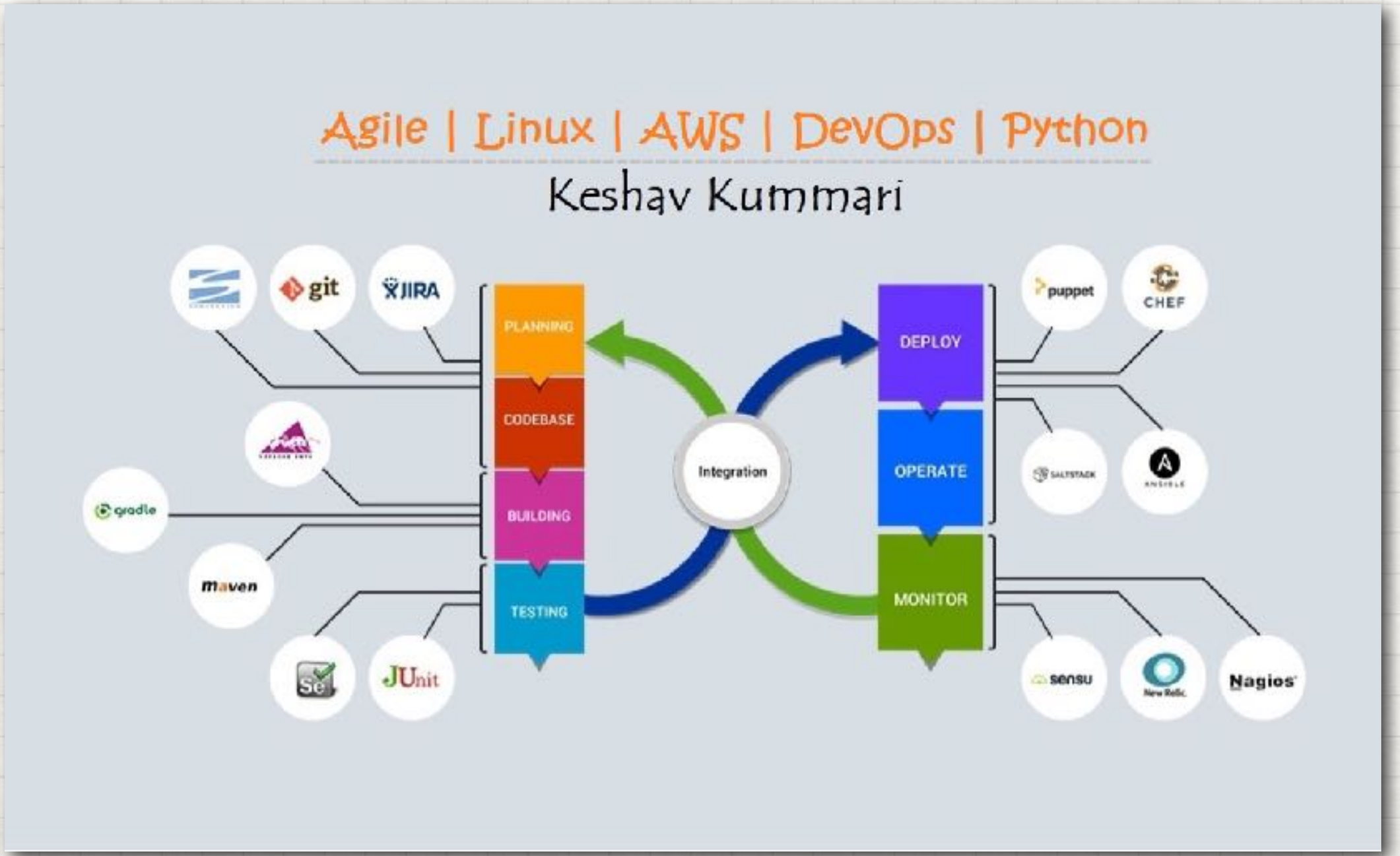
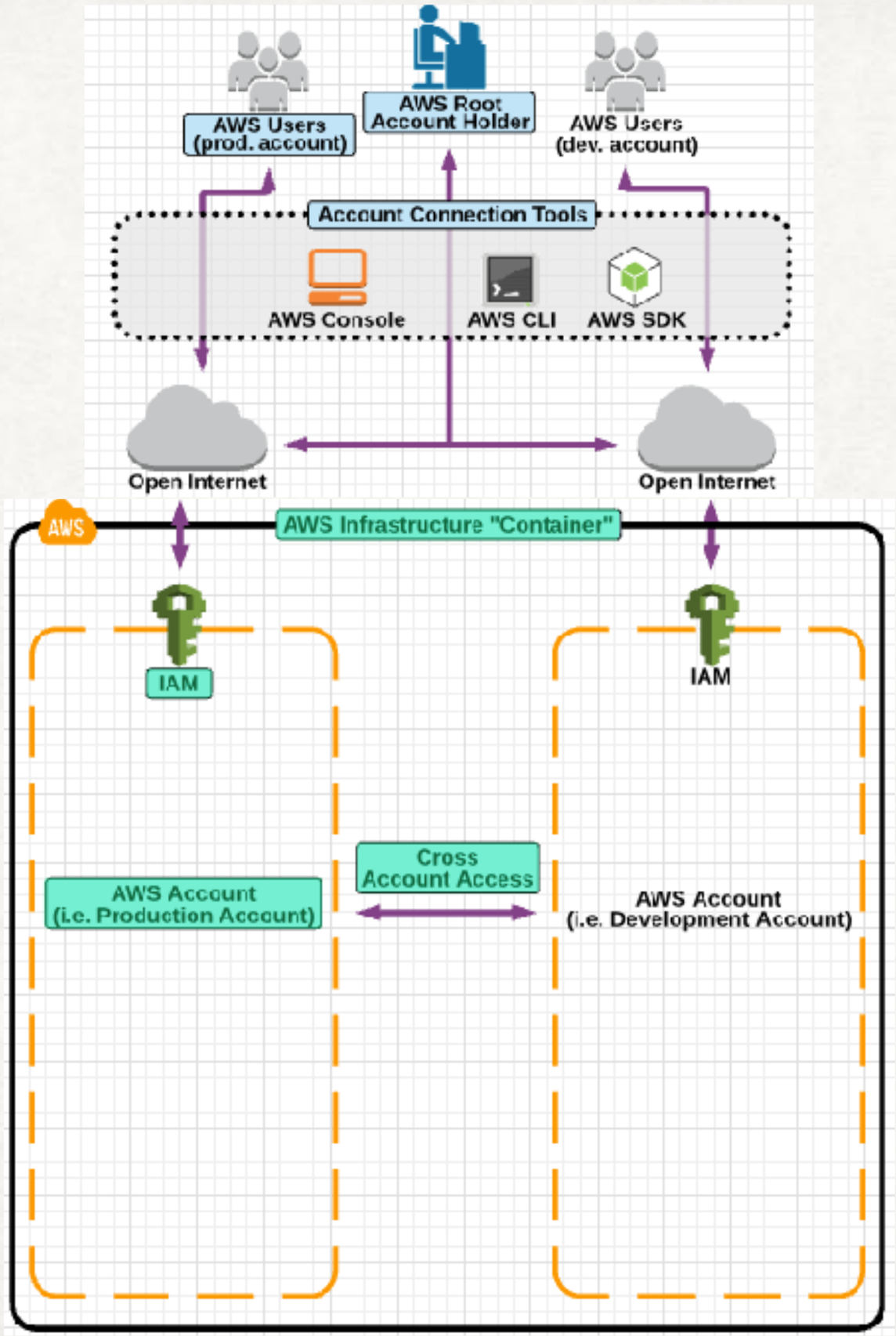
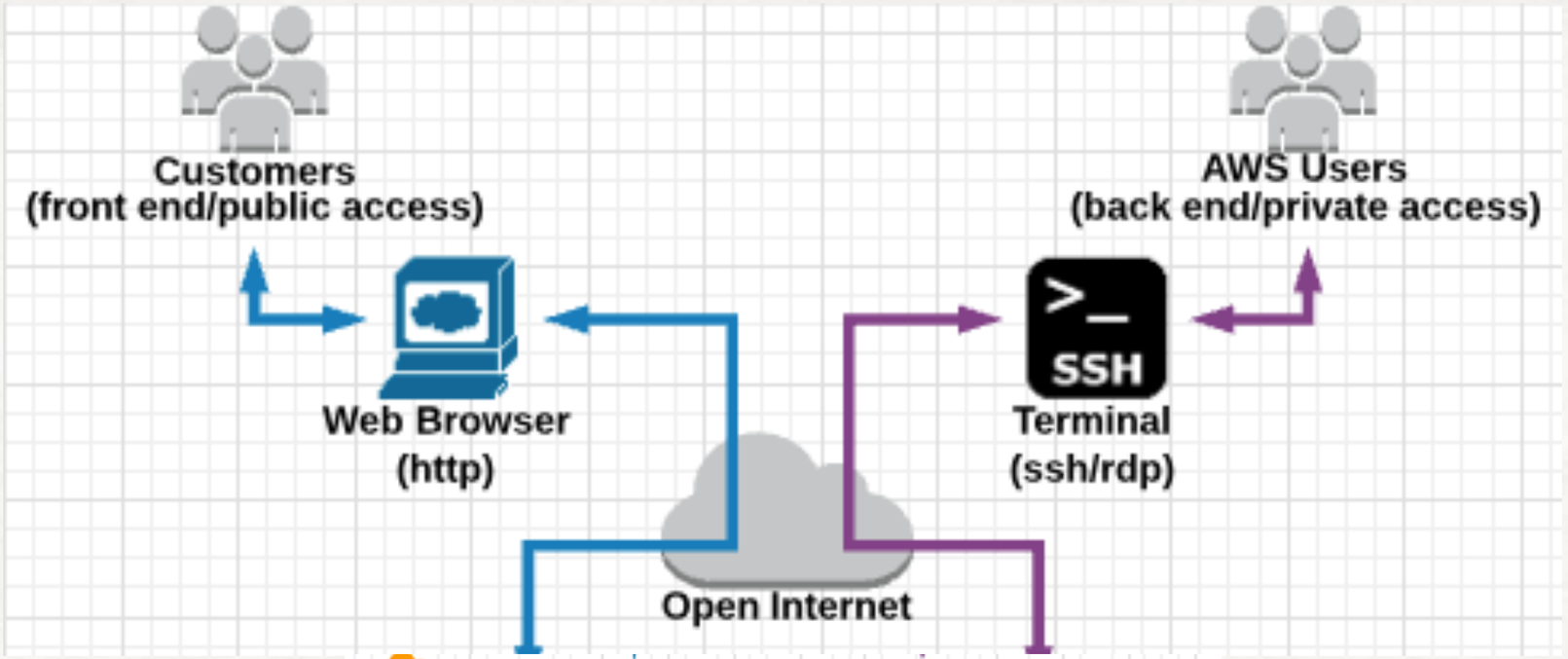
AWS

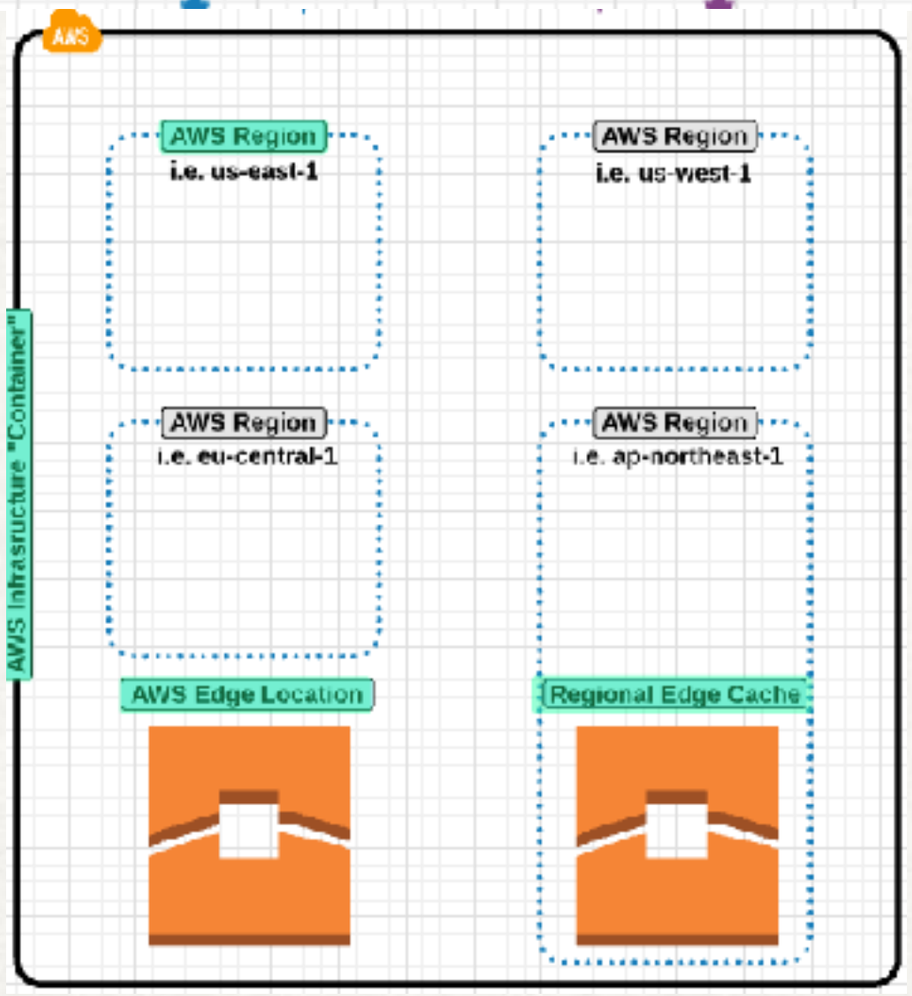
KESHAV KUMMARI



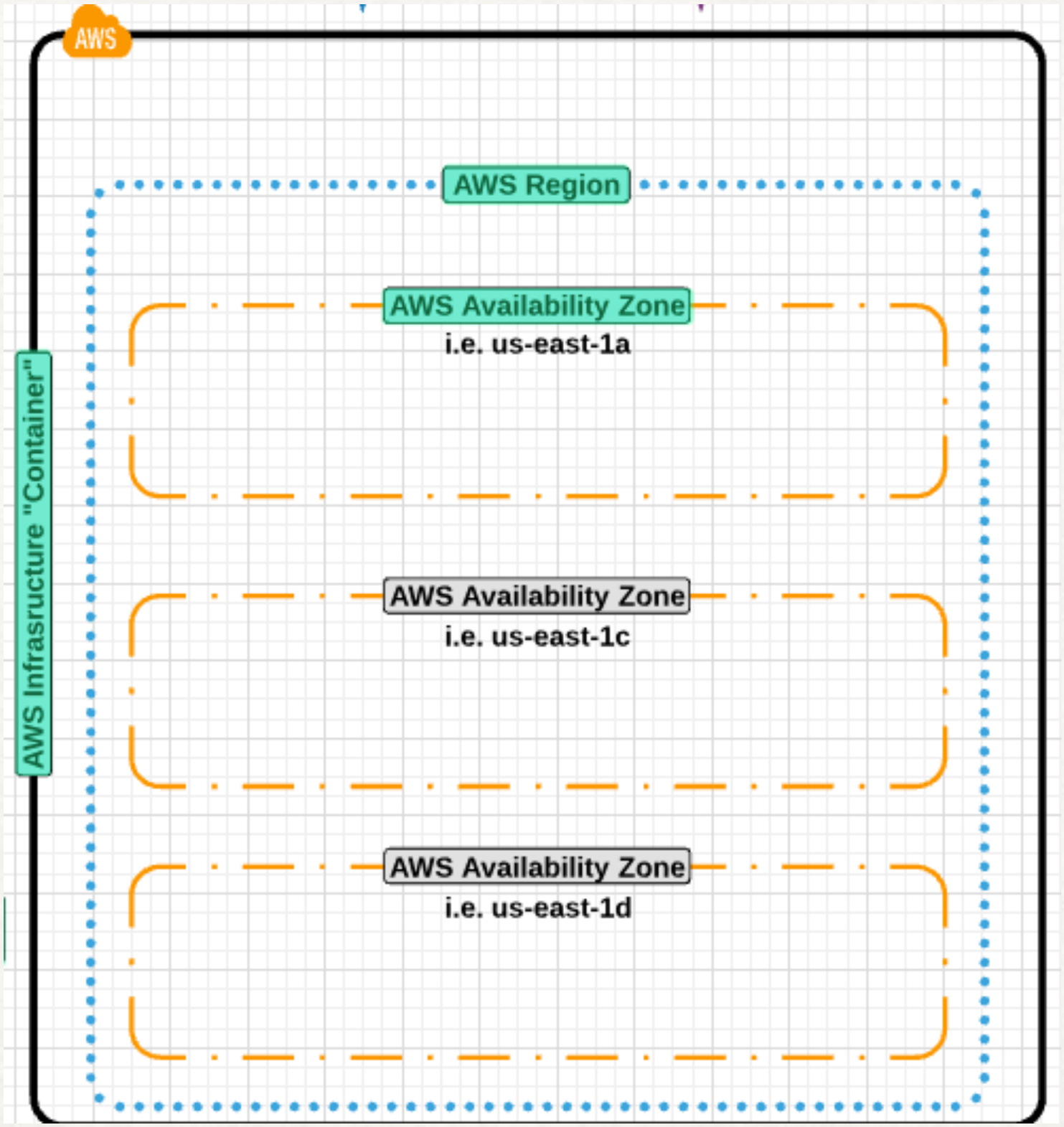

AWS Users
(prod. account)
AWS Root
Account Holder
AWS Users
(dev. account)
Account Connection Tools
AWS Console
AWS CLI
AWS SDK
Open Internet
Open Internet
AWS
AWS Infrastructure "Container"
IAM
IAM
Cross
Account Access
AWS Account
(i.e. Production Account)
AWS Account
(i.e. Development Account)

