**Description:**

Amazon Elastic Compute Cloud (Amazon EC2) provides scalable computing

capacity in the Amazon Web Services (AWS) cloud. Using Amazon EC2

eliminates your need to invest in hardware up front so you can develop and

deploy applications faster. You can use Amazon EC2 to launch as many or as

few virtual servers as you need, configure security and networking, and manage

storage. Amazon EC2 enables you to scale up or down to handle changes in

requirements or spikes in popularity, reducing your need to forecast traffic.

**Problem Statement:**

Company ABC wants to move their product to AWS. They have the following

things set up right now:

1. MySQL DB

2. Website (PHP)

The company wants high availability on this product, therefore wants Auto

Scaling to be enabled on this website.

**Steps To Solve:**

1. Launch an EC2 Instance

2. Enable Auto Scaling on these instances (minimum 2)

3. Create an RDS Instance

4. Create Database & Table in RDS instance:

a. Database name: intel

b. Table name: data

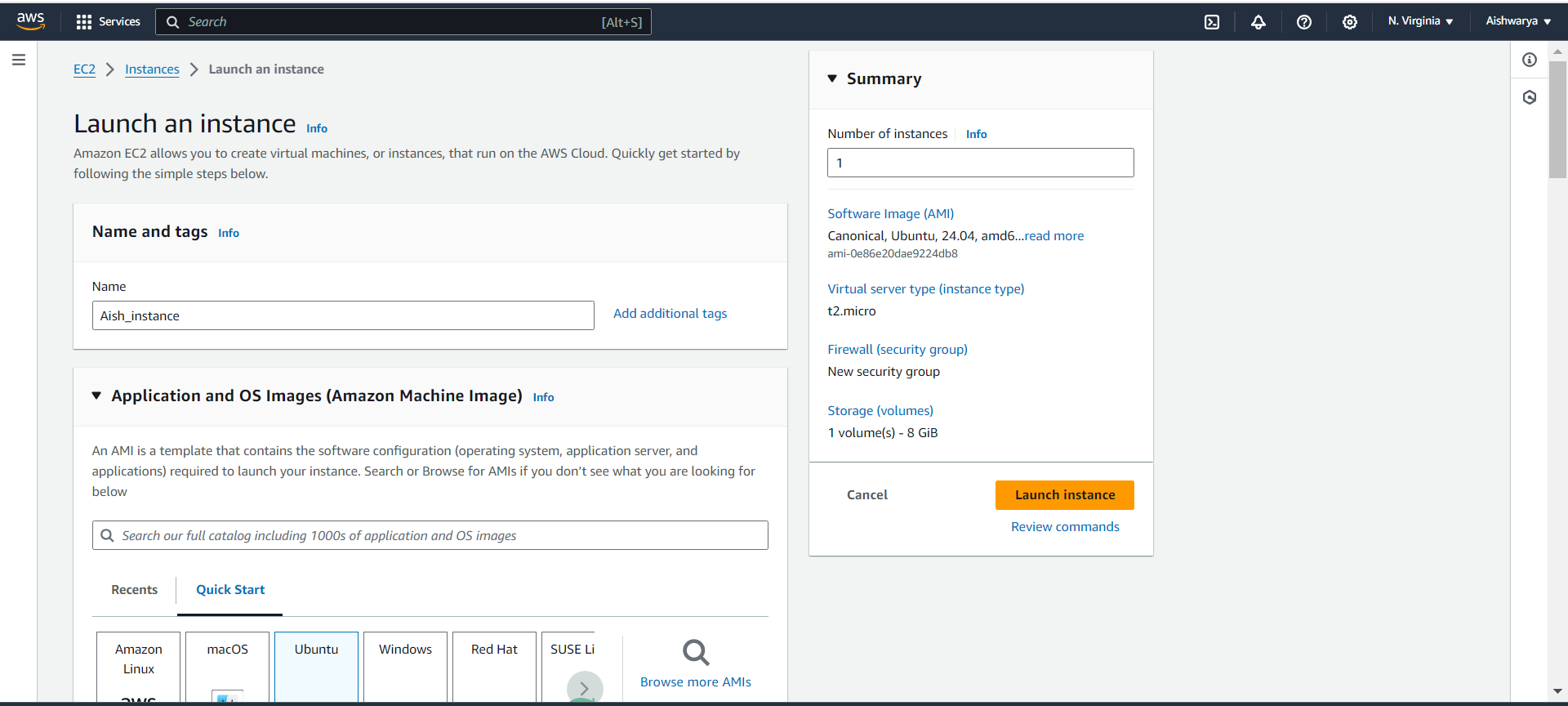
c. Database password: intel123

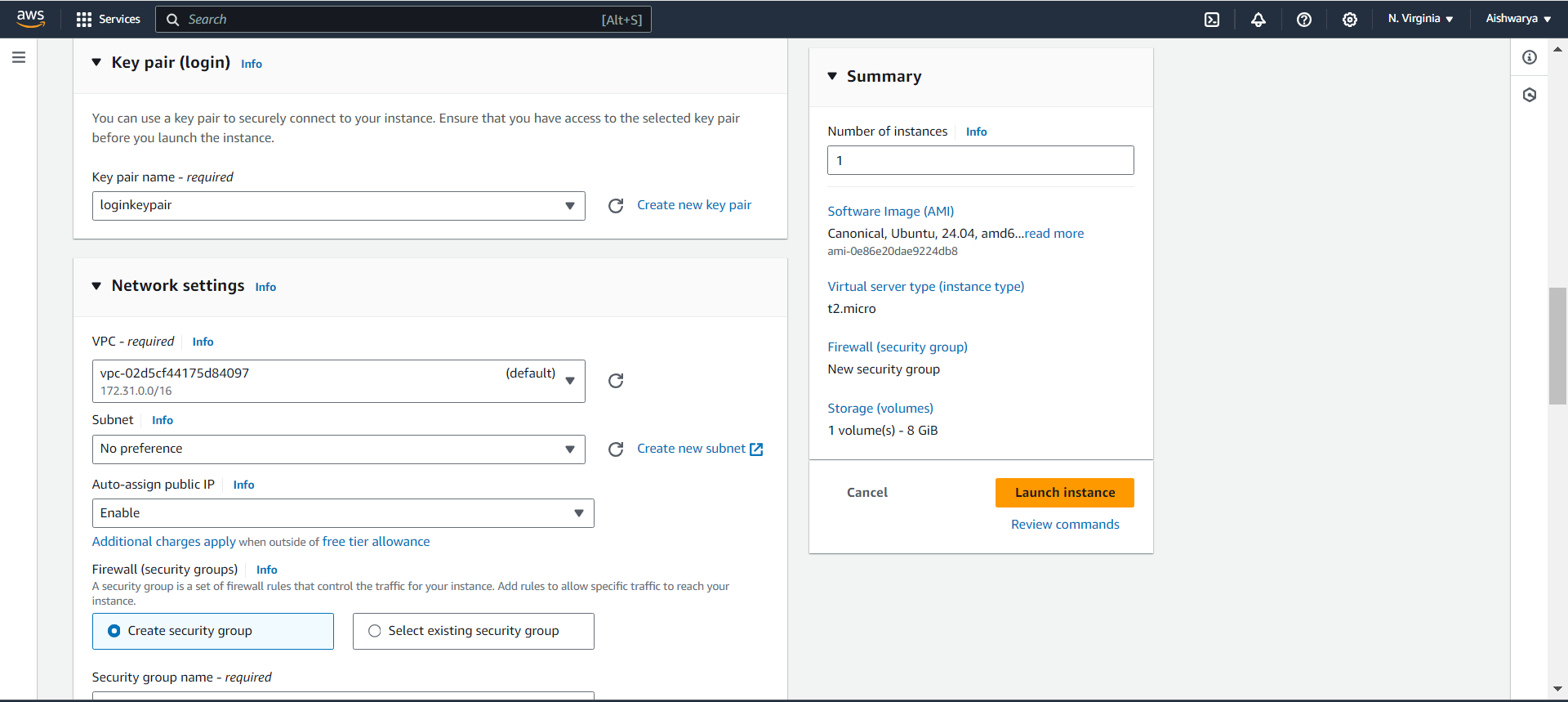
5. Change hostname in website

6. Allow traffic from EC2 to RDS instance

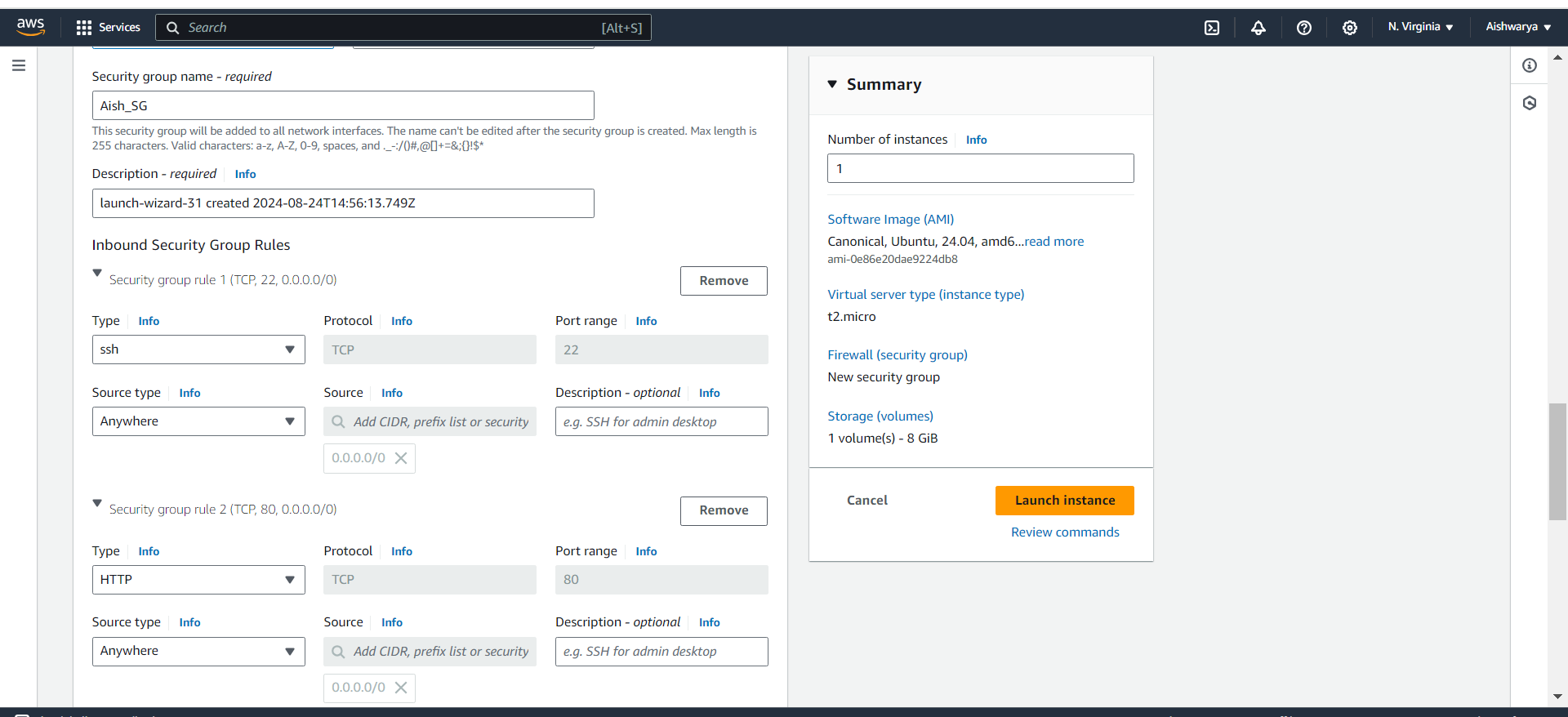
7. Allow all-traffic to EC2 instance

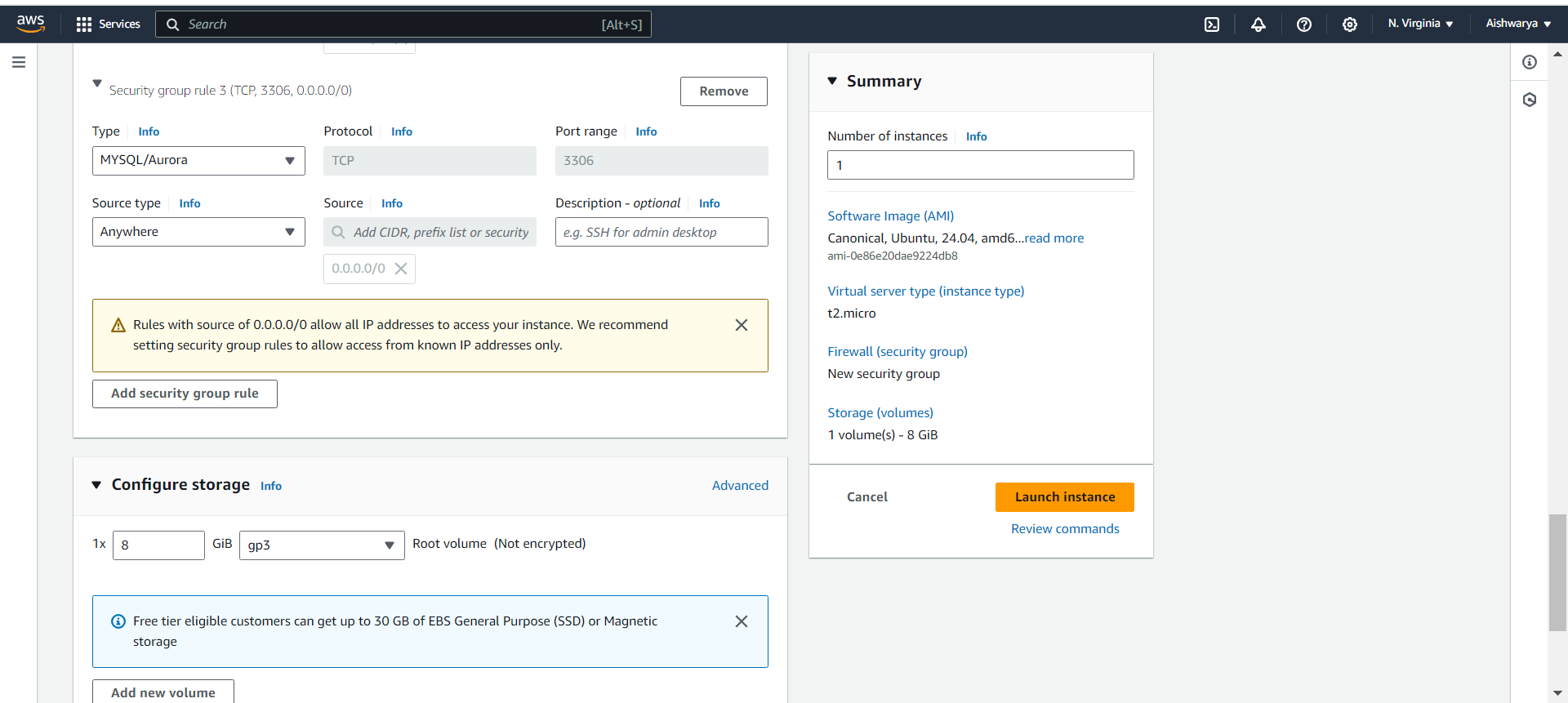
Create EC2 ubuntu instance.



