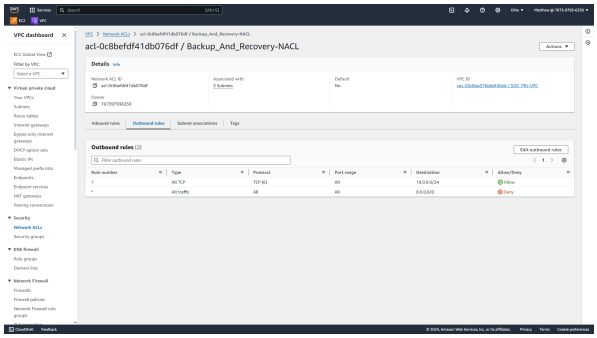
- Click Create Network ACL on the top right
- Type in the name()
- Connect it to your VPC
- Add any tags related to the NACL
- Set the Subnet associations()



- Set Inbound Rules()

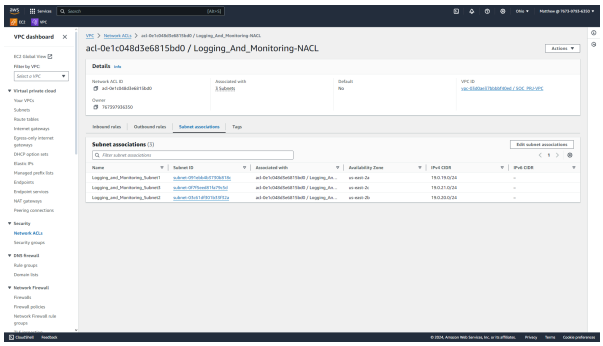


- Set Outbound rules()

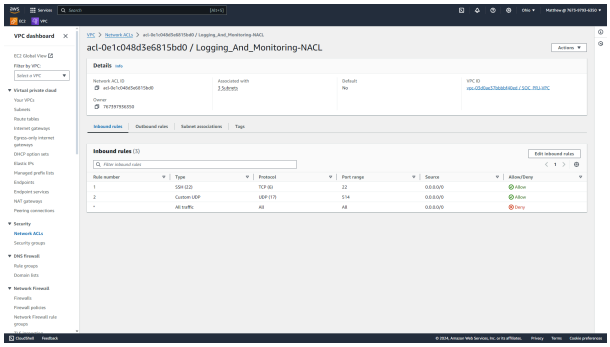


Logging and Monitoring NACL

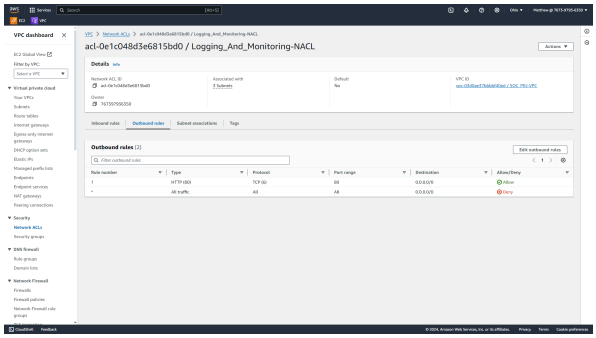
- Click Create Network ACL on the top right
- Type in the name()
- Connect it to your VPC
- Add any tags related to the NACL
- Set the Subnet associations()



- Set Inbound Rules()

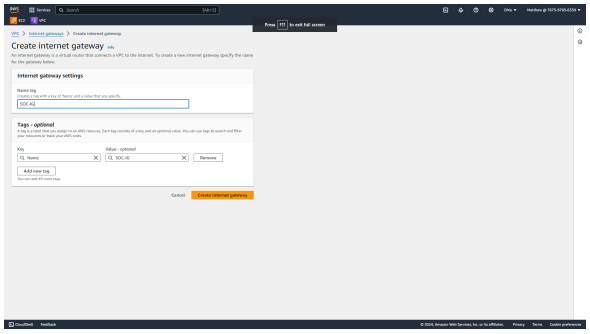


- Set Outbound rules()



Internet Gateway

- Go to the Internet gateway in the subsection of the VPC (click it)
- Go to the top right and click Create Internet Gateway
- Give it a name()
- Click Create Internet Gateway
- Attach Internet Gateway to your VPC

