HUU HUNG PHAM

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Class Thursday – 16.30

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Assignment 1B

Cloud computing architechture

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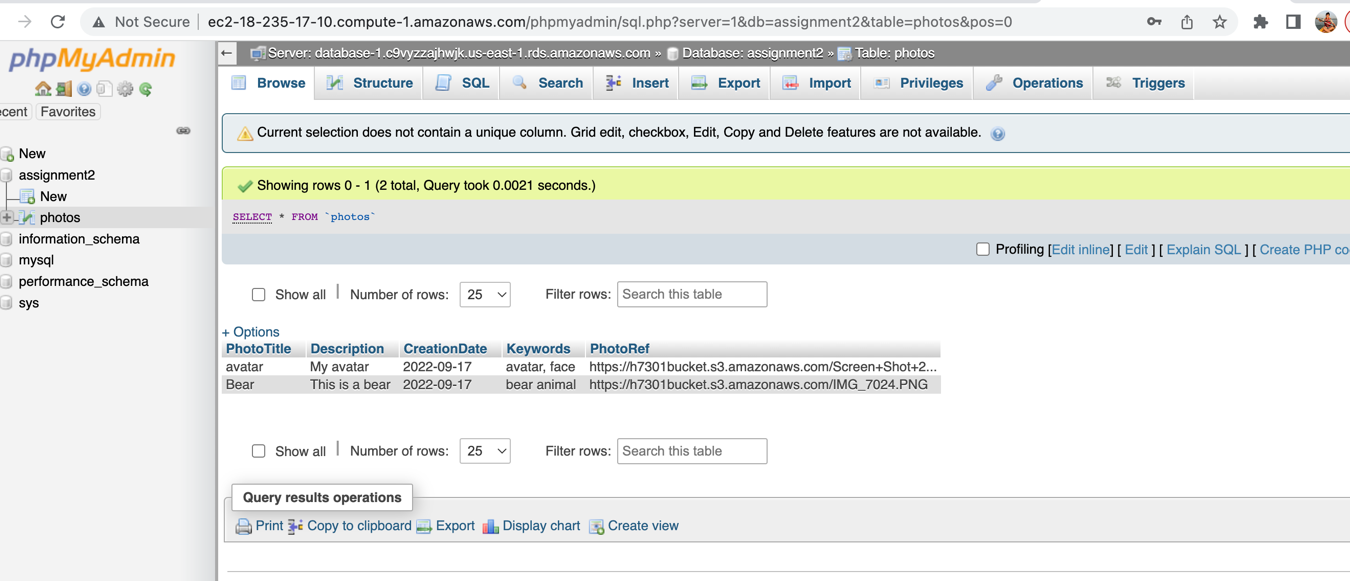
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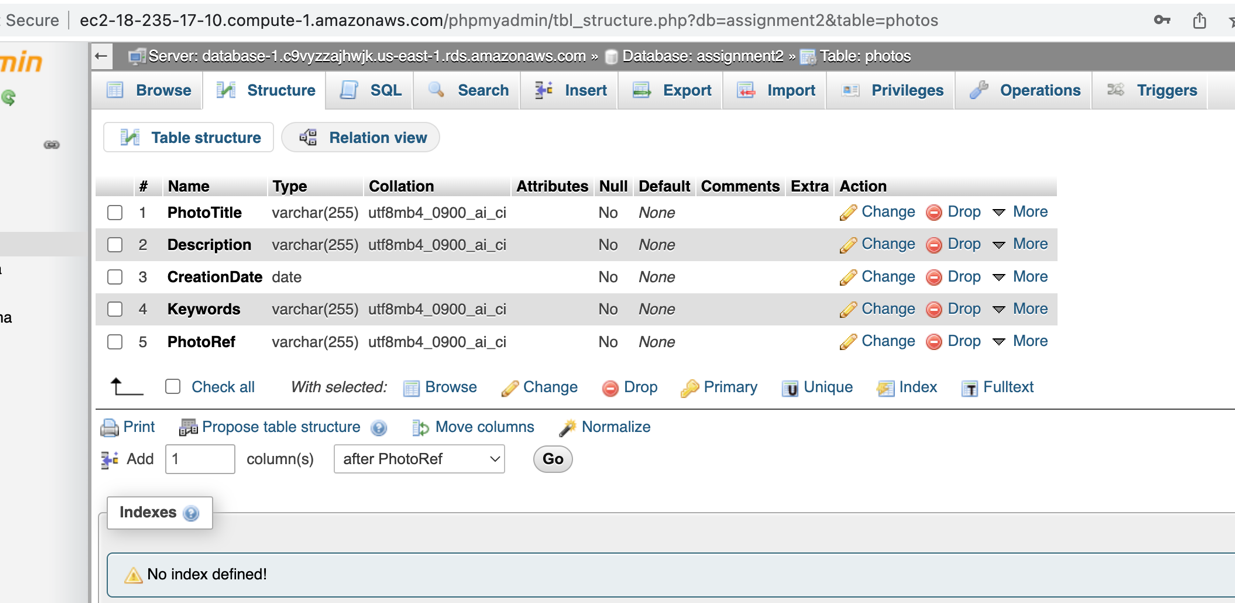
[Photo album website works successfully: 12](#_Toc114424950)