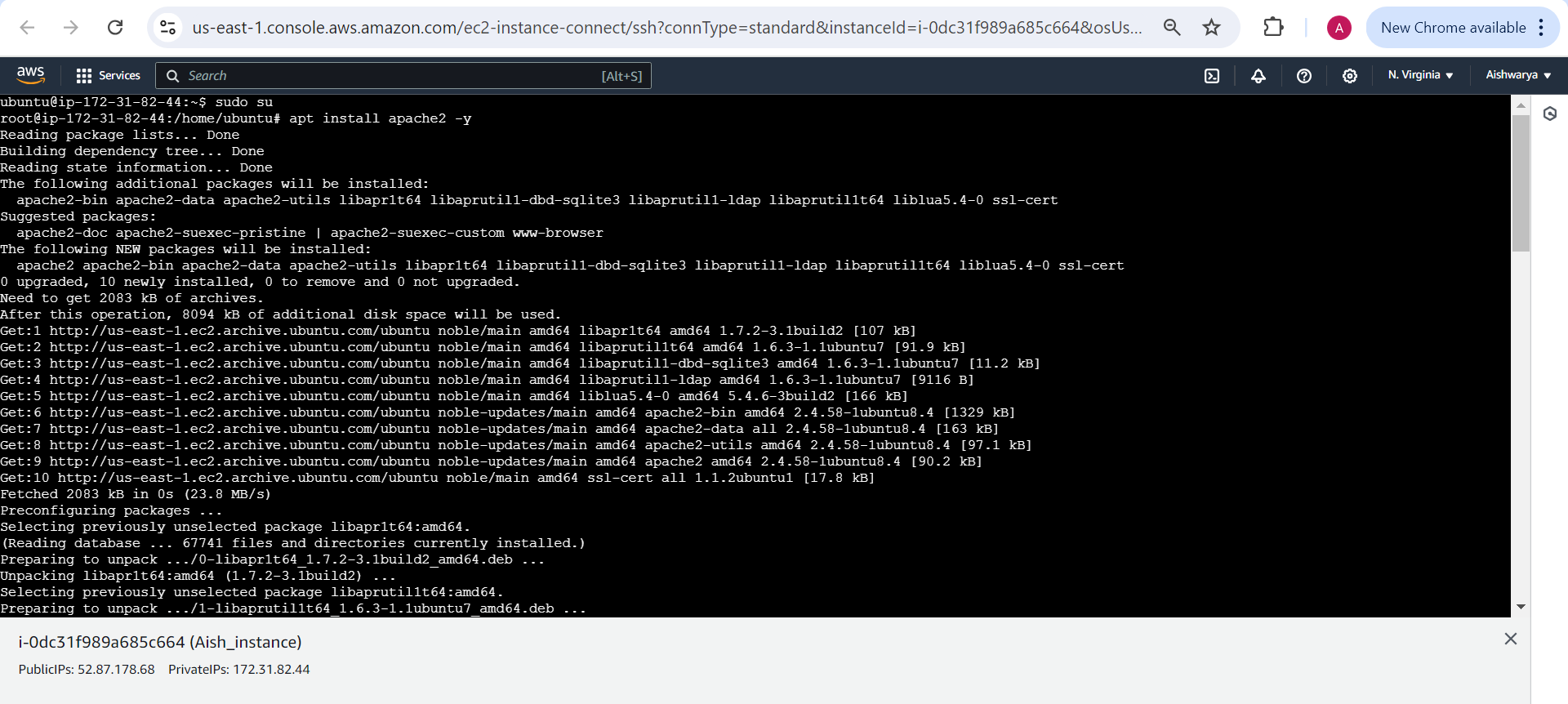


Create SG ssh http and MYSQL

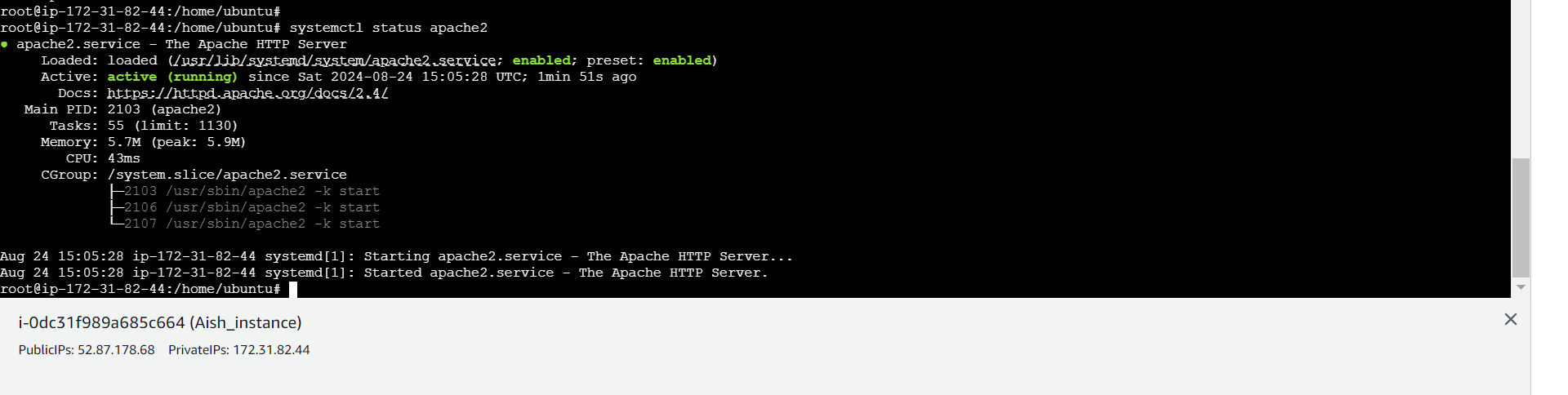




Connect to instance and install apache2



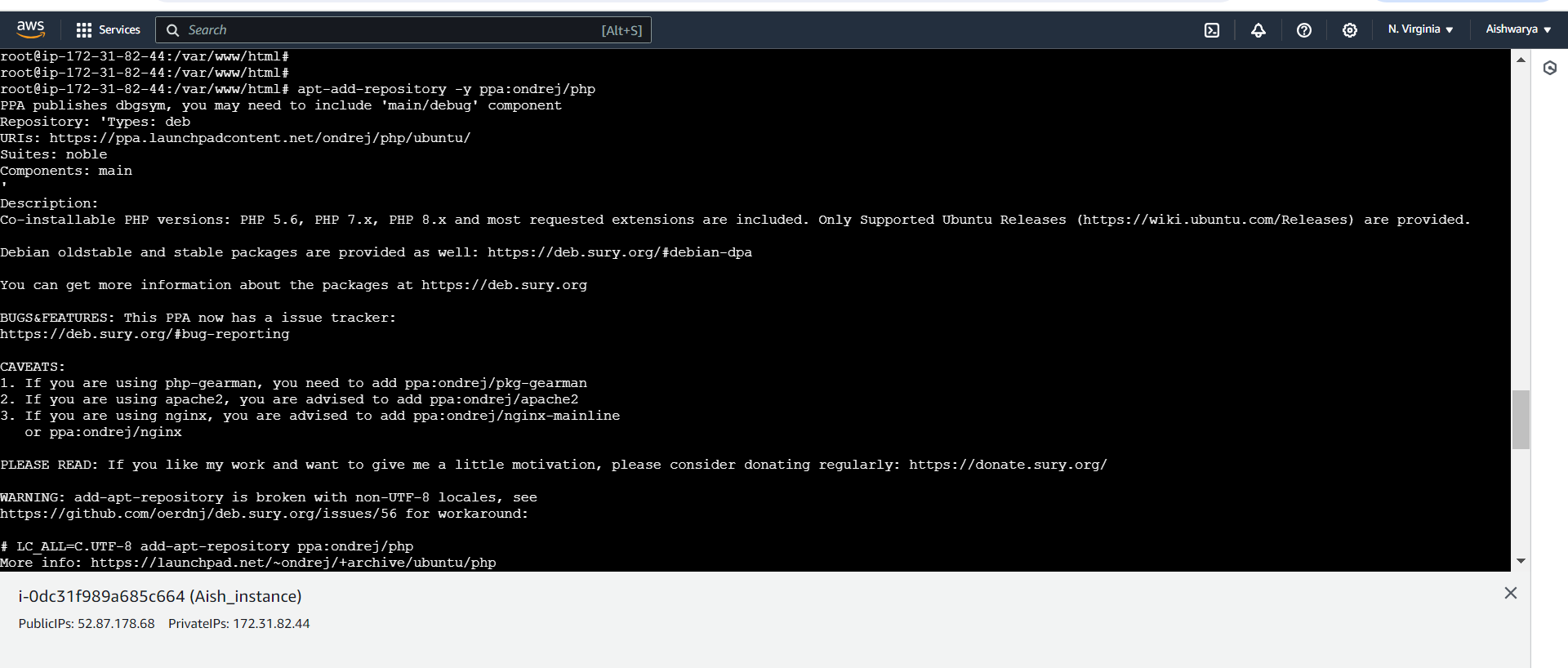
Check apache2 installed correctly



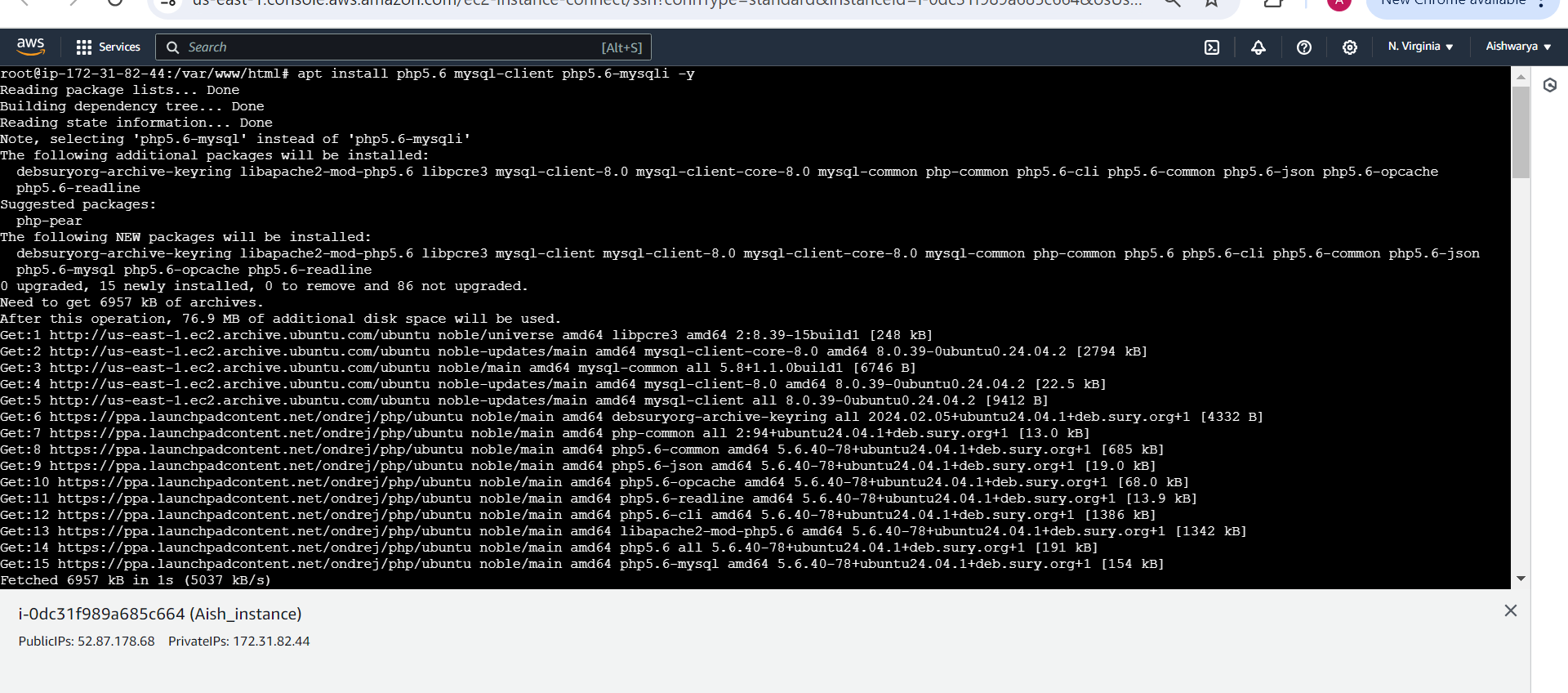
Add index.php



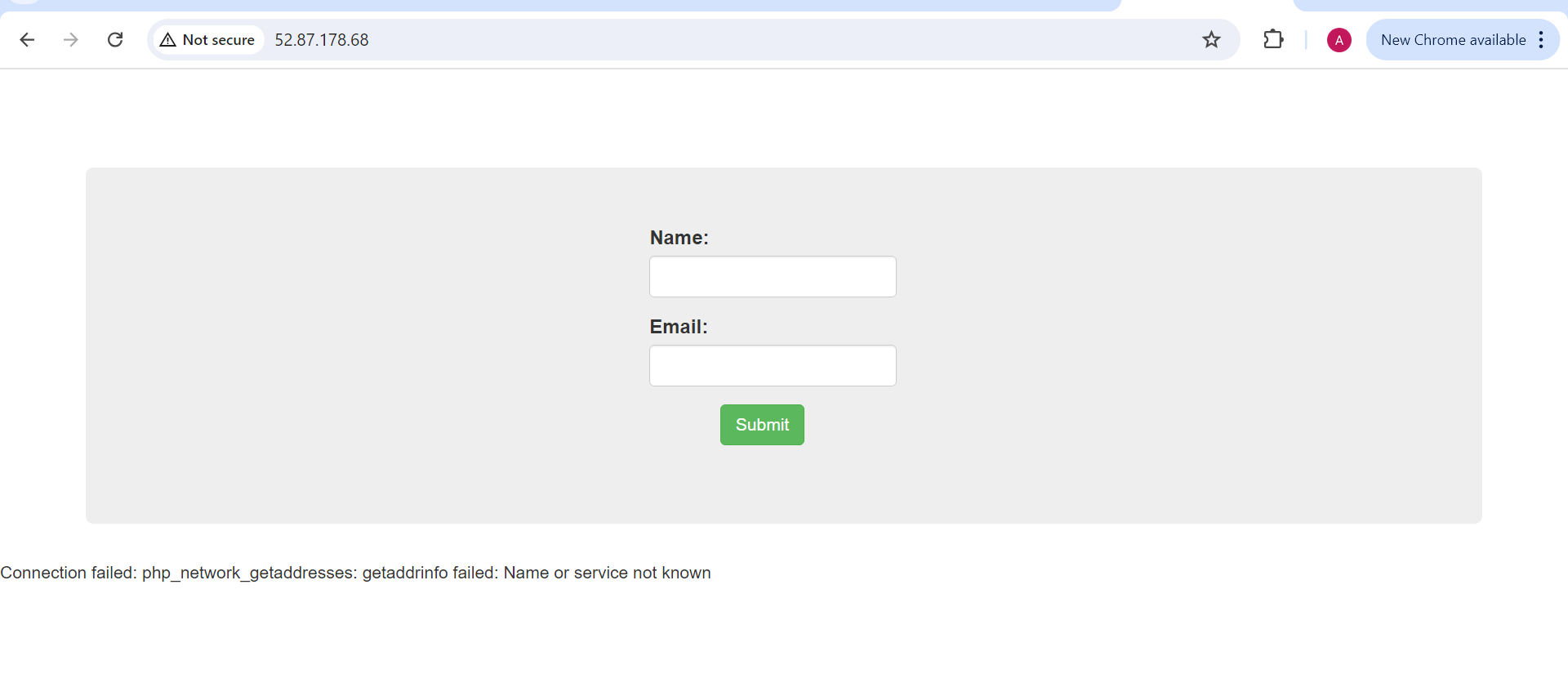
Create Php repository to install php



Now, Install php5.6, MySQL-client and php5.6-mysqli



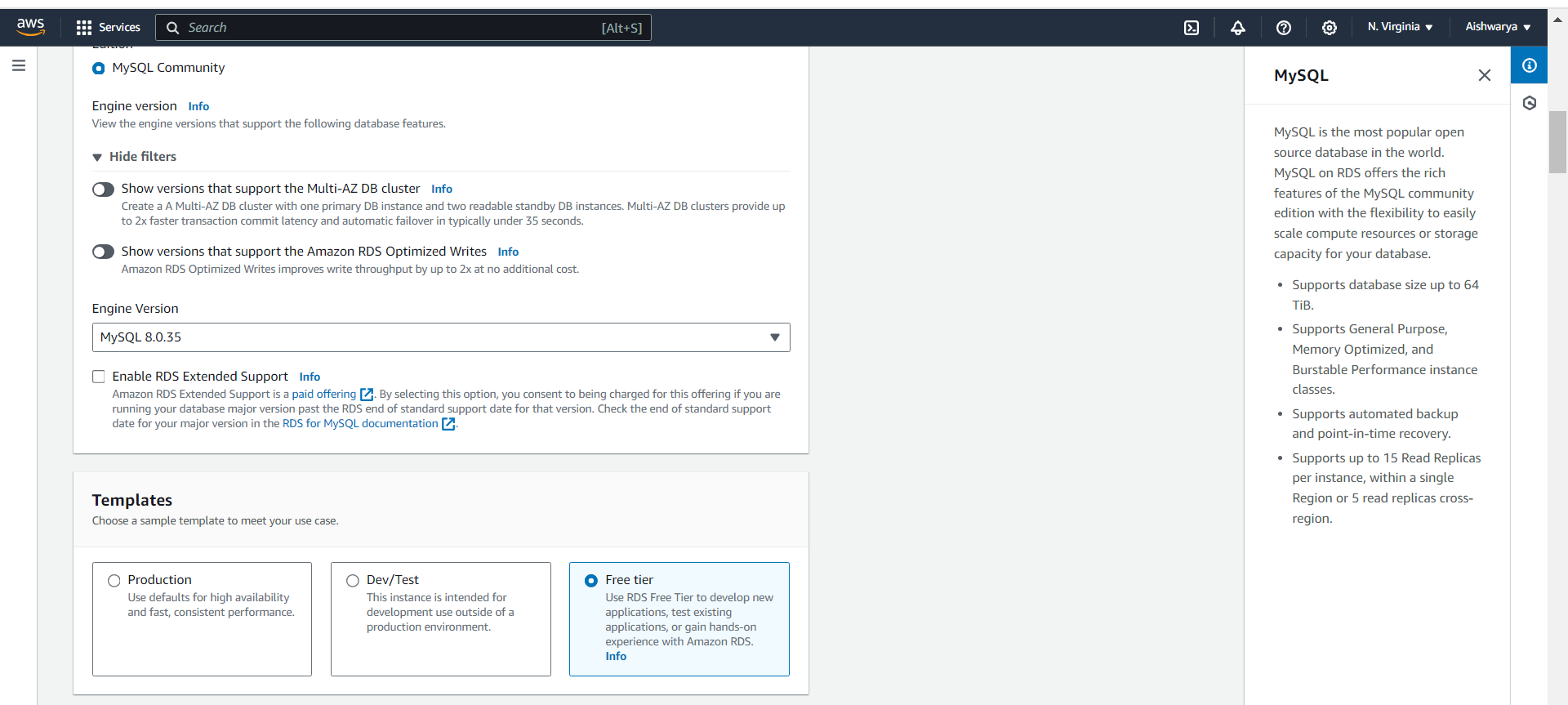
Now php error gone



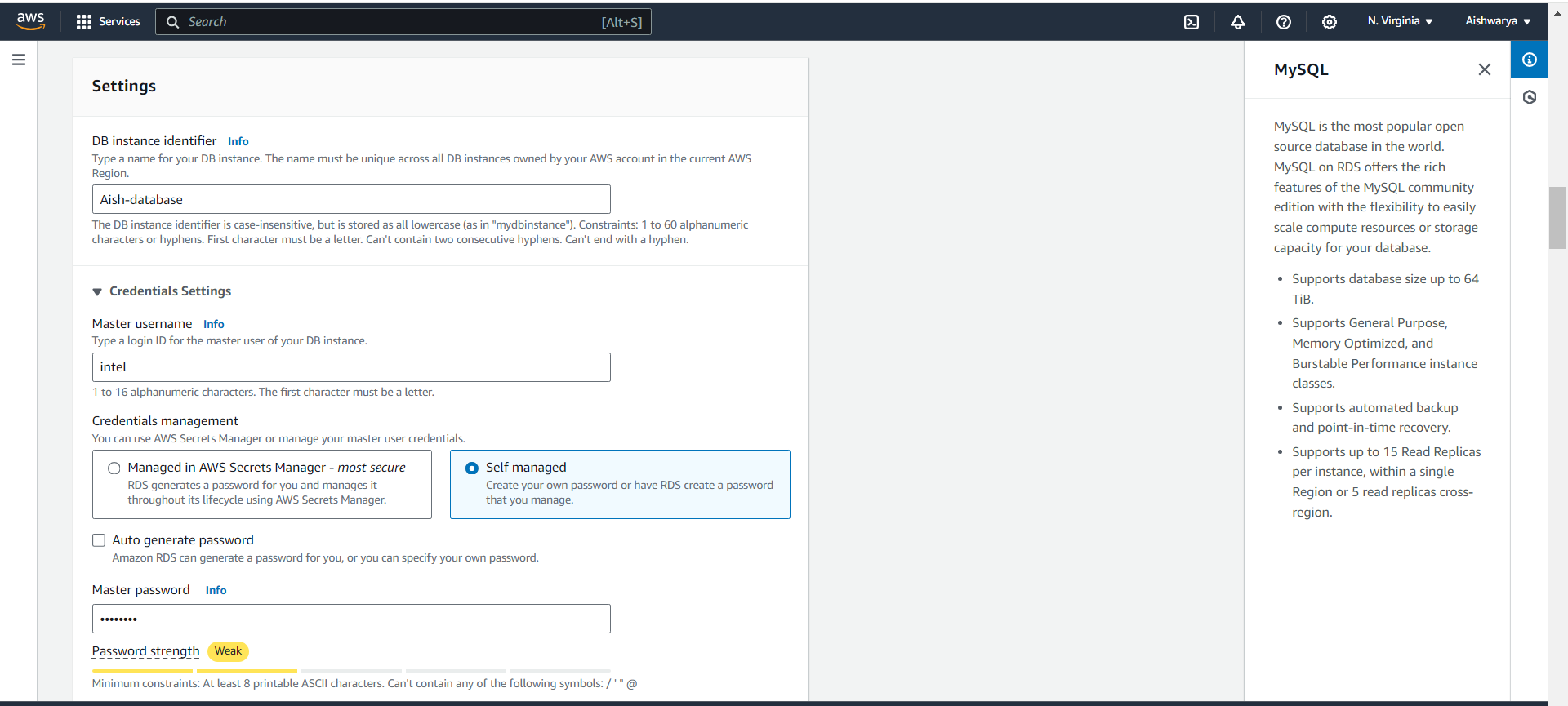
Now create MySQL database

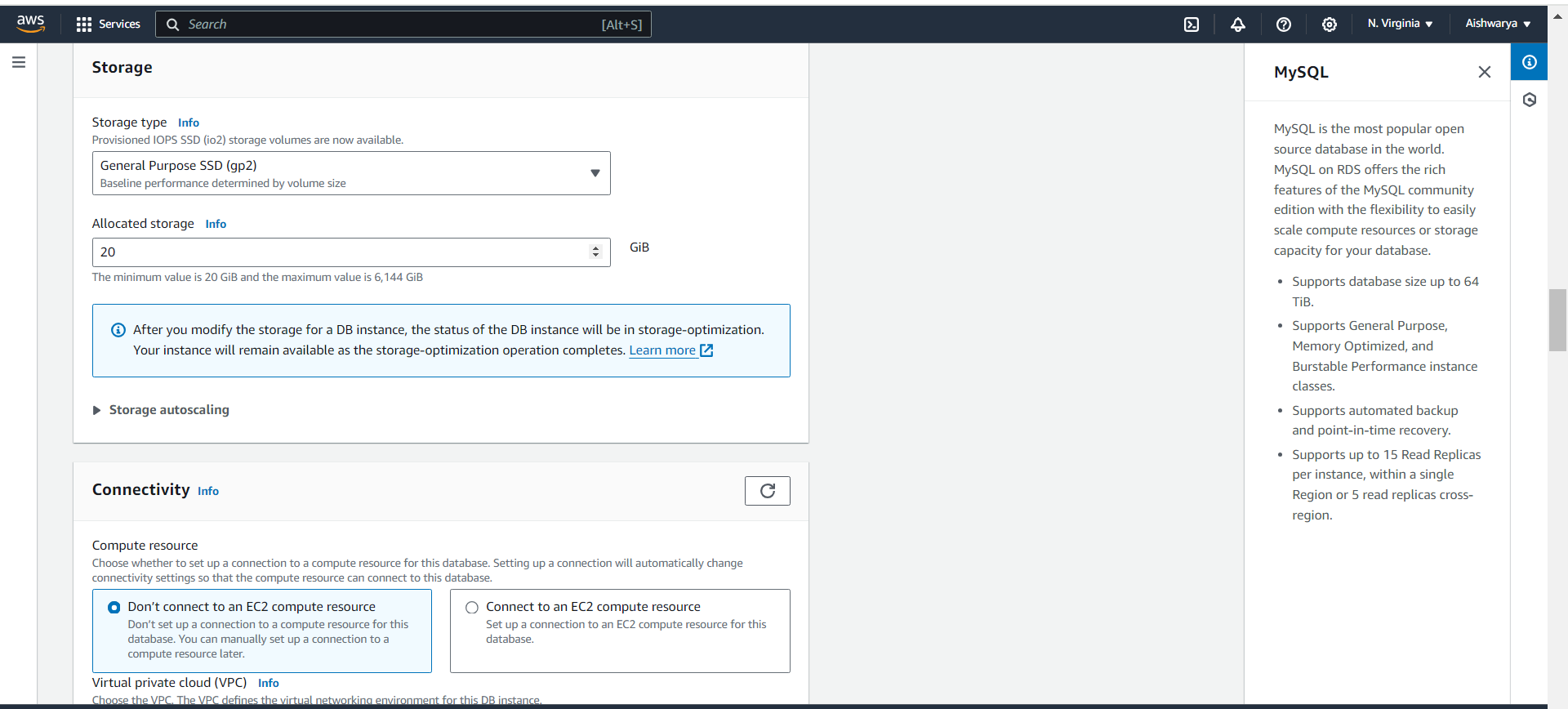


Select free tier

