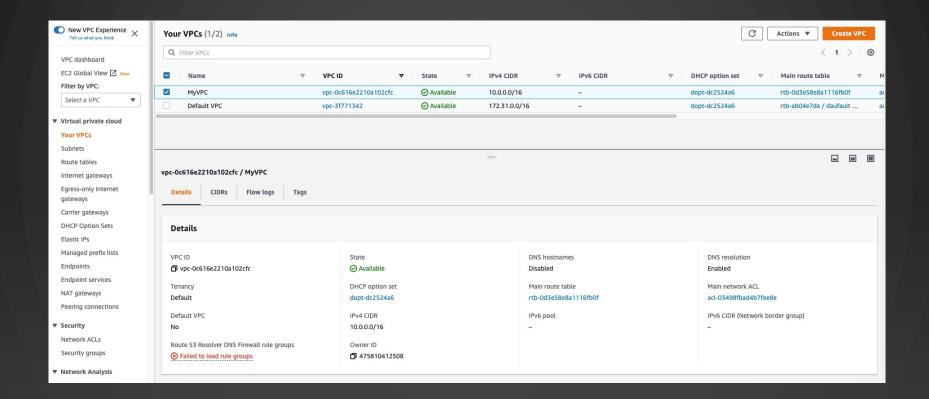
BUILD AMAZON VPC WITH PUBLIC AND PRIVATE SUBNETS (FROM SCRATCH)

- In this project I will walk you through the process of building Amazon VPC from scratch.
- Task Details:
 - Sign in to the AWS console
 - Create a New VPC
 - Create Subnets
 - Create and Configure Internet Gateway
 - Create Route Tables
 - Finally, Validate the project to show a completed lab.

TASK 1 & 2

- Task 1 is basically signing the AWS management console
- Once signed in to the console, make the default AWS Region as US East (N. Virginia) us-east-1.
- Task 2 is about creating a new VPC.
 - Name tag: VPC name(choose any proper name but I chose: MyVPC
 - IPV4 CIDR block: Enter 10.0.1.0/16
 - IPV6 CIDR block: no need to change this, make sure No IPV6 CIDR block is checked.
 - Tenancy: No need to change this, make sure Default is selected.
 - Once VPC is created, it will appear with details in the next slide

VPC DETAILS



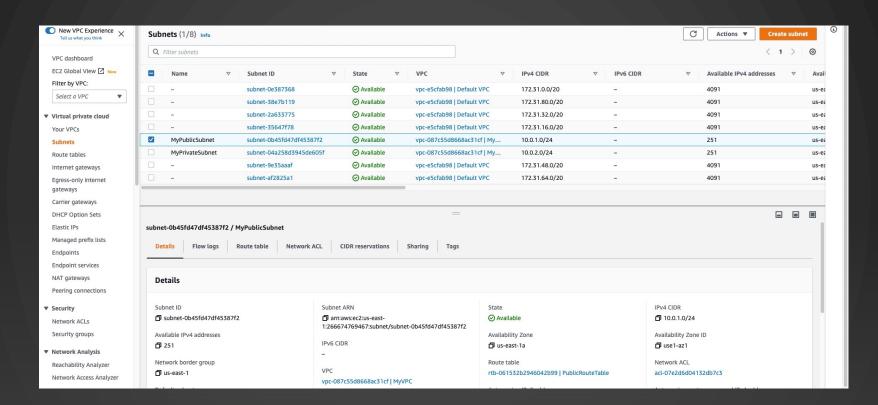
TASK 3

- In this lab, I will create one public subnet and a private subnet in us-eastla
 & us-east-lb.
- For the public Subnet:
 - VPC ID: Select MyVPC from the list I crested earlier
 - Subnet Name: MyPublicSubnet
 - Availability Zone: select us-east-la
 - IPV4 CIDR block: 10.0.1.0/24
 - Then click create subnet.

TASK 3 CONTINUES...