AWS

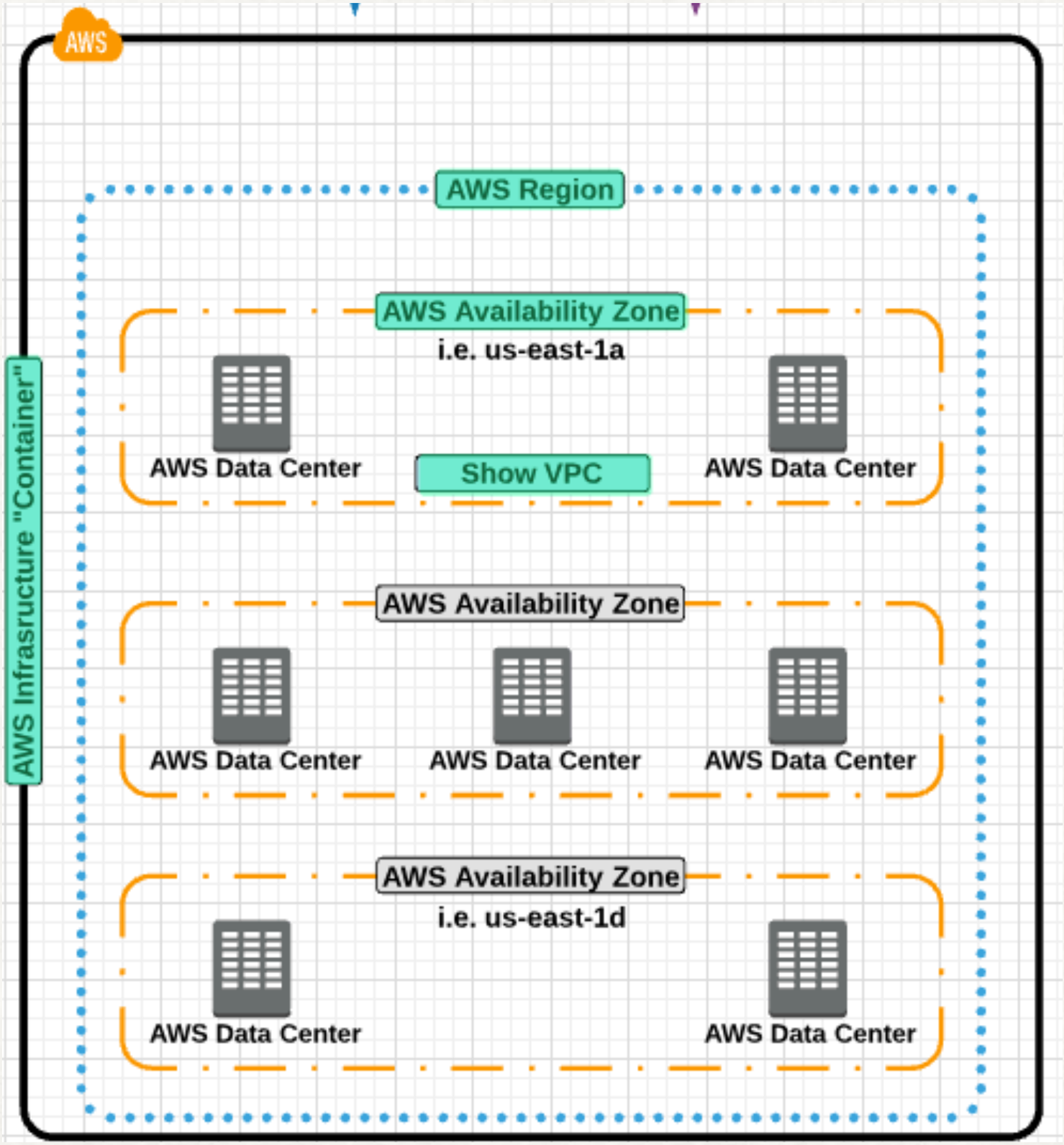

Customers
(front end/public access)
AWS Users
(back end/private access)
Web Browser
(http)
SSH
Terminal
(ssh/rdp)
Open Internet


AWS
AWS Region
i.e. us-east-1
AWS Region
i.e. us-west-1
AWS Region
i.e. eu-central-1
AWS Region
i.e. ap-northeast-1
AWS Edge Location
Regional Edge Cache
AWS Infrastructure "Container"

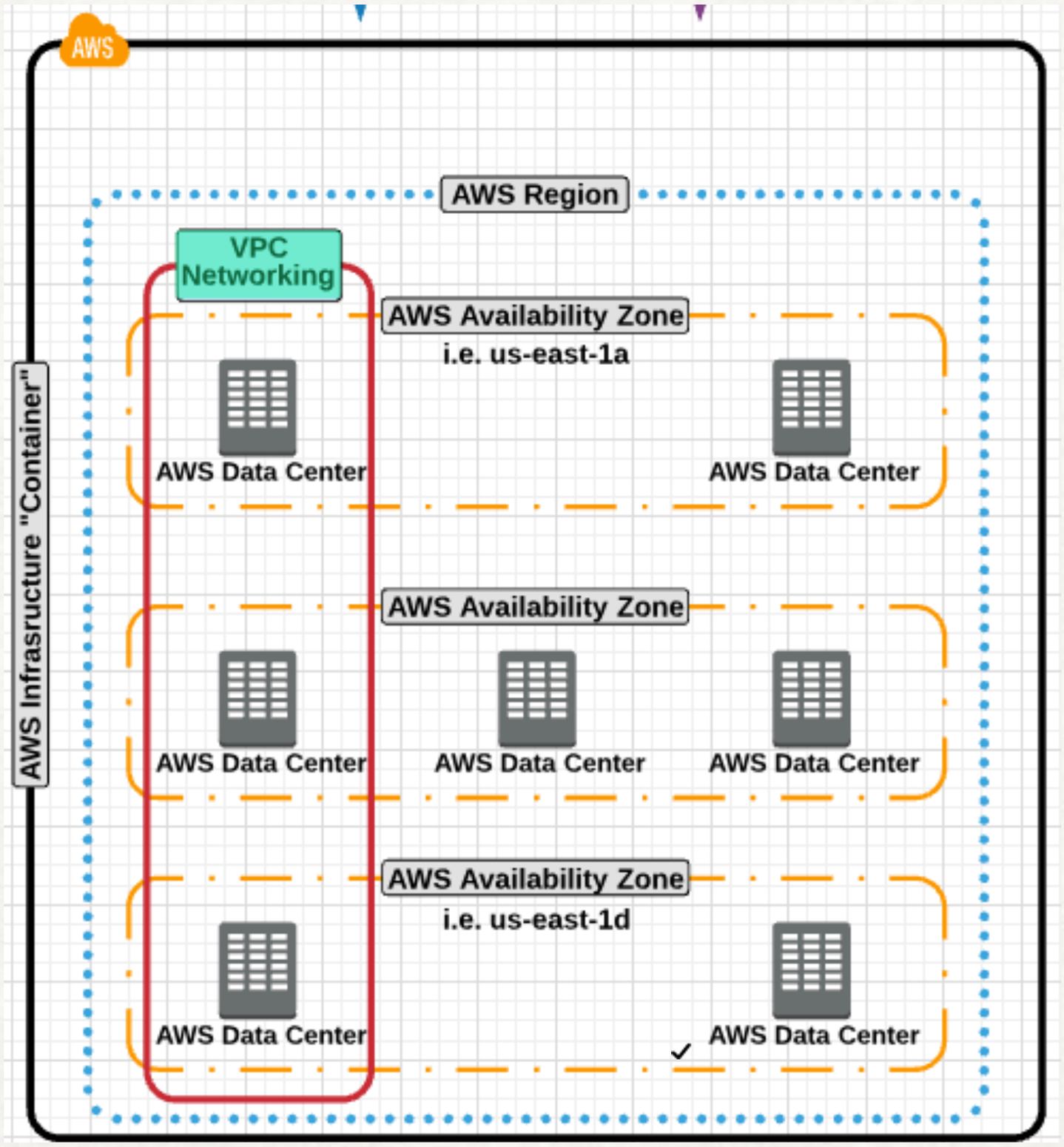
AWS



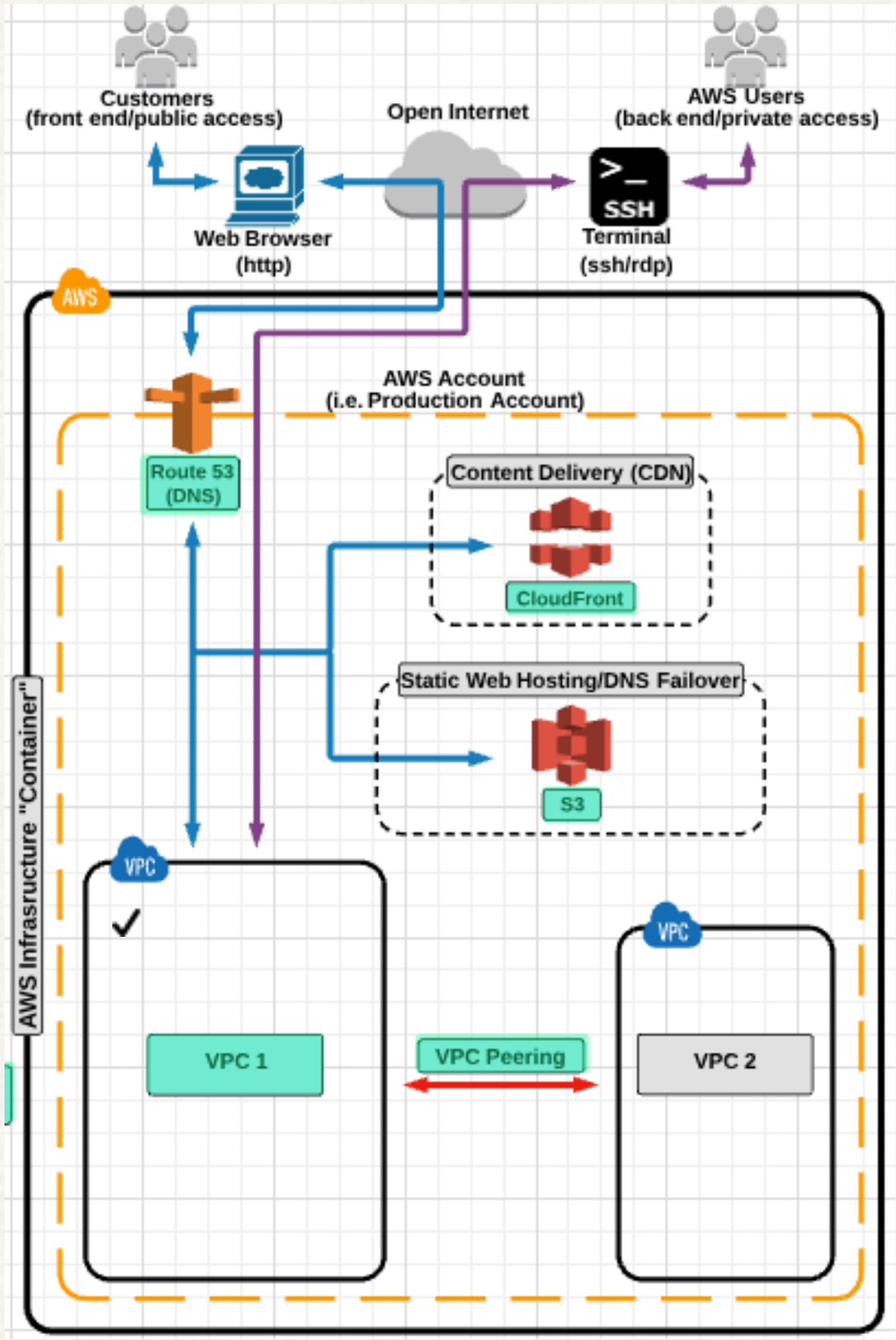
AWS - Region & Availability Zones



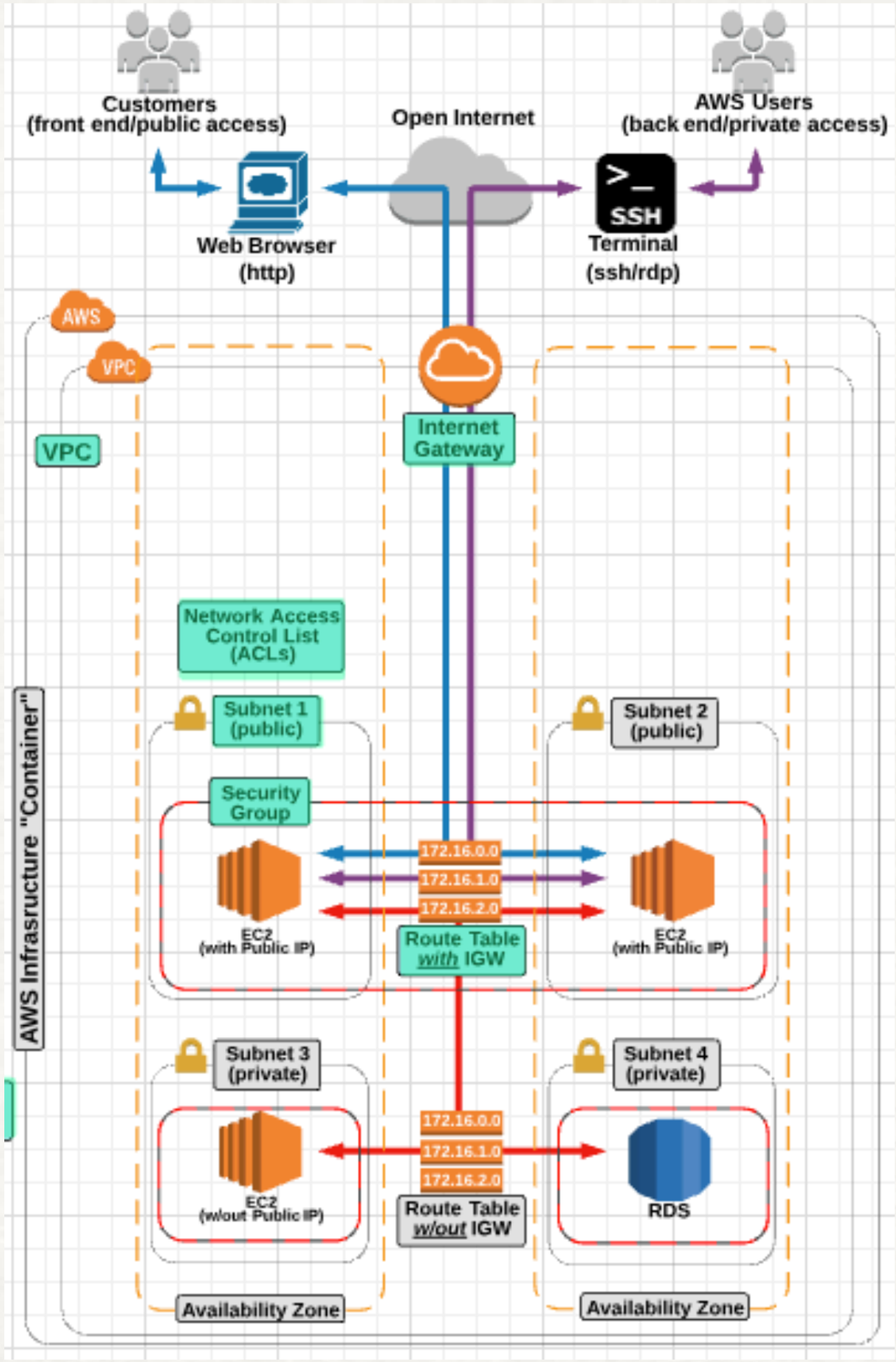
AWS Region & AZ's


AWS
AWS Region
VPC Networking
AWS Availability Zone
i.e. us-east-1a
AWS Data Center
AWS Data Center
AWS Infrasructure "Container"
AWS Availability Zone
AWS Data Center
AWS Data Center
AWS Data Center
AWS Availability Zone
i.e. us-east-1d
AWS Data Center
AWS Data Center

AWS - VPC


Customers
(front end/public access)
Open Internet
AWS Users
(back end/private access)
Web Browser
(http)
SSH
Terminal
(ssh/rdp)
AWS
AWS Account
(i.e. Production Account)
Route 53
(DNS)
Content Delivery (CDN)
CloudFront
Static Web Hosting/DNS Failover
S3
AWS Infrasructure "Container"
VPC
VPC 1
VPC Peering
VPC
VPC 2

AWS - VPC


Customers
(front end/public access)
Open Internet
AWS Users
(back end/private access)
Web Browser
(http)
SSH
Terminal
(ssh/rdp)
AWS
VPC
VPC
Internet
Gateway
Network Access
Control List
(ACLs)
AWS Infrasructure "Container"
Subnet 1
(public)
Subnet 2
(public)
Security
Group
172.16.0.0
172.16.1.0
172.16.2.0
EC2
(with Public IP)
Route Table
with IGW
EC2
(with Public IP)
Subnet 3
(private)
Subnet 4
(private)
172.16.0.0
172.16.1.0
172.16.2.0
EC2
(w/out Public IP)
Route Table
w/out IGW
RDS
Availability Zone
Availability Zone