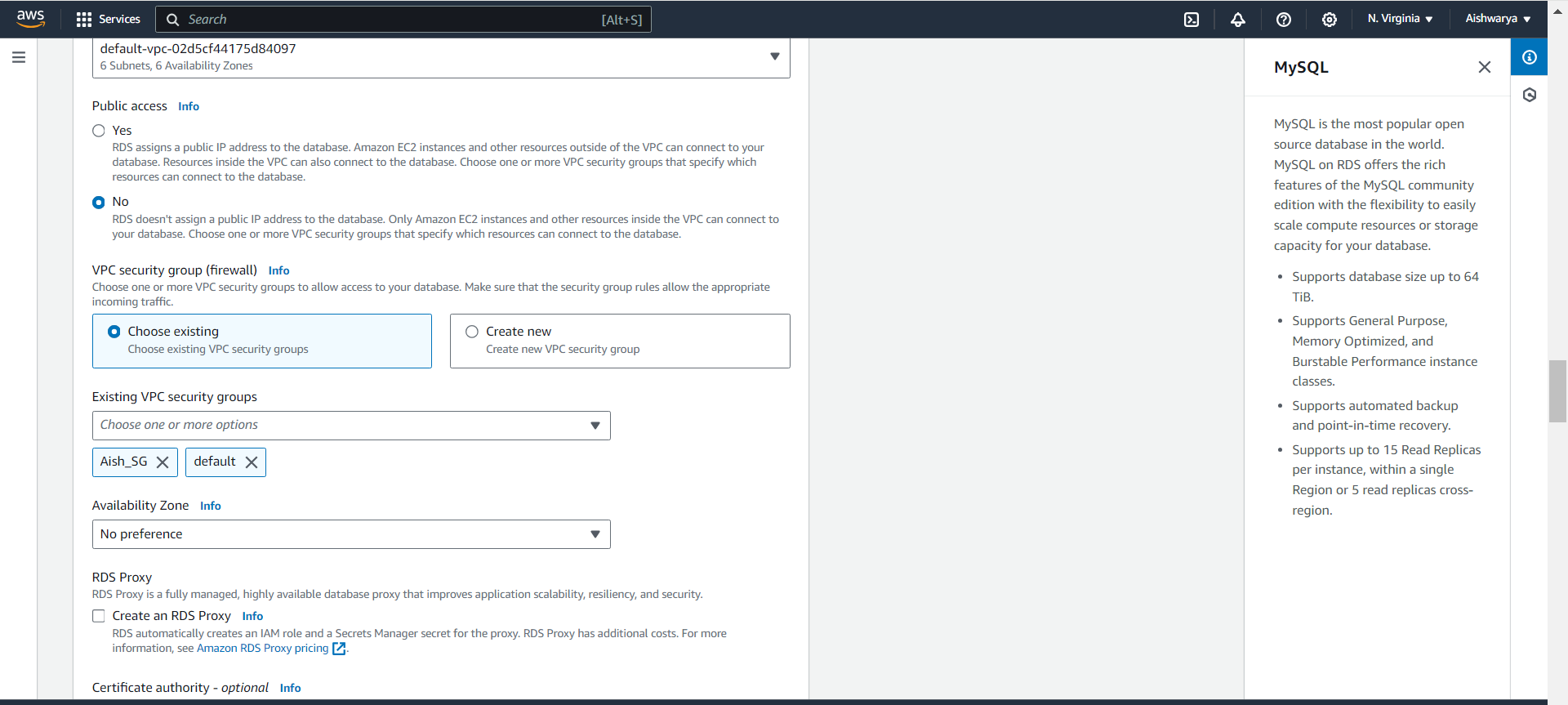


Put username as intel and password as intel123

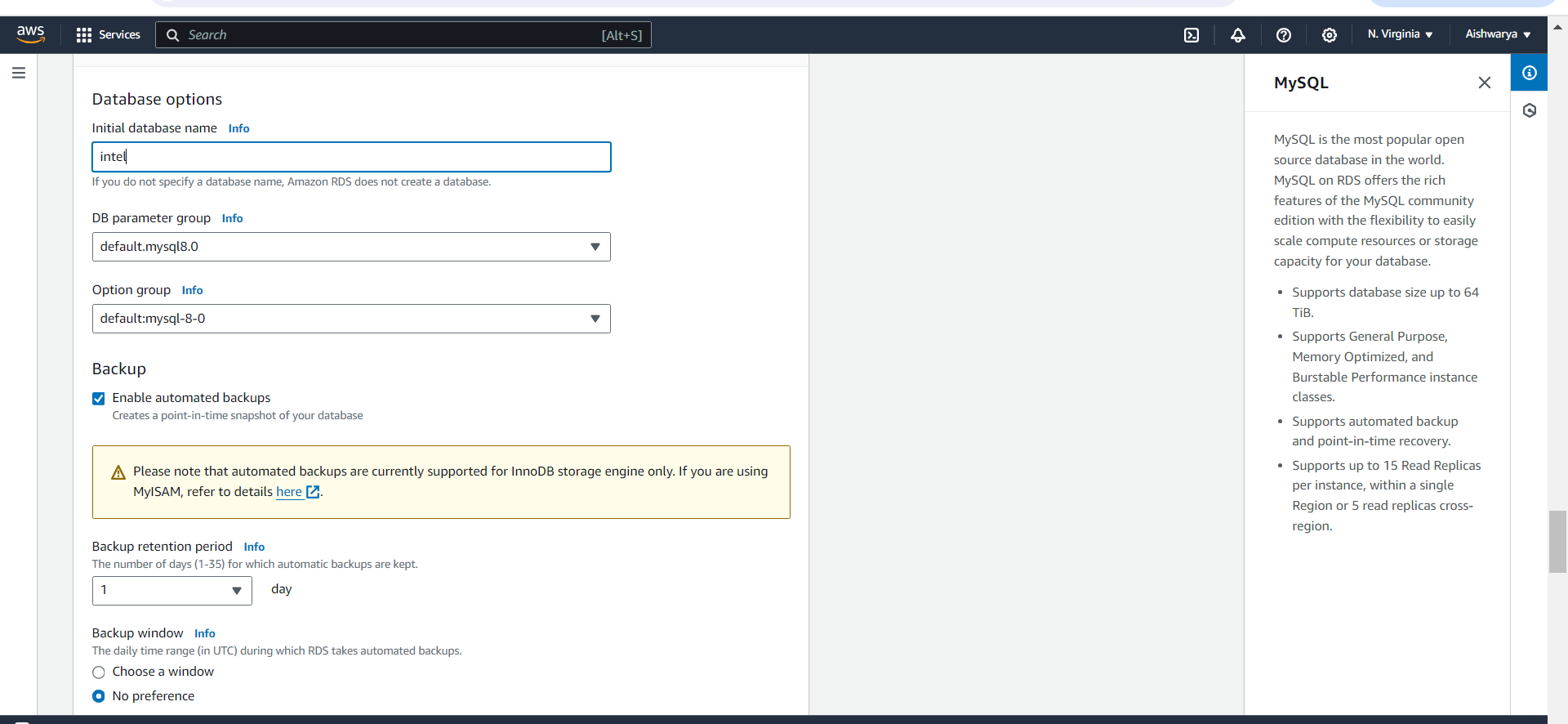


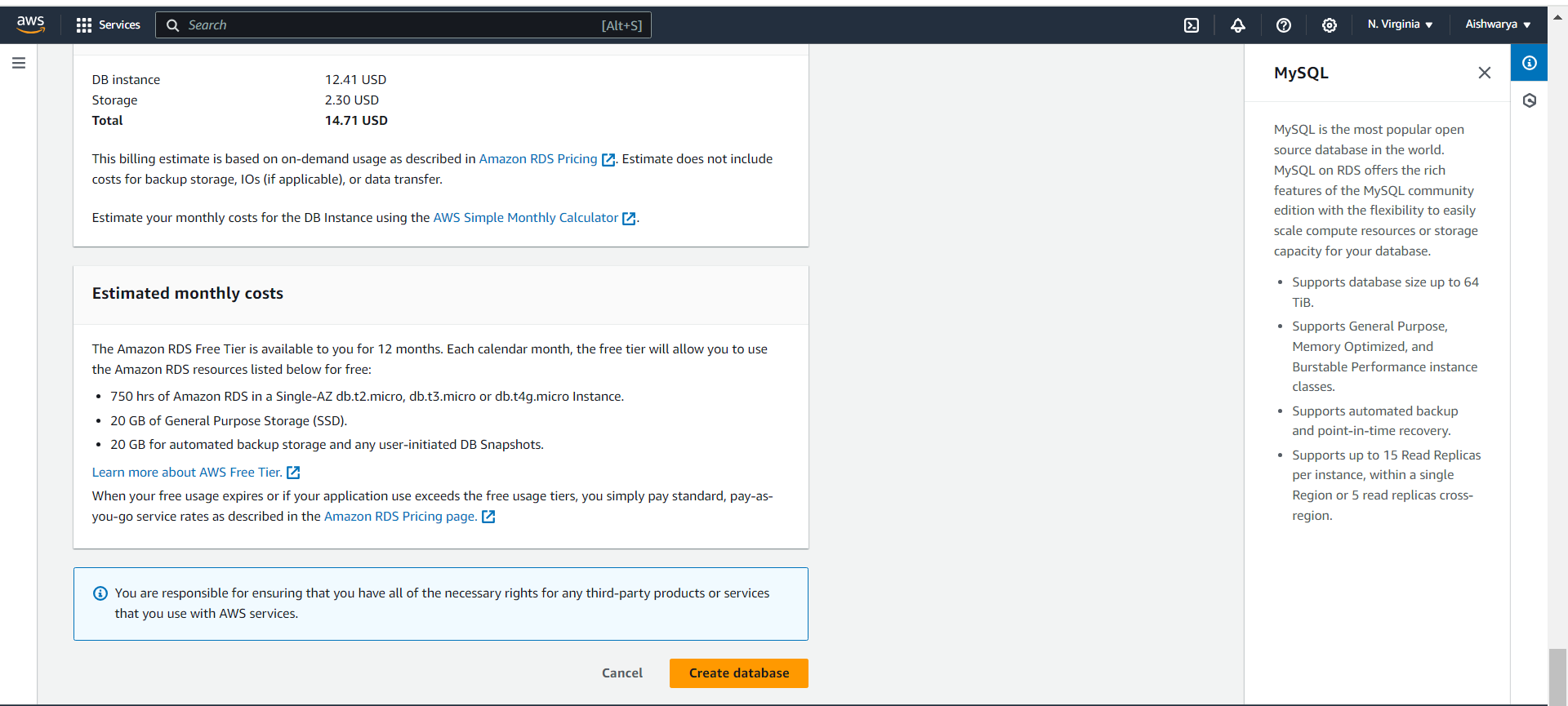


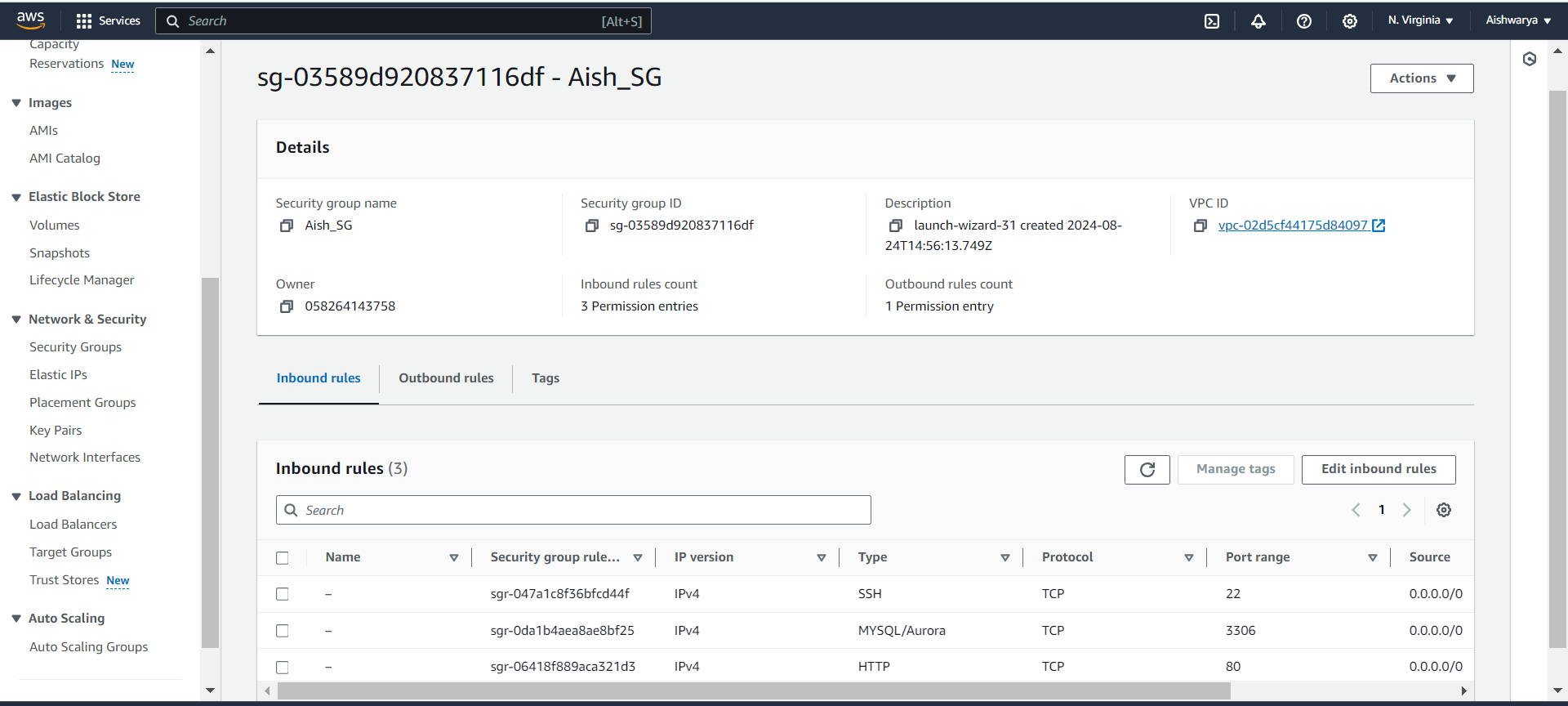
Select security group which we created



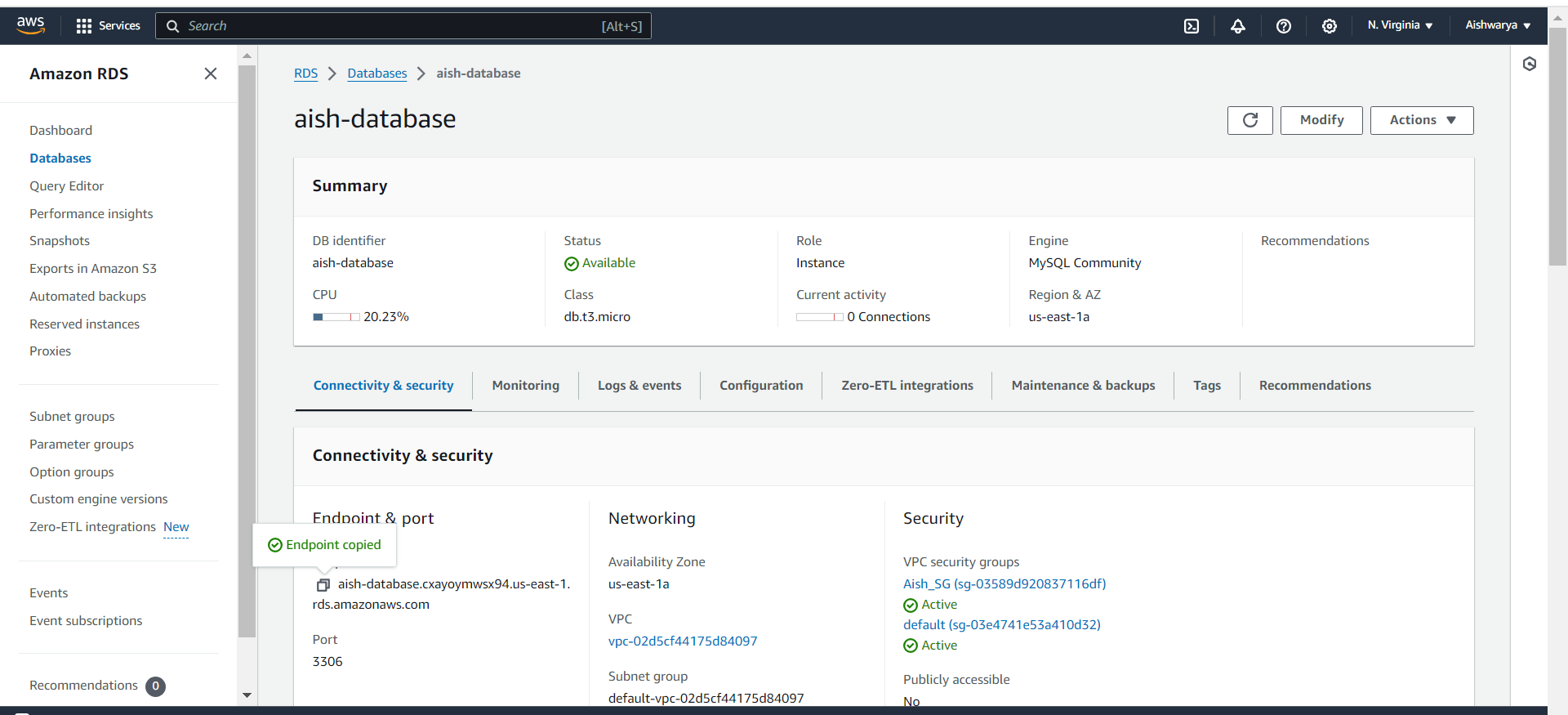
Put database name as intel



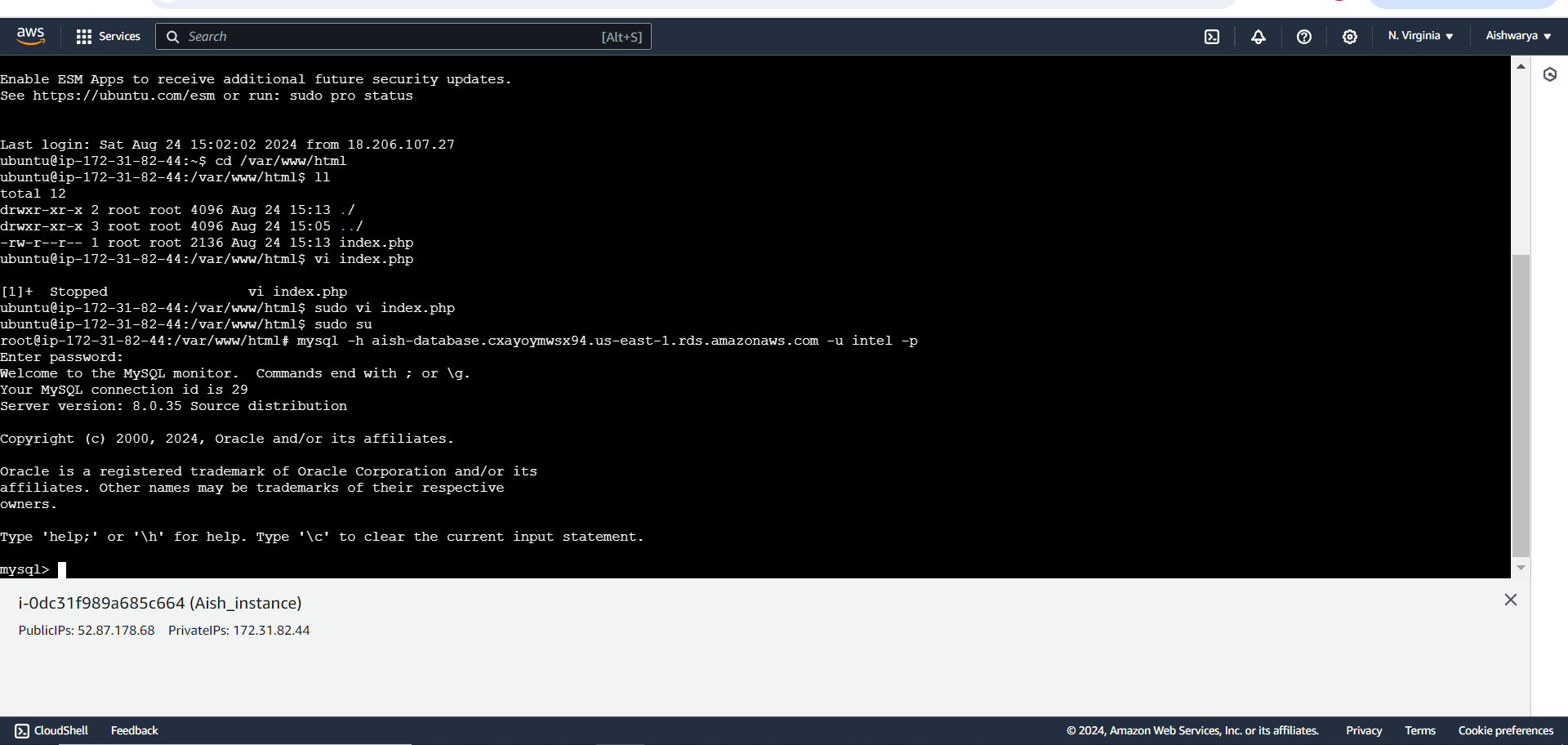


Security group 

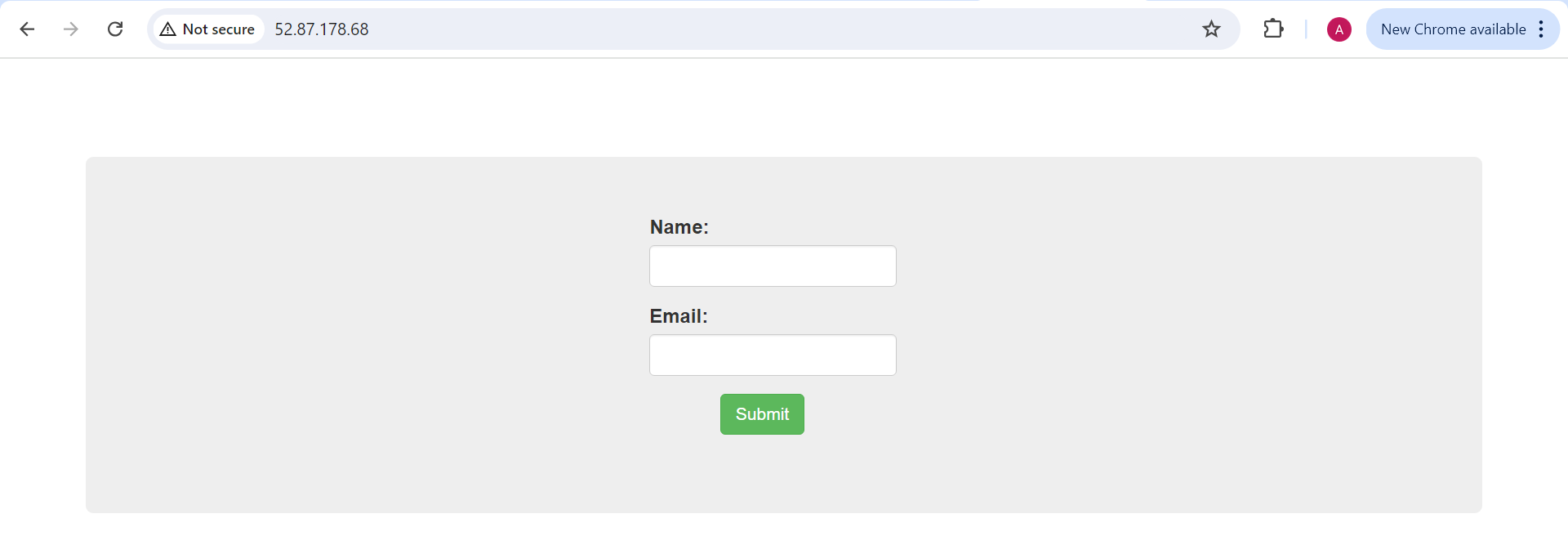
Now database is available



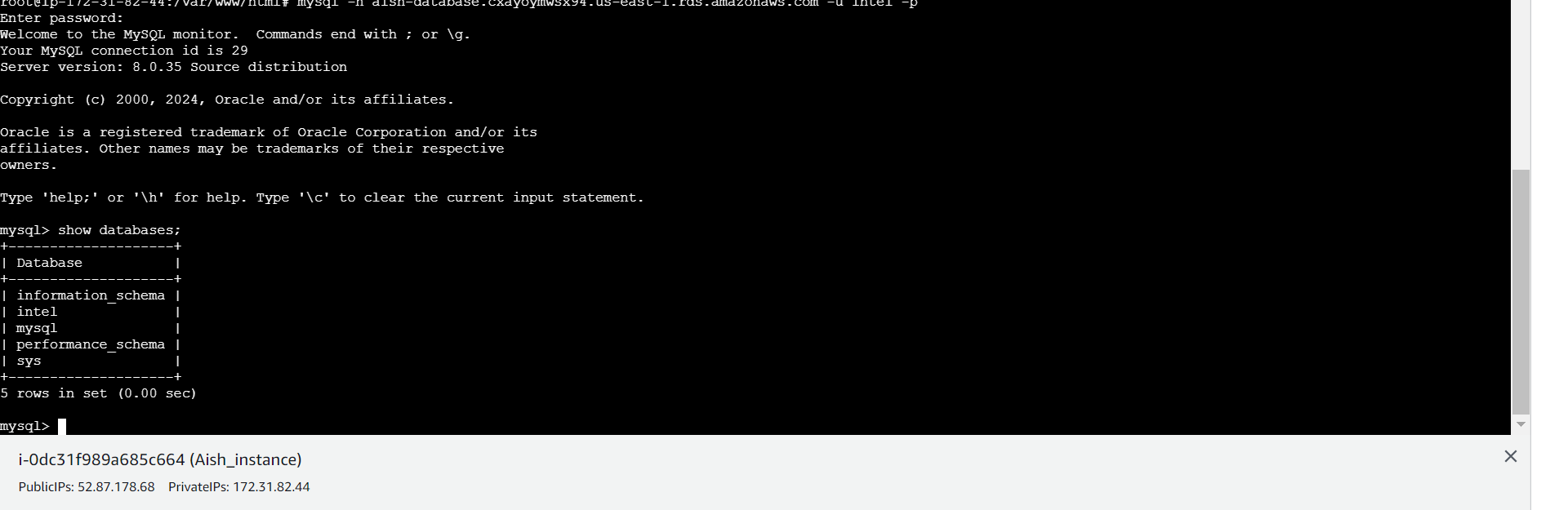
Change endpoint in server name in index.php file and connect to database



Now error will gone



Show database;

