Lab Assignment – 02

Lab 2 of AWS Academy Foundations course.

Objectives:

1) Create a VPC
2) Create Subnets
3) Configure a security group
4) Launch an EC2 instance into VPC

Task-1: Create your VPC

1) Setting up 2 subnets (1 public + 1 private)

The wizard has provisioned a VPC with a public subnet and a private subnet in the same Availability Zone, together with route tables for each subnet.
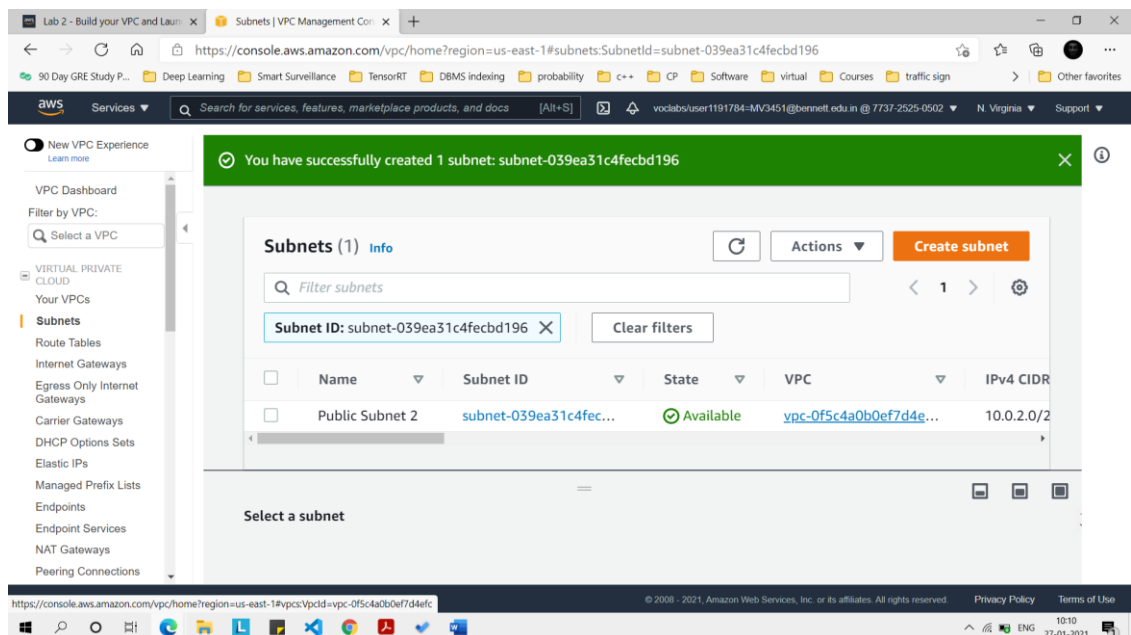
Task-2: Create additional subnets

1) Create 2 additional subnets in the second availability zone.

