



COS20019 - Cloud Computing Architecture

Assignment 1 = part B

Creating and deploying Photo Album website onto a simple

AWS infrastructure

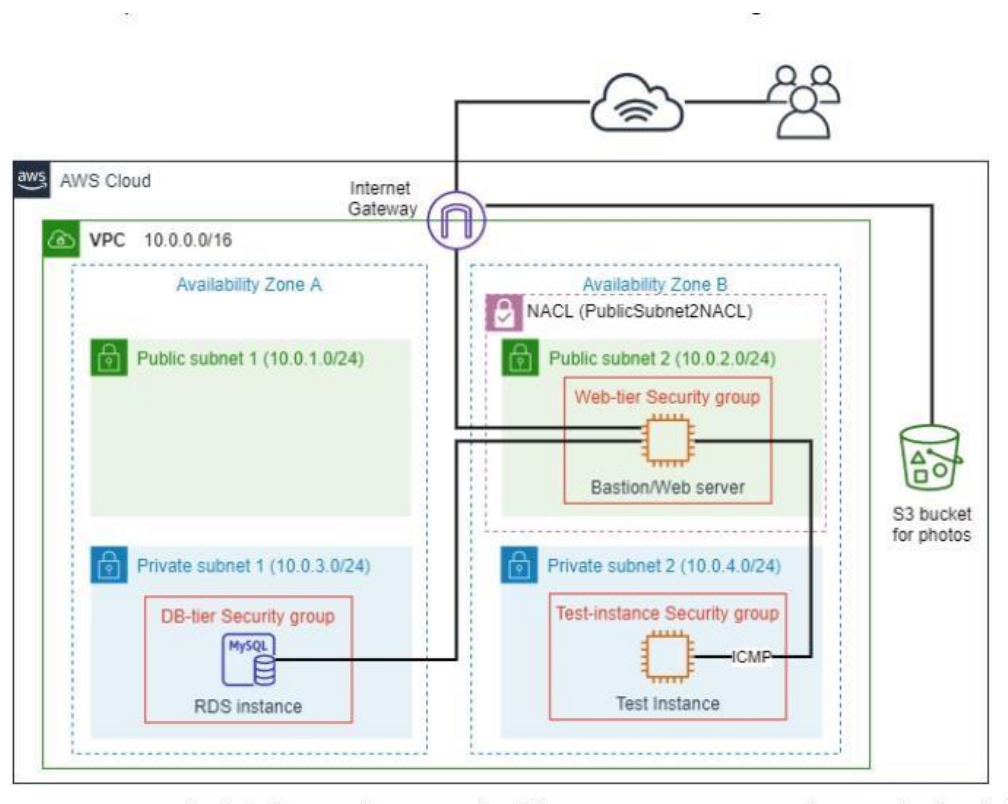
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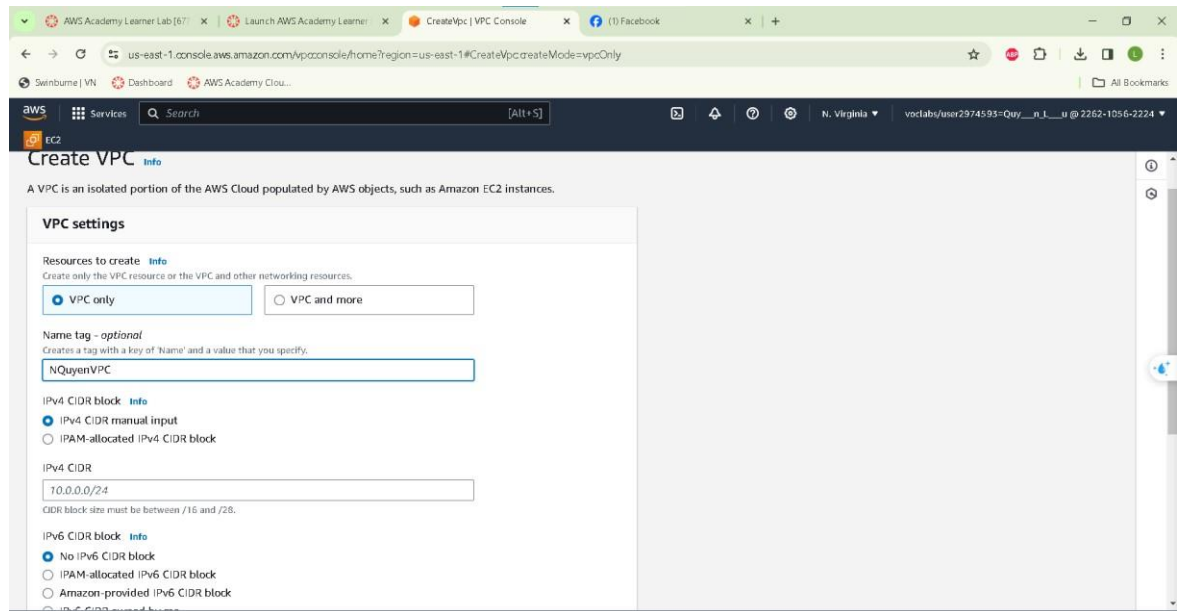
Tutorial Time: Every Tuesday at 7:AM