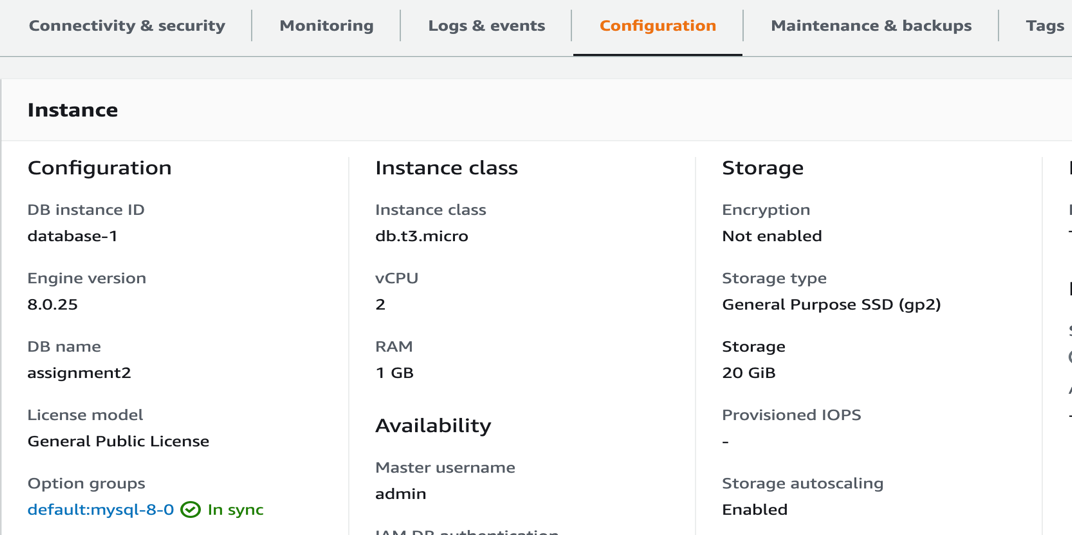
# Link to photo album:

<http://ec2-18-235-17-10.compute-1.amazonaws.com/cos80001/photoalbum/album.php>

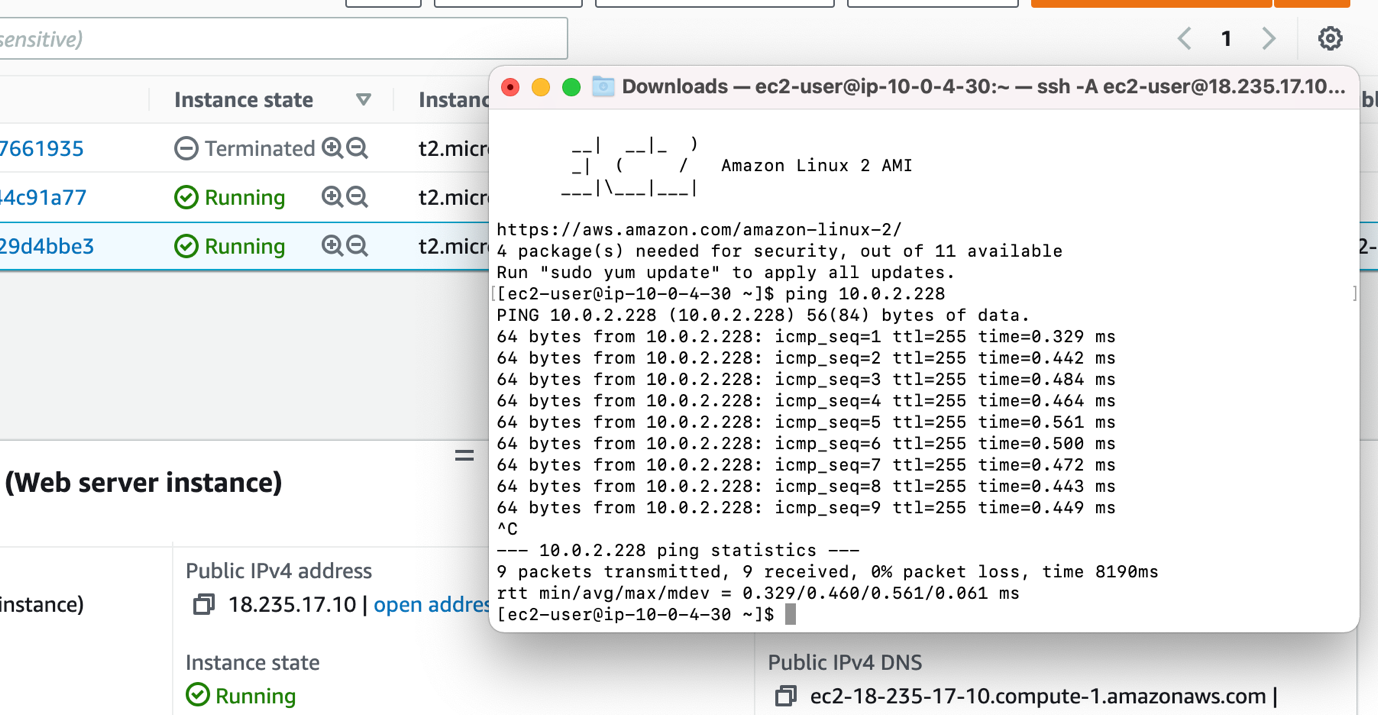
# Database record, screenshots show that I have been able to work with cloud database.