2) Now create second Private Subnet 2 in the same second availability zone.
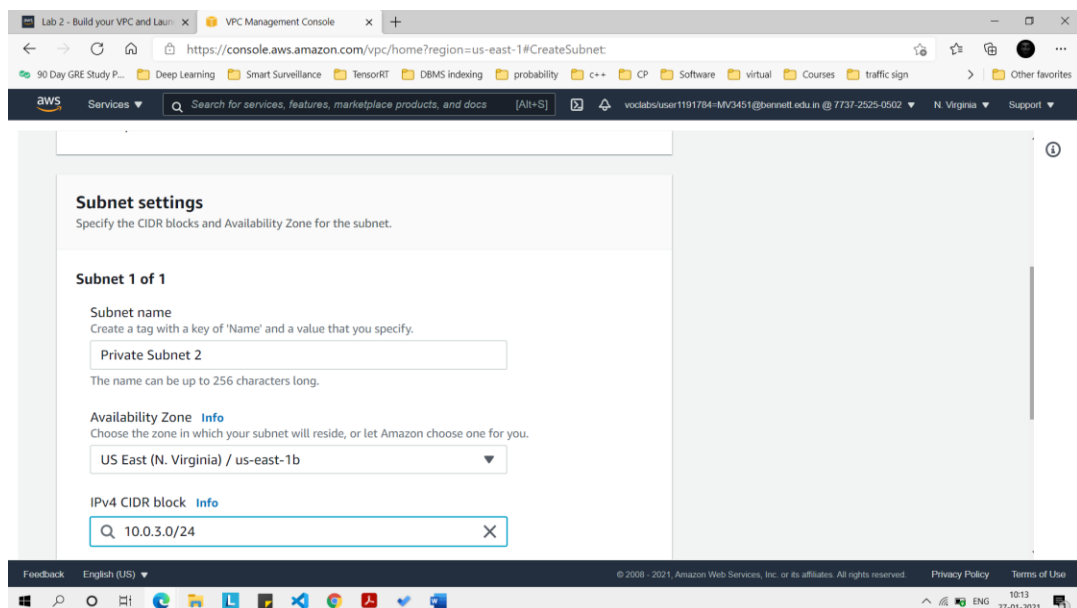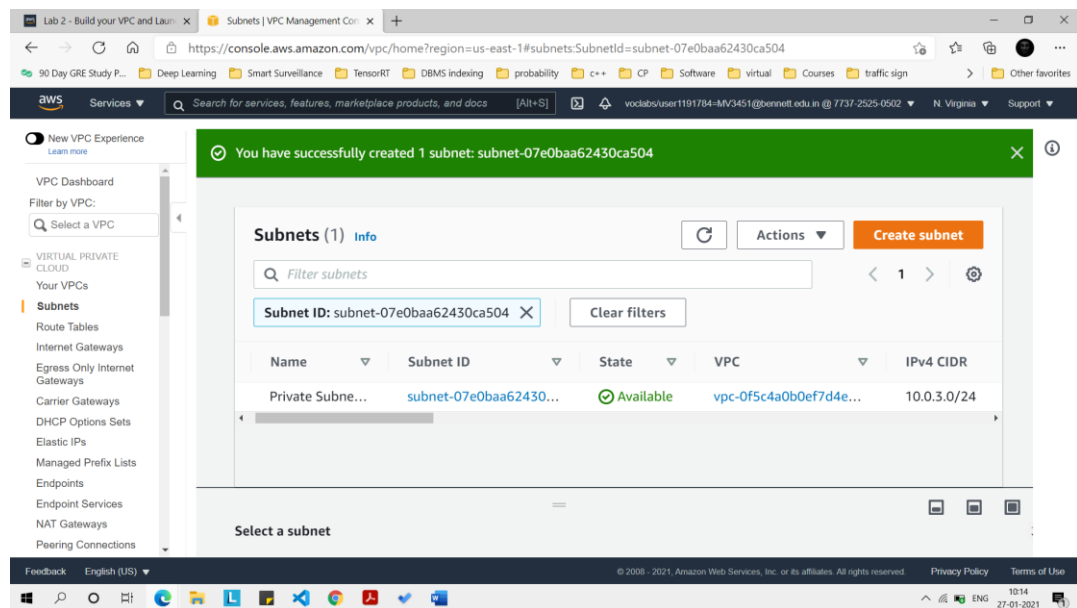
You will now configure the Private subnets to route internet-bound traffic to the NAT Gateway so that the resources in the private subnet are able to connect to the internet, while keeping the resources private.

This is done by configuring a Route Table.

A Route Table contains a set of rules called routes, that are used to determine where the network traffic is directed.

Each subnet in a VPC must be associated with a route table, the route table controls routing for the subnet.

3) Configure the Route Table used by private subnets.

4) Configure the Route Table used by public subnets.

Your VPC now has public and private subnets configured in 2 availability zones.