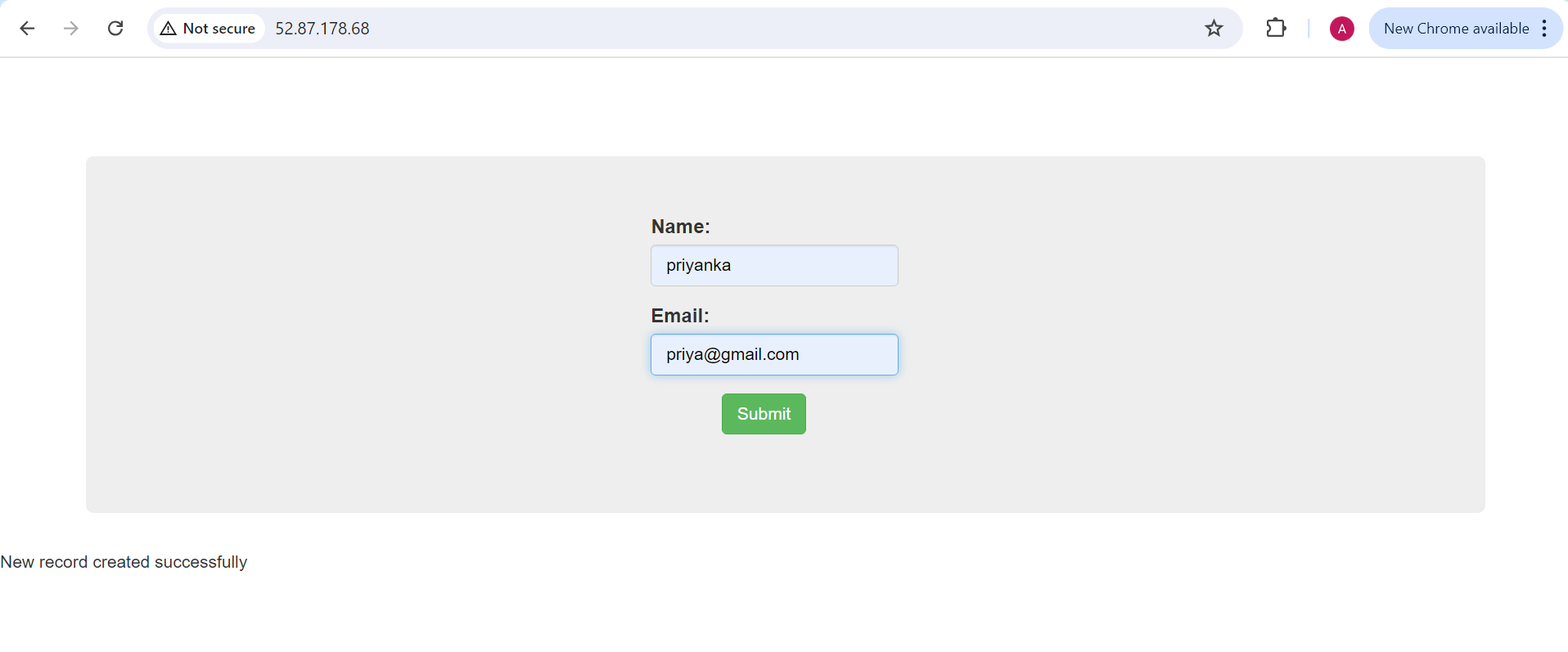


Use intel database which we created and Create table name data



Insert manually

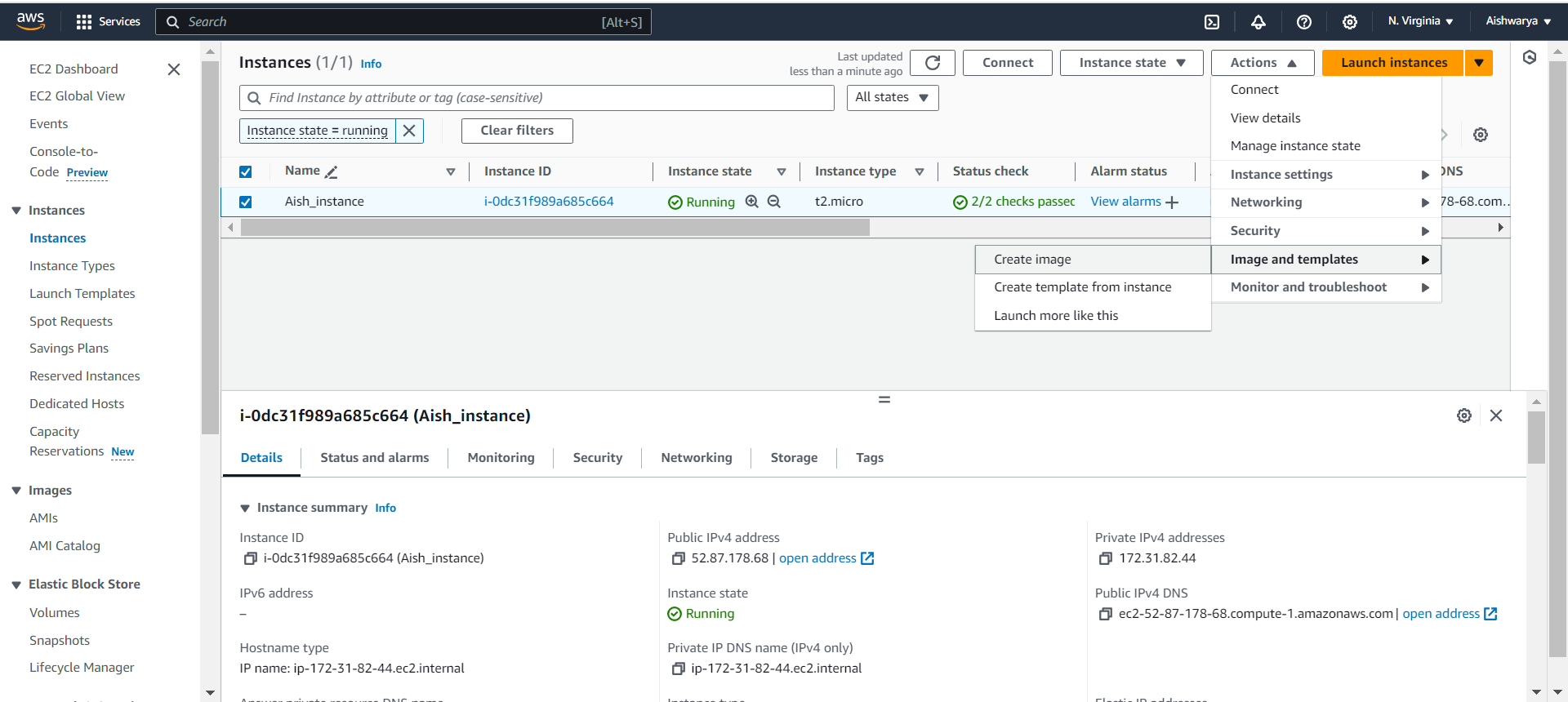


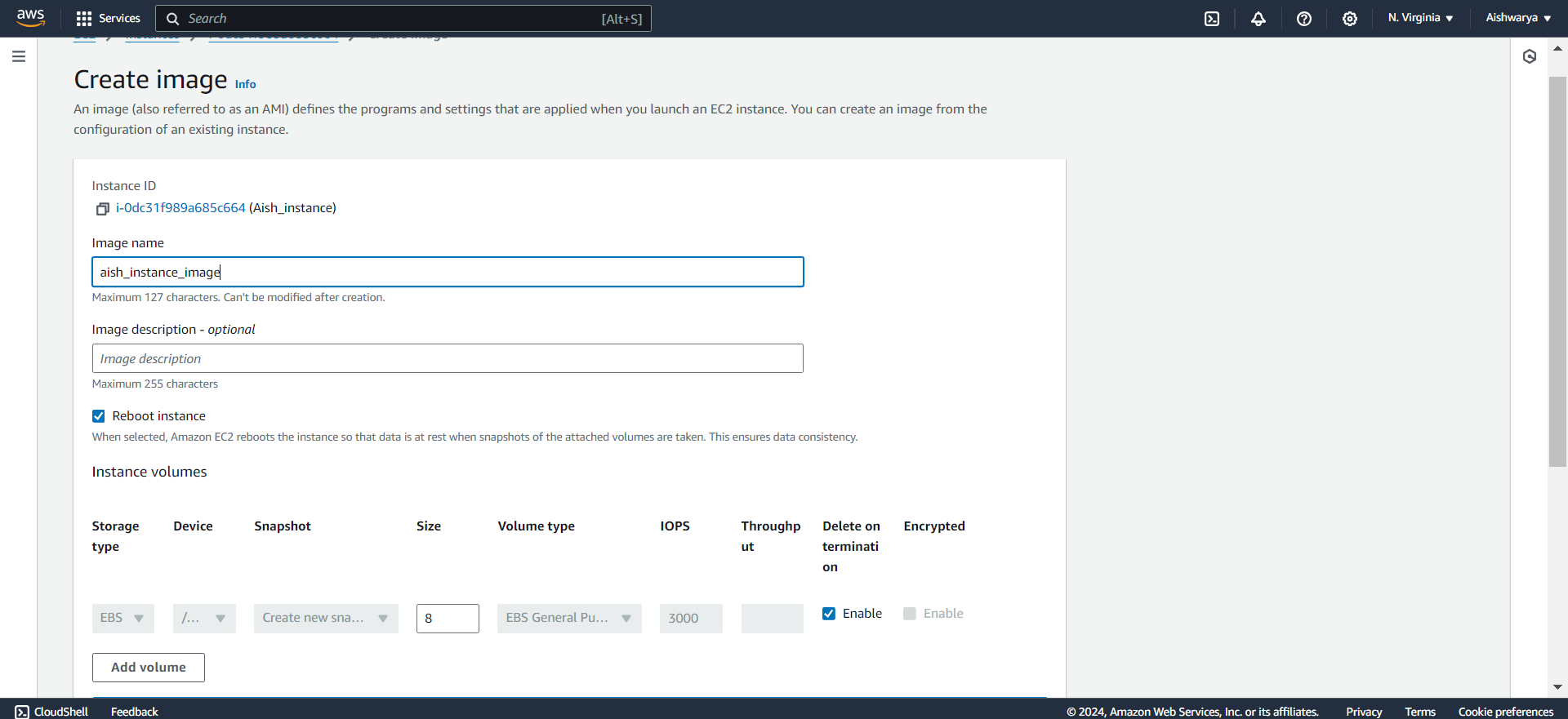


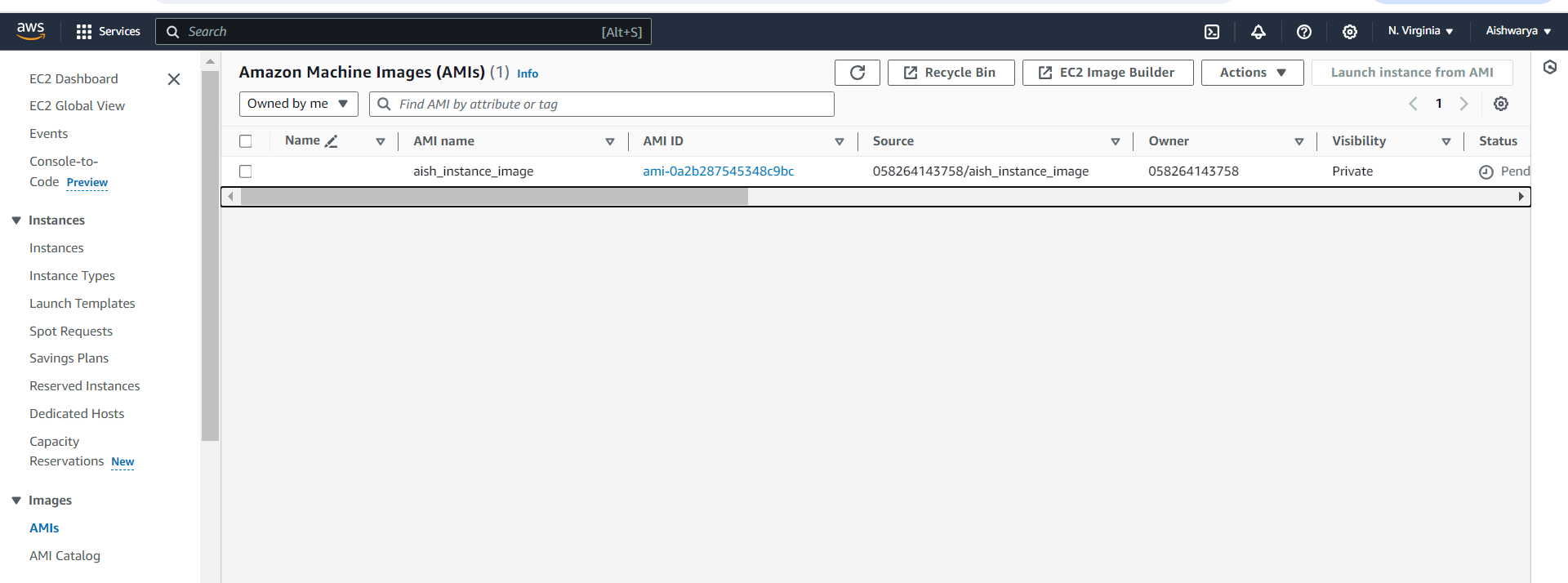
Data inserted successfully



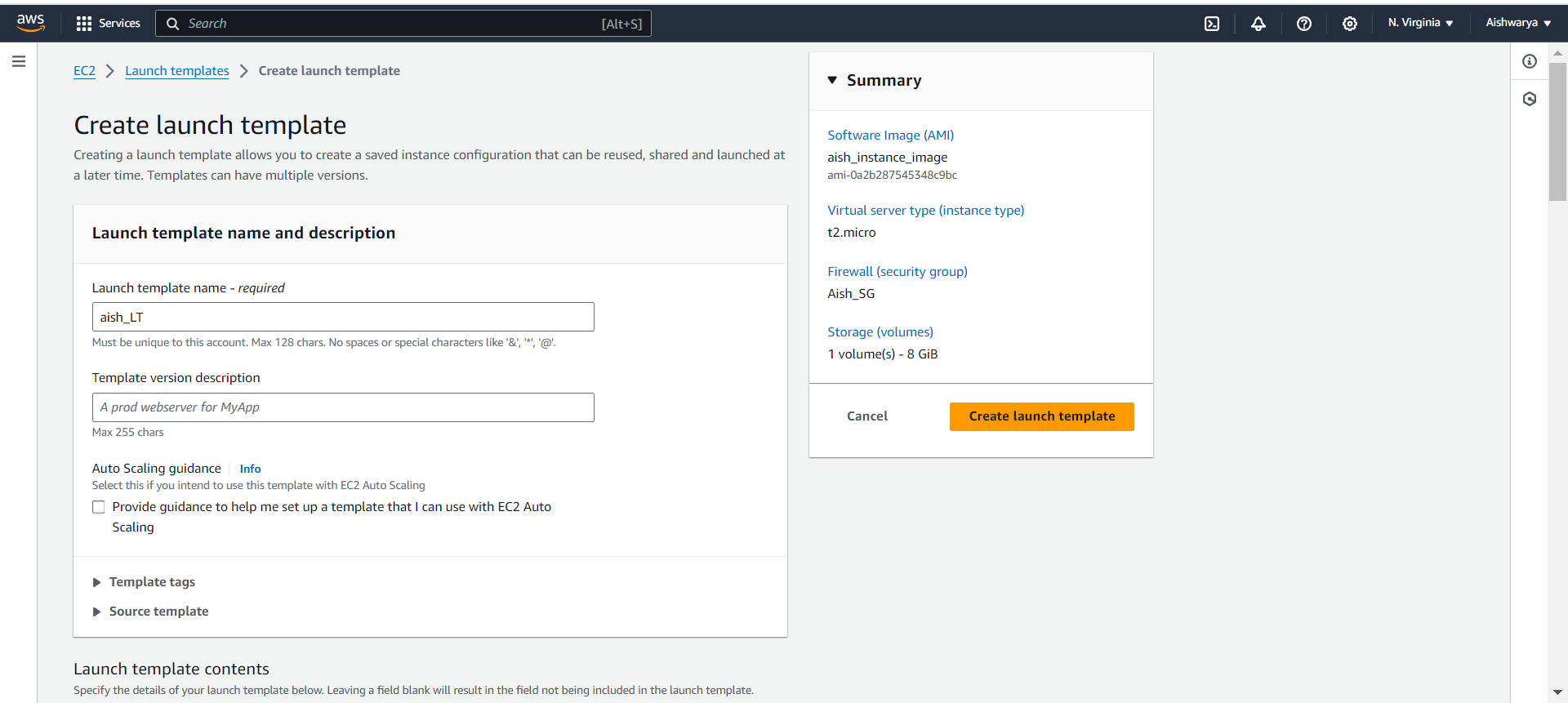
Now create Auto scaling group for this create Lauch Template