Inside VPC

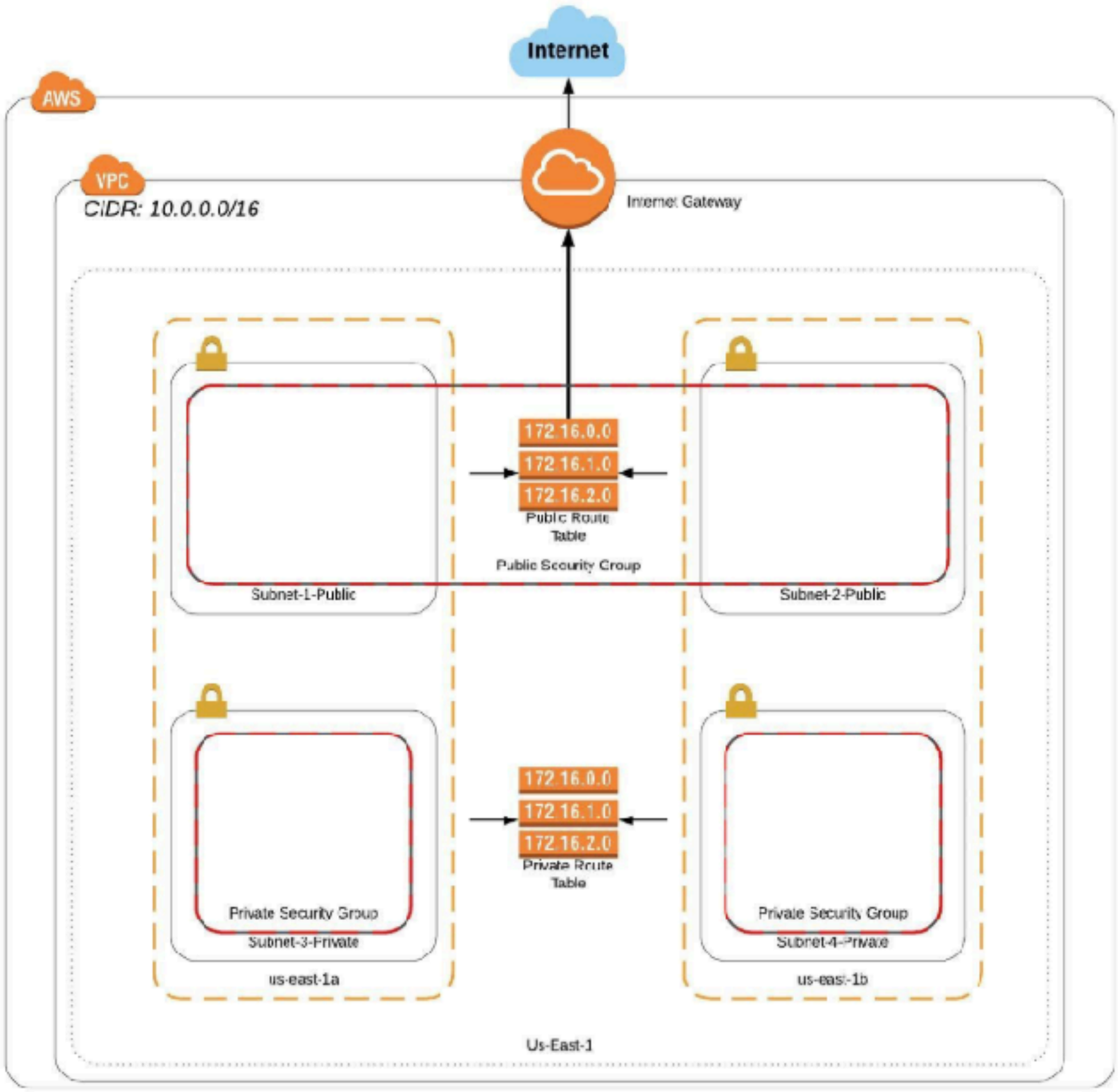
VPC

Internet Gateway

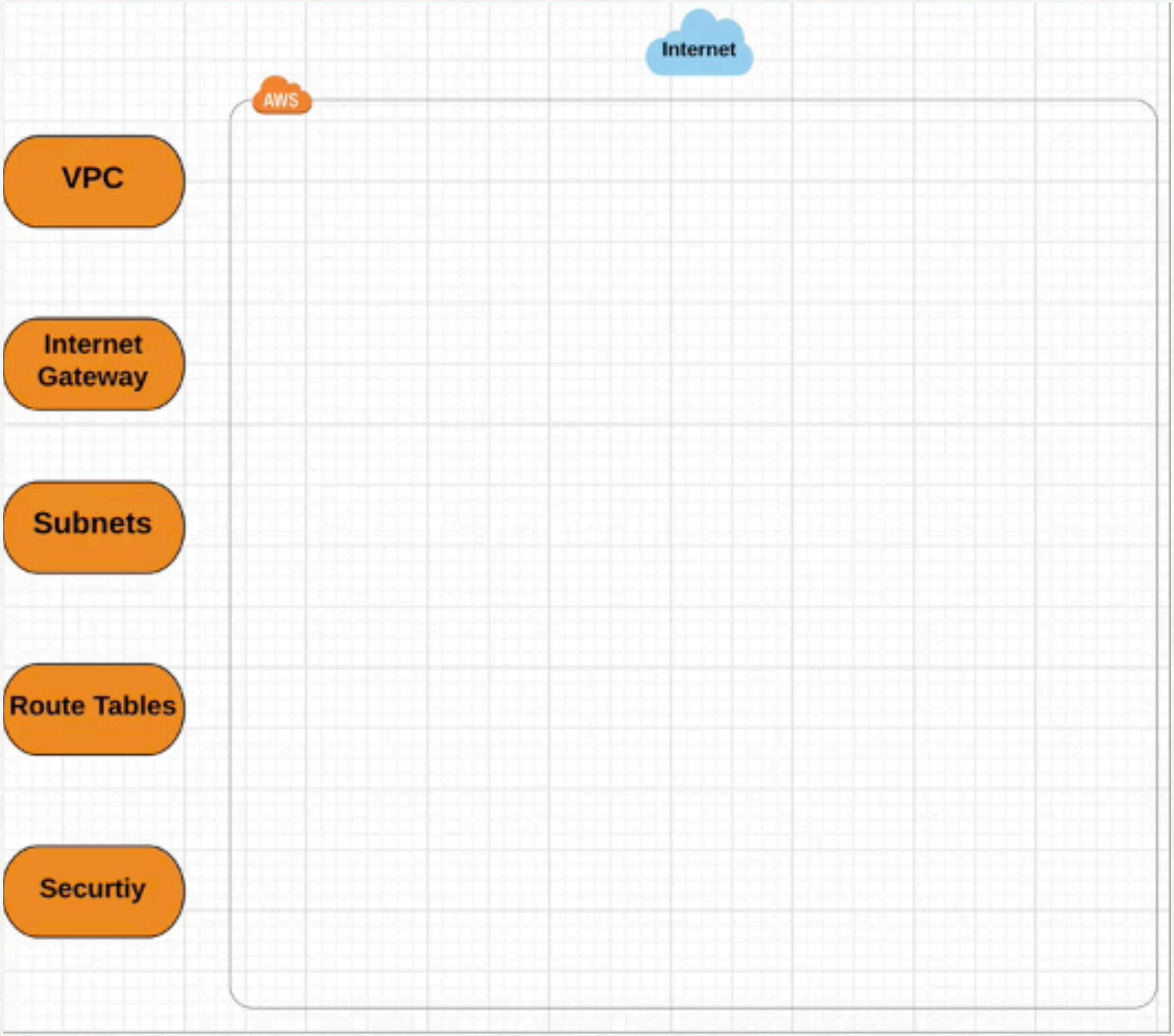
Subnets

Route Tables

Securtiy

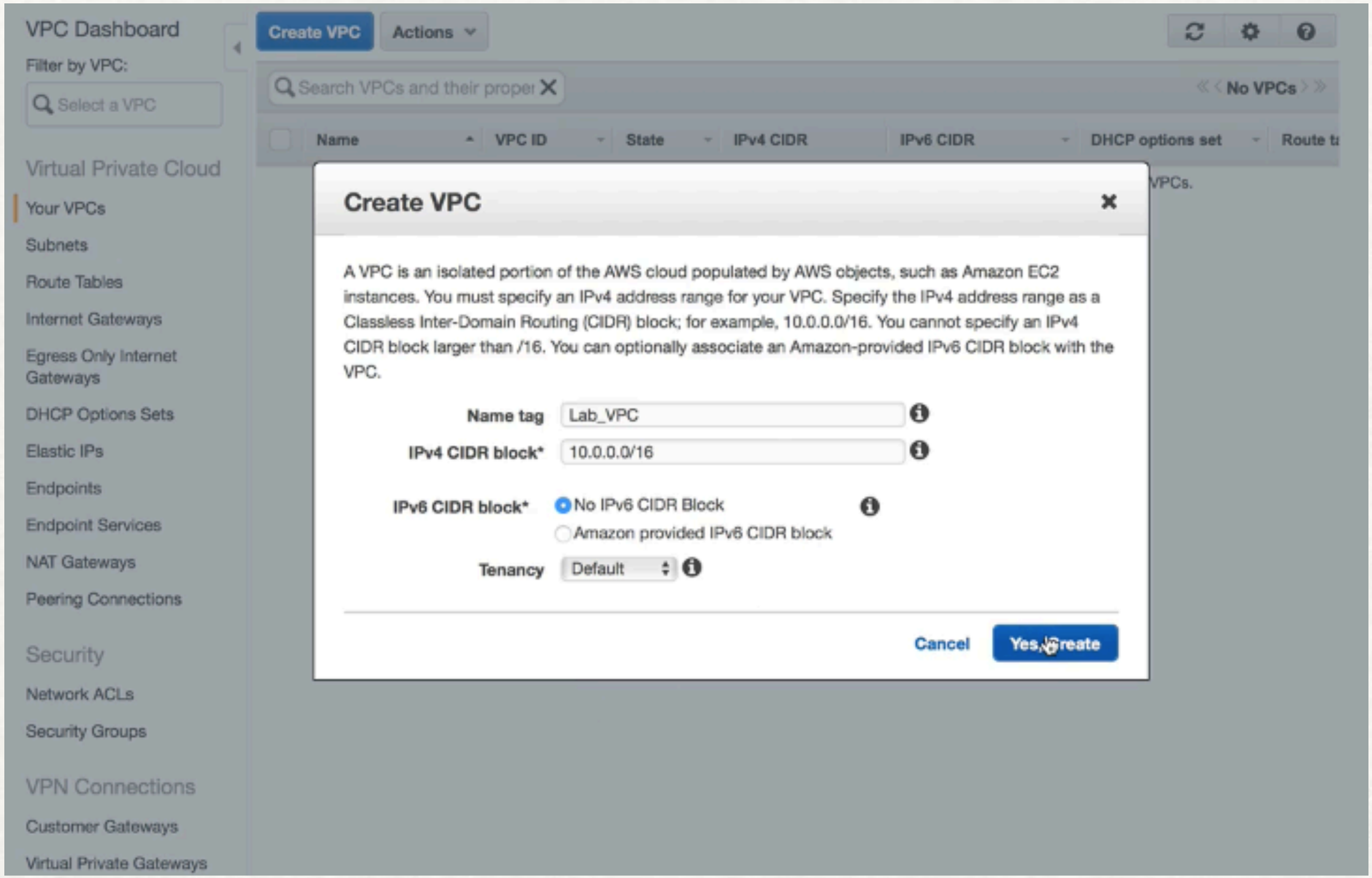


VPC


Internet
AWS
VPC
Internet Gateway
Subnets
Route Tables
Securtiy

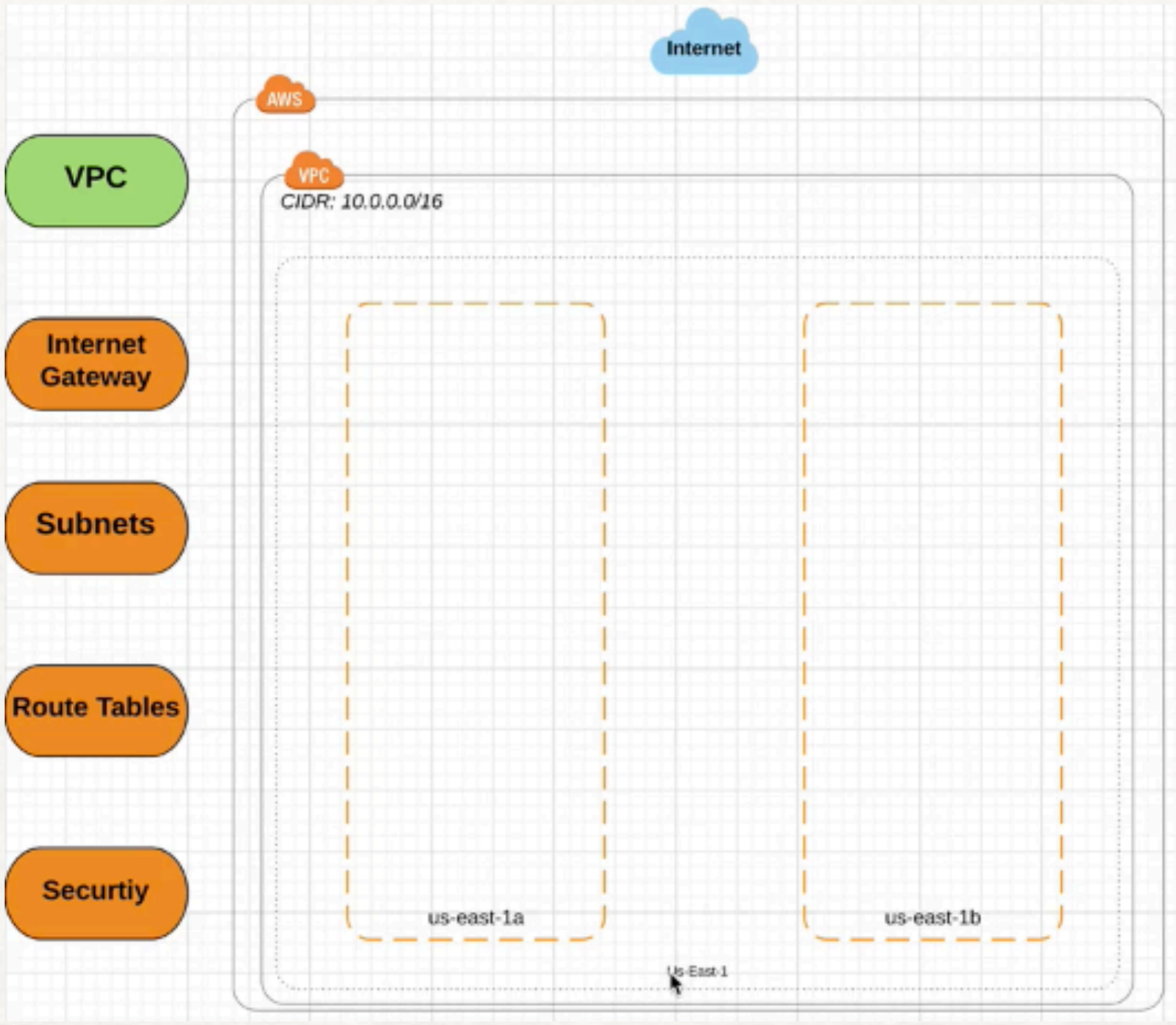
Create a VPC

CREATE A VPC

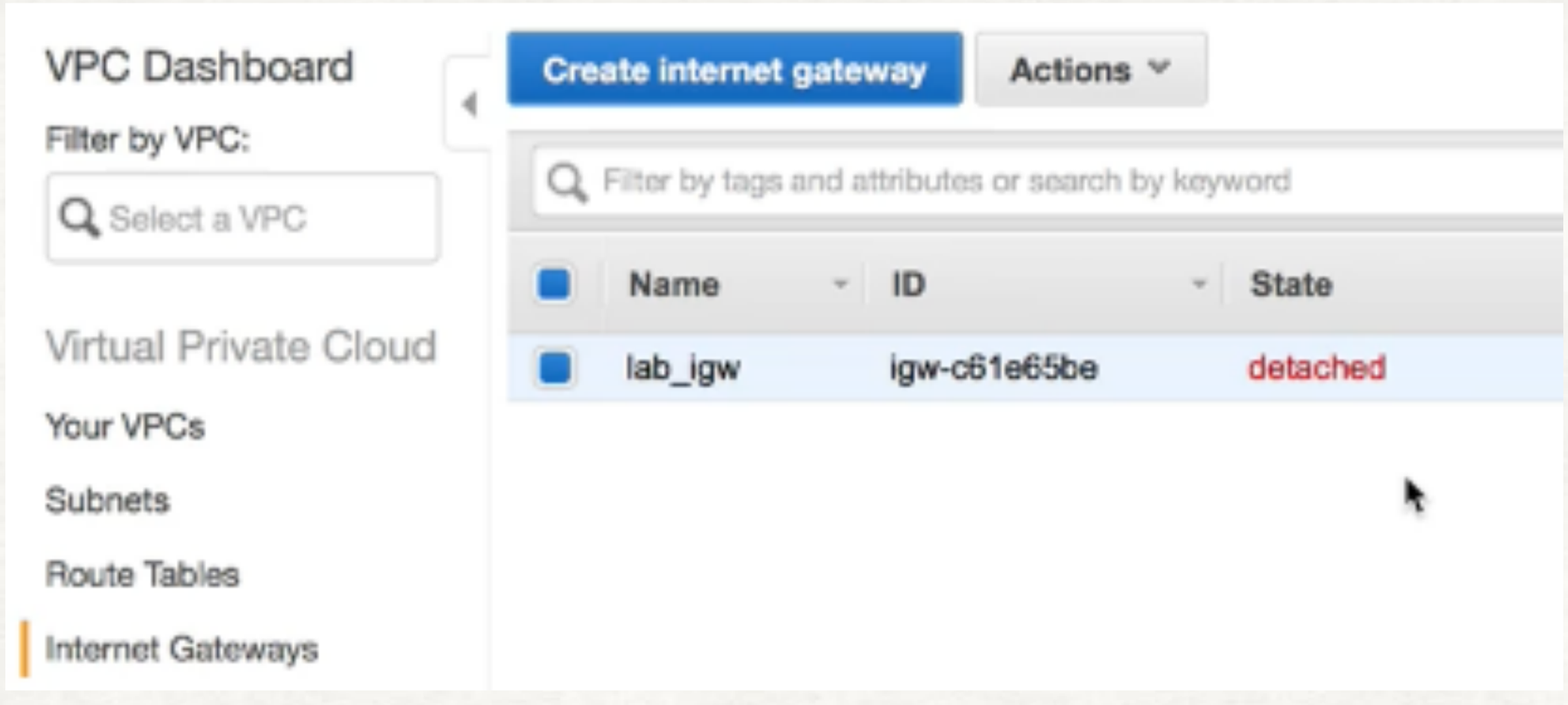


Click on Yes