Date of submission: 9:AM (AEST) Monday, start of Week 7

1. Infrastructure deployment

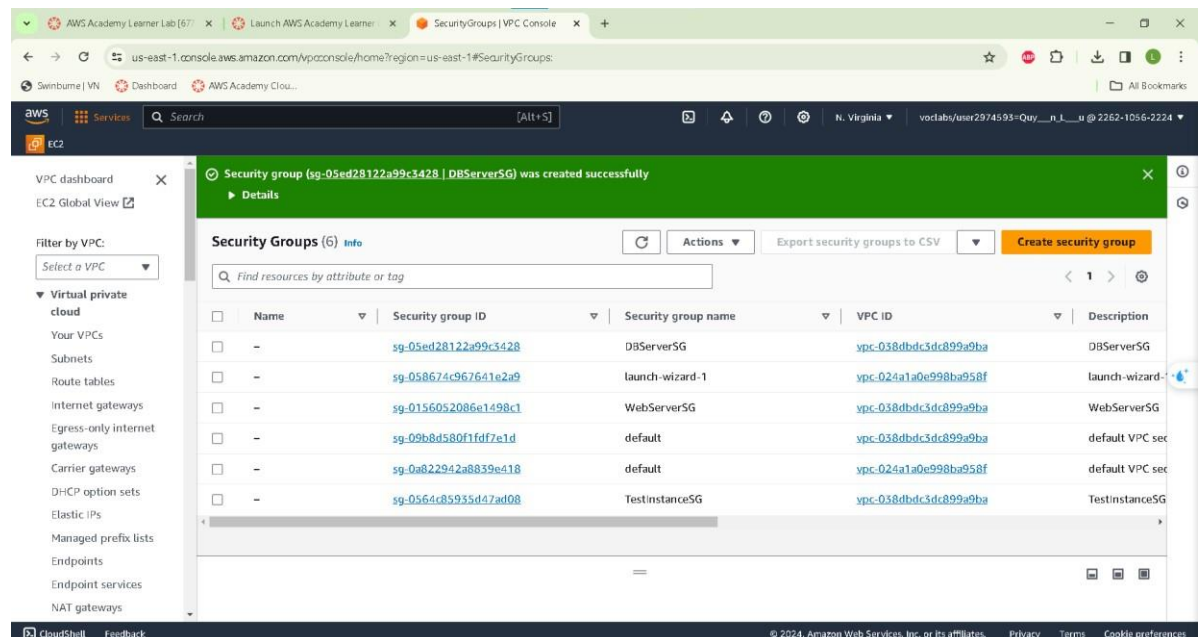


1.1 – VPC:



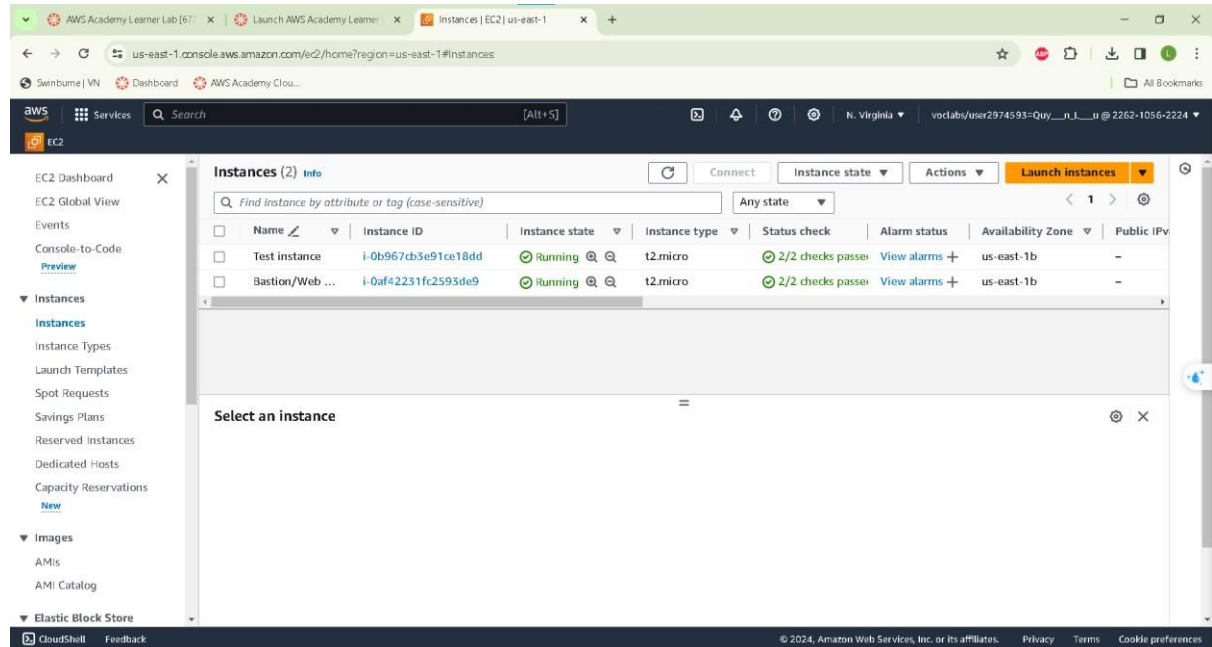
First, I created an VPC based on my name called “NQuyenVPC”.