Task-3: Create a VPC Security Group

1) Create a VPC Security Group which acts as a virtual firewall
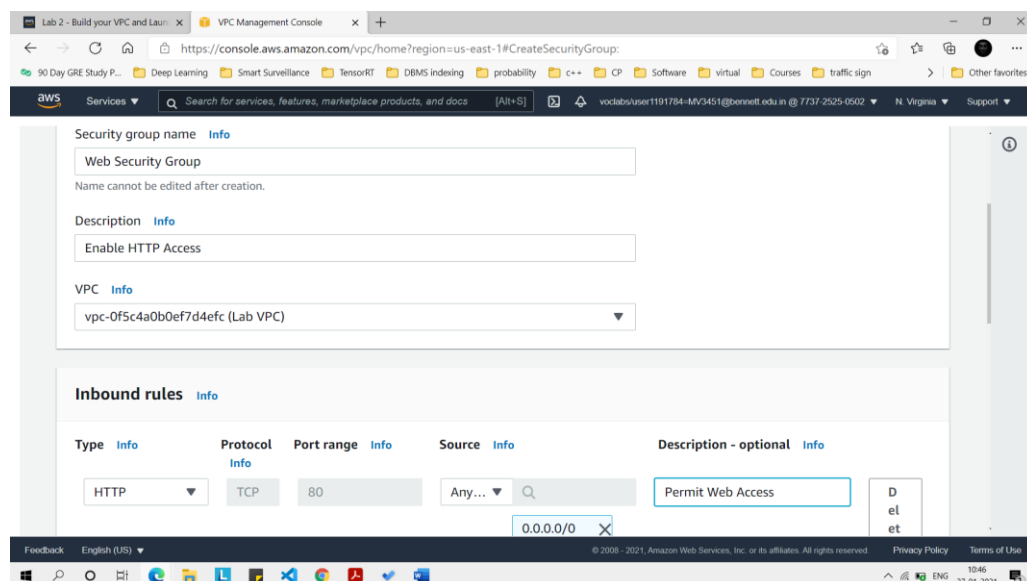
Task-4: Launch a Web Server Instance