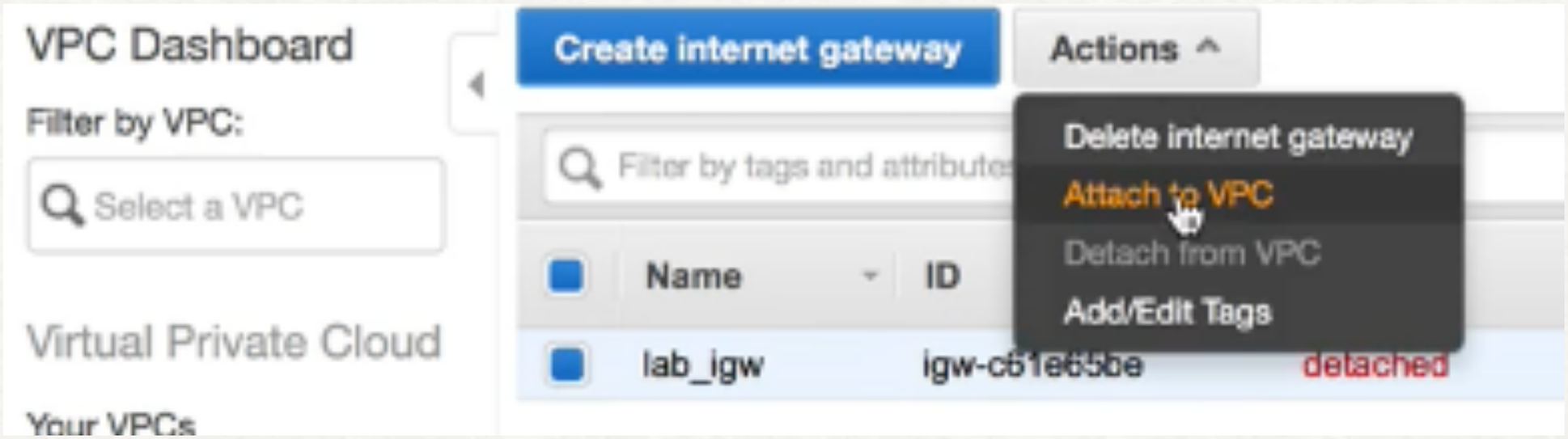
VPC IS CREATED WITH 2 SUBNETS



VPC

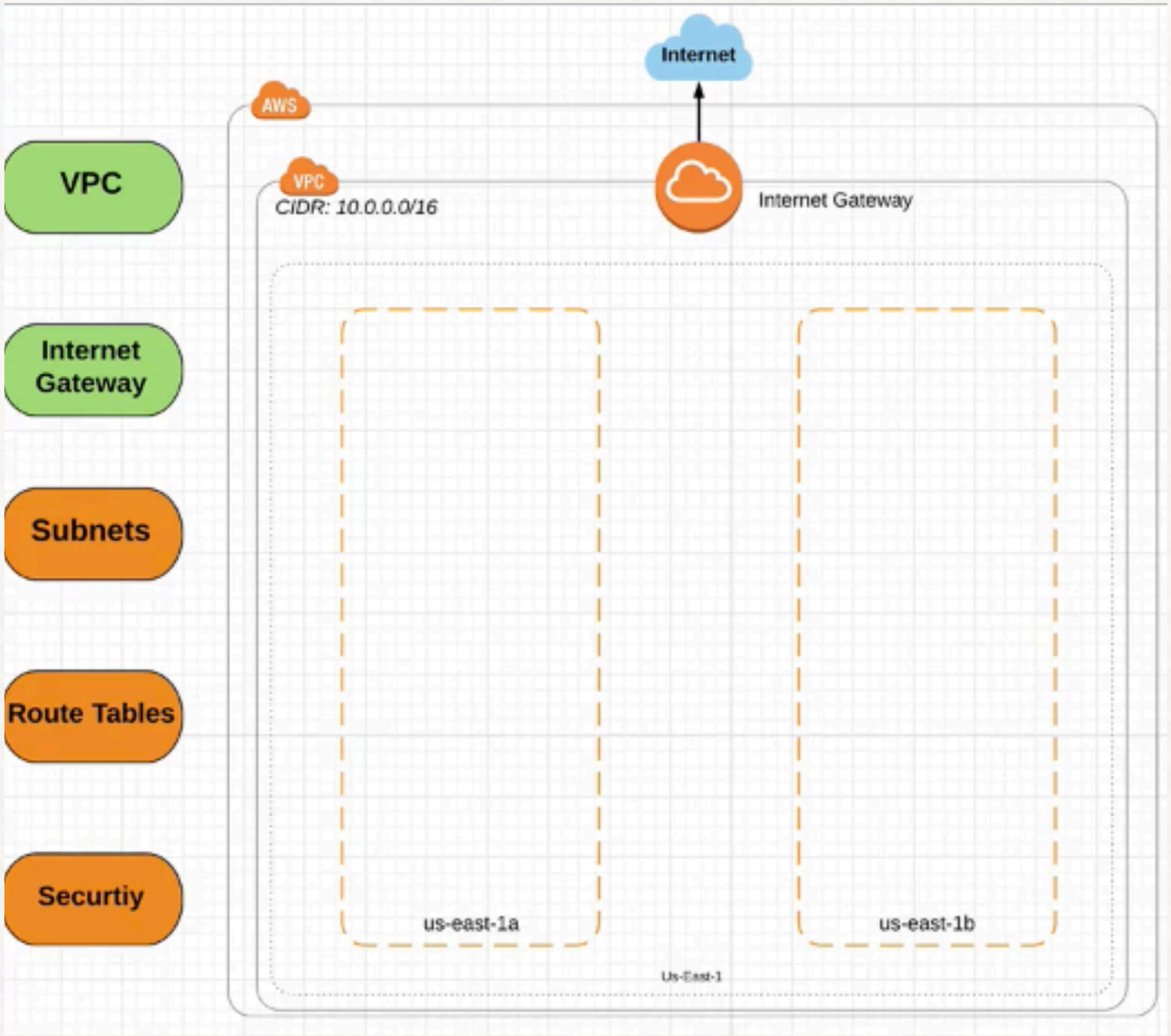


Go to Actions



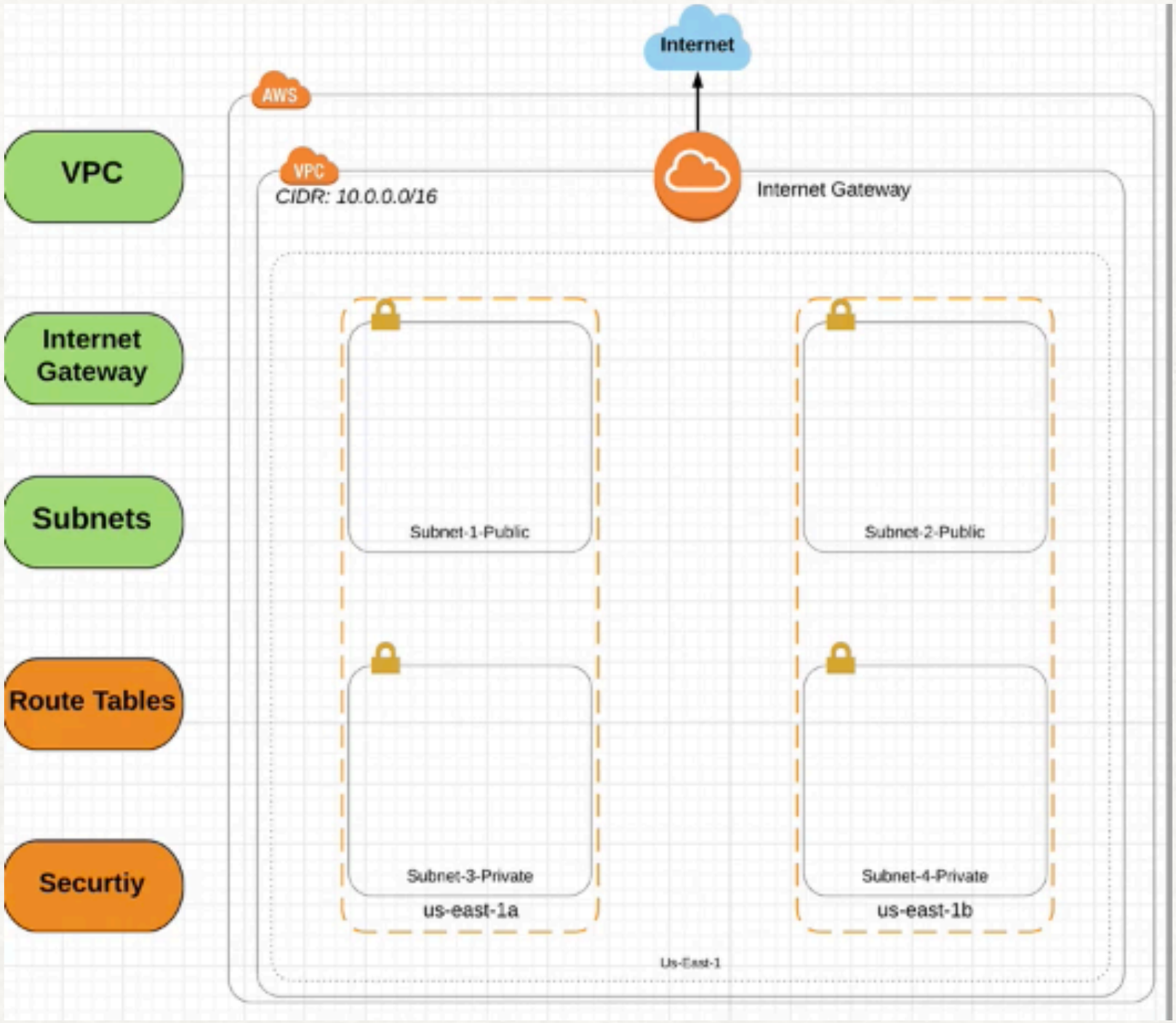
Attach to newly created VPC

IGW HAS BEEN CREATED



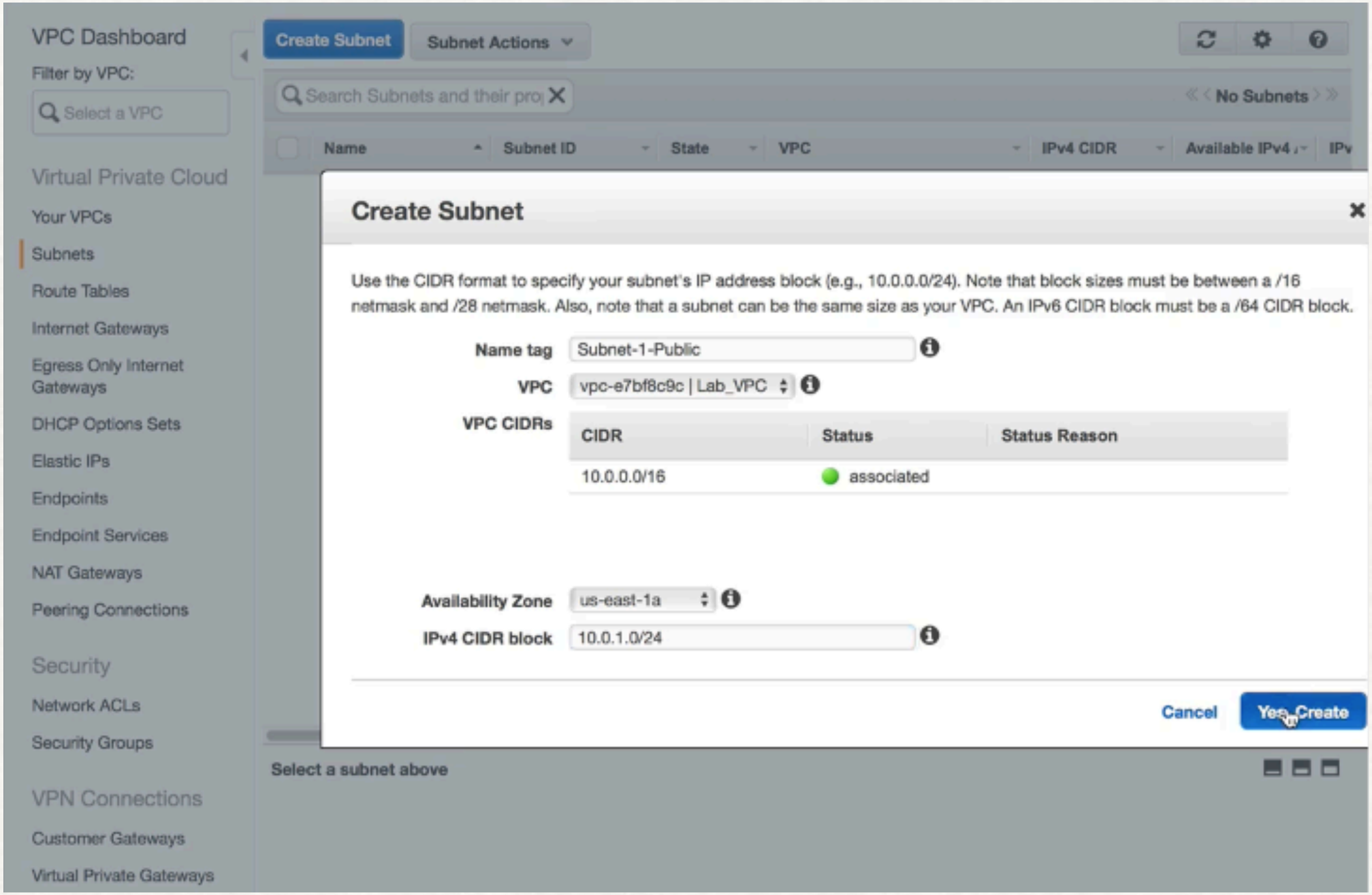
IGW

LET'S CREATE SUBNETS



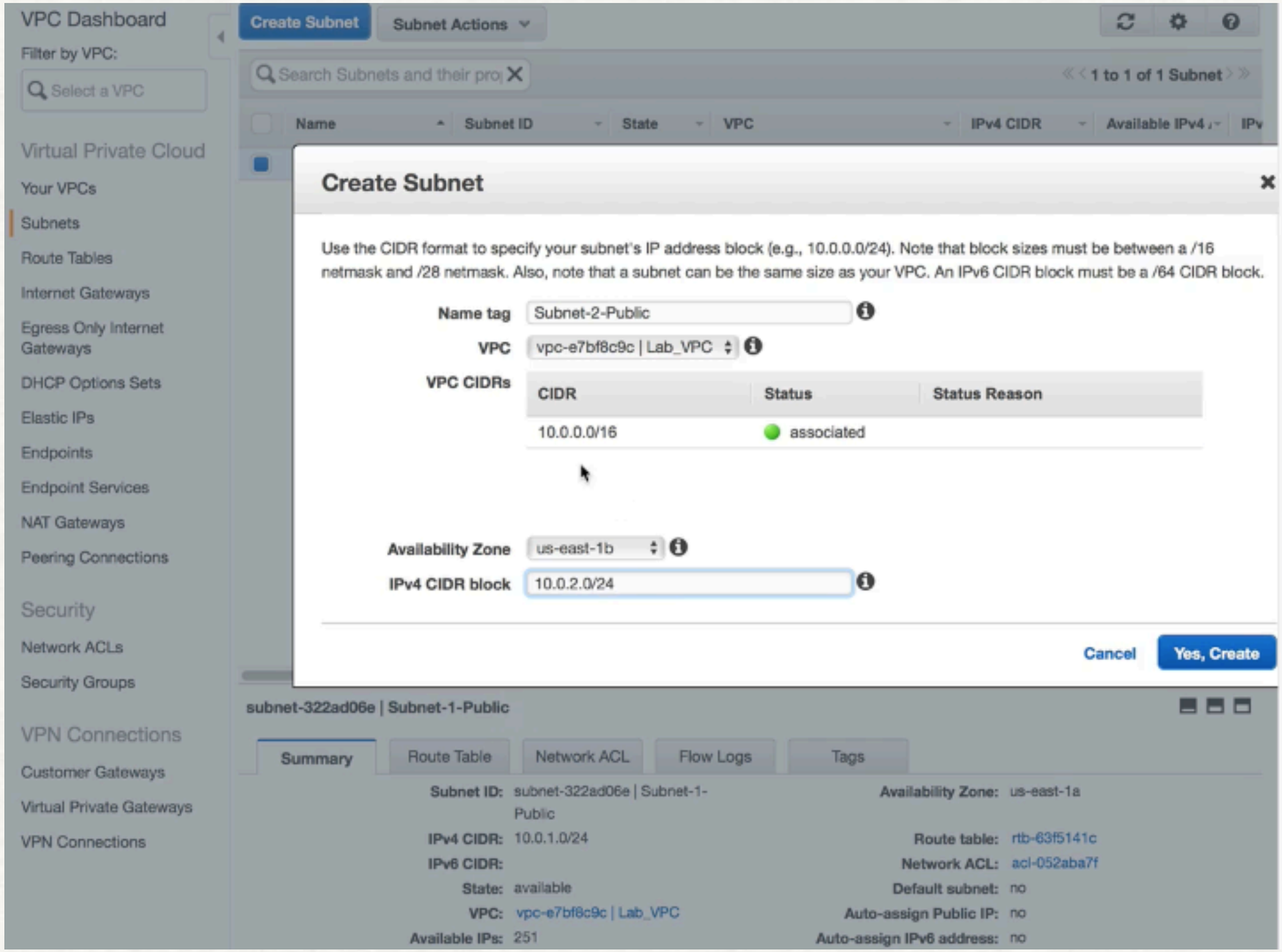
4 Subnets i.e. 2 Public & 2 Private Subnets