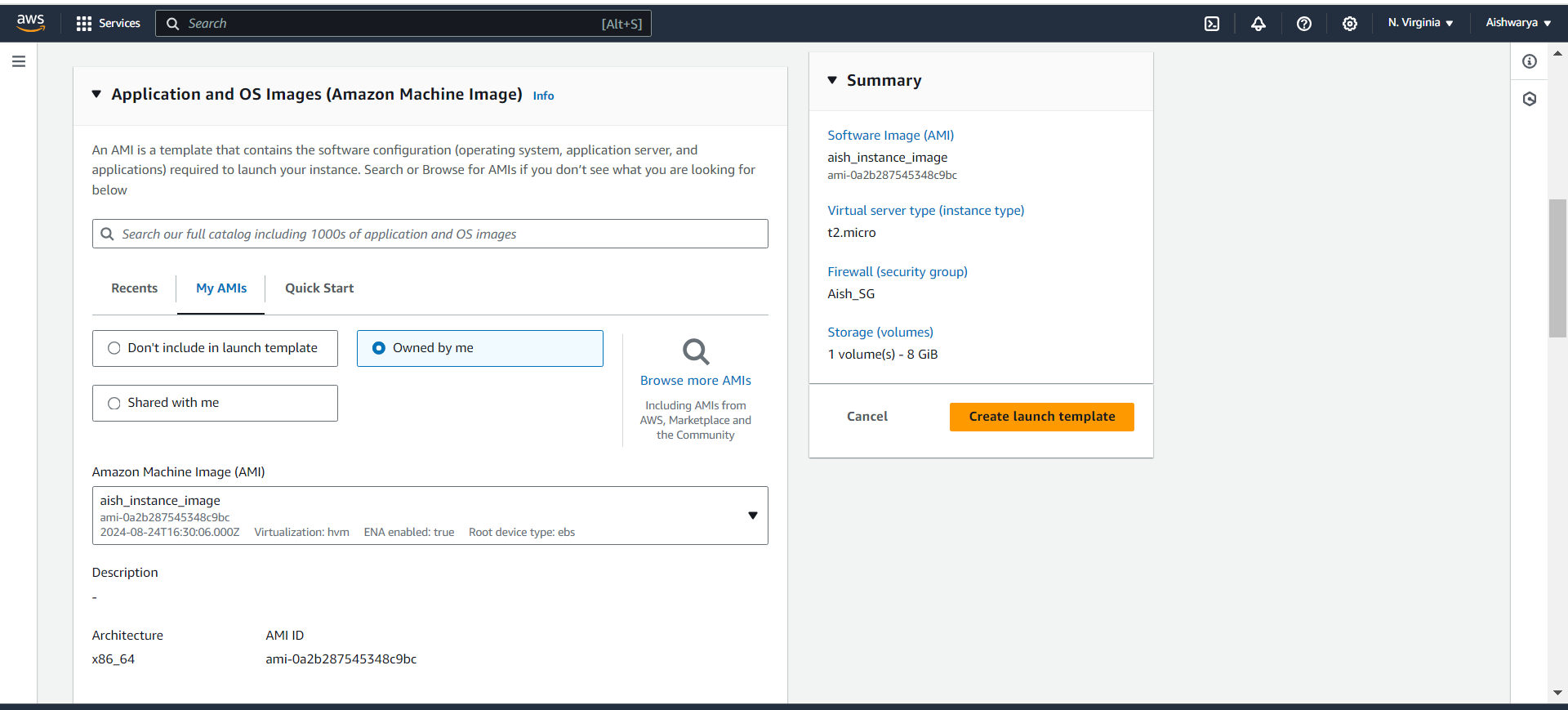


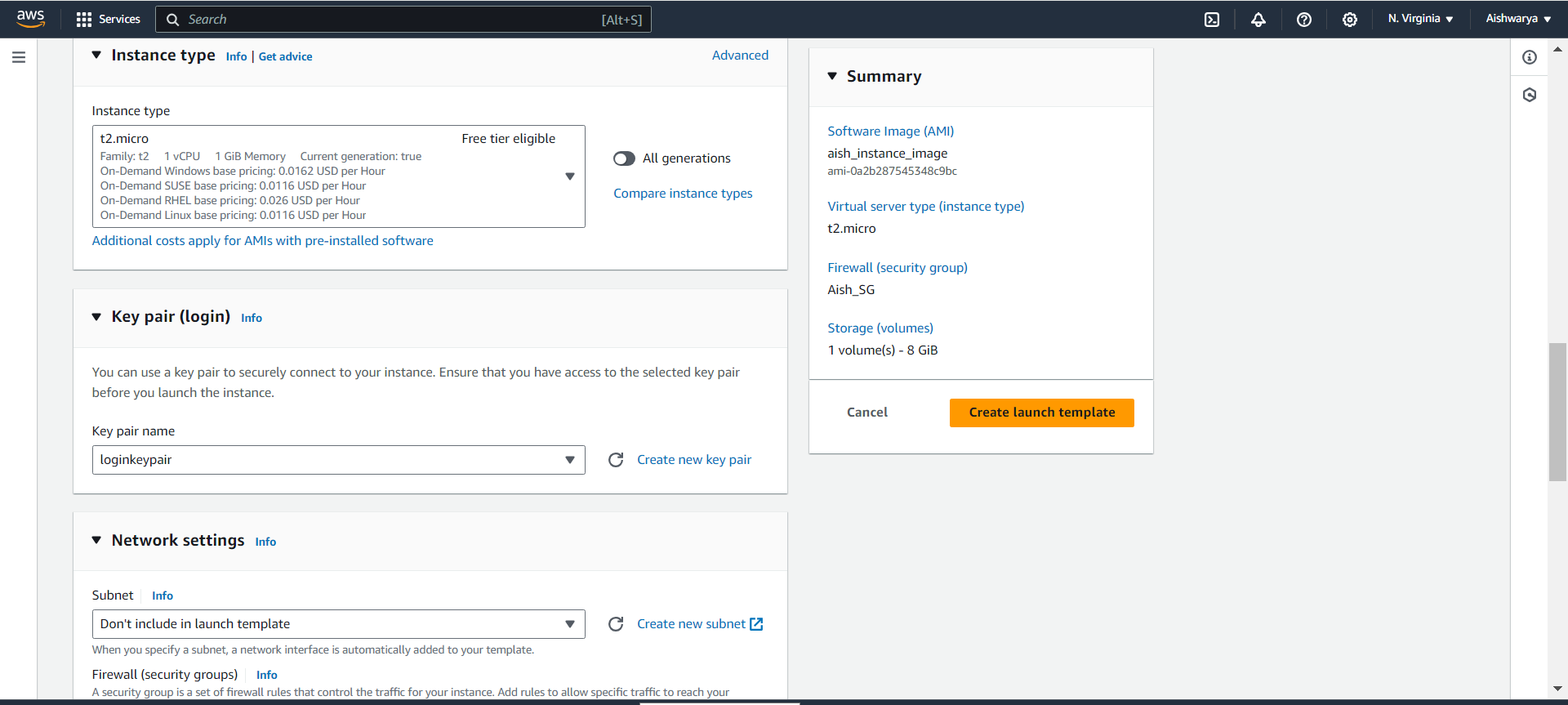


Create lauch template

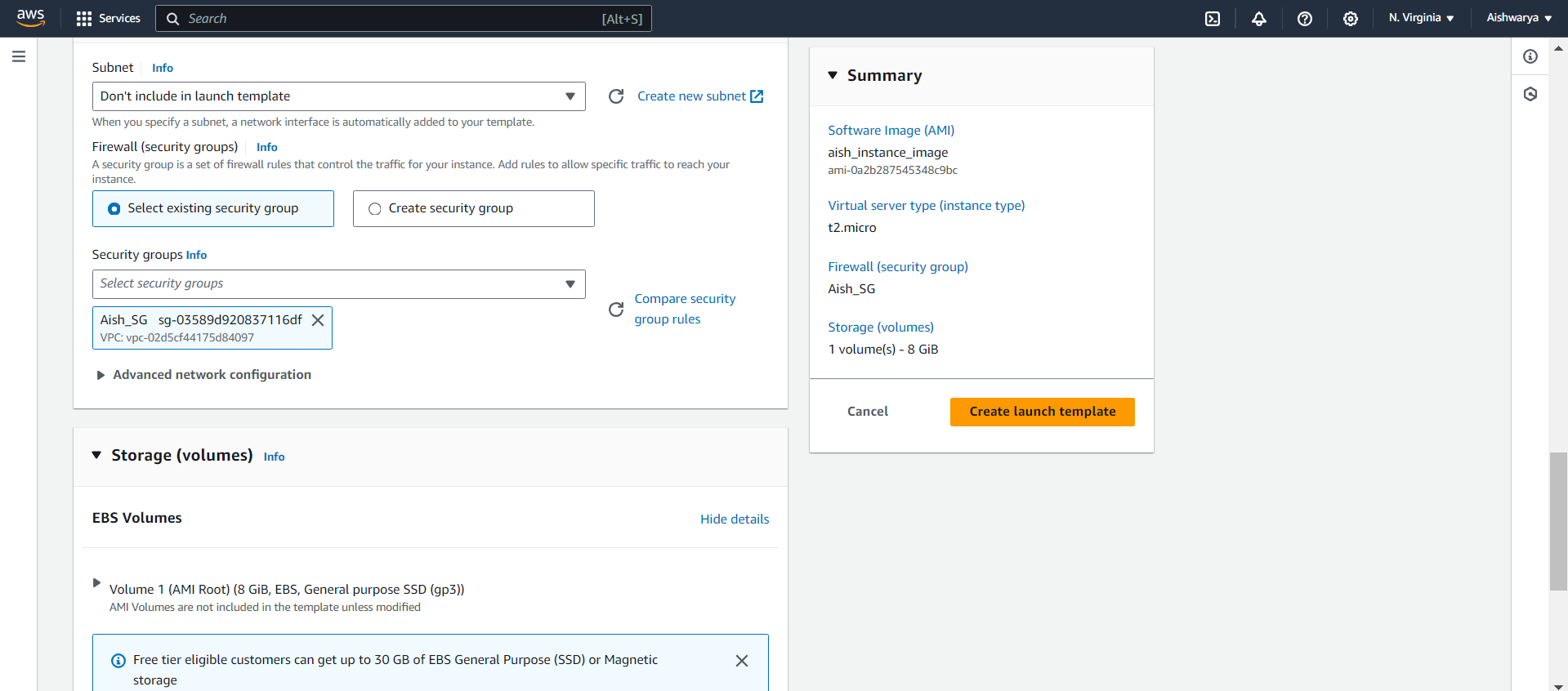


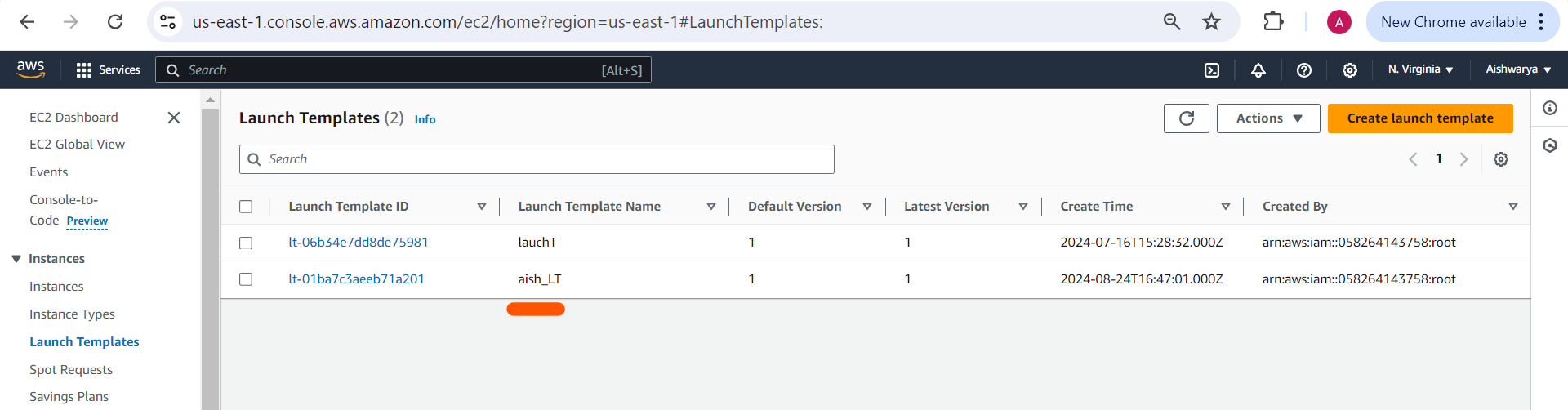
Select AMI which we created



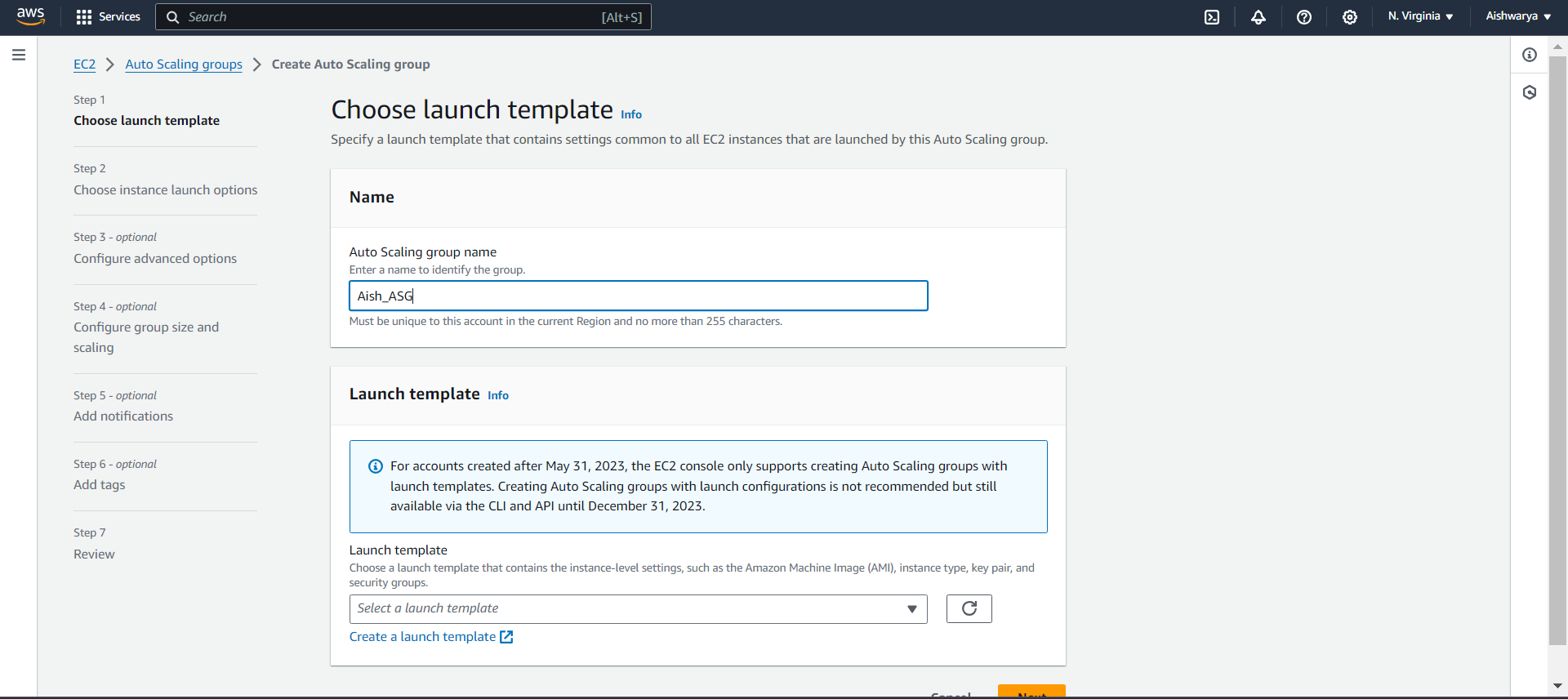


Choose security group

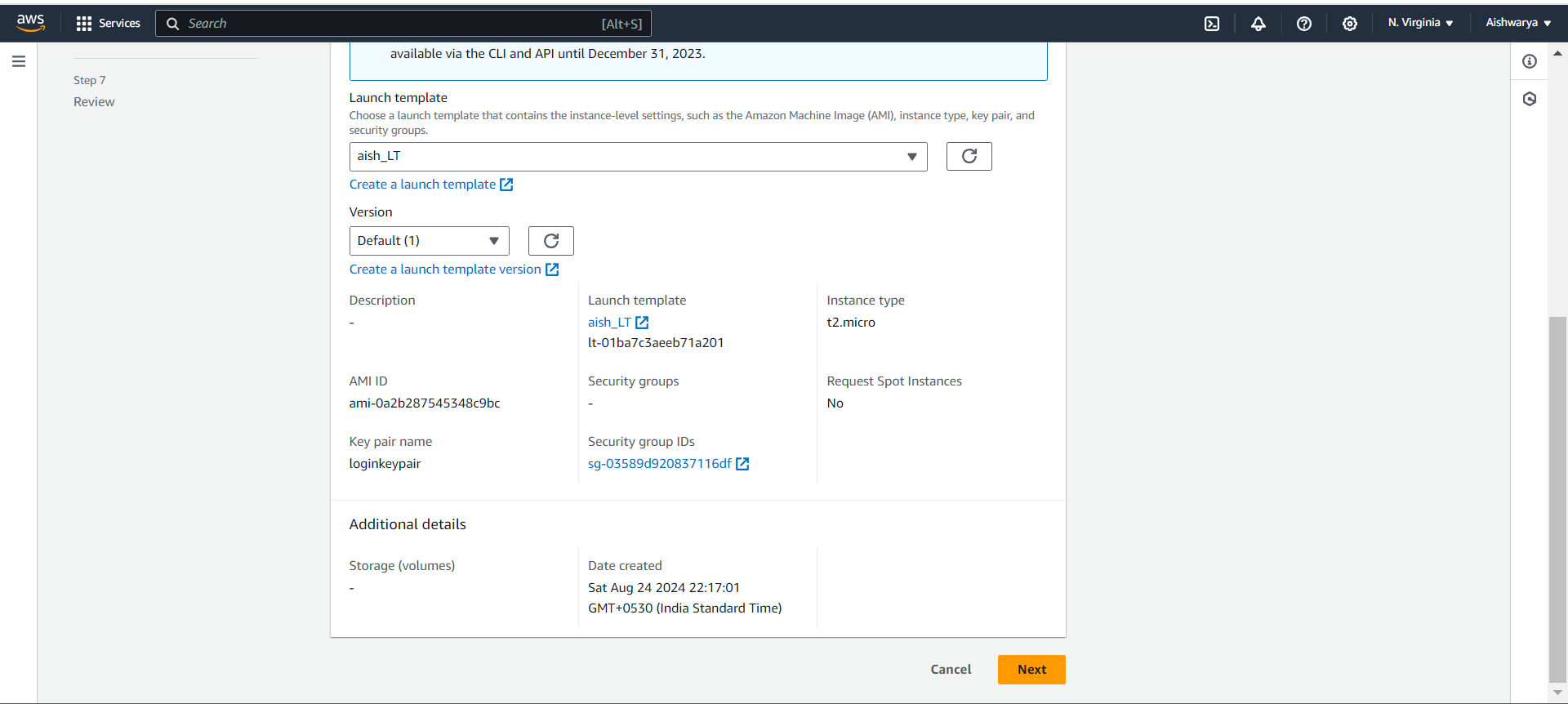