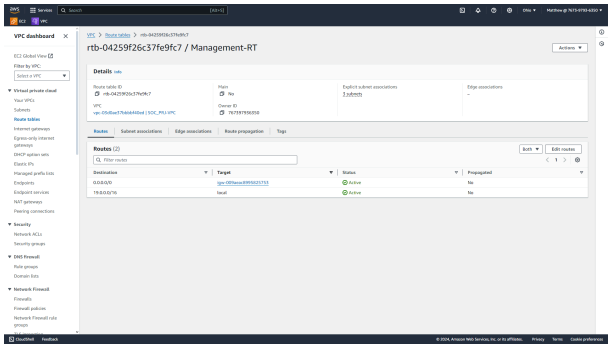


Route Table

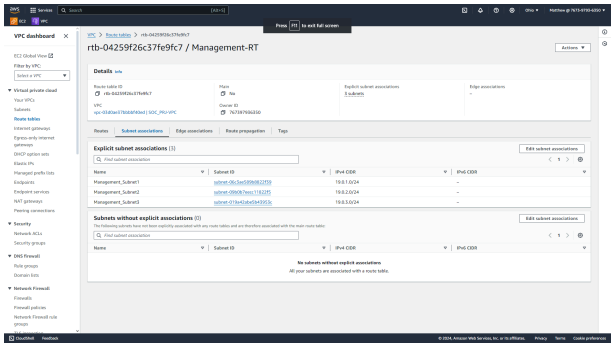
Look to the left where the subsections of the VPC are and Click on Route Tables

Management Route Table

- Click create route table on the top right
- Put the route table name()
- And select the VPC
- Click Create route table
- Edit the Routes()

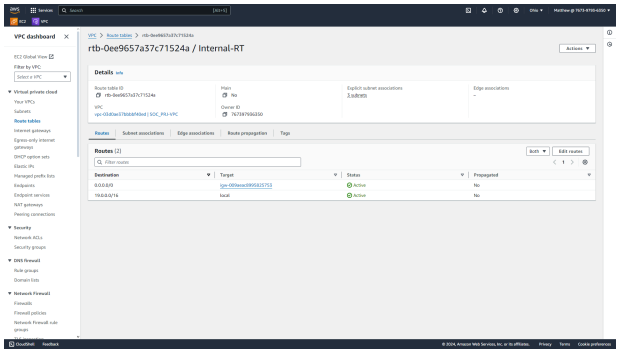


- Associate the appropriate subnet associations()

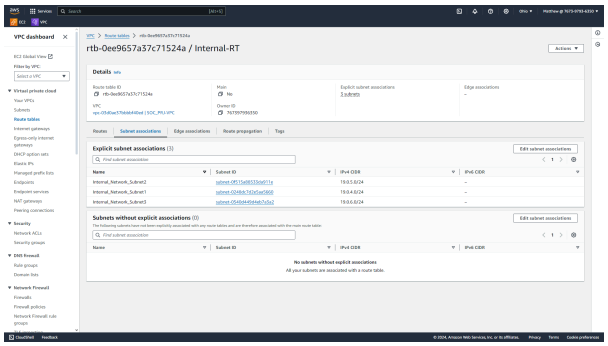


Internal Route Table

- Click create route table on the top right
- Put the route table name()
- And select the VPC
- Click Create route table
- Edit the Routes()

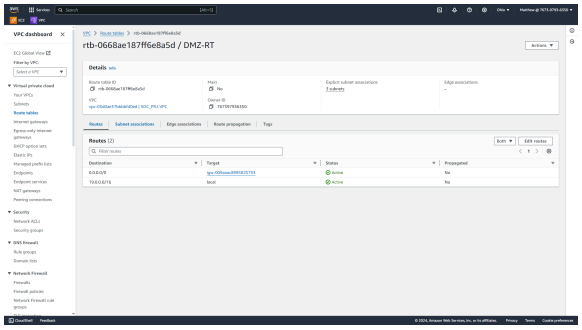


- Associate the appropriate subnet associations()

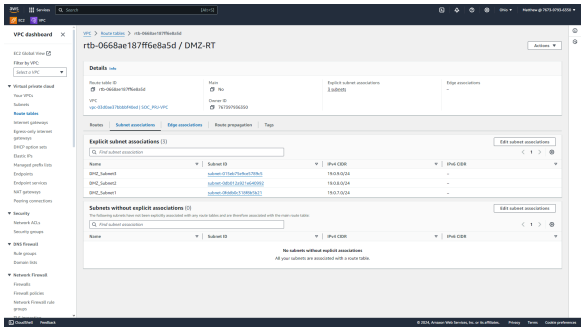


DMZ Route Table

- Click create route table on the top right
- Put the route table name()
- And select the VPC
- Click Create route table
- Edit the Routes()

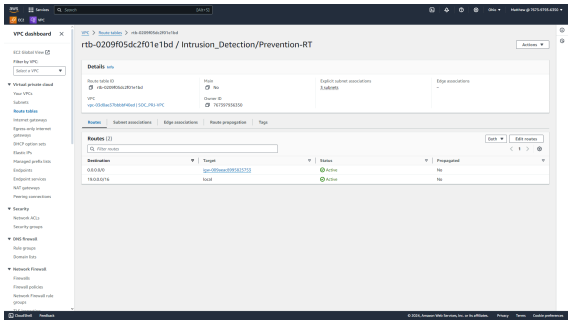


- Associate the appropriate subnet associations()