1.2 – Security Group:

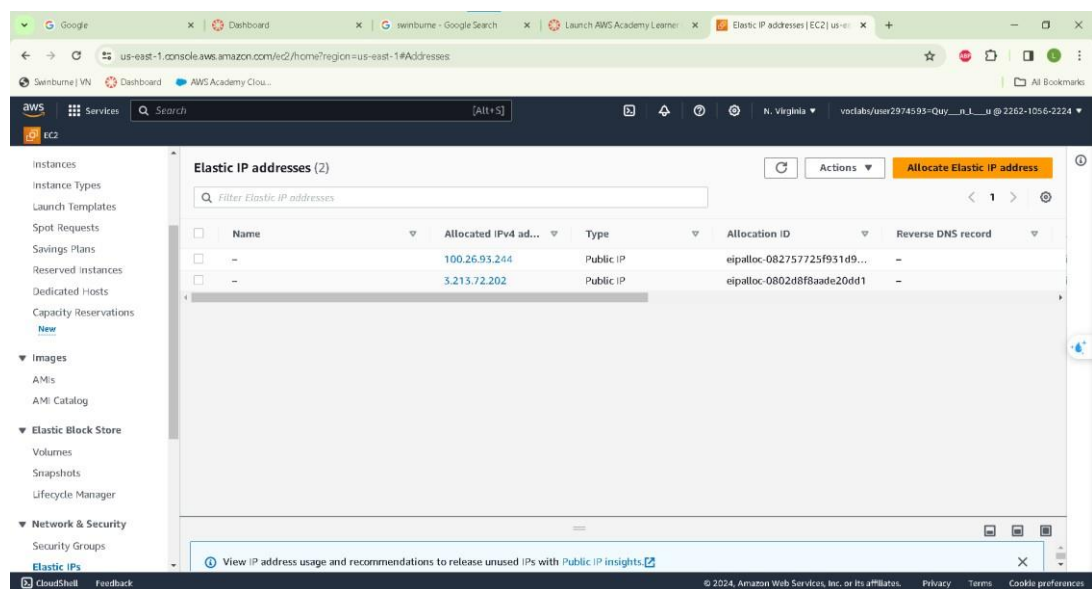


I Continually create four security groups, each is associated with each tier to meet the requirements.

1.3– EC2 virtual machine:

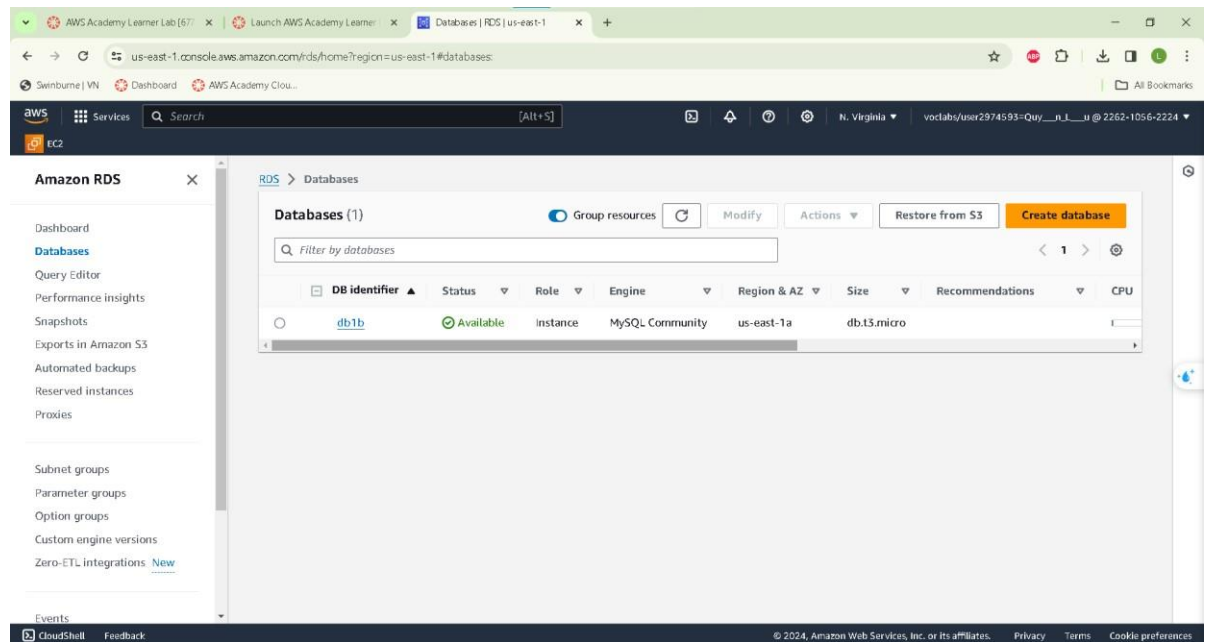


For Bastion/Web server instance, it deployed on an EC2 instances in Public Subnet 2. Following with Test instance in Private Subnet 2.

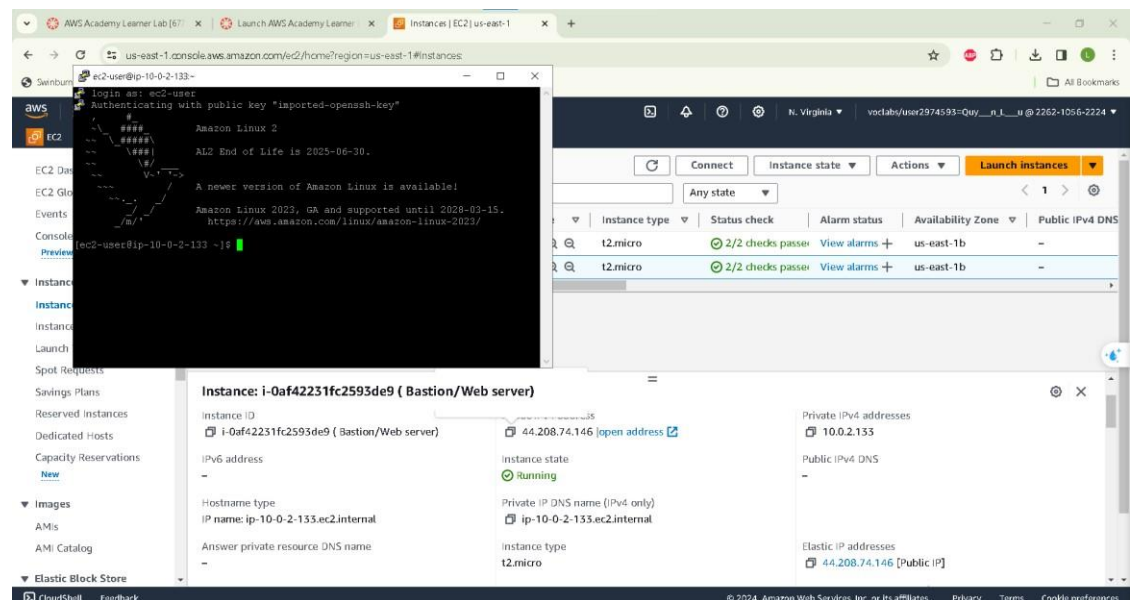


To avoid my public DNS change every time the Webserver instance restarts, I created two Elastic IP addresses.