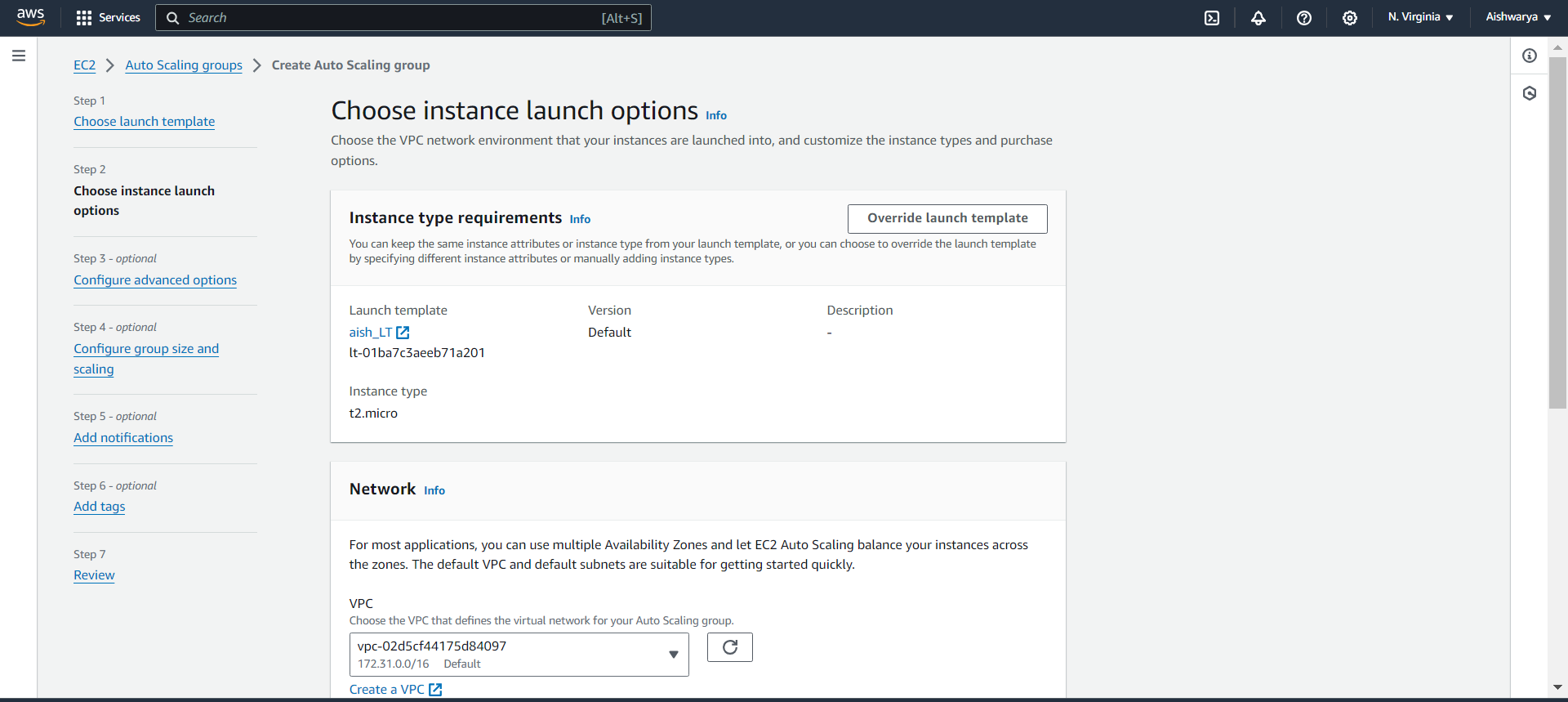


Now create load balancer and auto scaling group

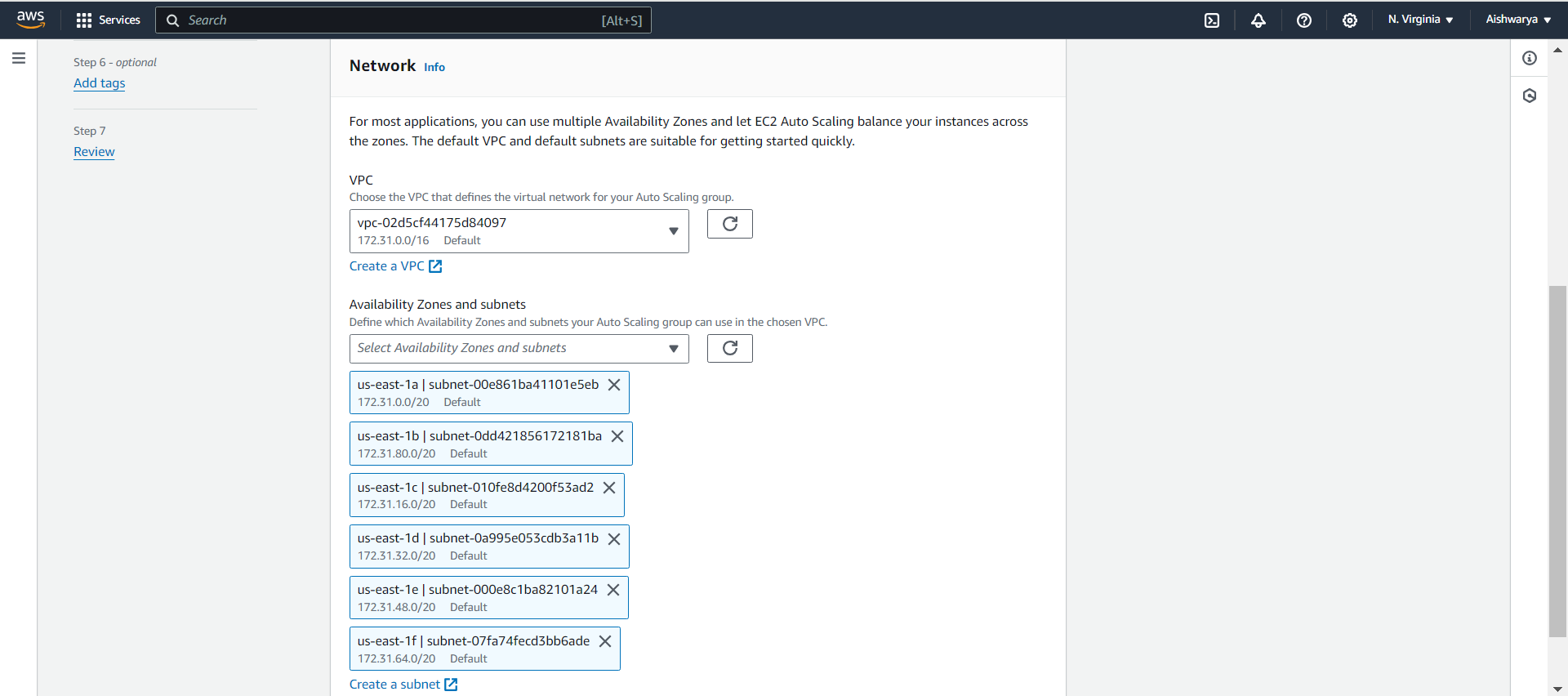


Select LT

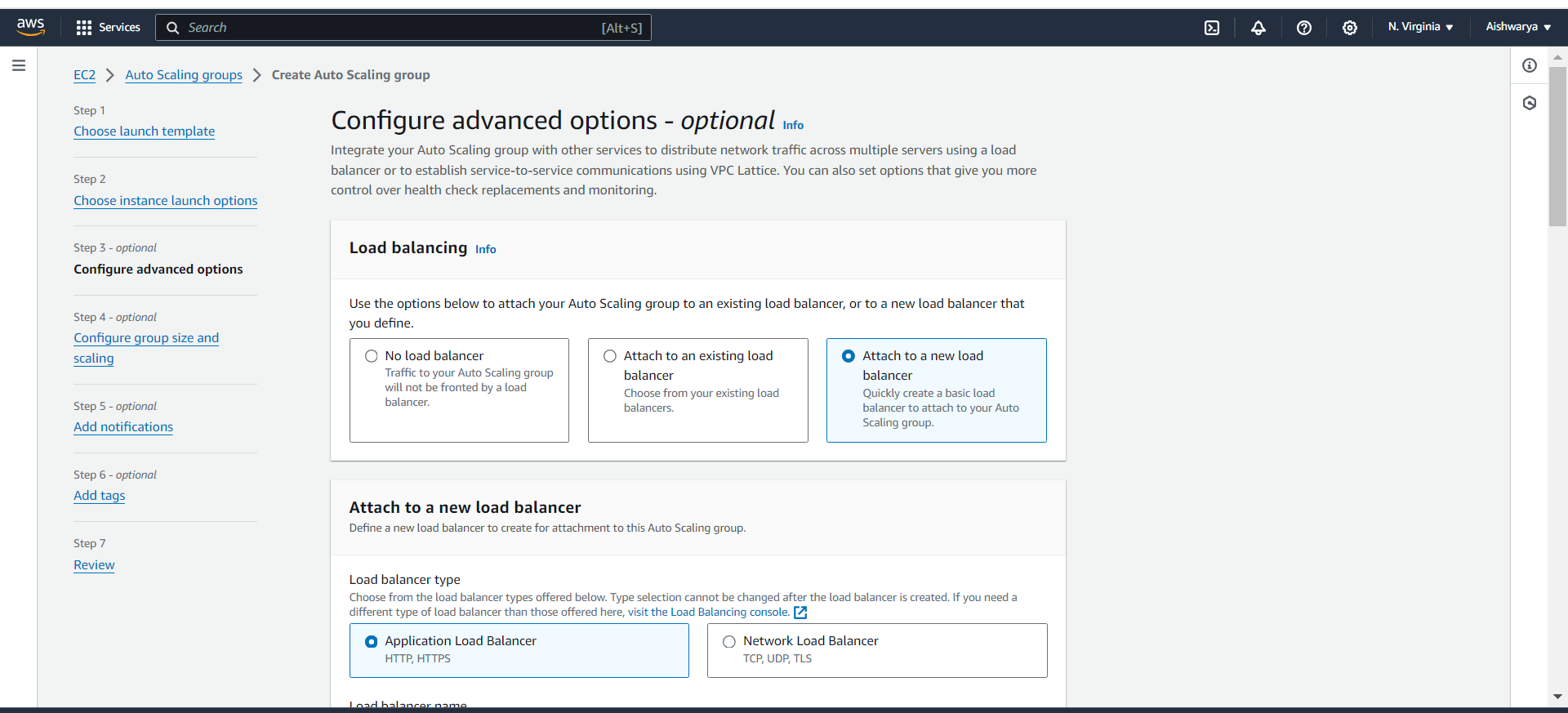


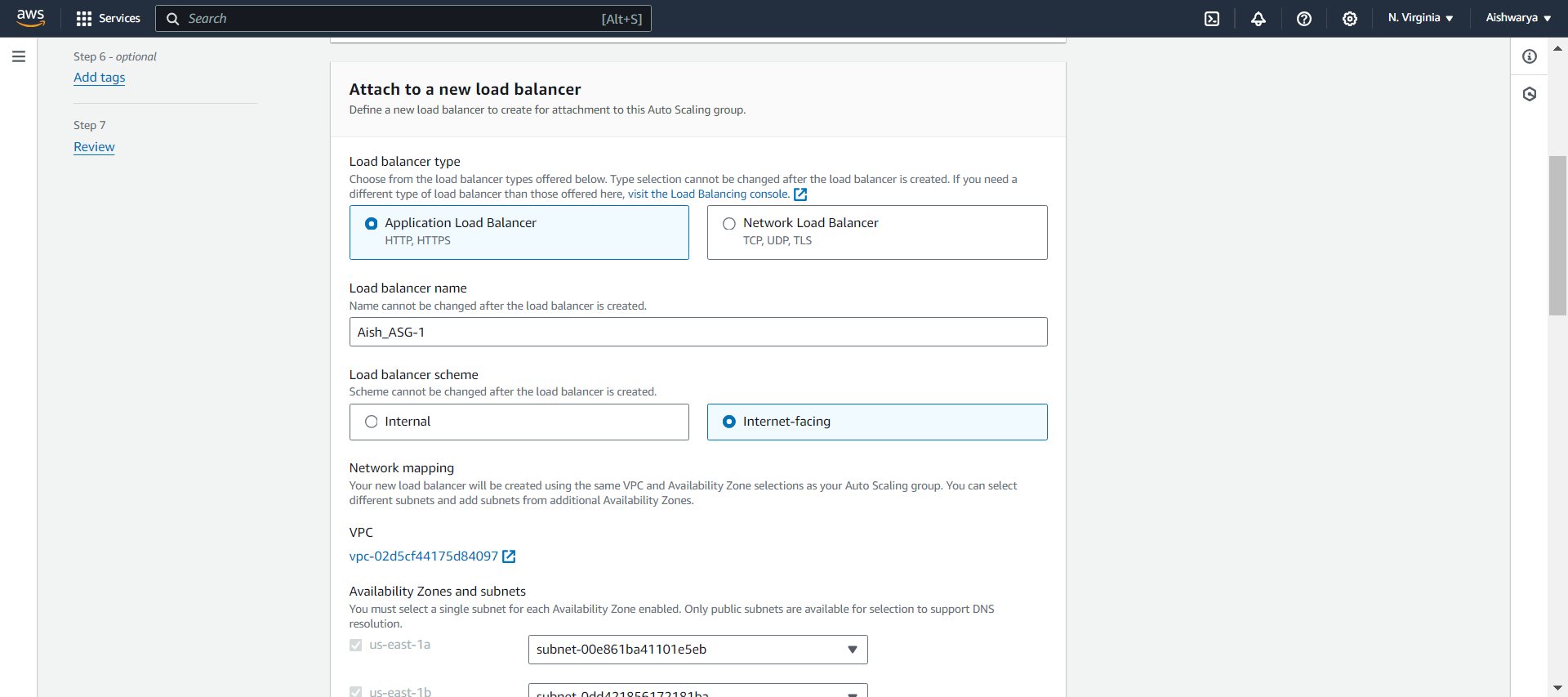


Choose AZ

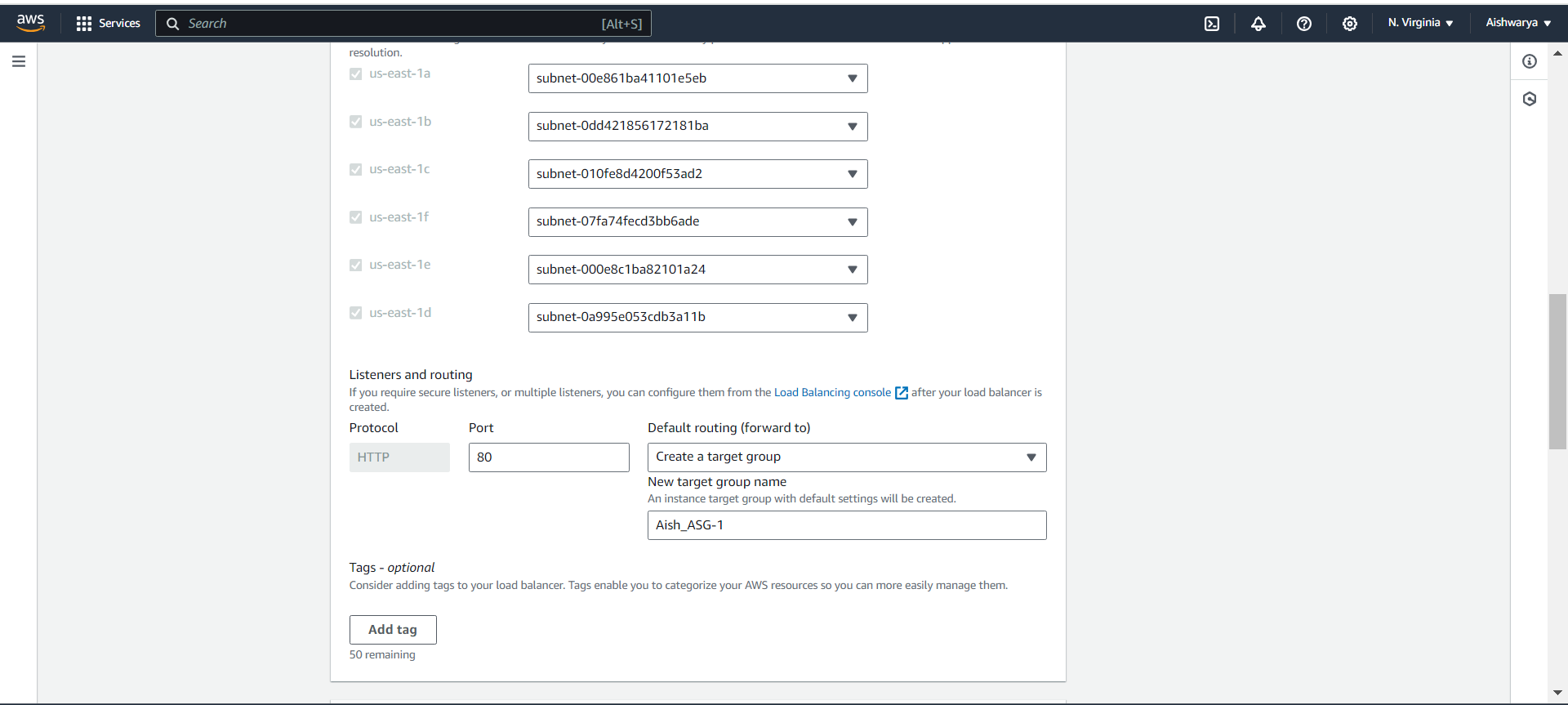