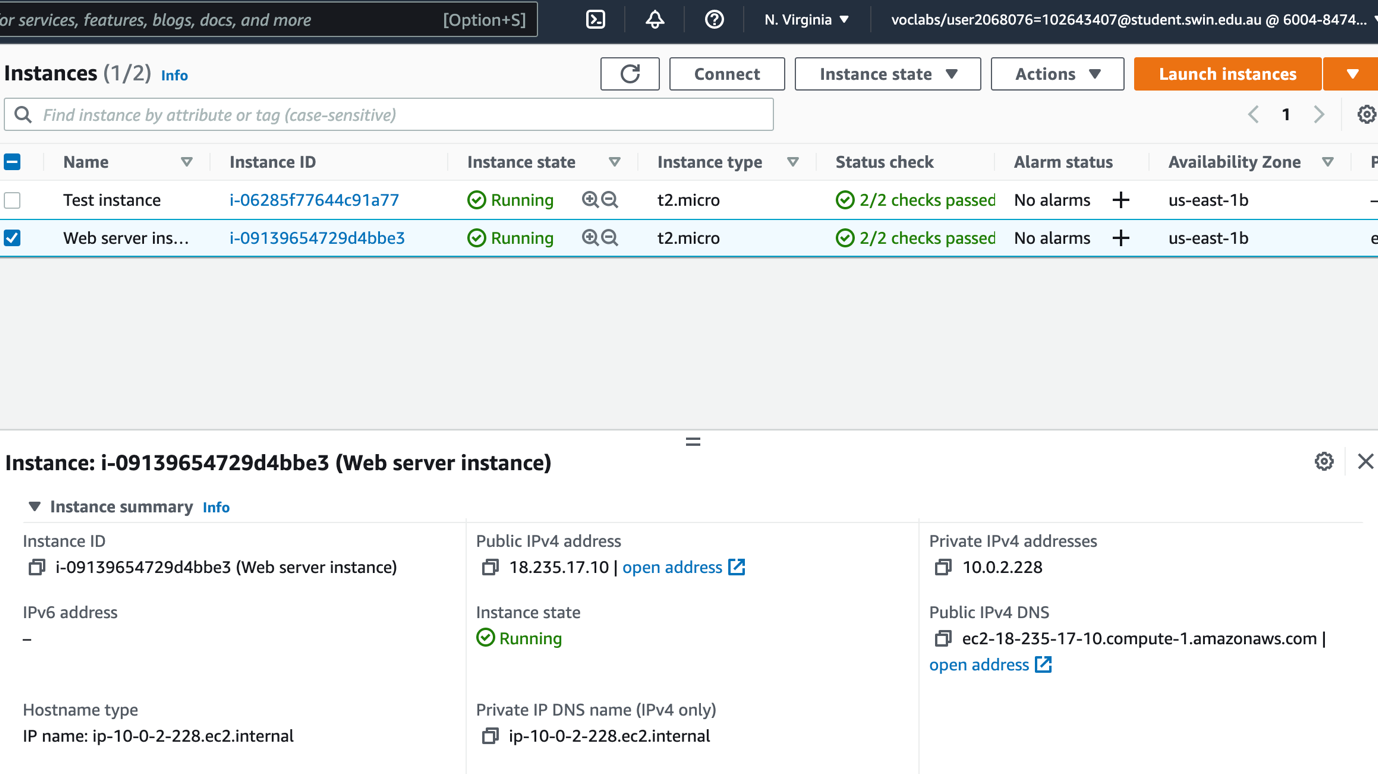






# Screenshots show that I have been able to ping web server from test instance





# Progress screenshot:

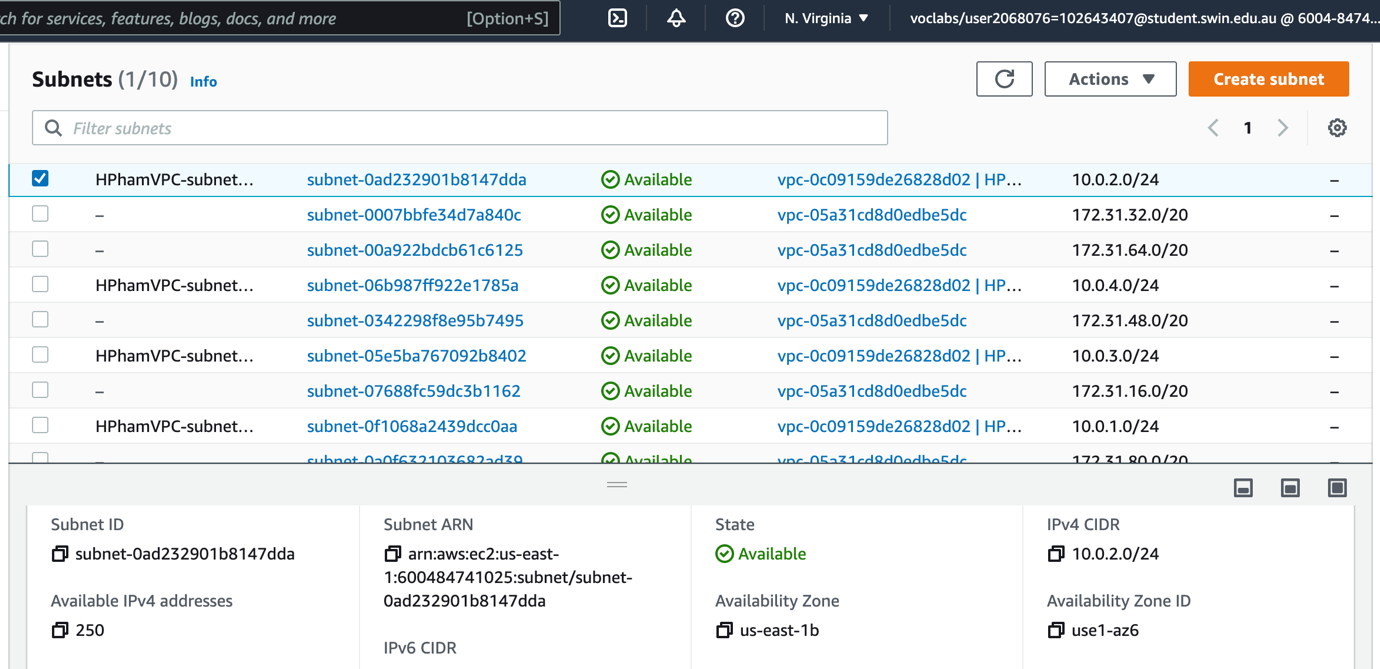
## VPC config:

### Config vpc with 4 subnets:

Graphical user interface, text, application, email

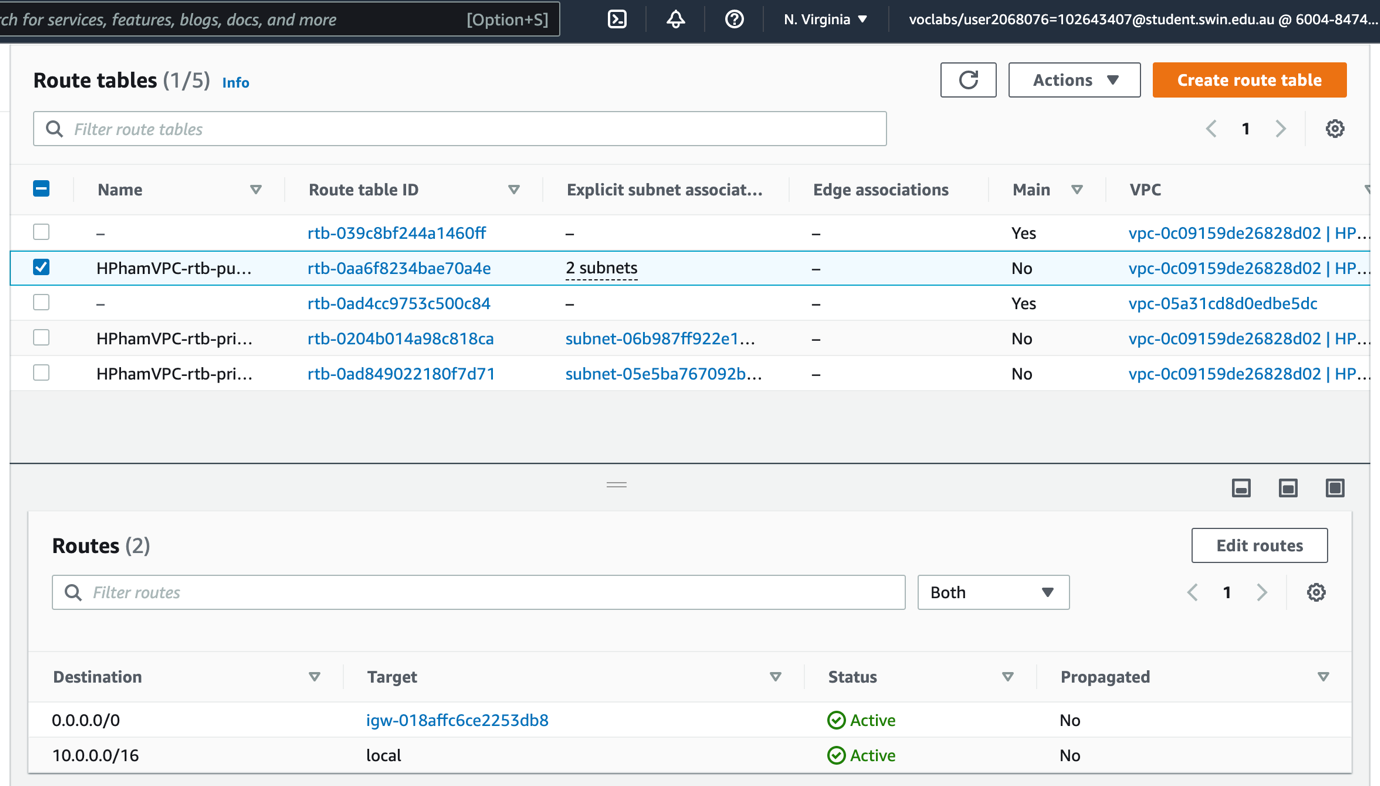
Description automatically generated

Have to check the infrastructure deployment carefully when deploy 4 subnets for the VPC