STEP-1 : PUBLIC SUBNET-1



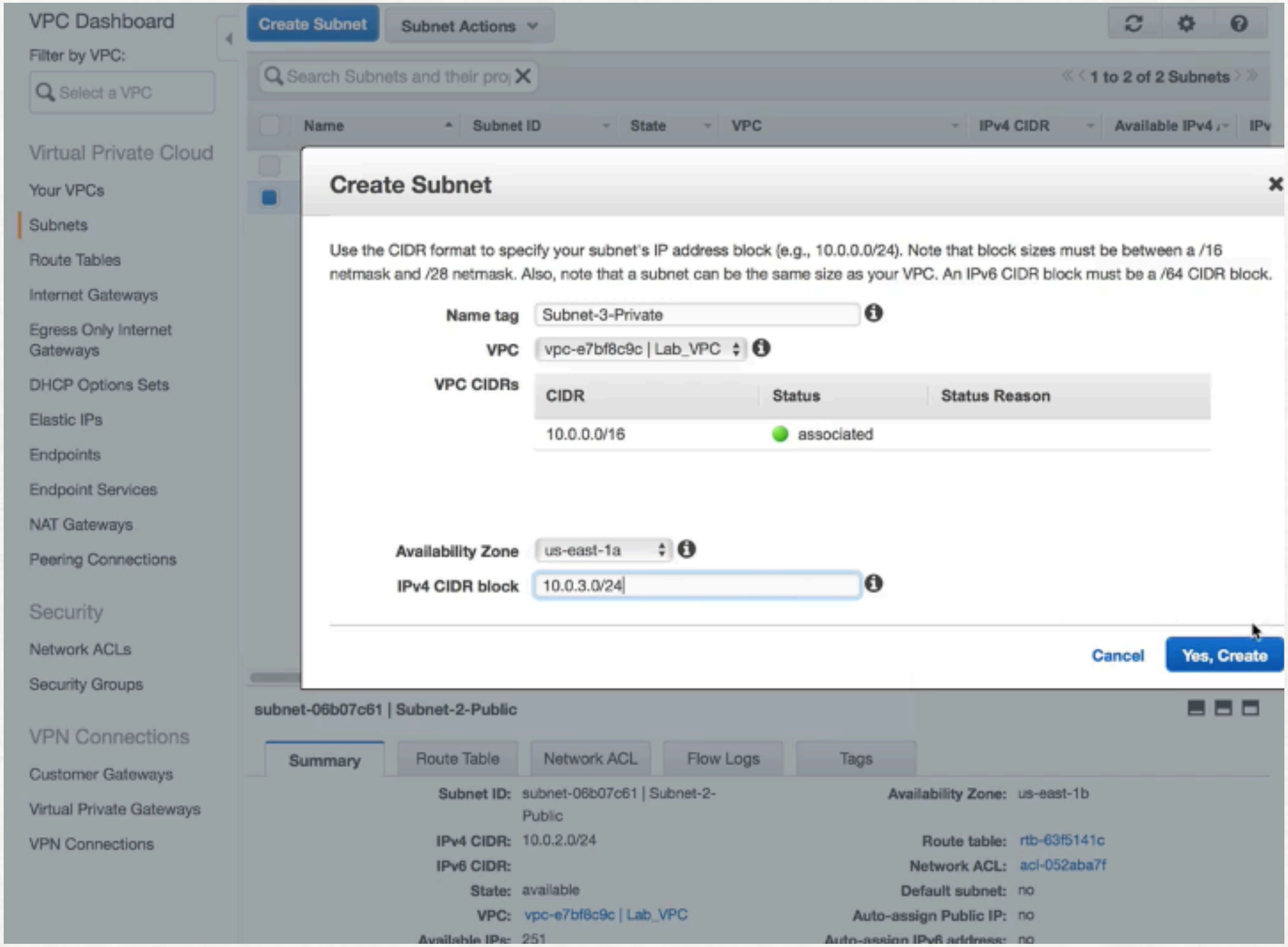
Click “Yes, Create”

STEP-2 : PUBLIC SUBNET-2



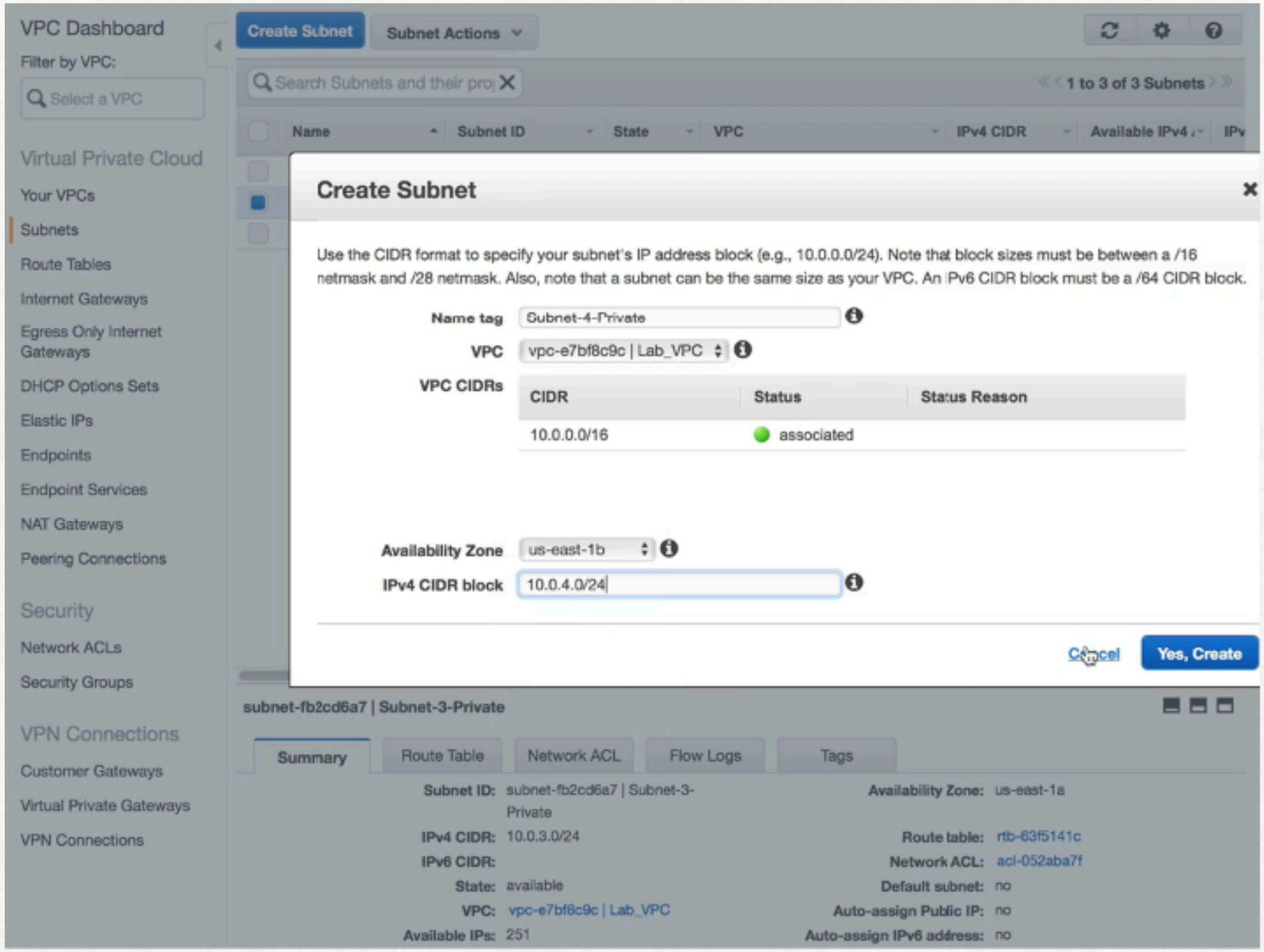
Click on Yes, Create

STEP-3 : PRIVATE SUBNET-3



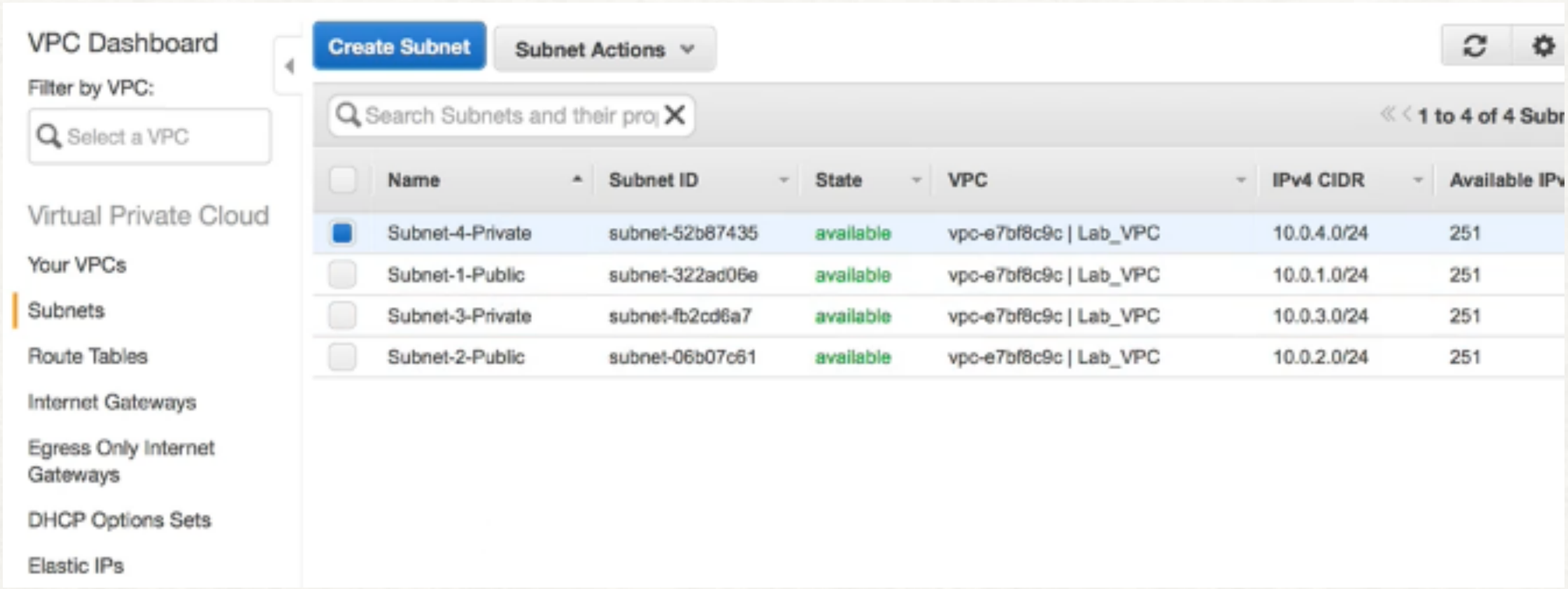
Click on “Yes, Create”

STEP-4 : PRIVATE SUBNET-4



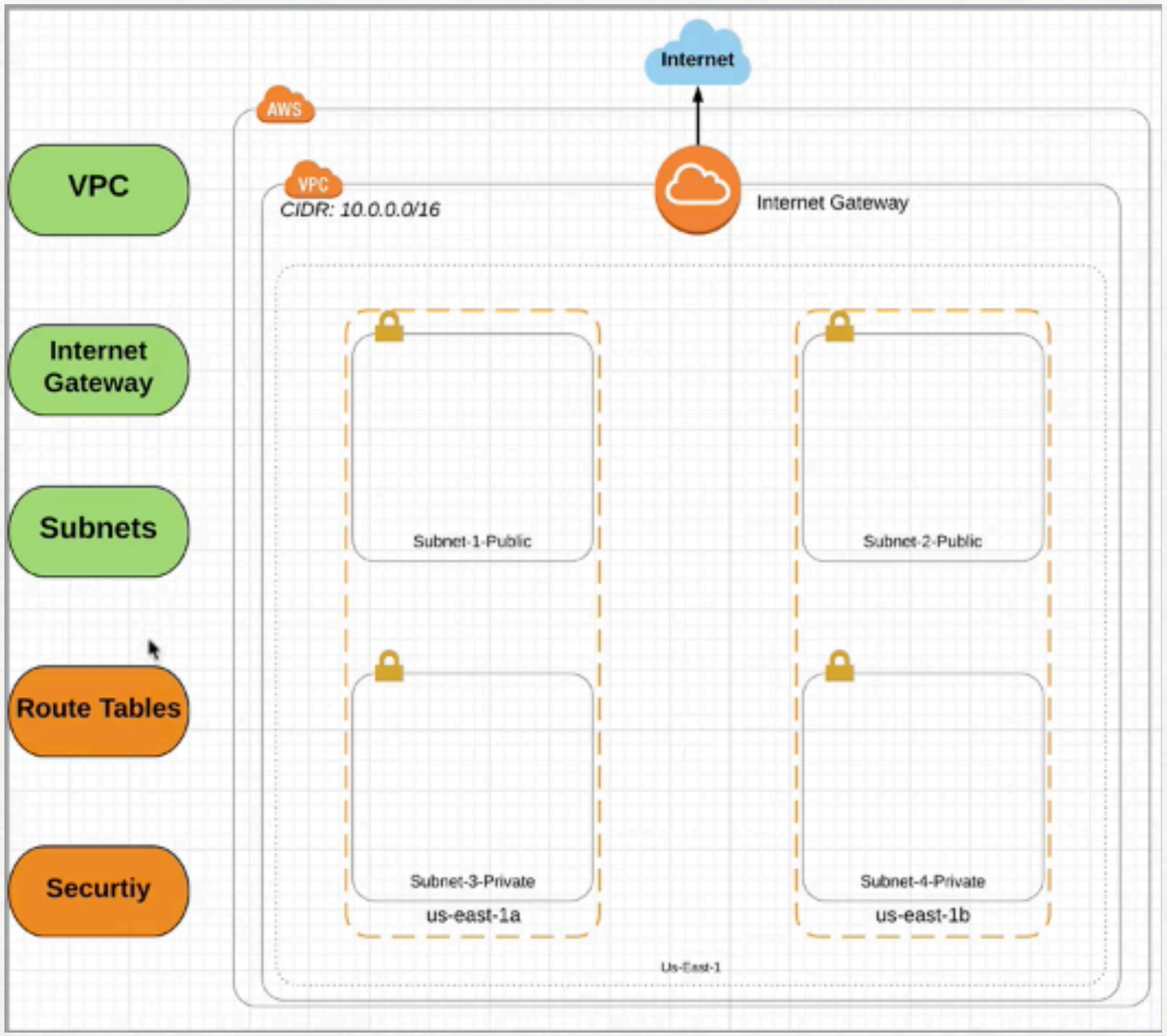
Click on “Yes, Create”