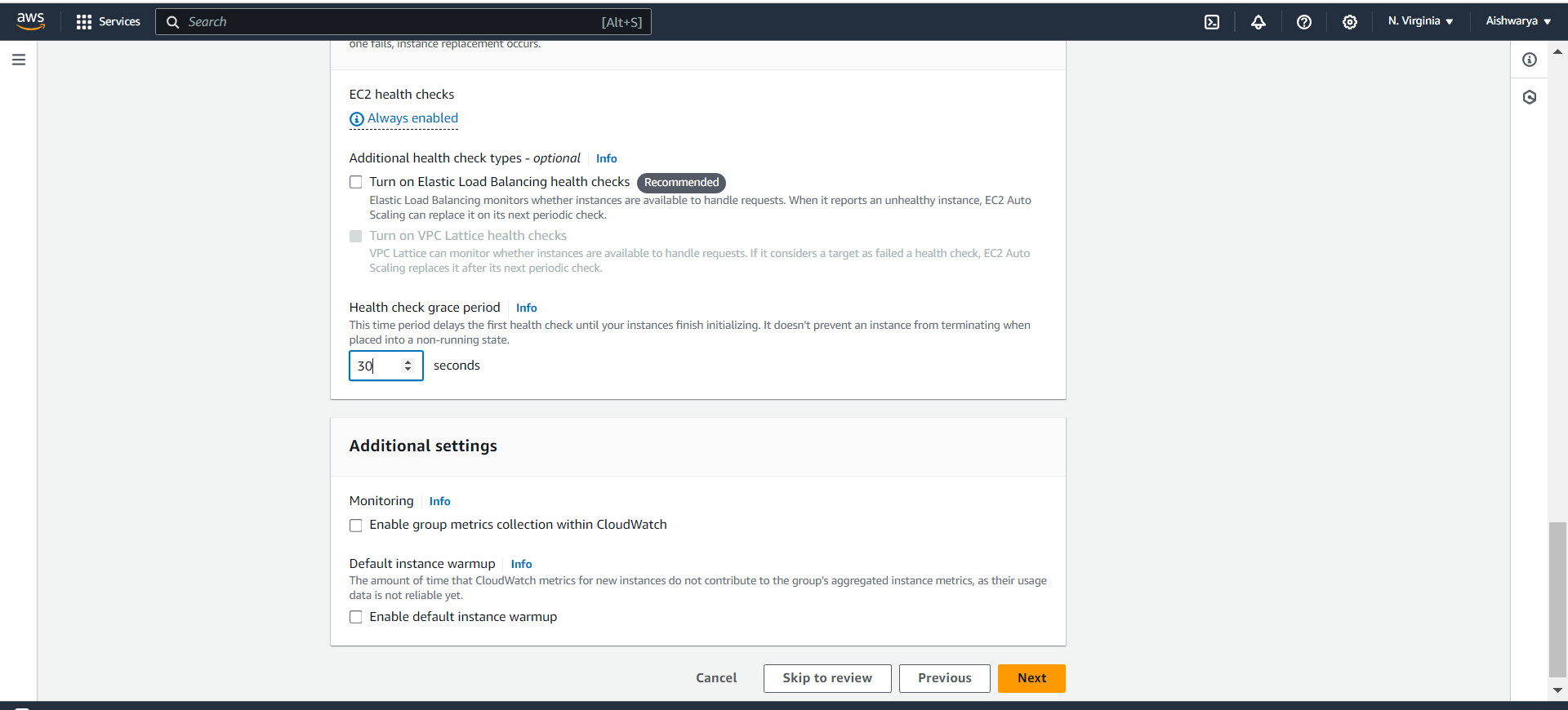
Create load balancer

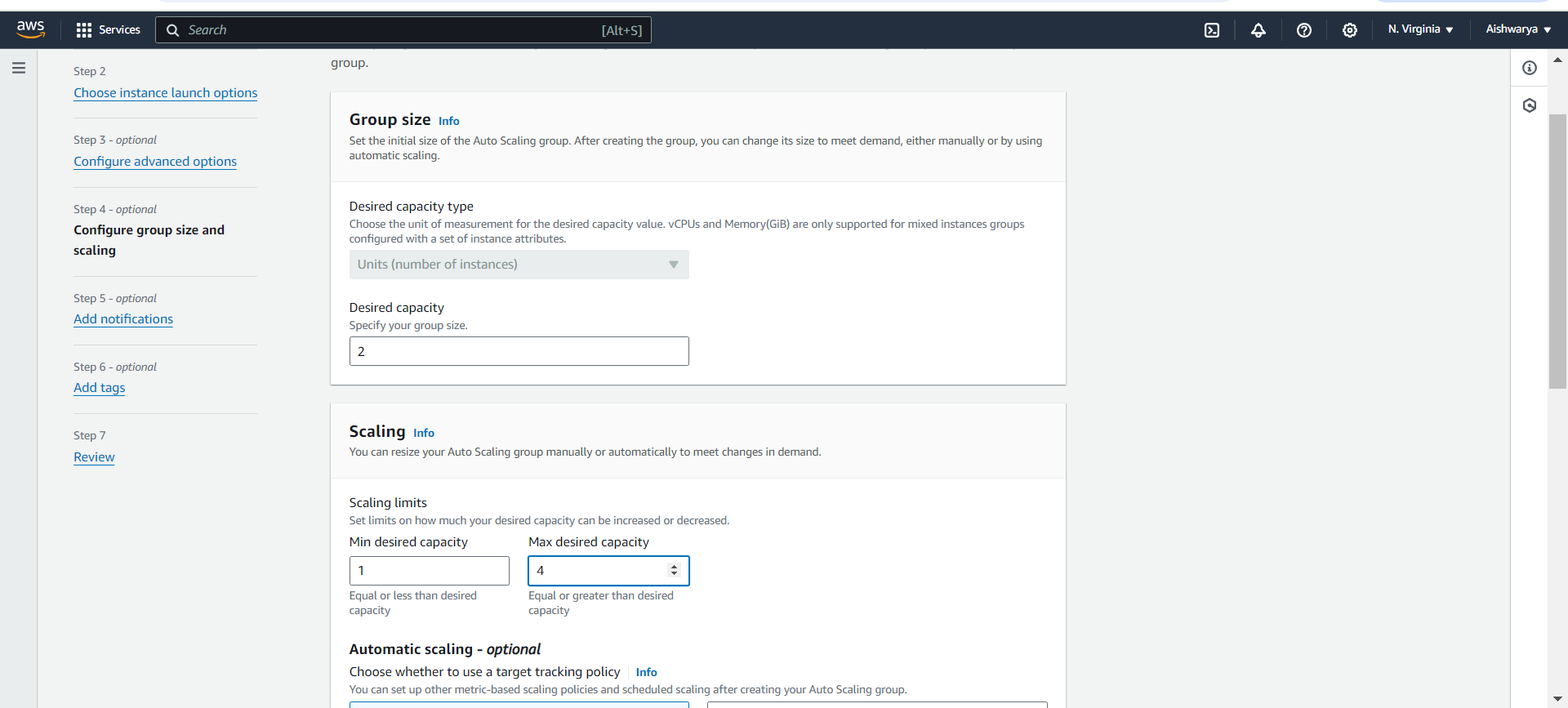


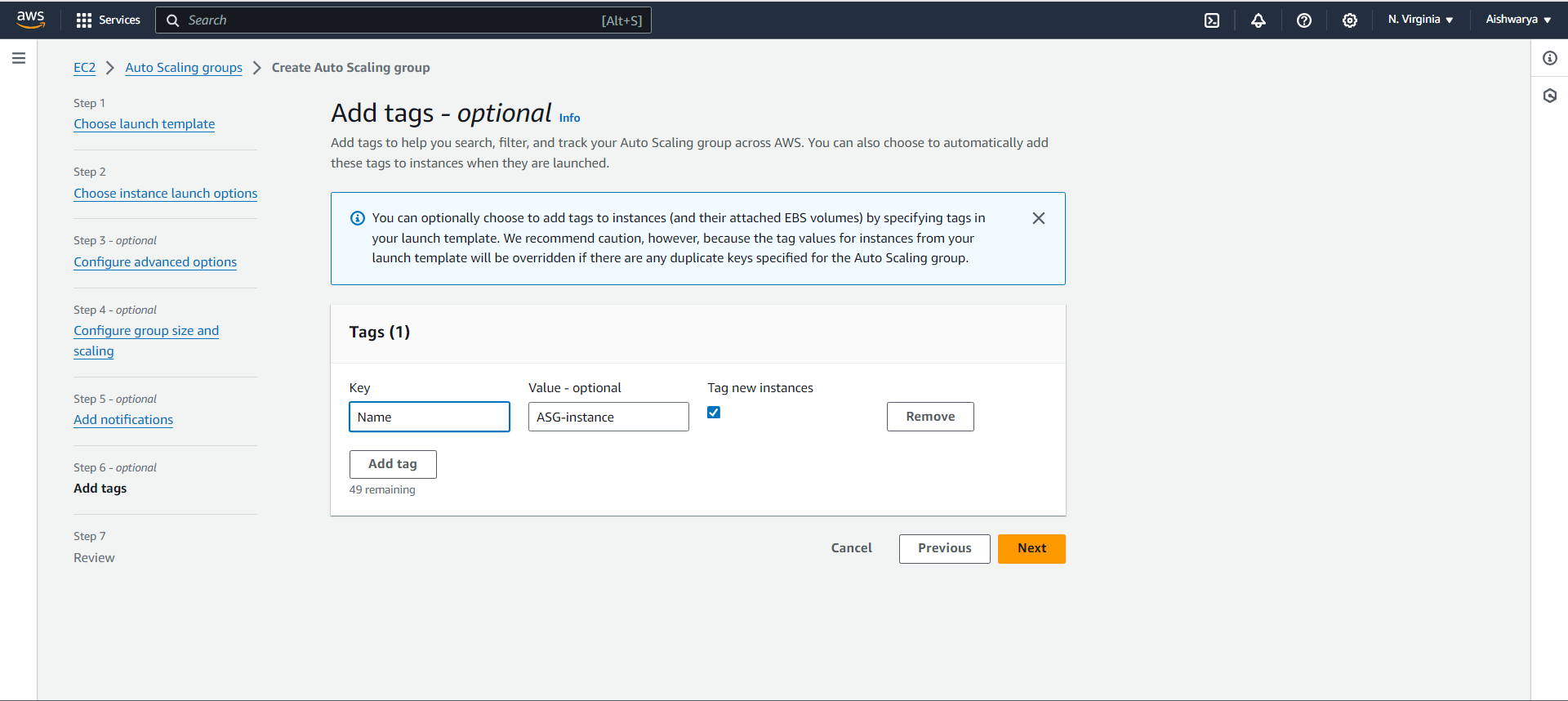


Create TG

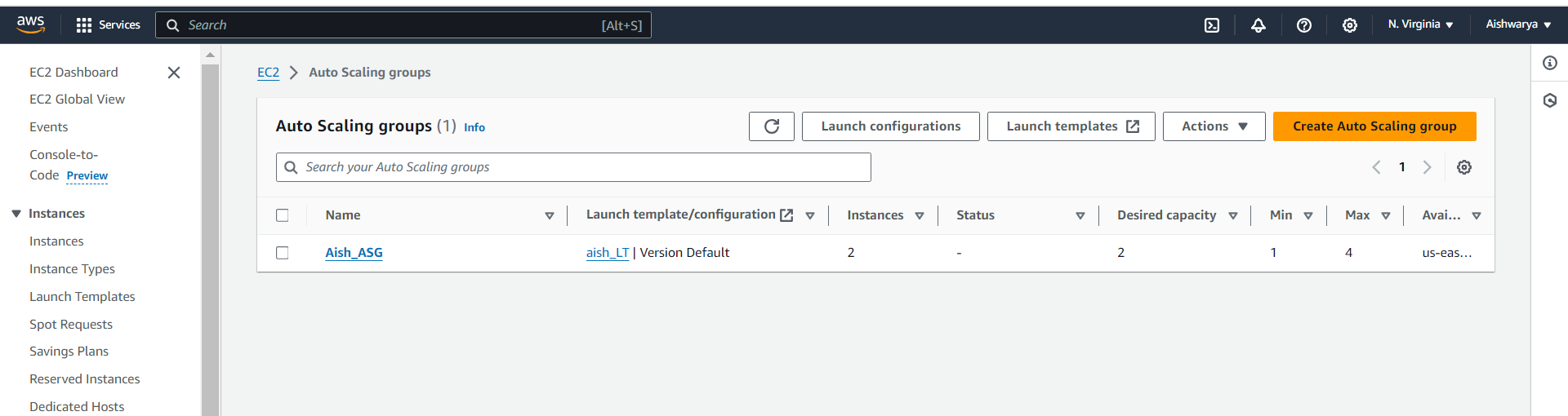




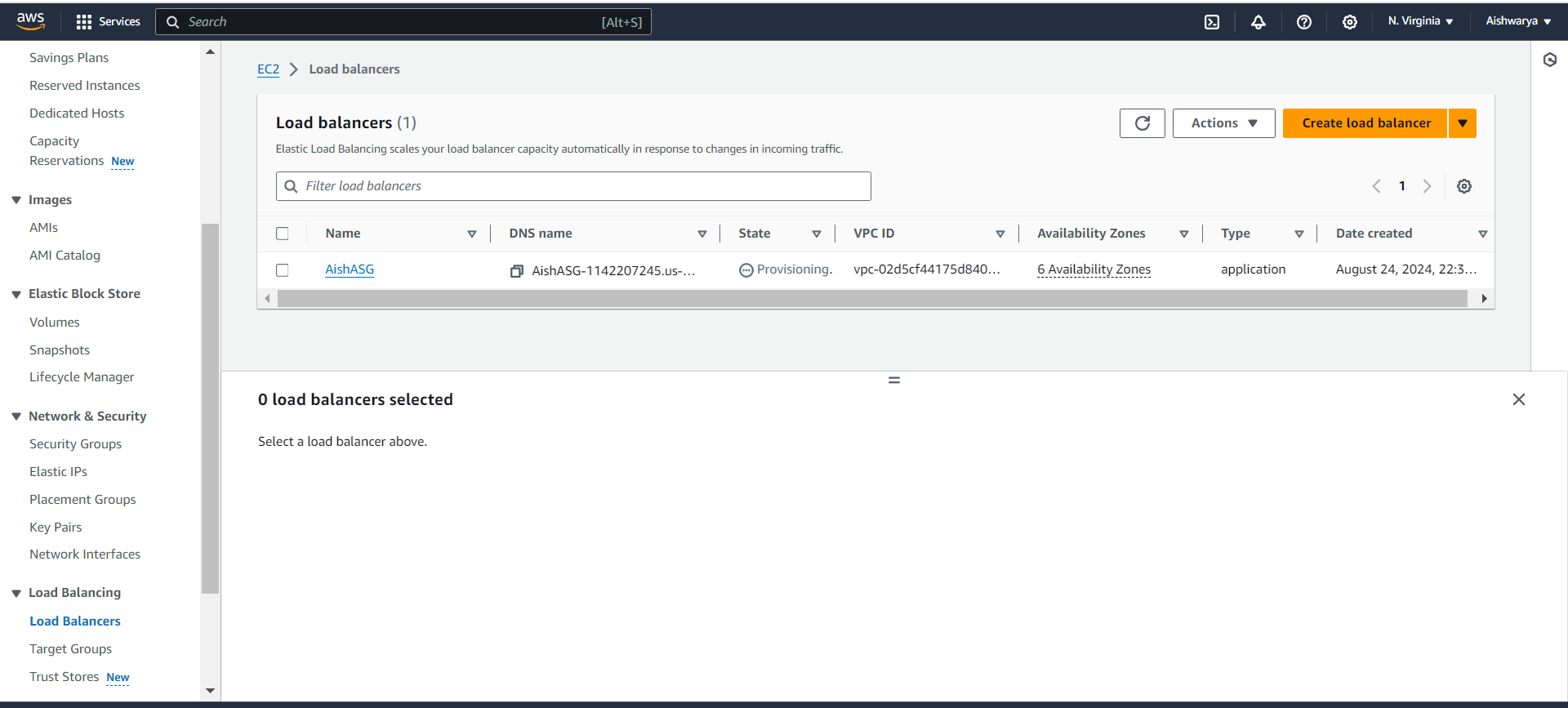




ASG



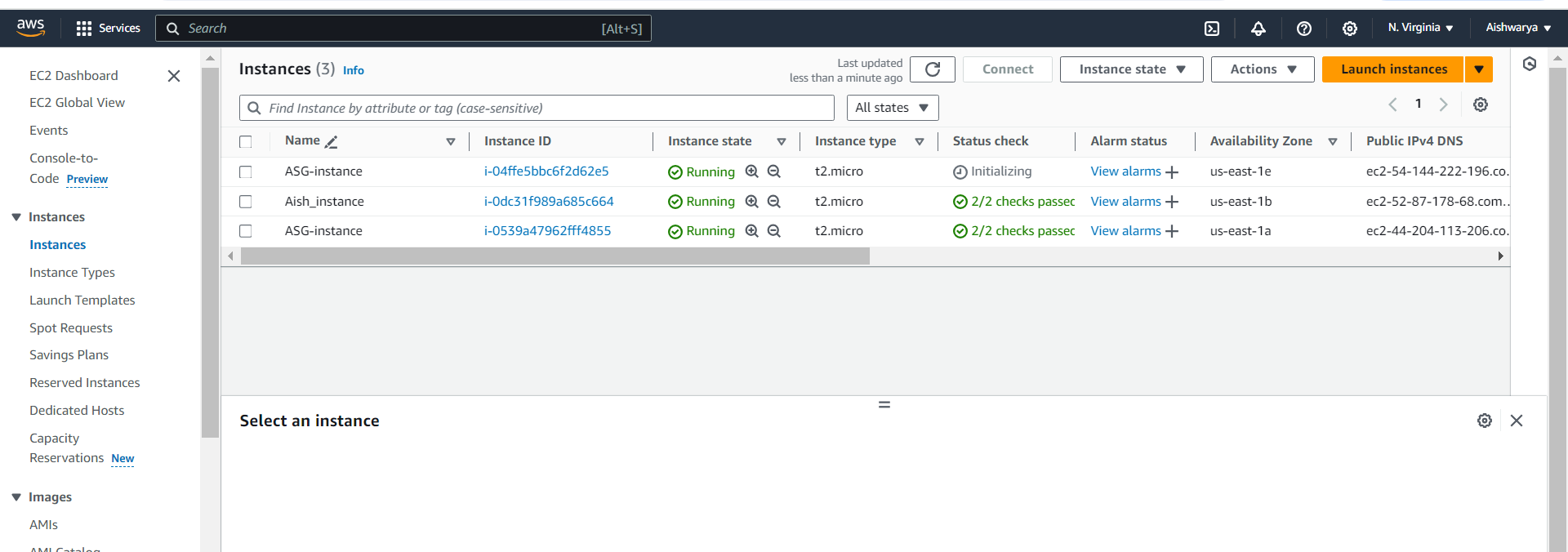
Load balancer