Check again the subnet IPv4 carefully

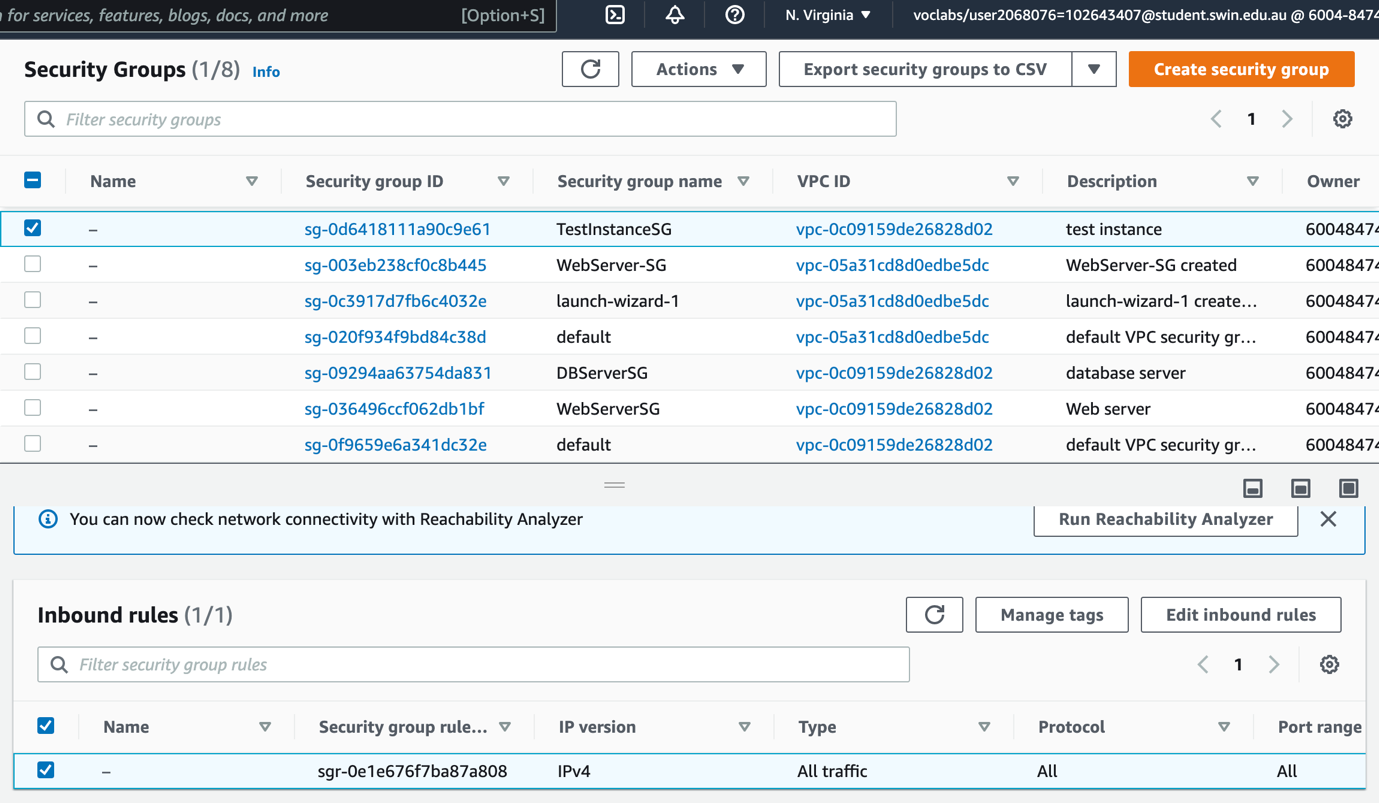
### Correct Public and Private Routing tables with correct subnet associations



Check the correct subnet associations

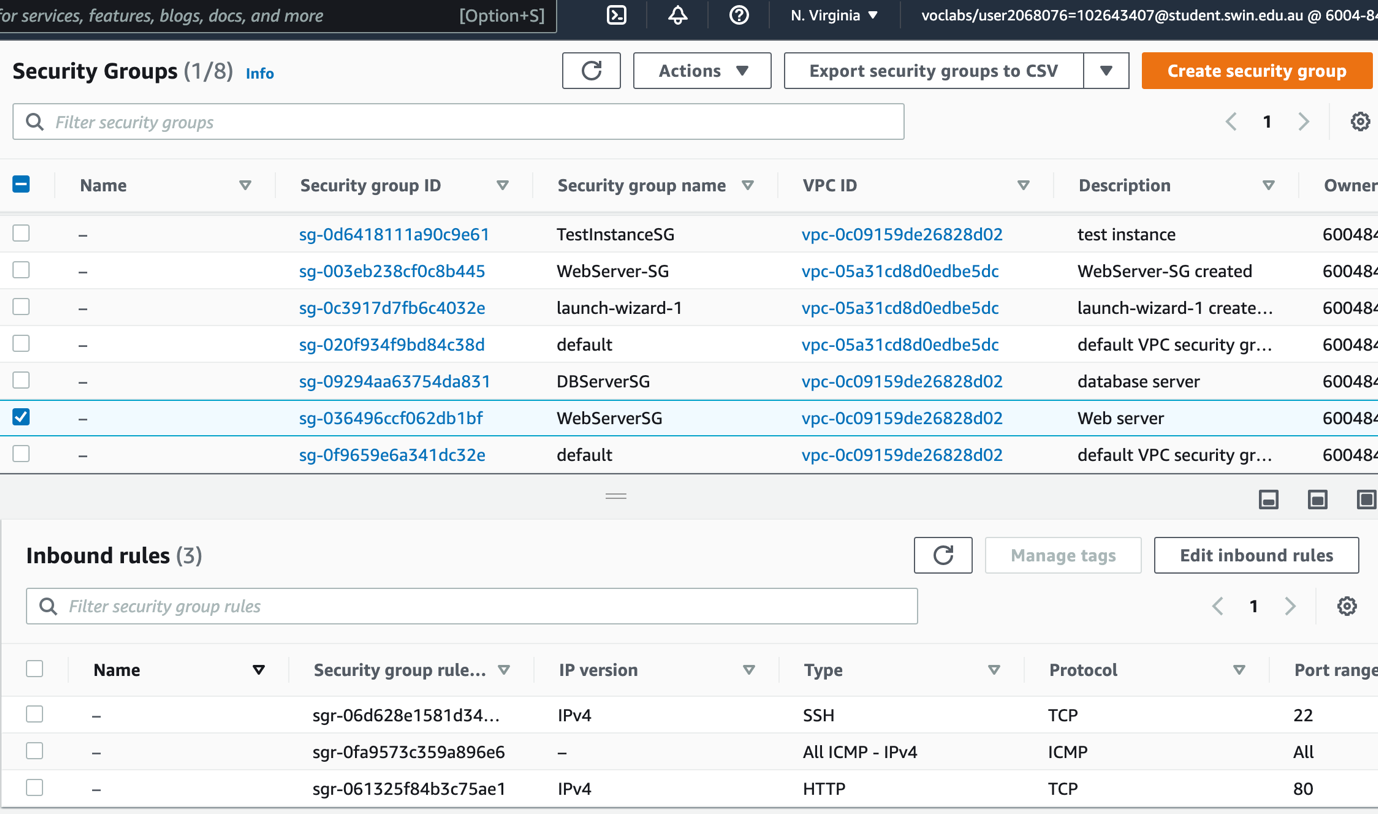
## Security groups properly configured and attached.