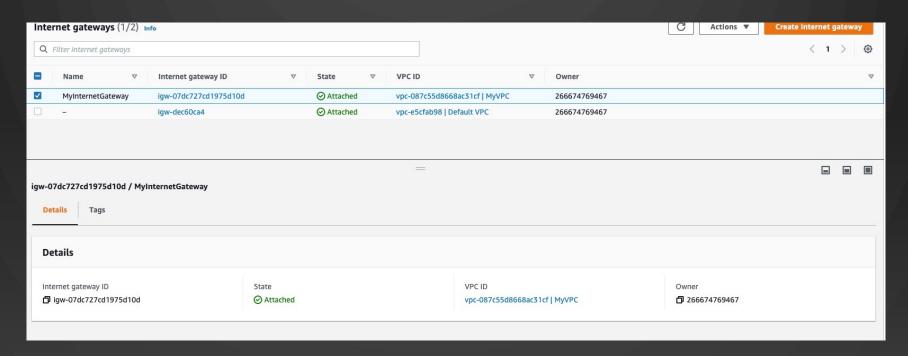
- Private Subnet:
 - Click subnet again
 - VPC ID: Select MyVPC from the list I crested earlier
 - Subnet Name: MyPrivateSubnet
 - Availability Zone: select us-east-1b
 - IPV4 CIDR block: 10.0.2.0/24
 - Then click create subnet, it appear the details in the next slide.

SUBNET DETAILS



TASK 4

- This lab, I will create and configure internet gateway
 - Name: MyInternetGateway
 - Select the internet gateway I created from the list and Attach it to the VPC
 - The details is shown below



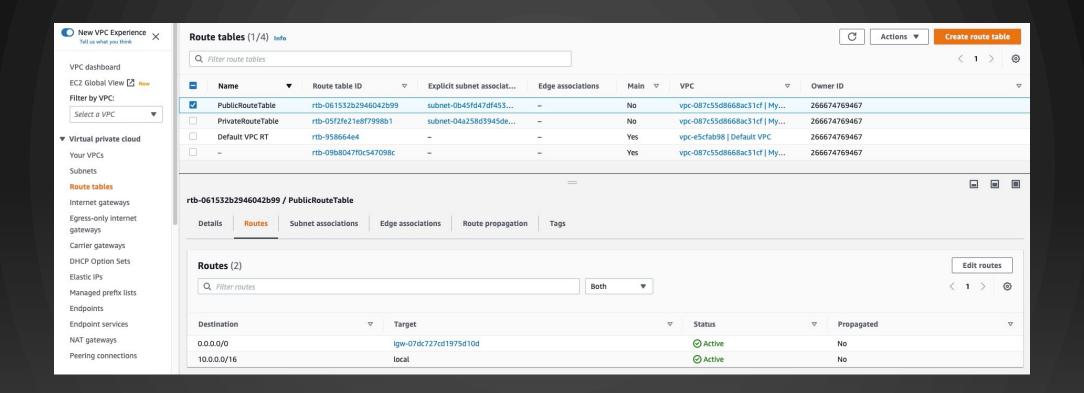
TASK 5

- This lab, I will create Route Tables, Public and Private.
- Create a PublicRoute Table:
 - Name: PublicRouteTable
 - VPC: select MyVPC from the list
 - Click create route table

Repeat the same steps with PrivateRoute Table.

The detail is shown in the next slide.

ROUTE TABLE DETAILS.



FEW MORE DETAILS WITH ROUTE TABLE.

- After crated with route table;
- Now associate the subnet to the route table
- Select PublicSubnet from the list and associate it with PublicRoute Table.
- Same goes with PrivateSubnet.
- Make sure not associate any subnets with the main Route Table.
- Lastly, add PublicRouteTable: add a route to allow internet traffic to the vpc
- Select PublicRouteTable:
 - Go to Routes tab and select add route
 - Destination: Enter 0.0.0.0/0 (this's mainly because you want to have access to the internet).
 - Save the changes.