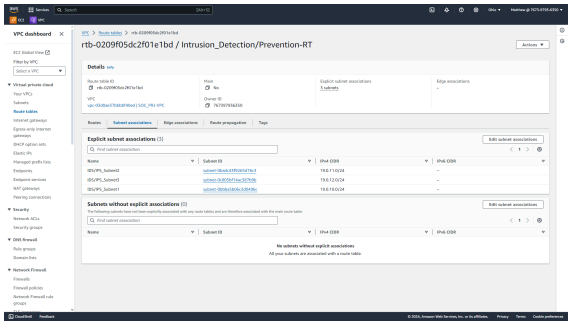


Intrusion Detection/Prevention Route Table

- Click create route table on the top right
- Put the route table name()
- And select the VPC
- Click Create route table
- Edit the Routes()

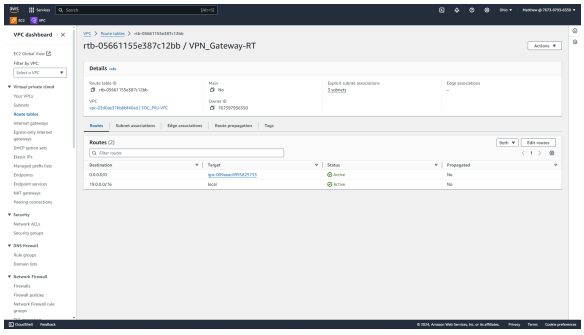


- Associate the appropriate subnet associations()

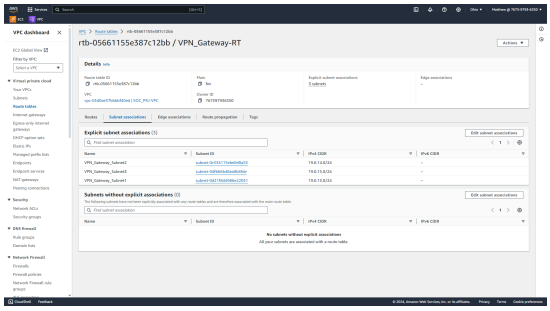


VPN Gateway Route Table

- Click create route table on the top right
- Put the route table name()
- And select the VPC
- Click Create route table
- Edit the Routes()

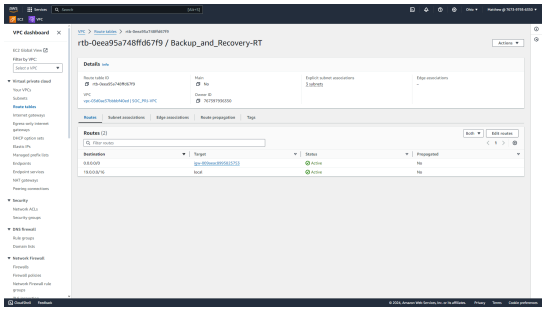


- Associate the appropriate subnet associations()

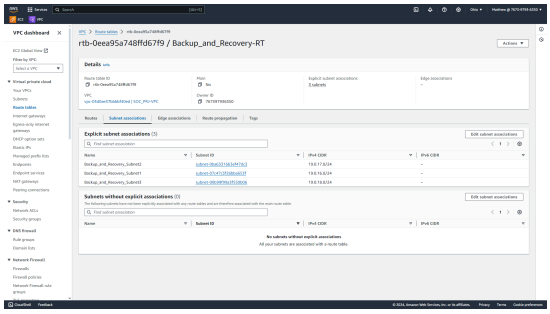


Backup and Recovery Route Table

- Click create route table on the top right
- Put the route table name()
- And select the VPC
- Click Create route table
- Edit the Routes()

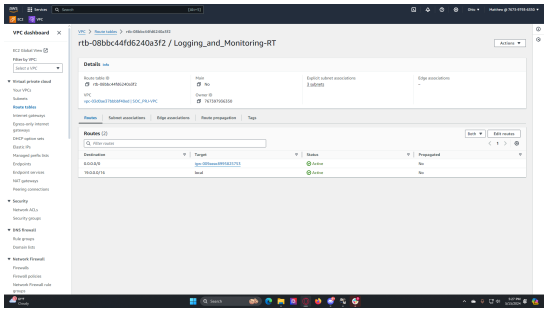


- Associate the appropriate subnet associations()



Logging and Monitoring Route Table

- Click create route table on the top right
- Put the route table name()
- And select the VPC
- Click Create route table
- Edit the Routes()



- Associate the appropriate subnet associations()