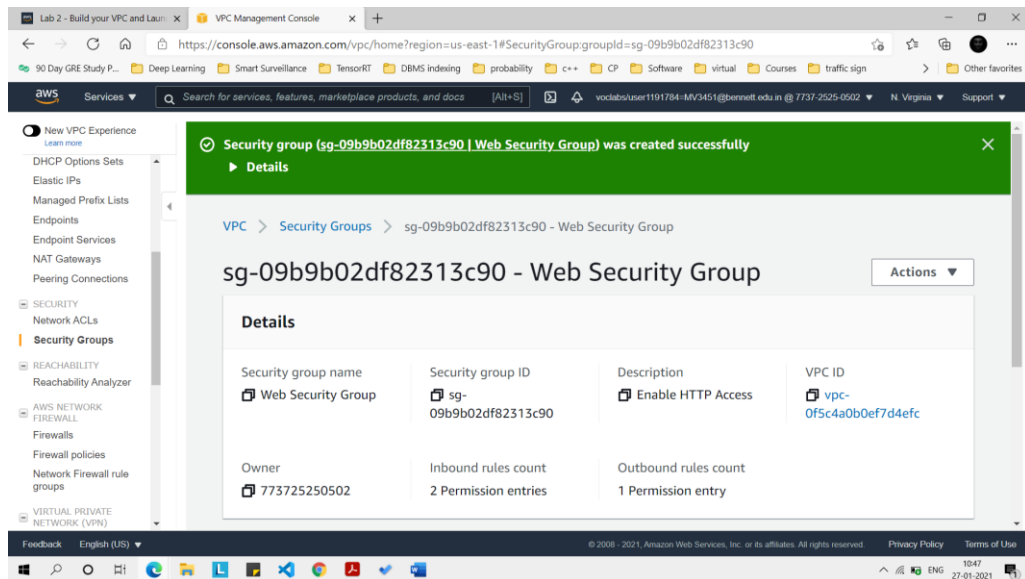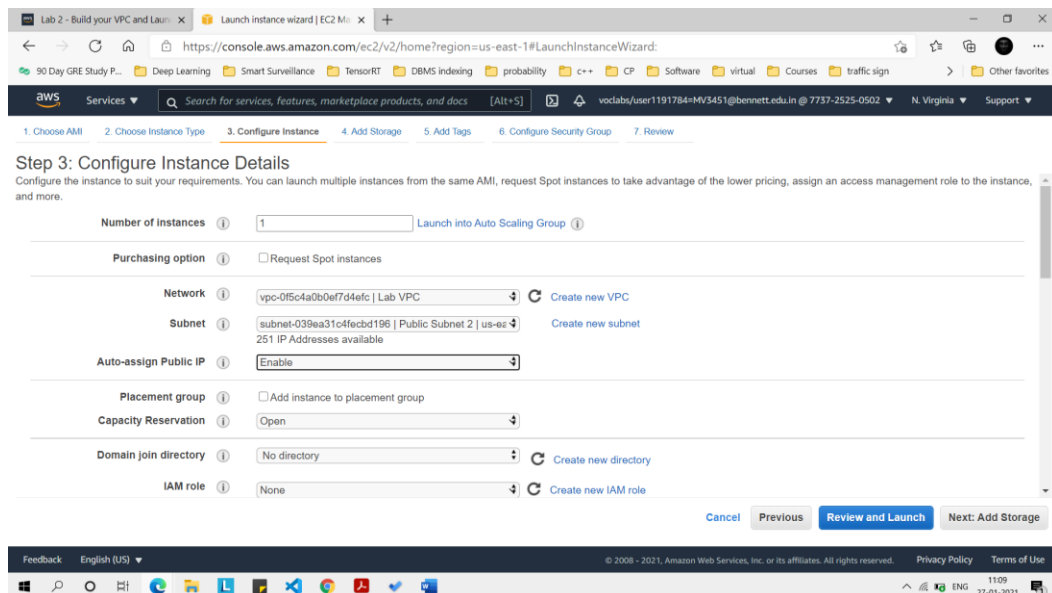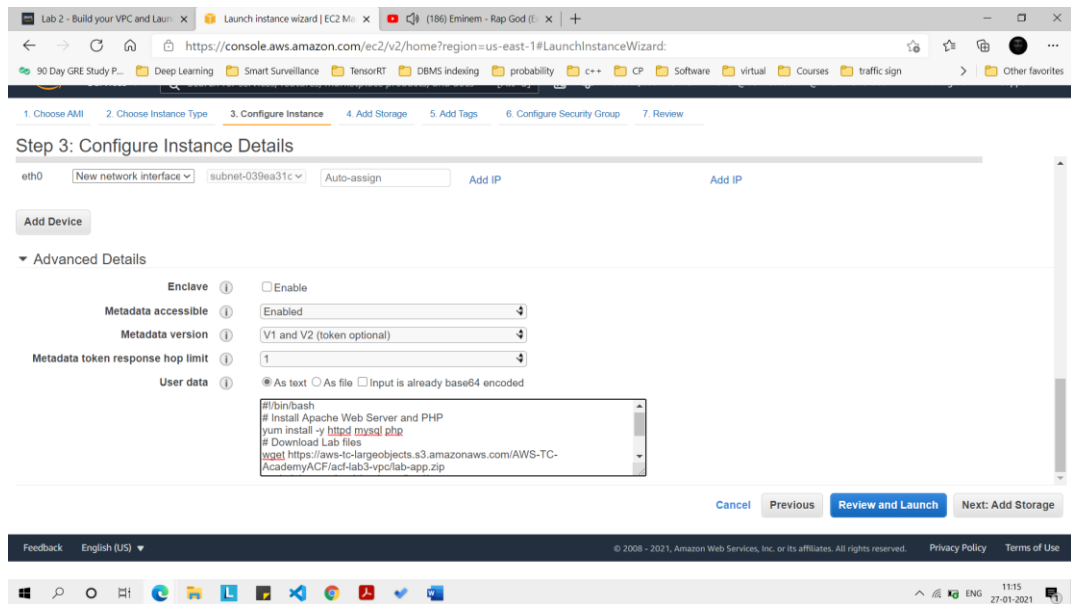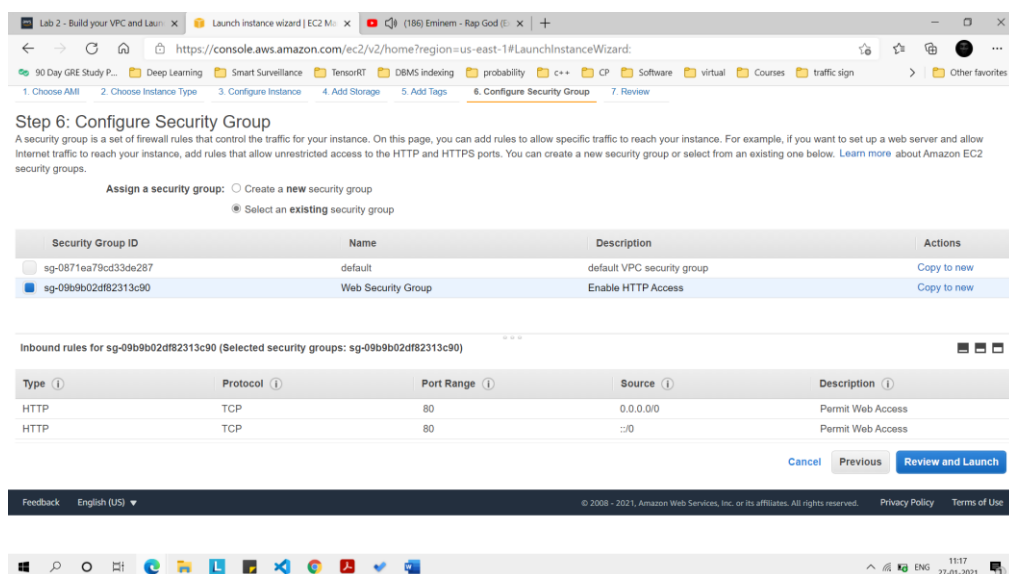1) Configure the instance to launch in a public subnet of the new VPC
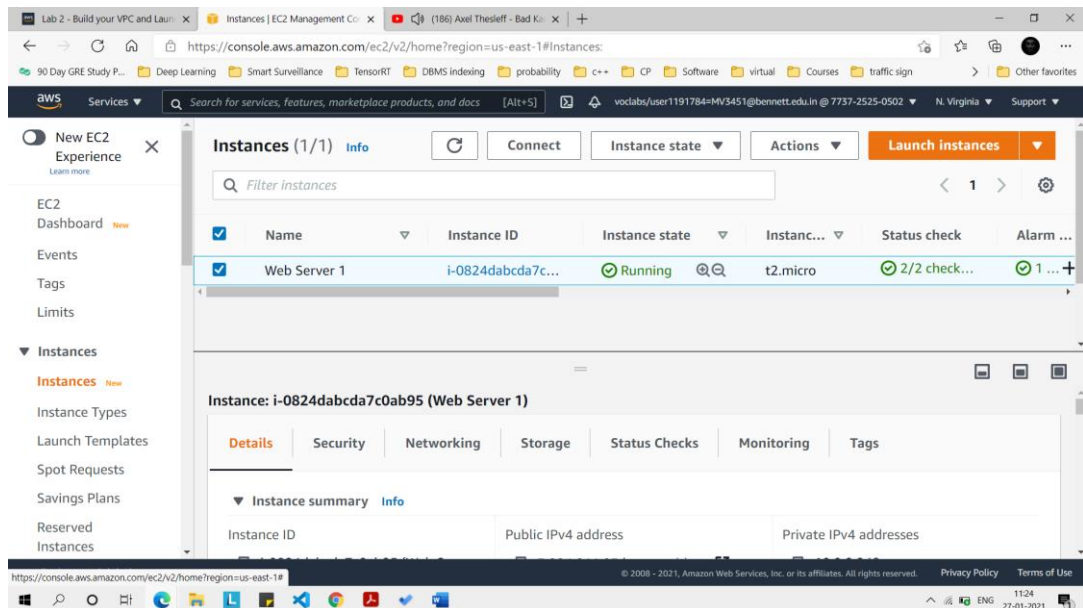
2) Use the security group created earlier.

3) The instance is now successfully running in the public subnet of your VPC

Final Confirmation of the working of the server. The below HTTP request results in a success and we are able to see a webpage showing the AWS logo and the instance meta-data values.