### TestInstanceSG



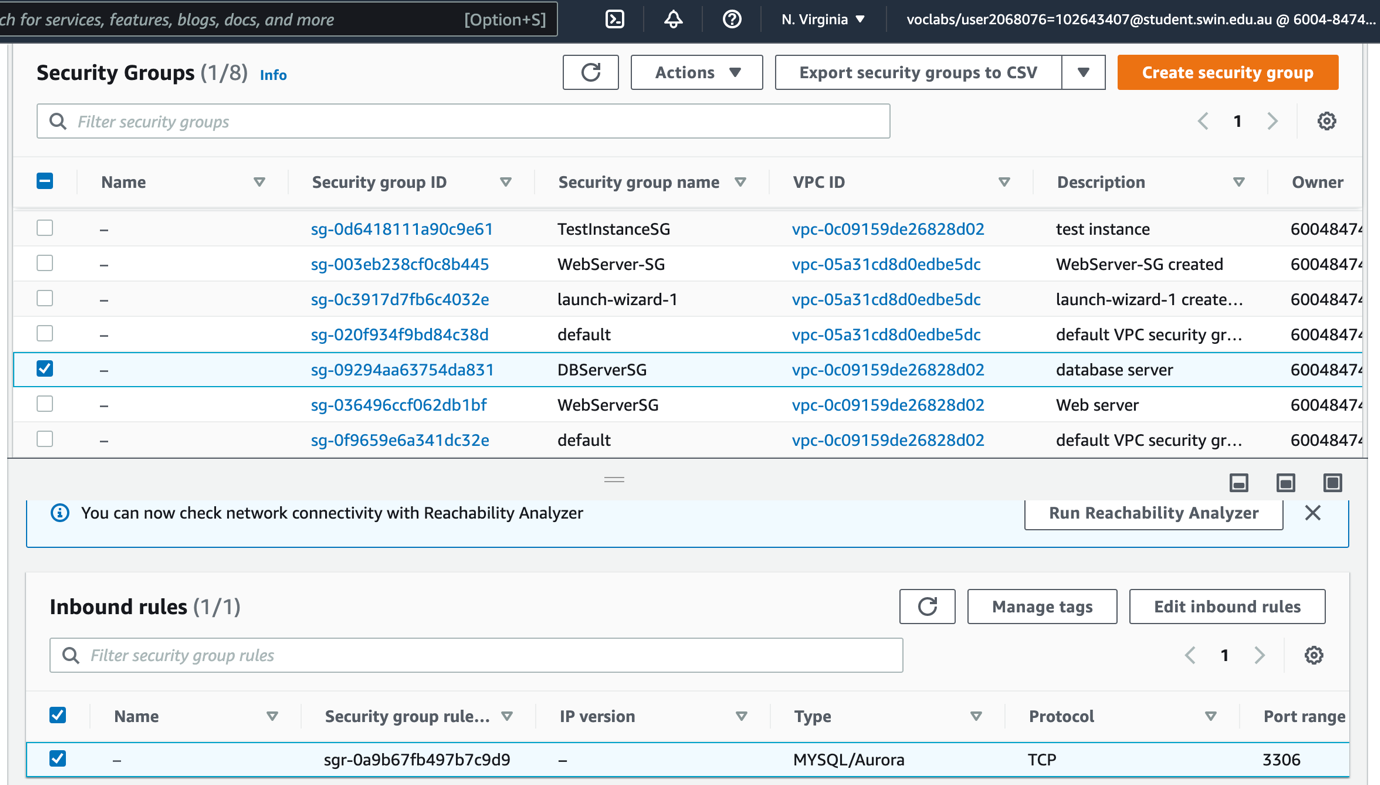
Creating test instance security group

### WebServerSG



Creating web server security group

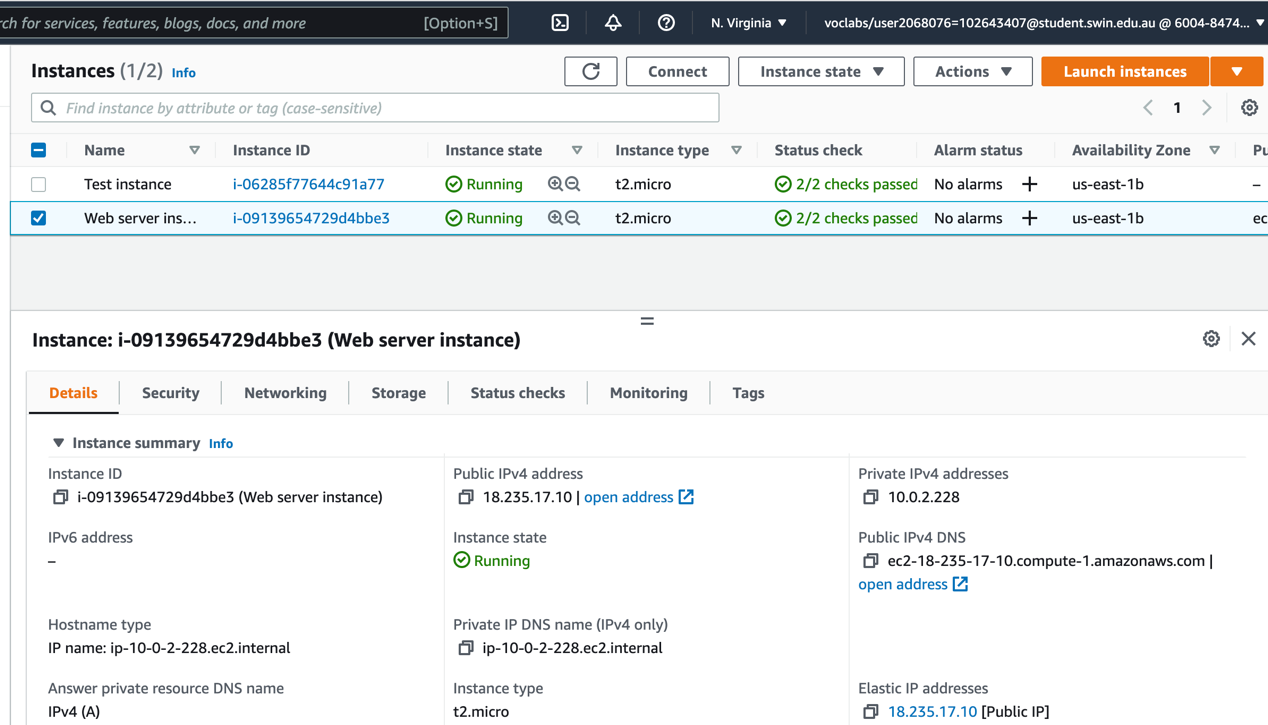