4 SUBNETS WERE CREATED SUCCESSFULLY



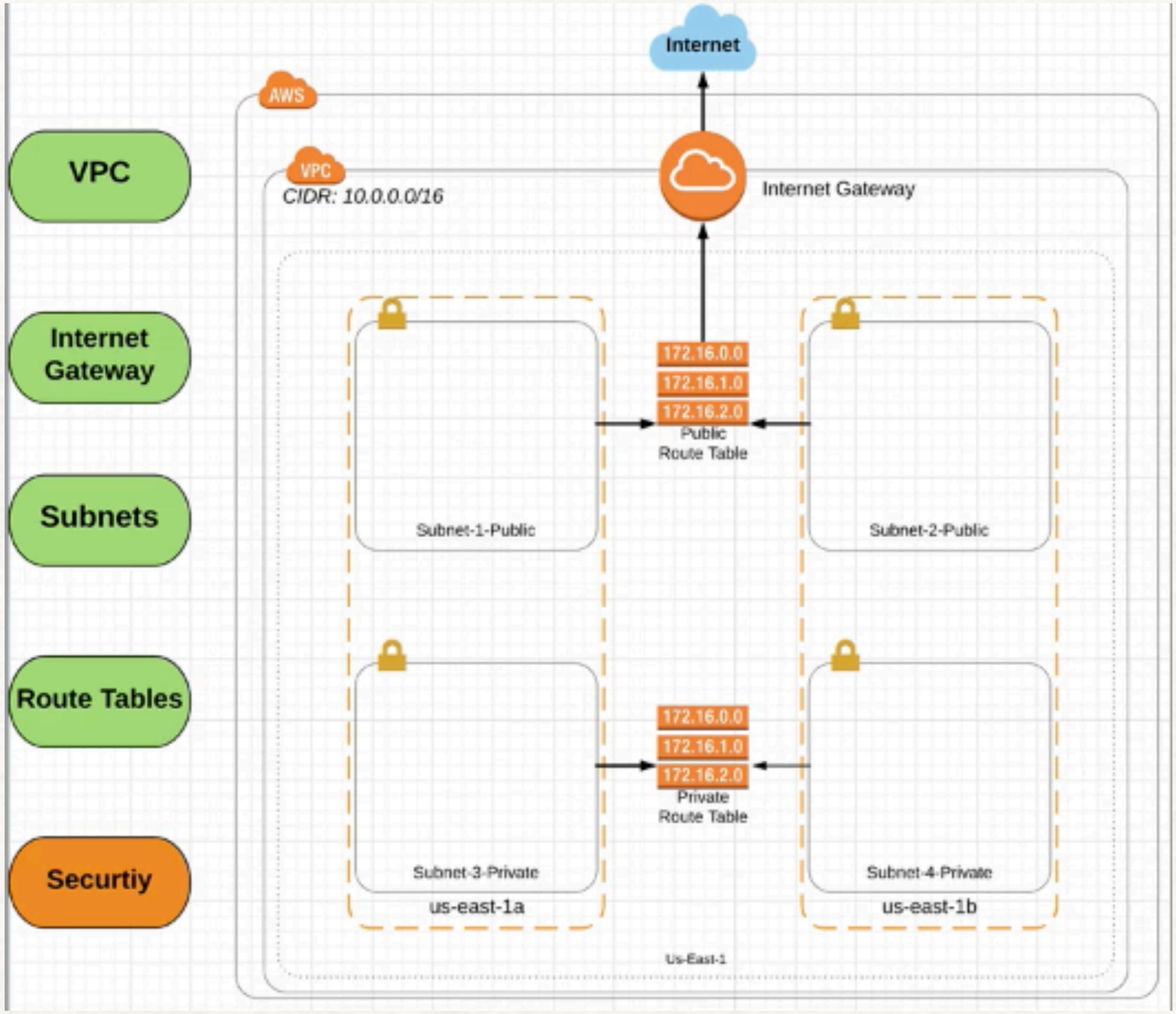
2 Public & 2 Private Subnets

VPC, IGW & SUBNETS WERE CREATED



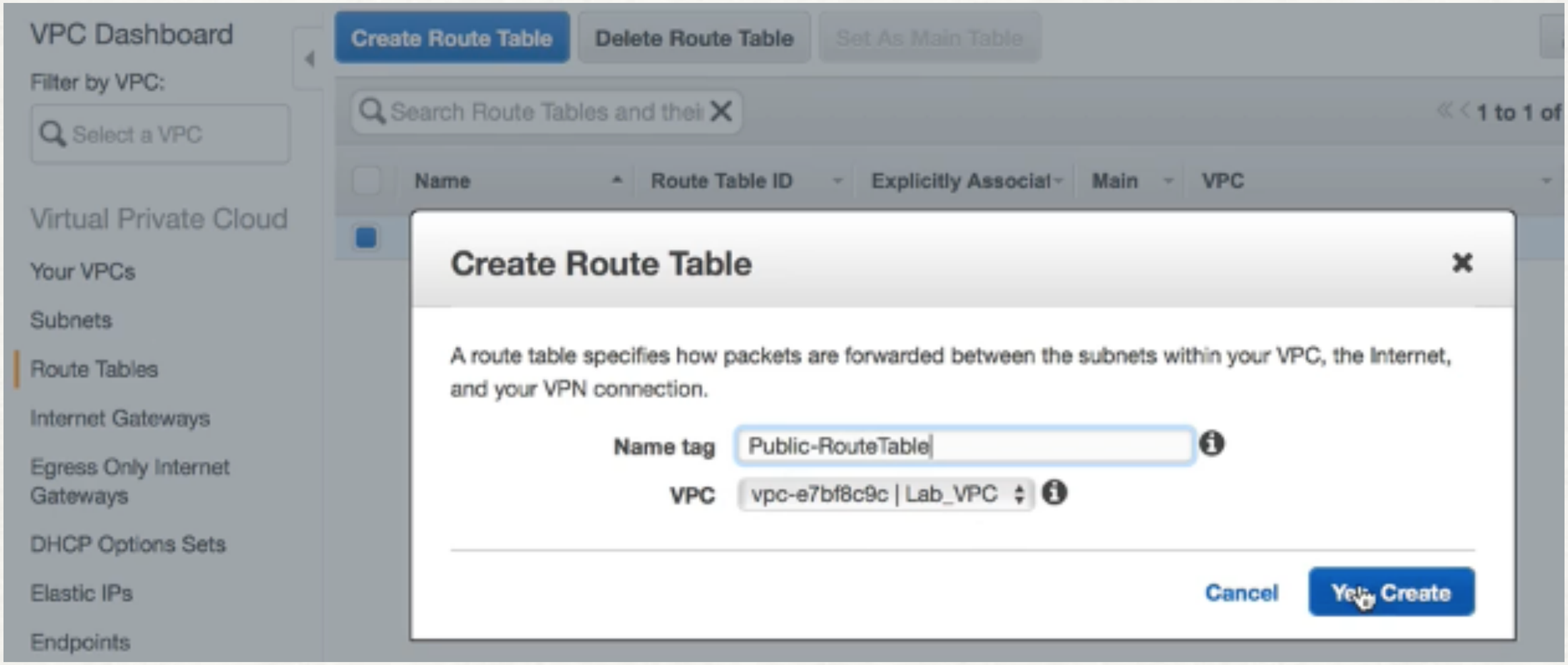
Continue with Route Tables

CREATE 2 ROUTE TABLES



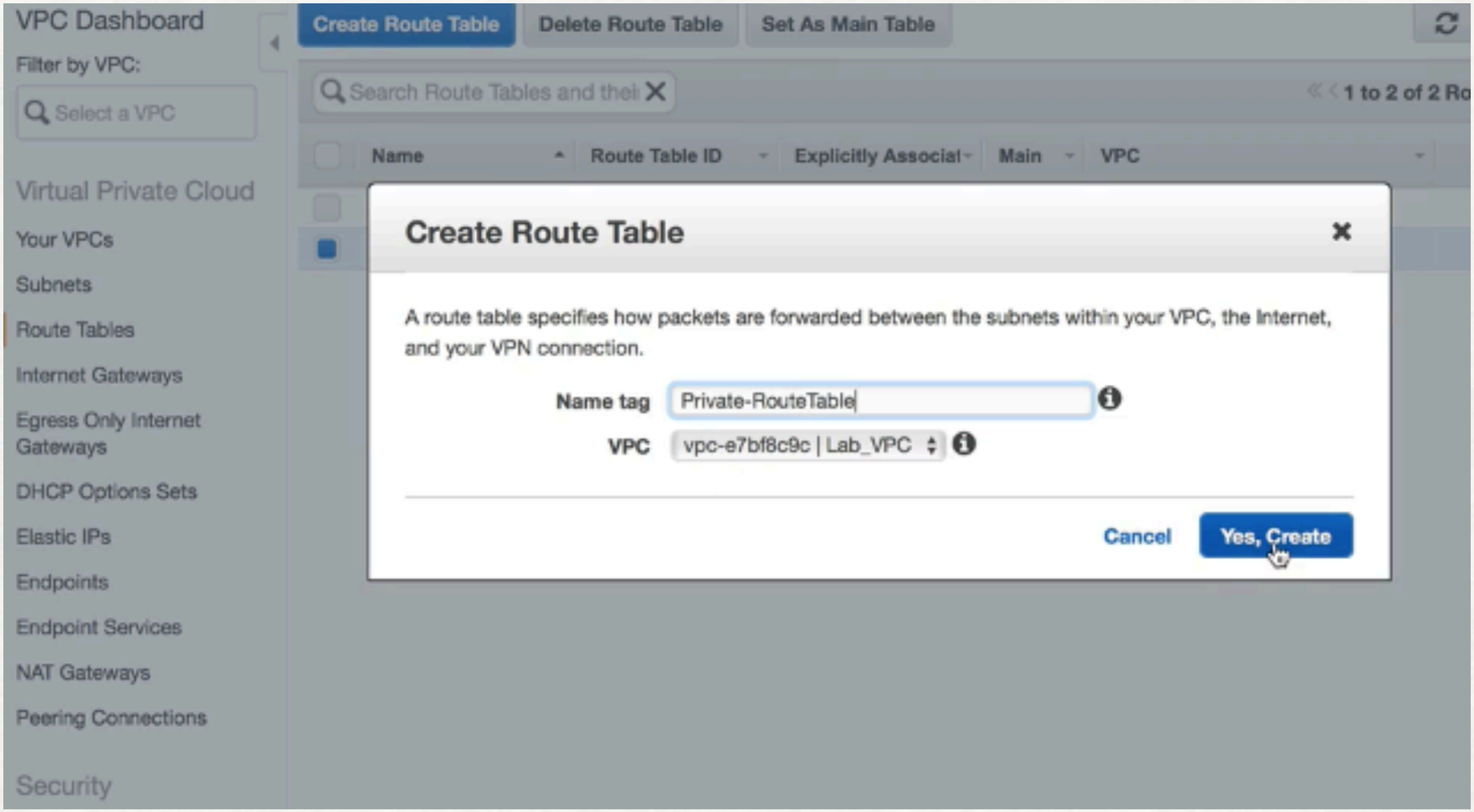
1. Public & 1. Private Route Tables

STEP-1 PUBLIC ROUTE TABLE



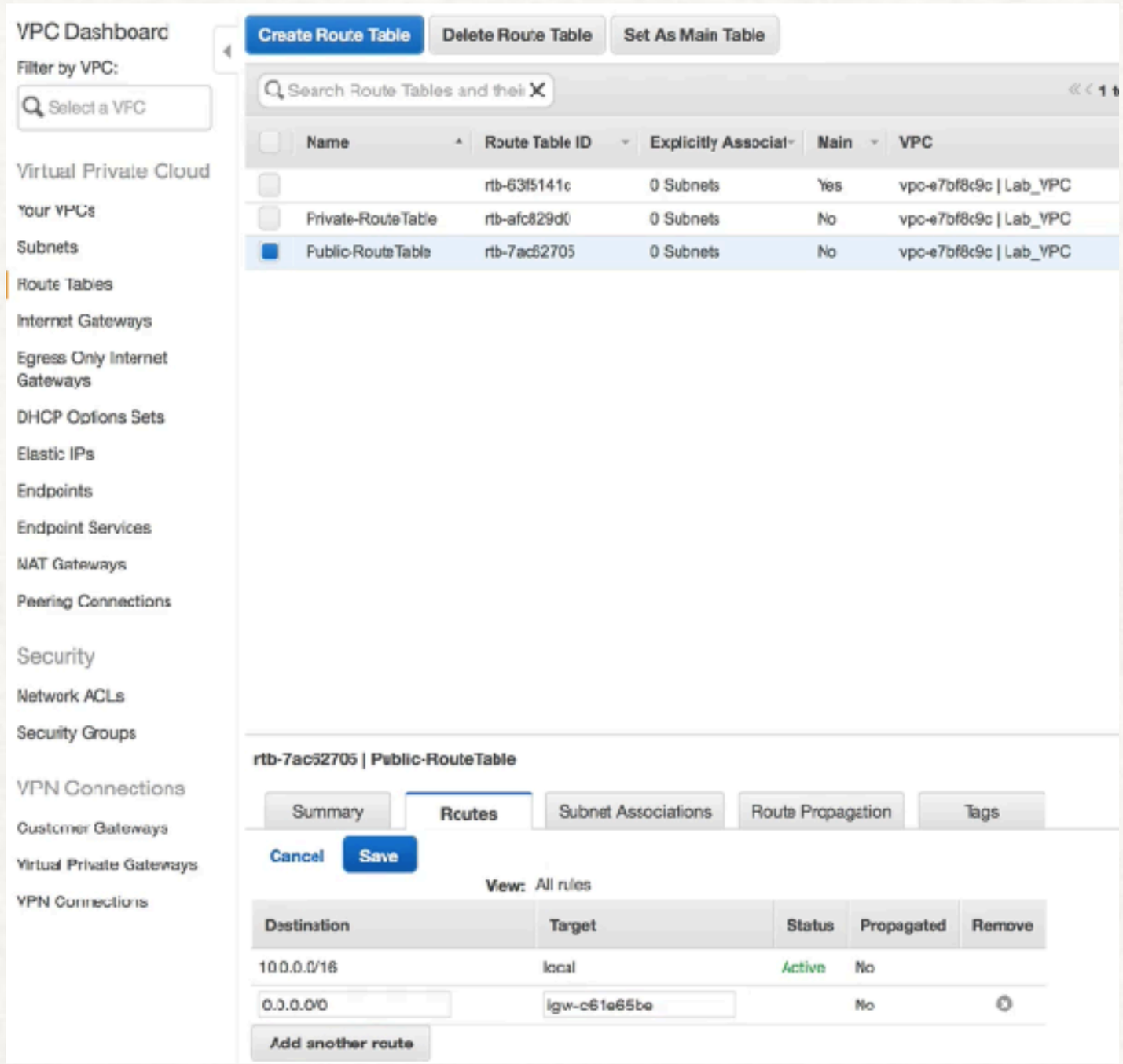
Public Route Table

STEP-2 : PRIVATE ROUTE TABLE



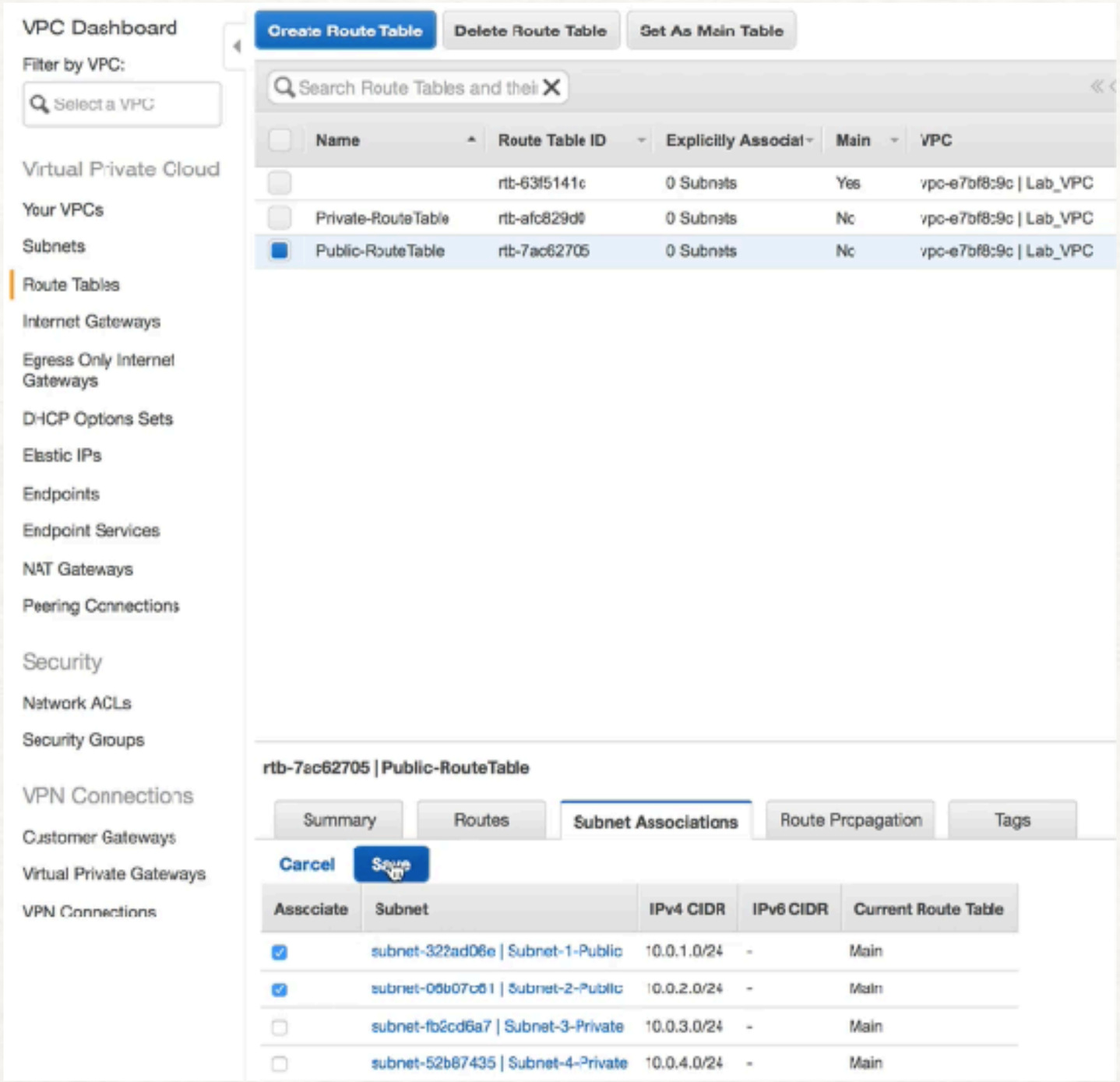
Private Route Table

ROUTES TRAFFIC VIA IGW