1.4– RDS database instance:

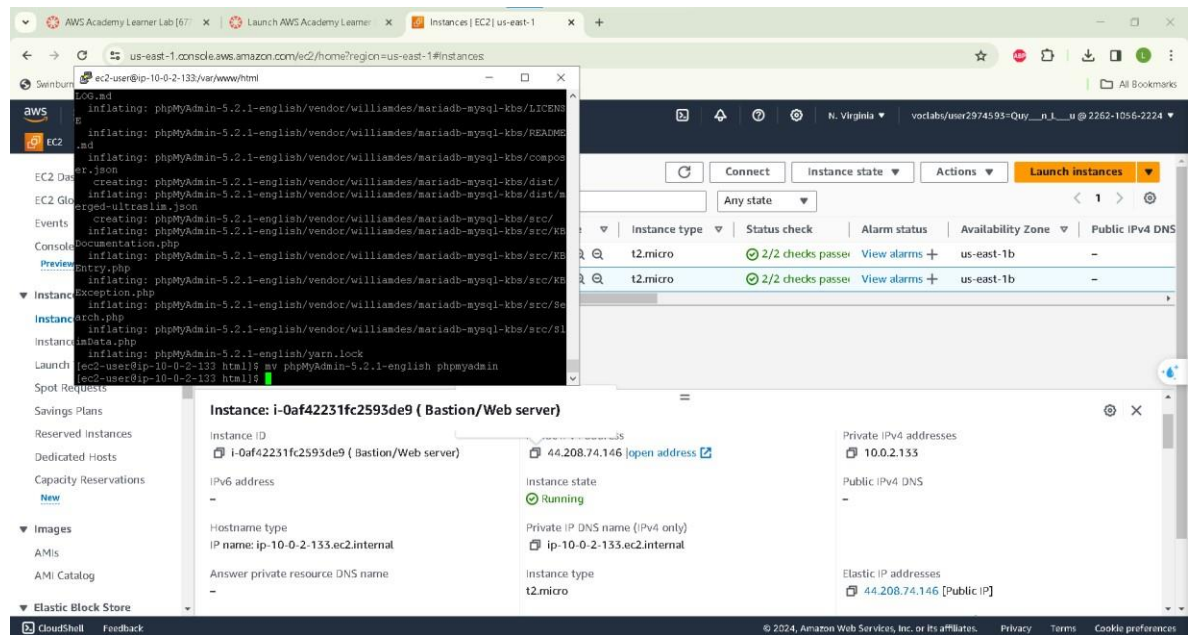


The database been created successfully.

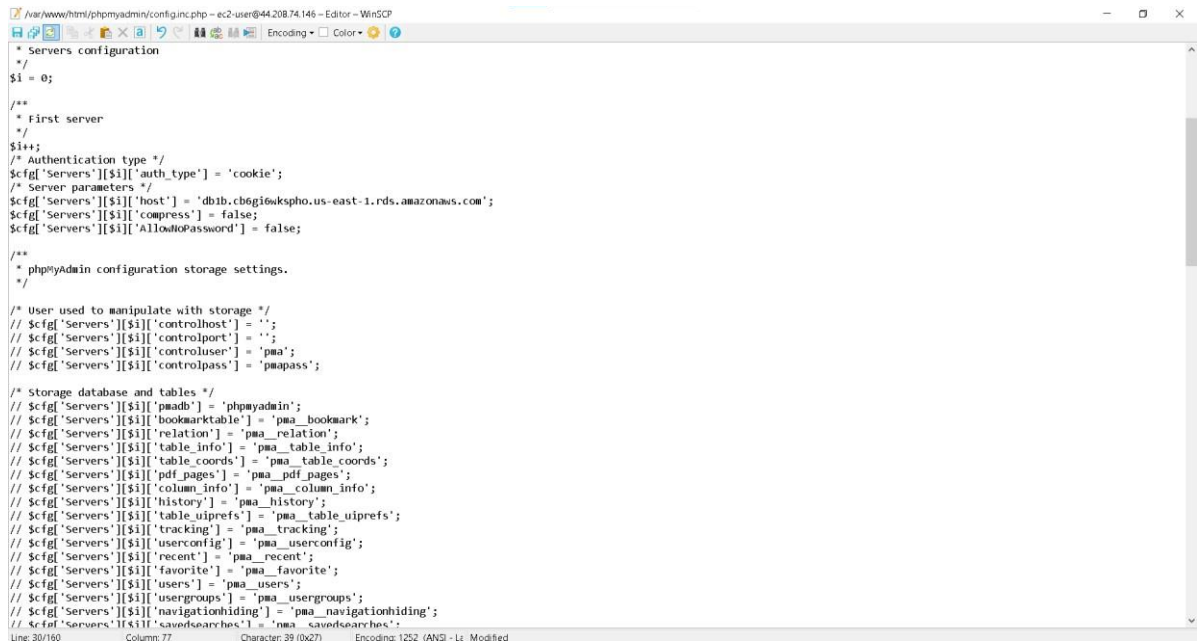


I runned the SSH with the private ppk key authentication to dowload the *phpMyAdmin*.