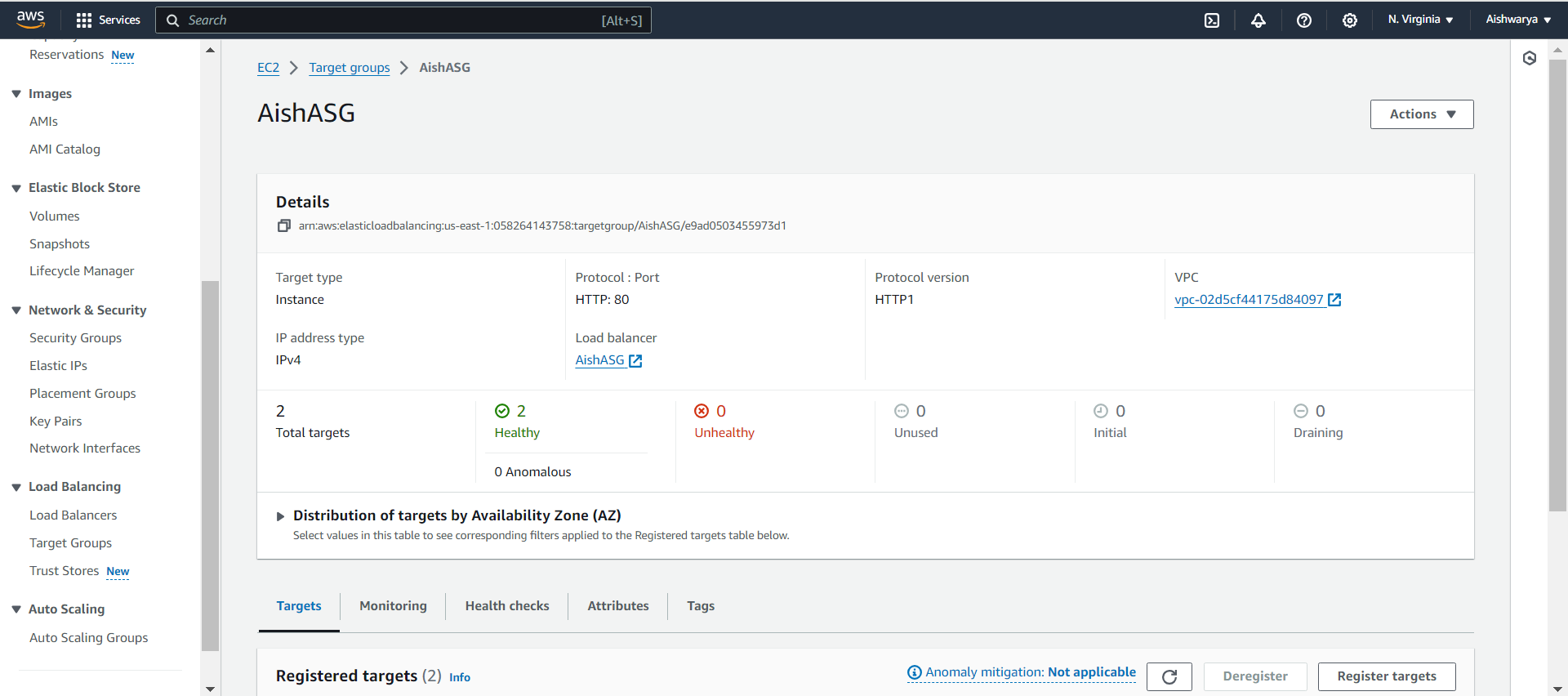
TG

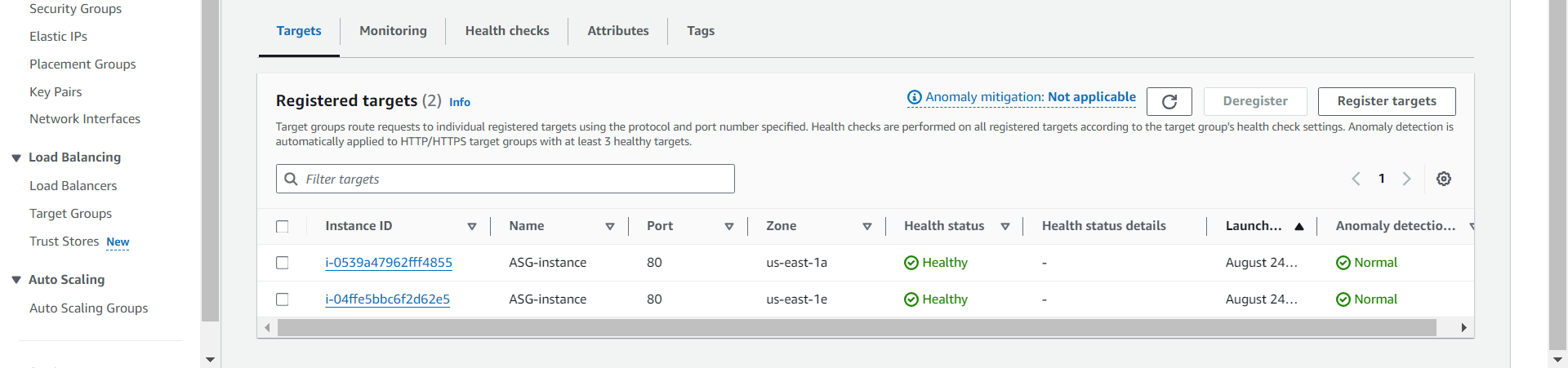


Instances

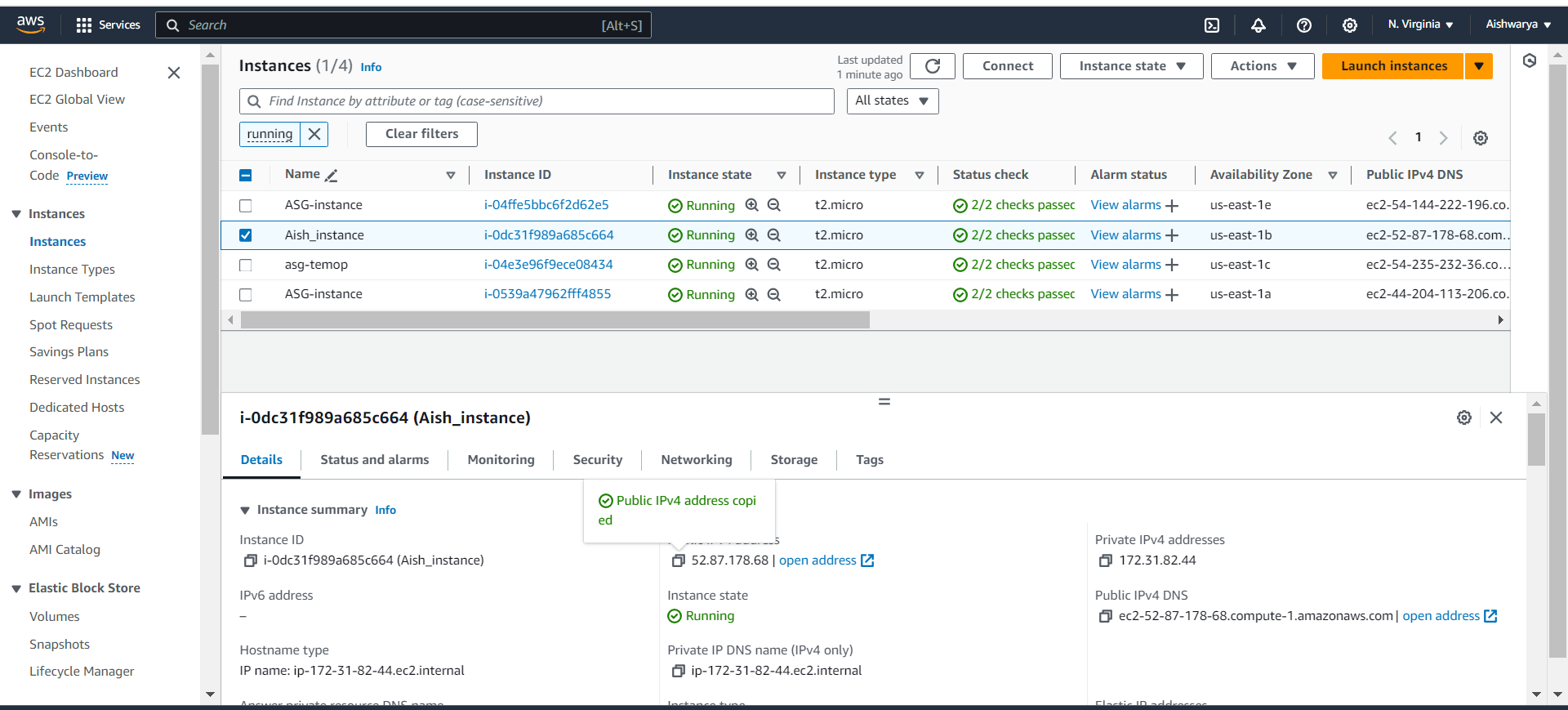


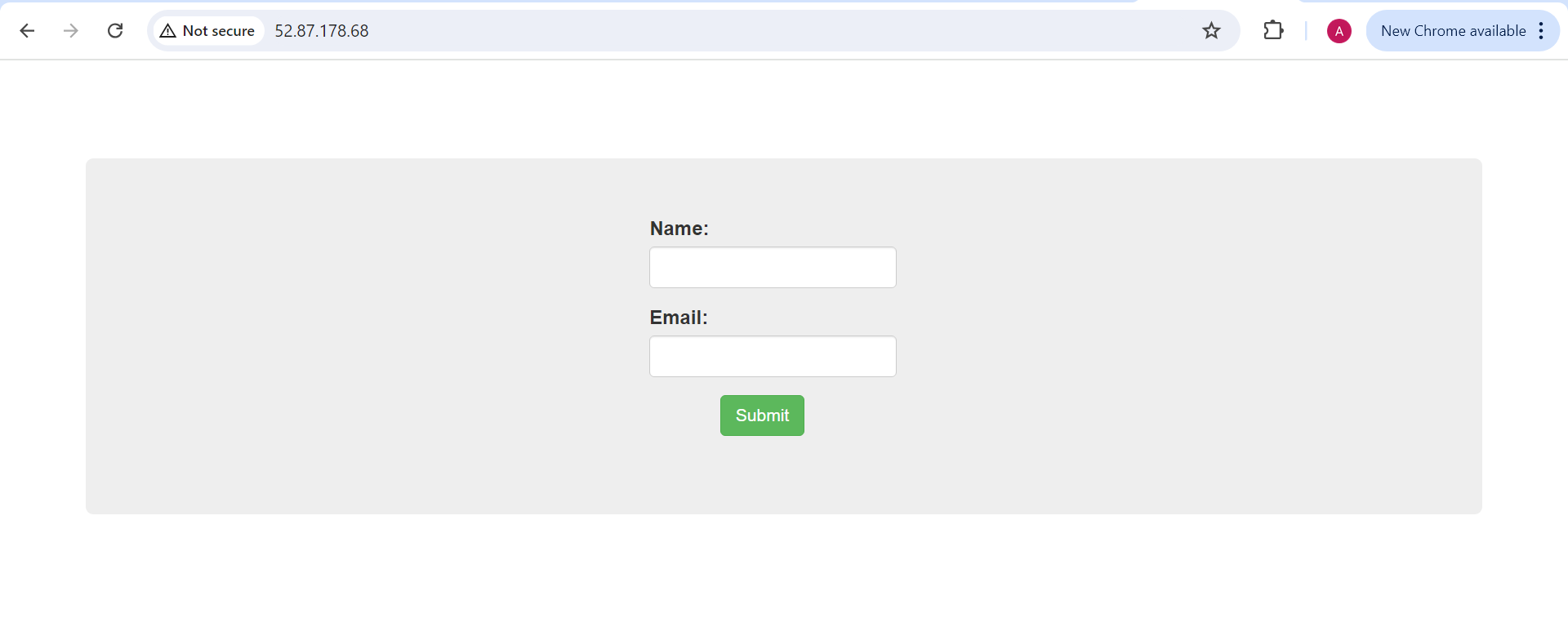
Check TG instances

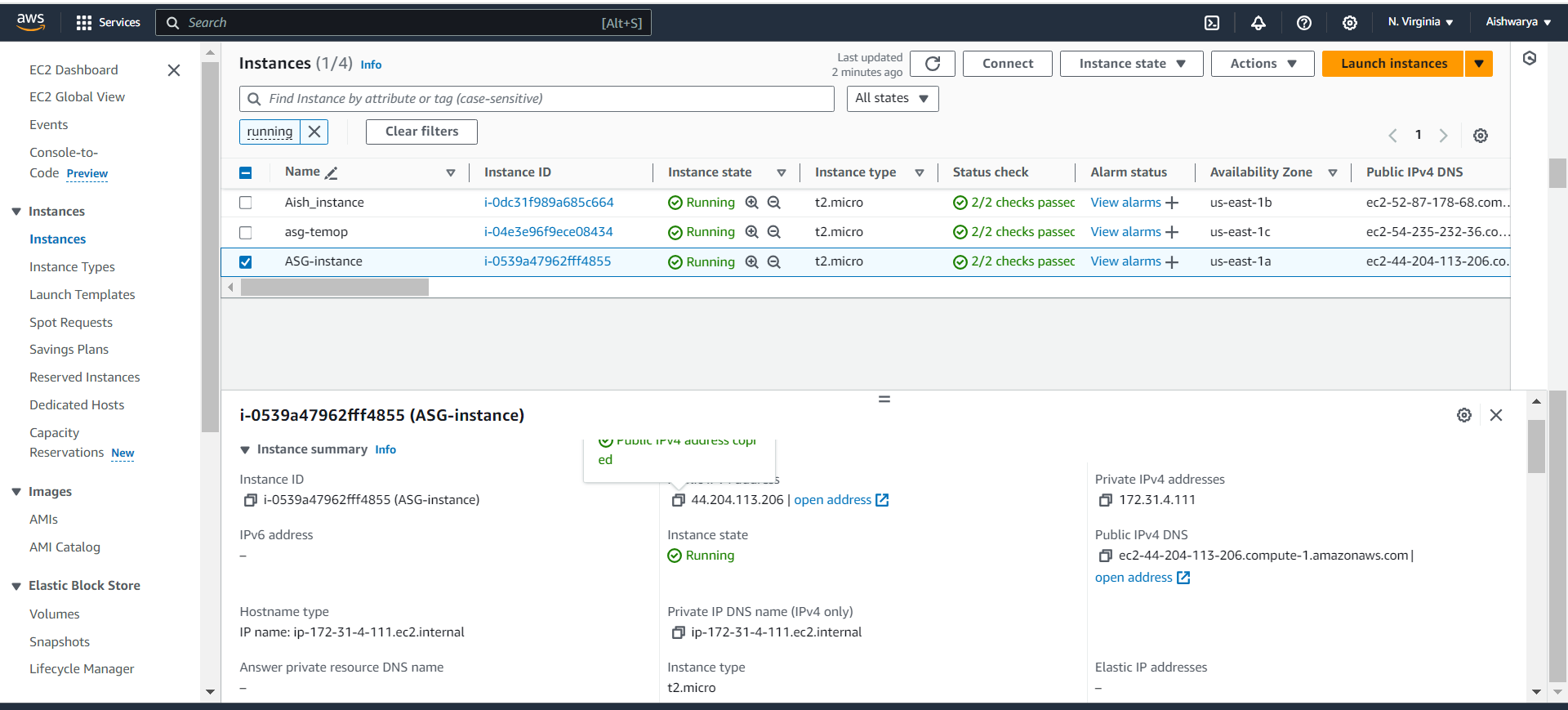


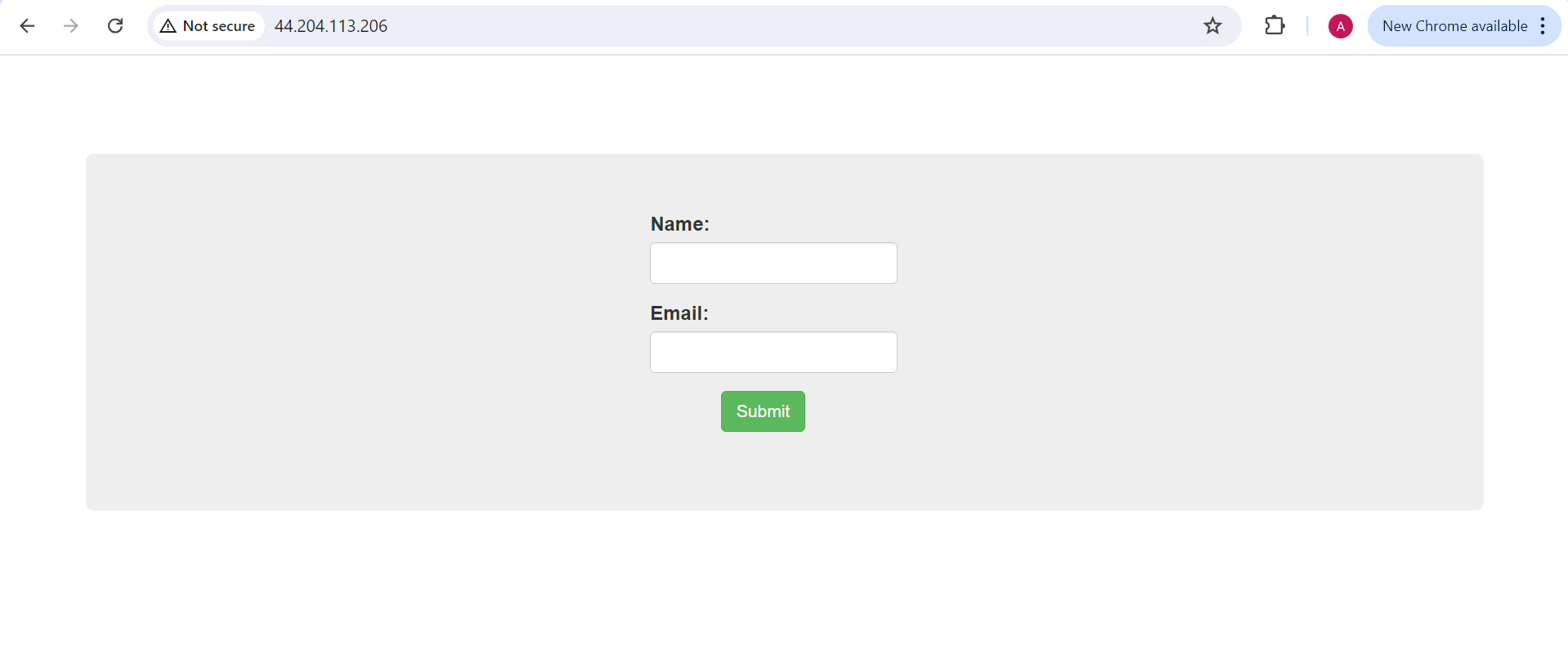


Take public Ip









DNS