### DBServerSG



Creating the database server security group

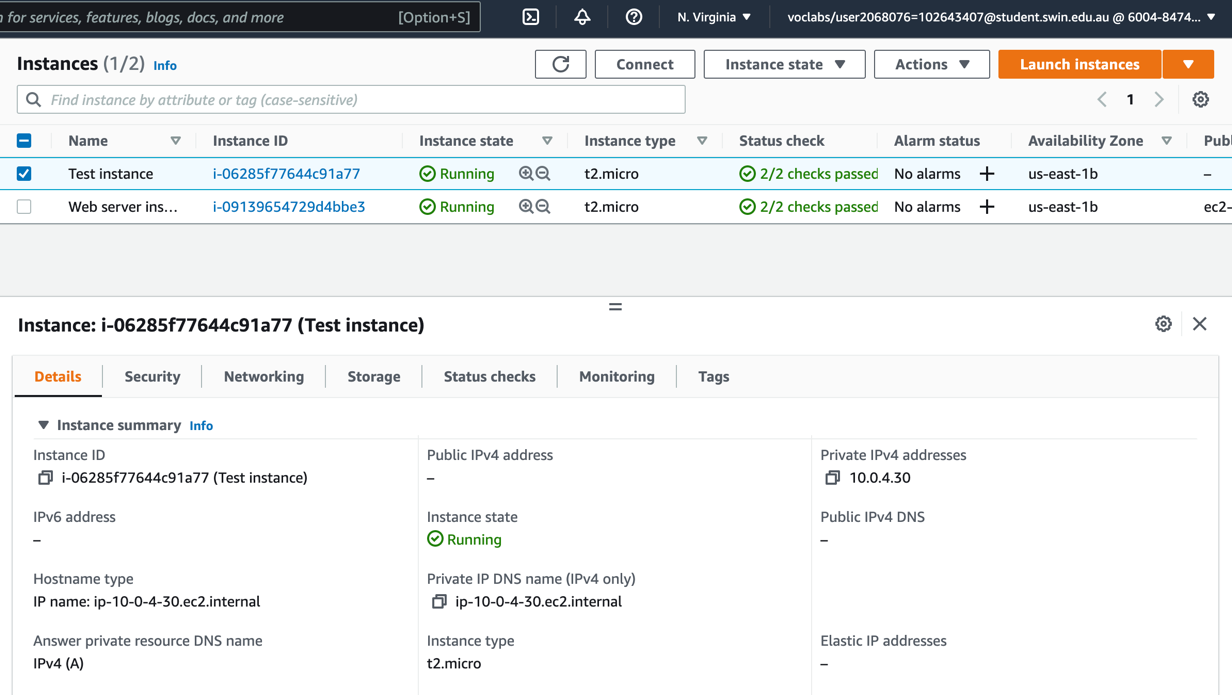
## Create two EC2 instances, a test instance and a bastion/web server instance