(This image is before I change my Elastic IP addresses. Which not effect the installing section)

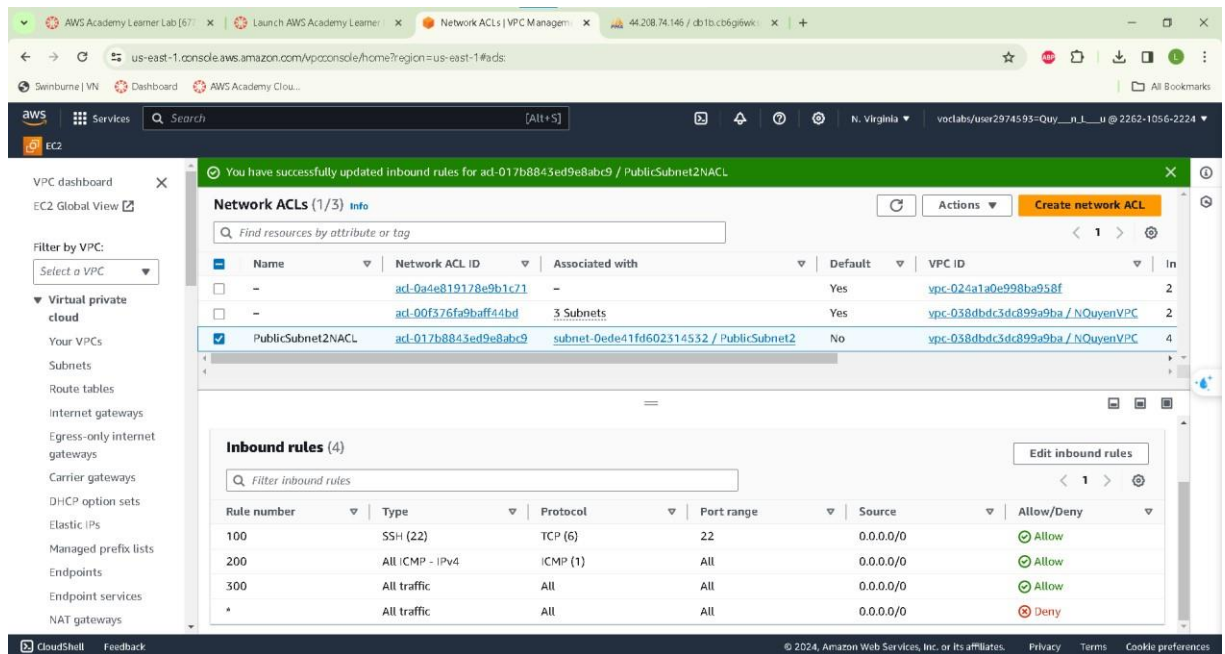


Installing section for *phpMyAdmin*.



I also change the Database host to run the Phpmyadmin.

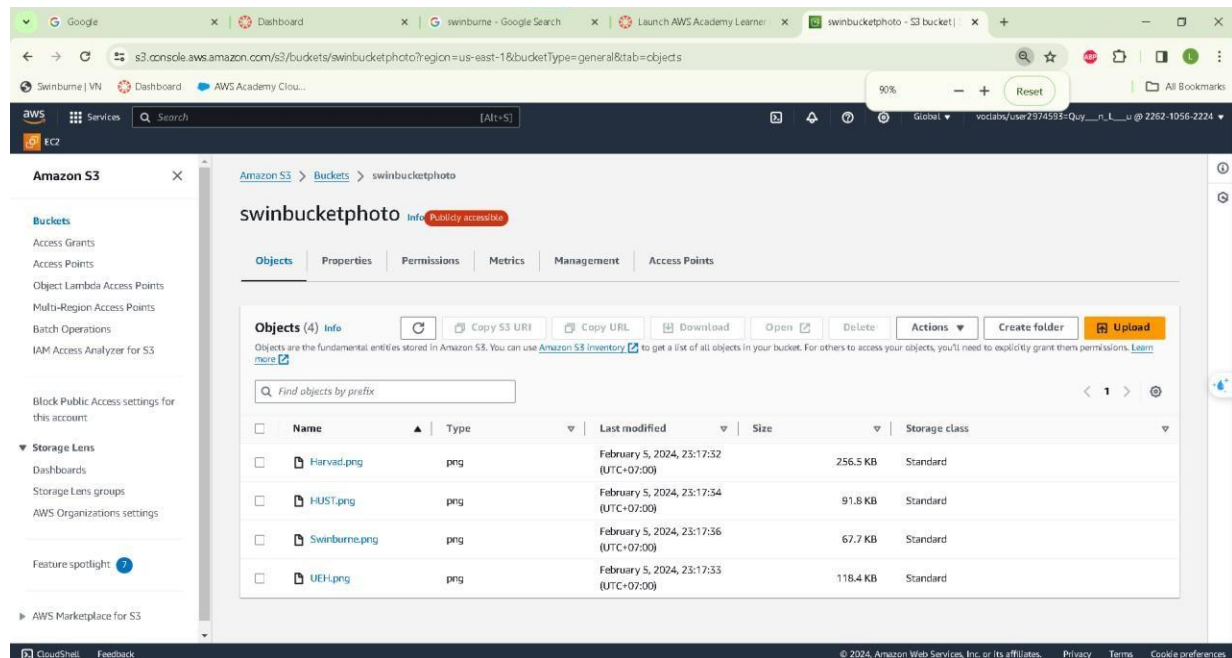
1.5– Network ACL:

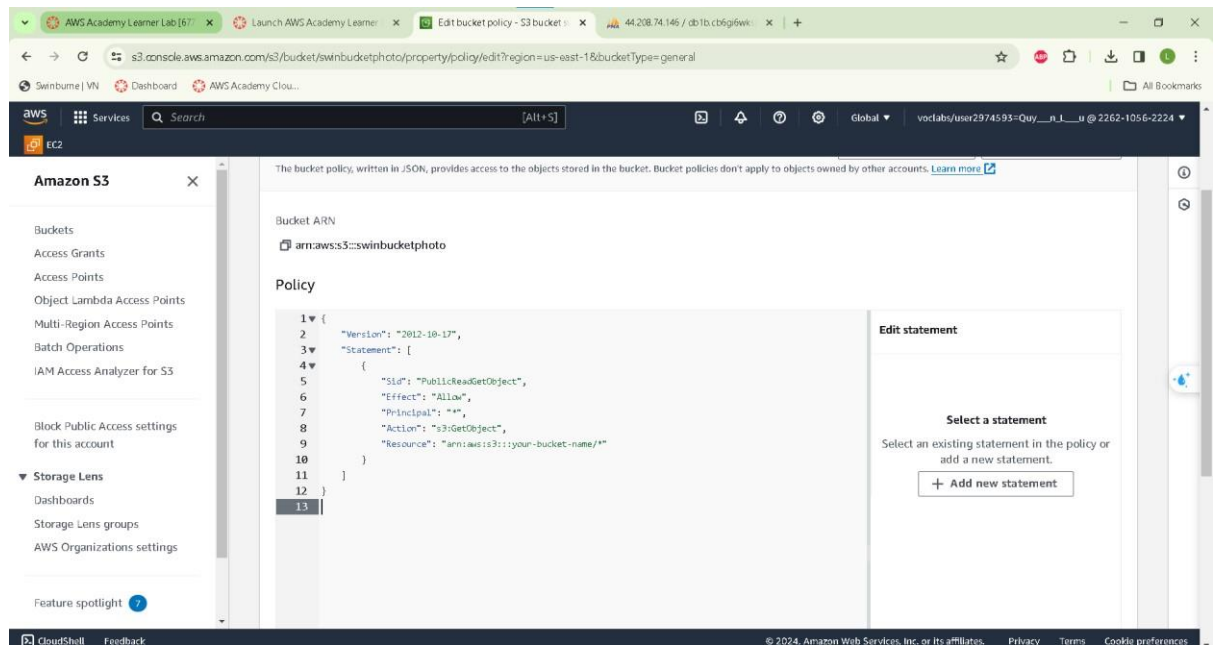


I designed and deploy a Network ACL (named “PublicSubnet2NACL”) that limit ICMP and other requirements in the Assignment .