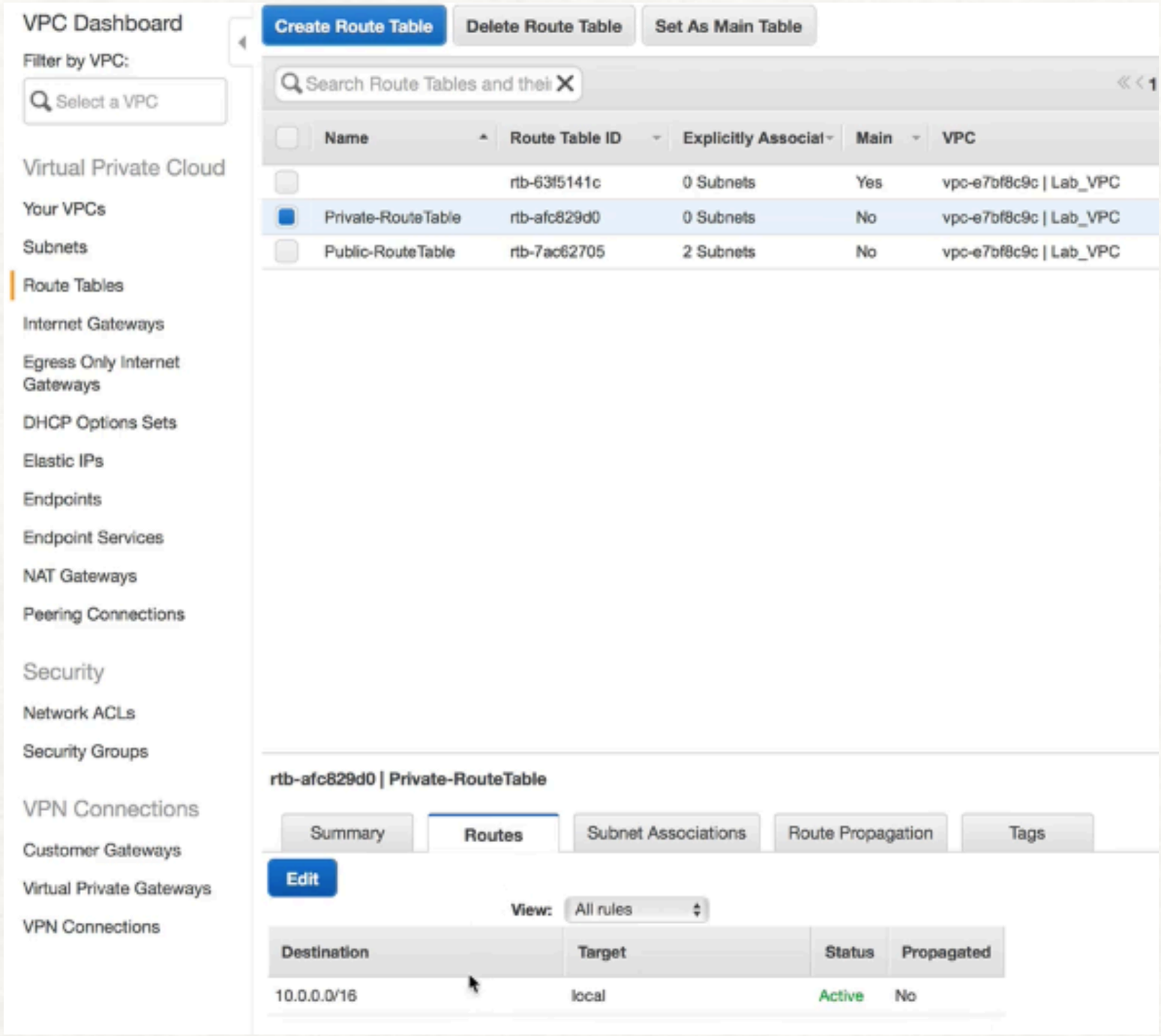
Route IGW on IPV4

SUBNET ASSOCIATIONS WITH PUBLIC SUBNETS



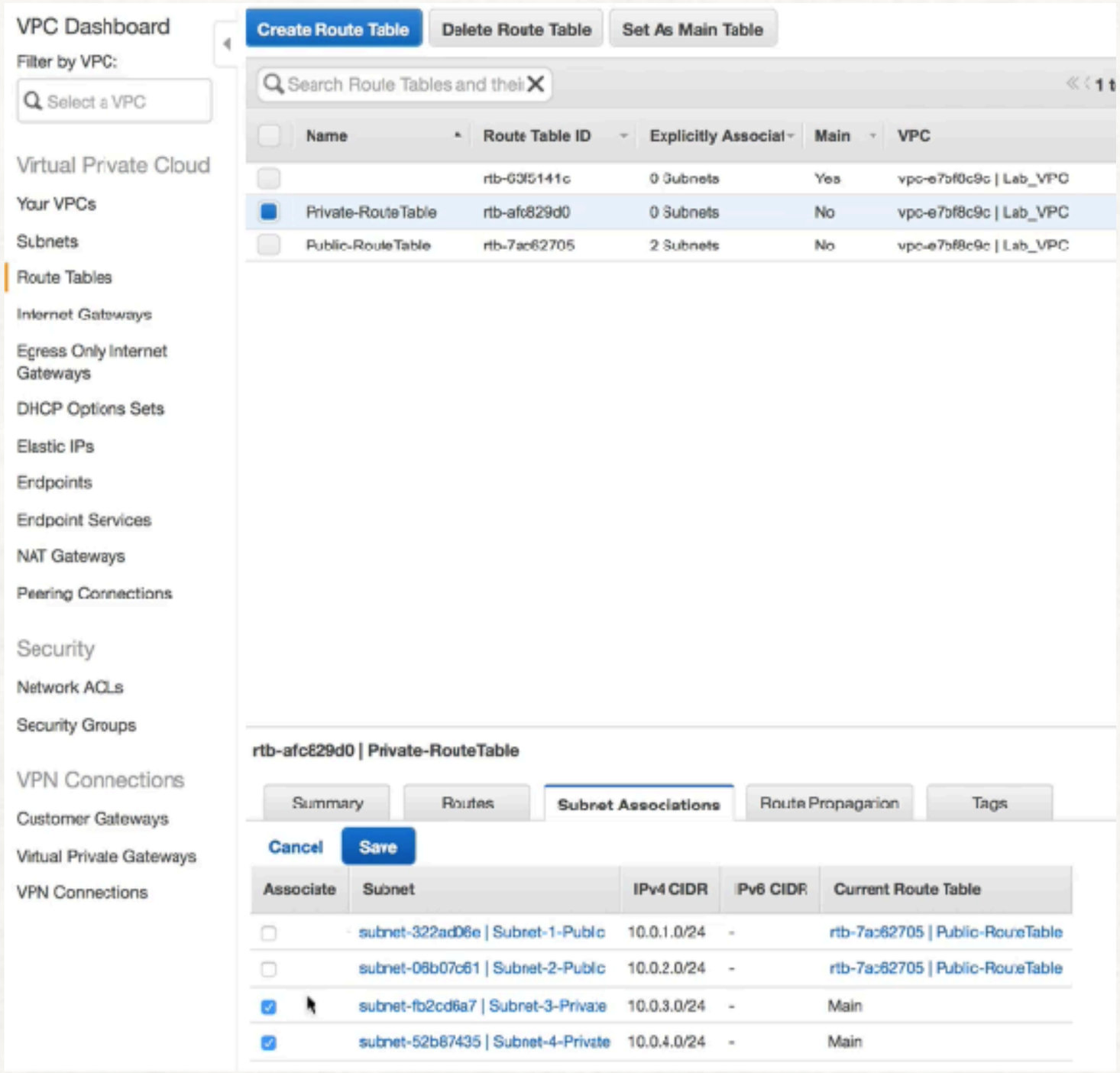
Click on Public Subnet 1 & 2

NO NEED TO ROUTE WITH PRIVATE SUBNETS



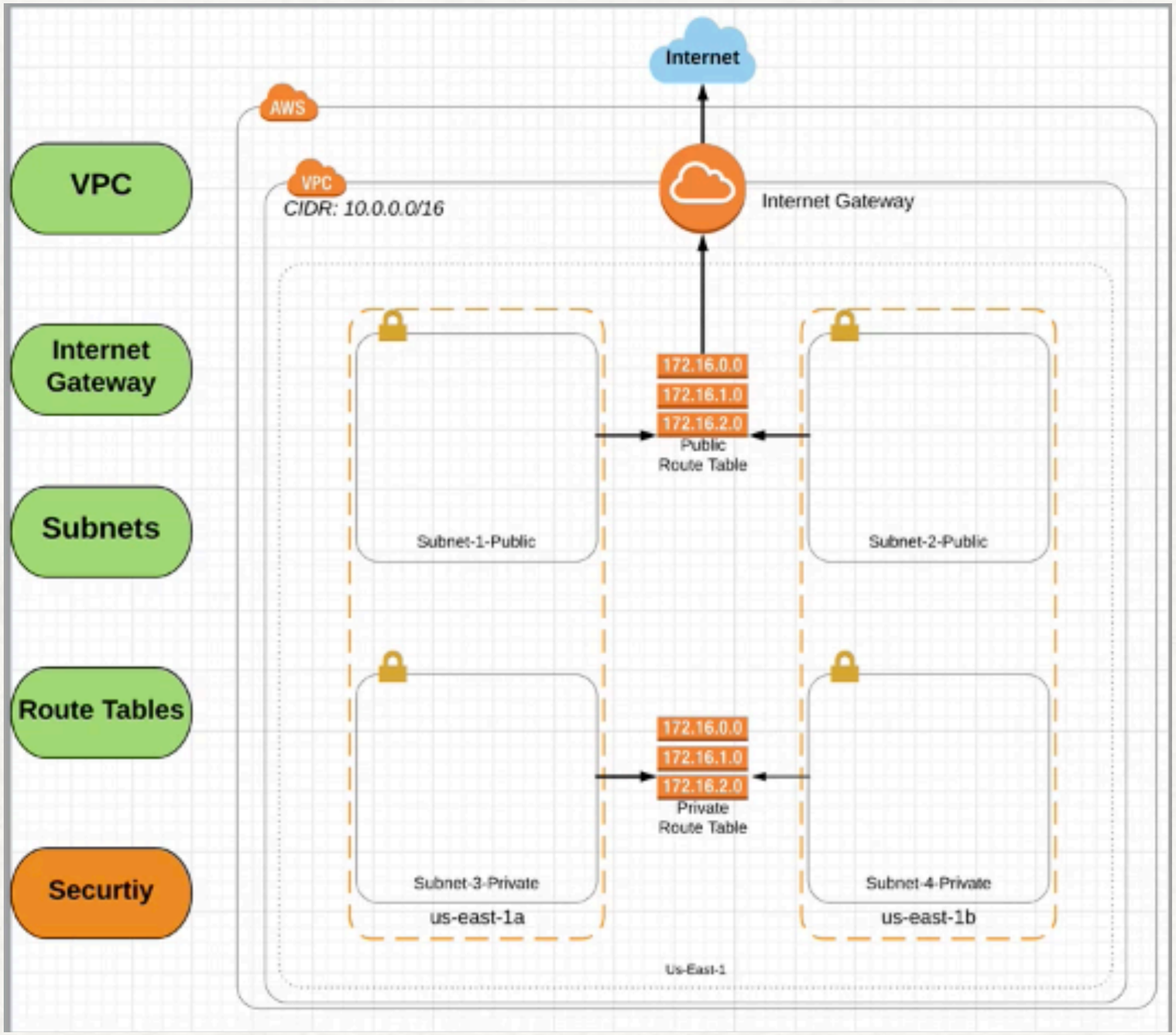
Click on Subnet Associations

ADD SUBNET ASSOCIATIONS WITH PRIVATE SUBNETS



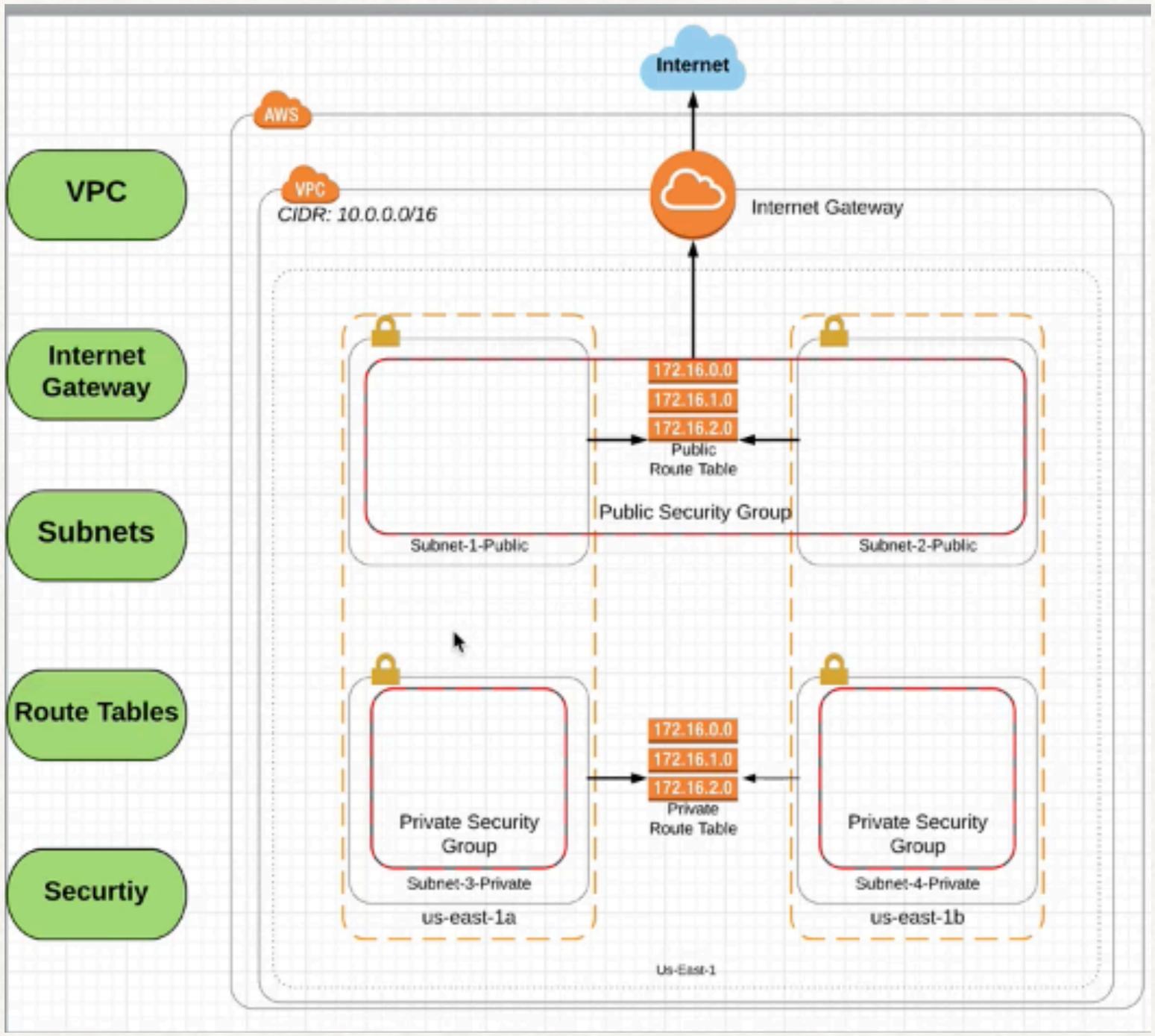
Click on Save

ROUTE TABLES & SUBNETS WERE CREATED SUCCESSFULLY



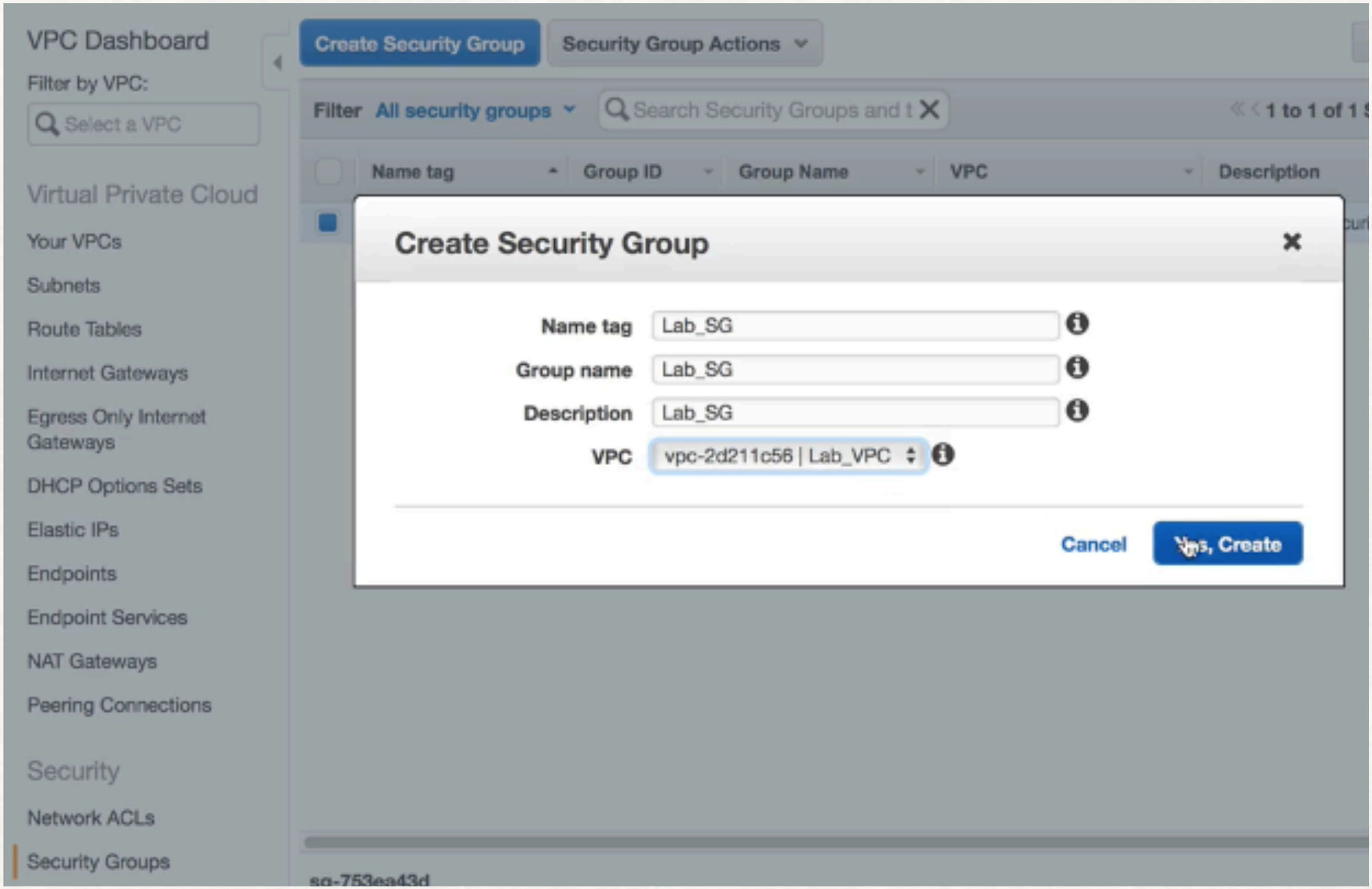
Route Tables are created

SECURITY - STATEFUL & STATELESS