2. Functional requirements of Photo Album website

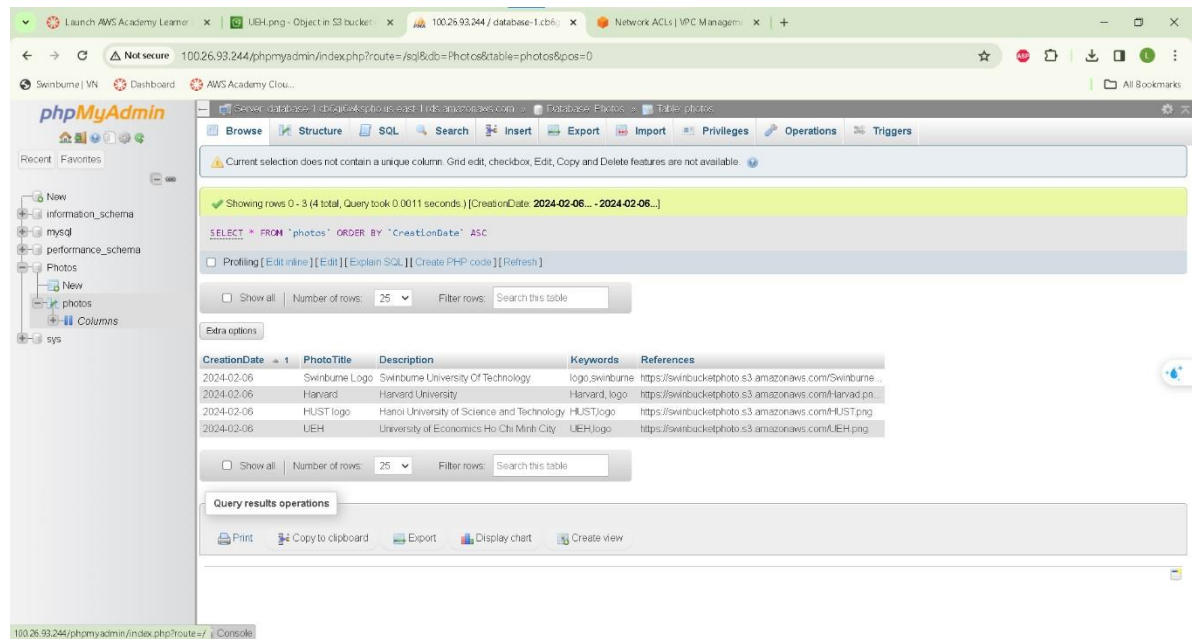
2.1-Photo Storage





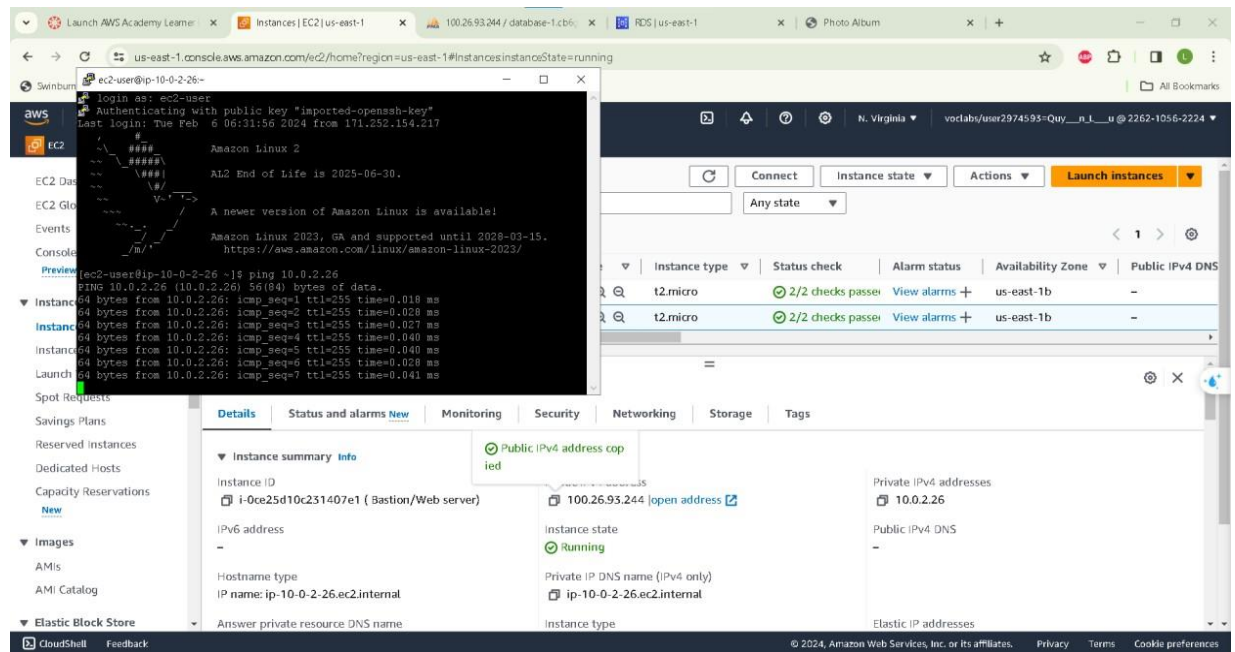
I created an S3 bucket to store the photos that I have downloaded and it successfully uploaded.

2. 2-Photo meta-data in RDS Database



I populated the table with the require records in the Assignment.

2.3 – Photo Album website functionality



Successfully testing by ping the Webserver using SSH in the Linux terminal

Here is the link of the photoalbum:

<http://100.26.93.244/cos20019/photoalbum/album.php>

----- The end -----