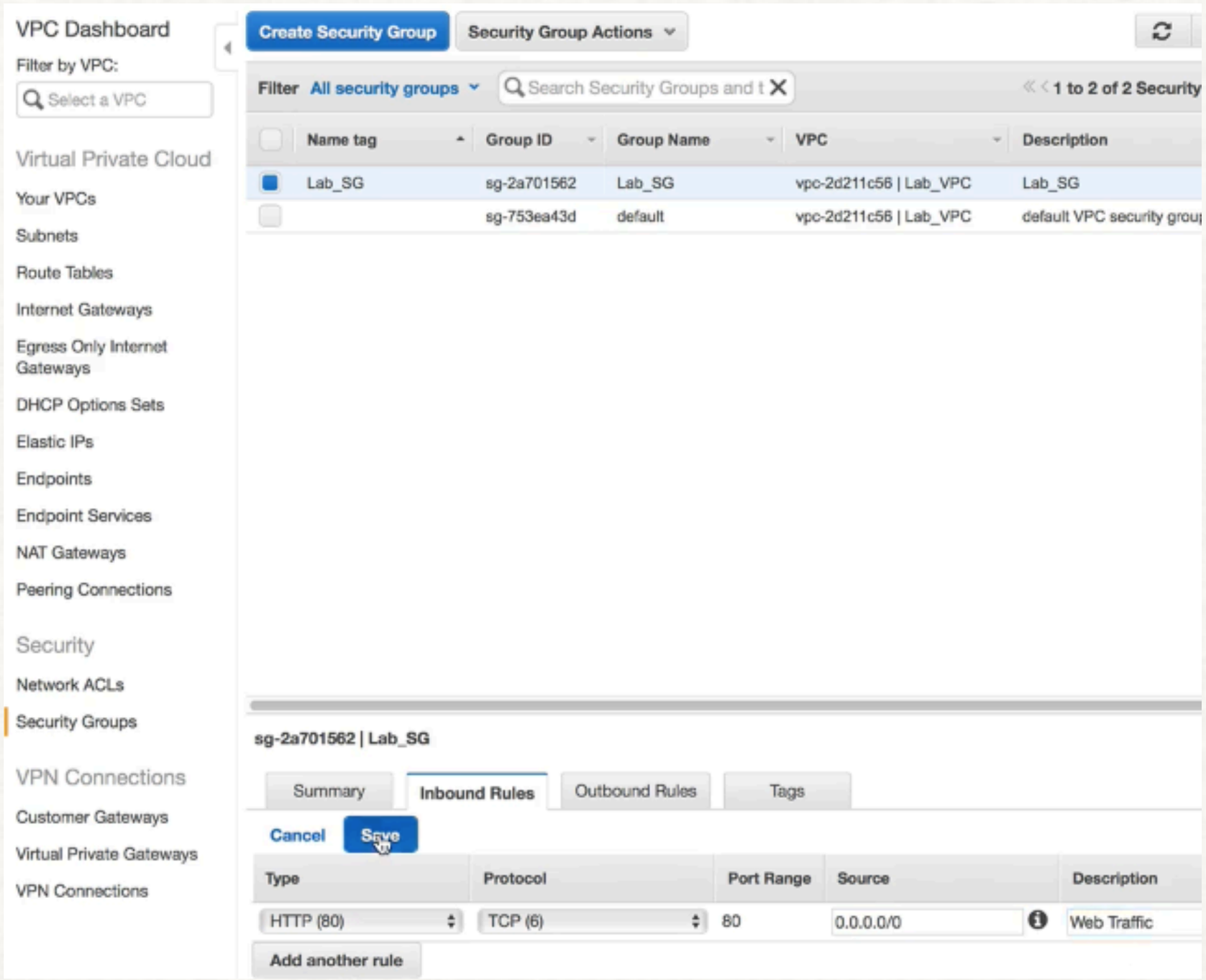
Security Groups

CREATE SECURITY GROUP ON PUBLIC SUBNET



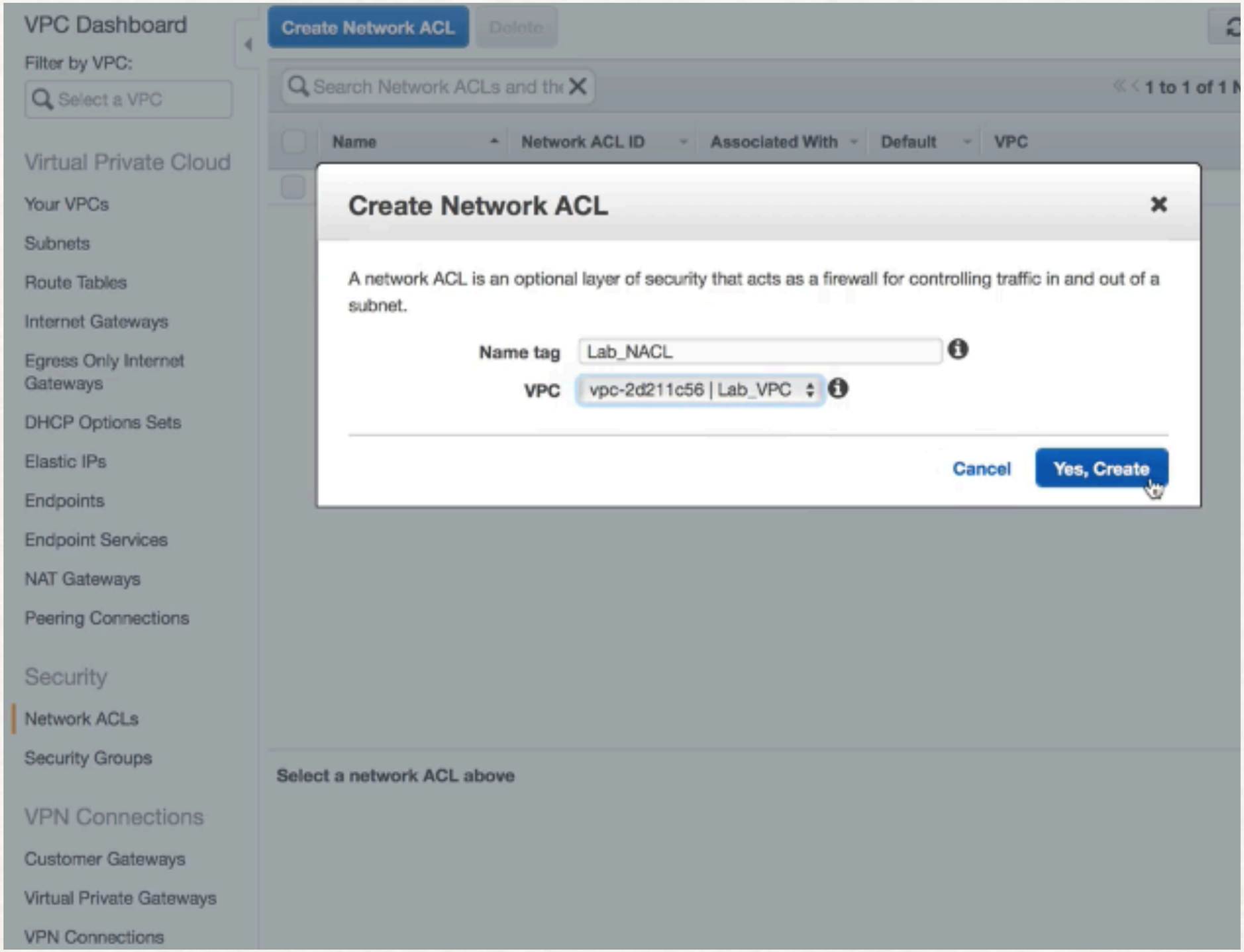
Stat-full Security Group

ENABLE THE HTTP PORT PART OF SECURITY GROUP



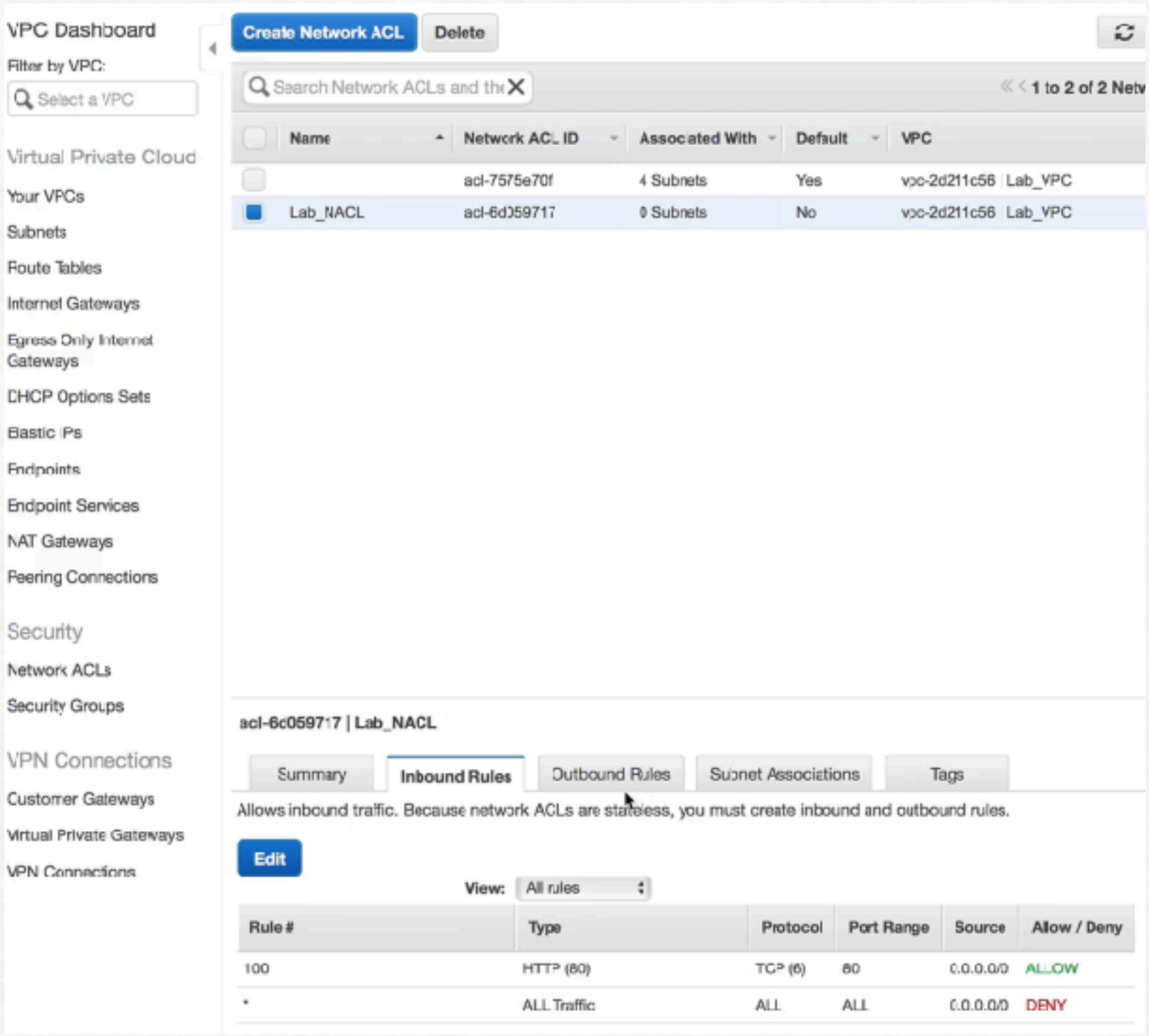
Click on Save

LET'S CREATE NACL



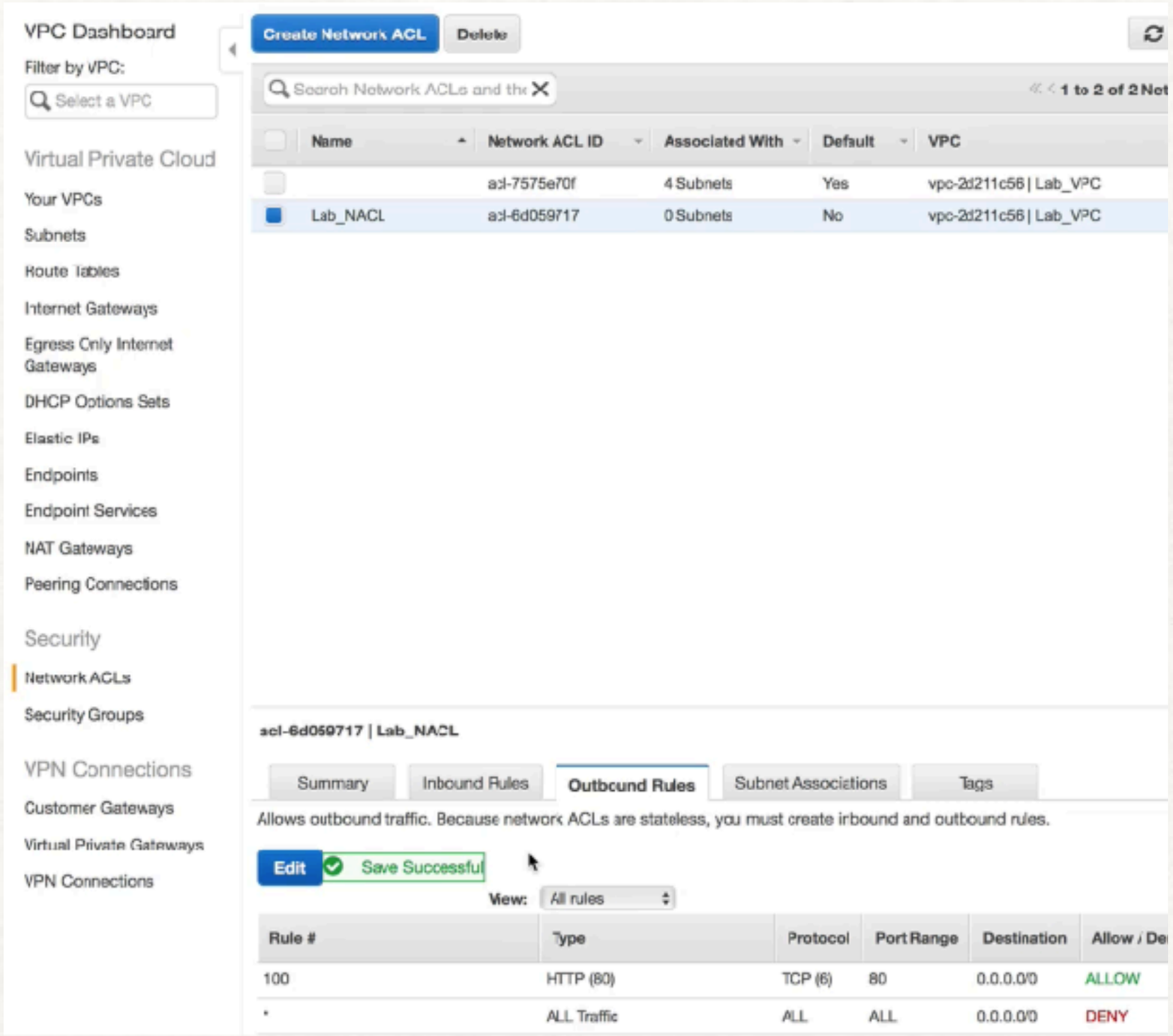
NACL

ALL HTTP PORT ON NACL



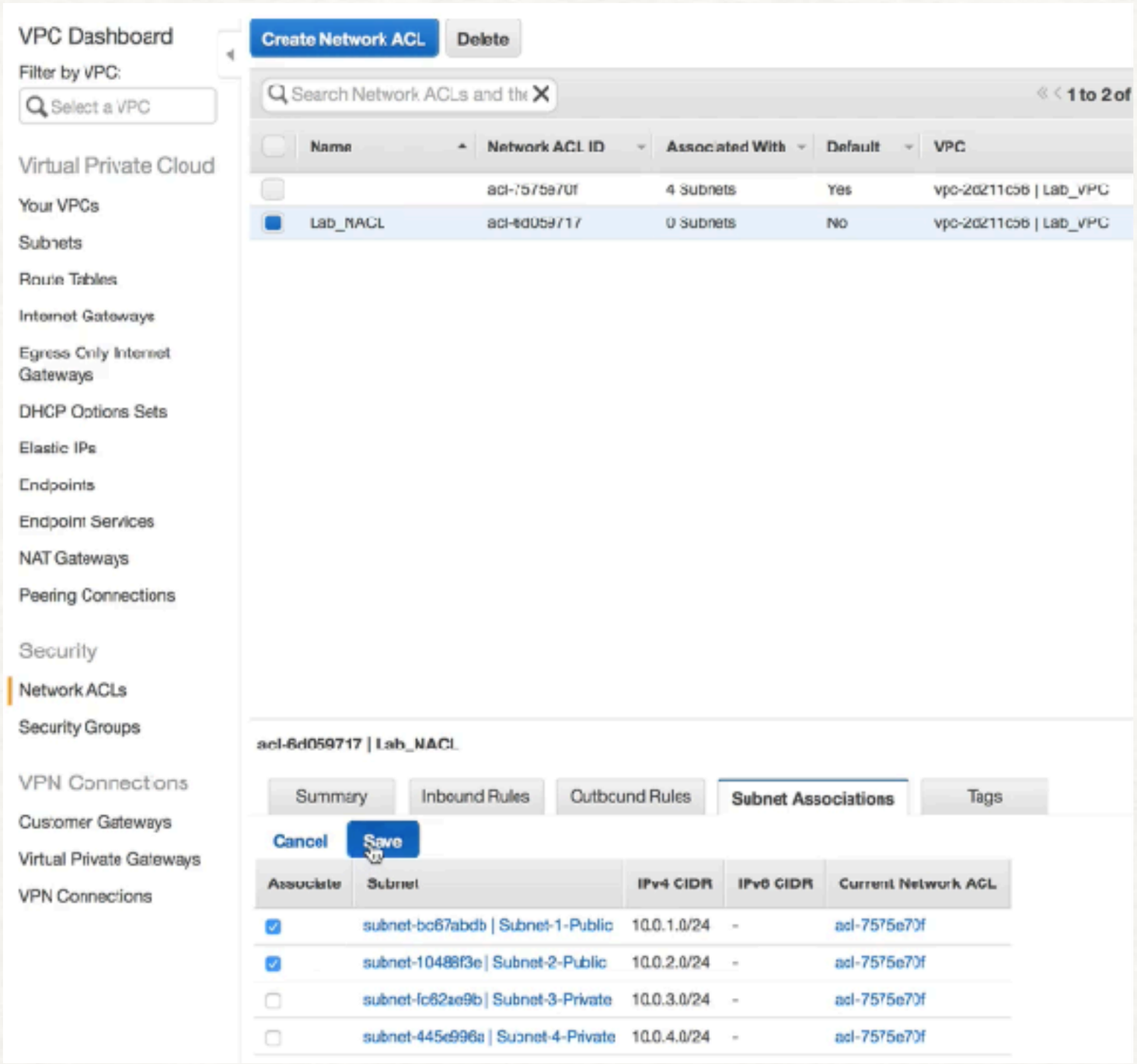
Under Inbound Rules

ALLOW PORT HTTP IN NACL



Under Outbound Rules

PUBLIC SUBNET ASSOCIATIONS WITH NACL'S



Public Subnets with NACL's