### Web server instance



Note that web server instance must be in the correct subnet us-east 1b

### Test instance



Note that test instance must be in the correct subnet us-east 1b

## Elastic IP address added to web server instance

Graphical user interface, text, application, email

Description automatically generated

Add a new elastic ip to web instance

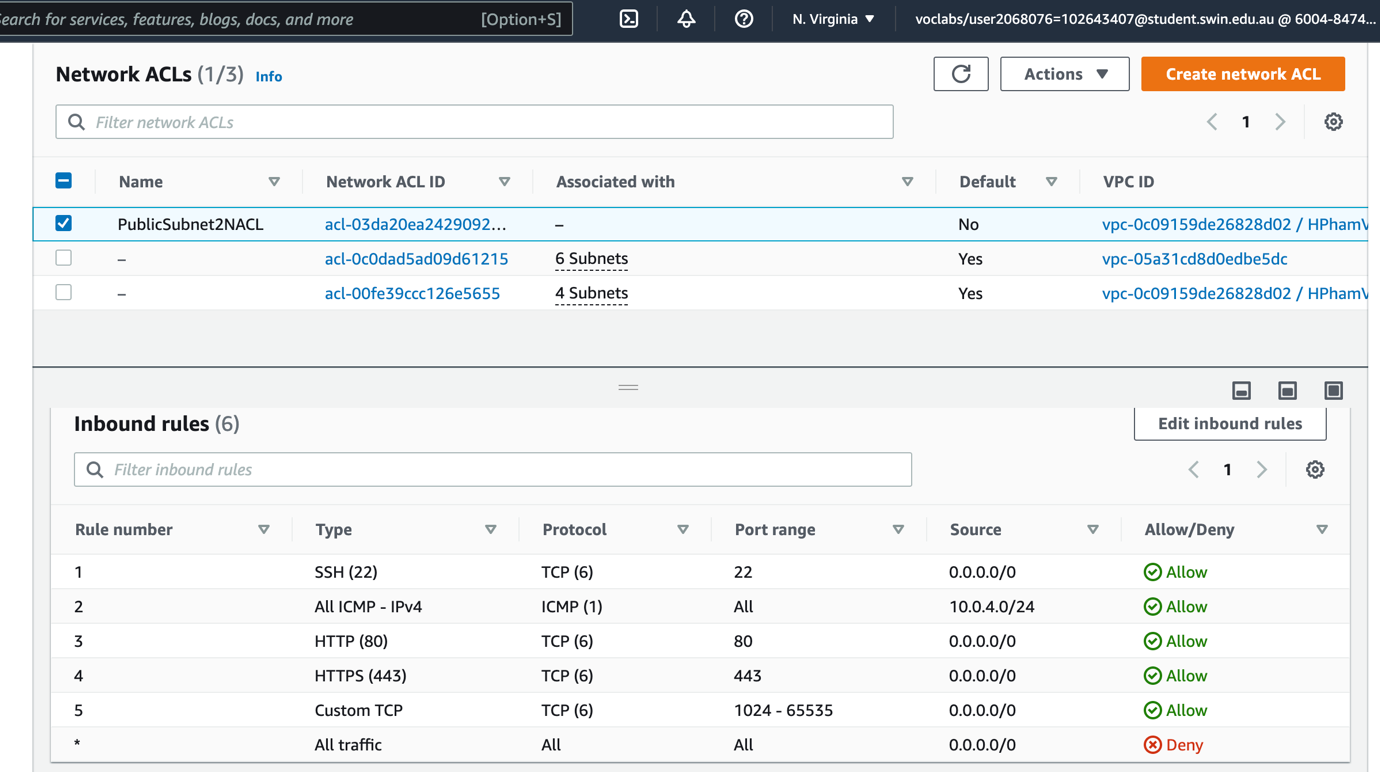
## RDS database instance configuration:

Graphical user interface, application

Description automatically generated

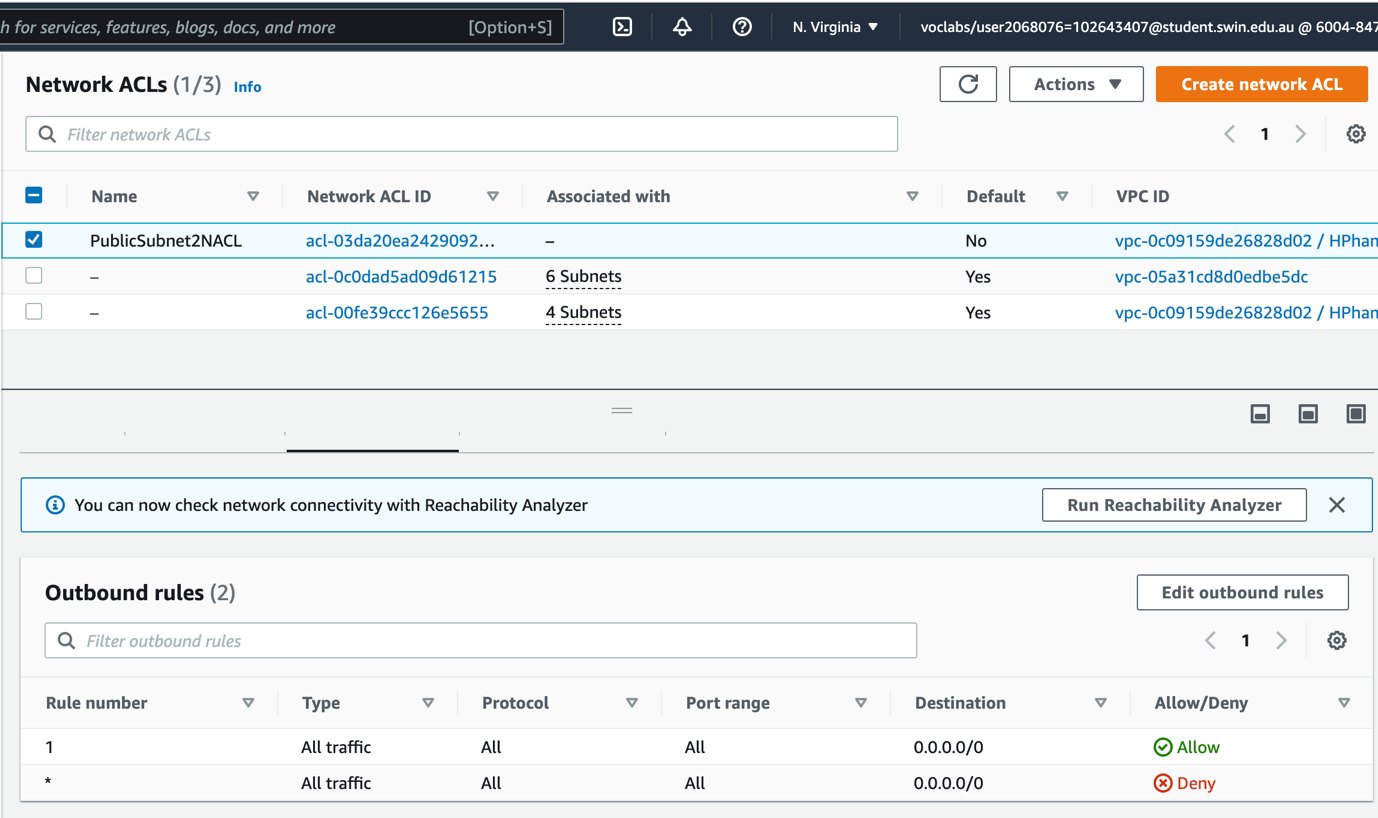
Configuring the RDS instance

## Network ACL properly configured and attached

Inbound rules

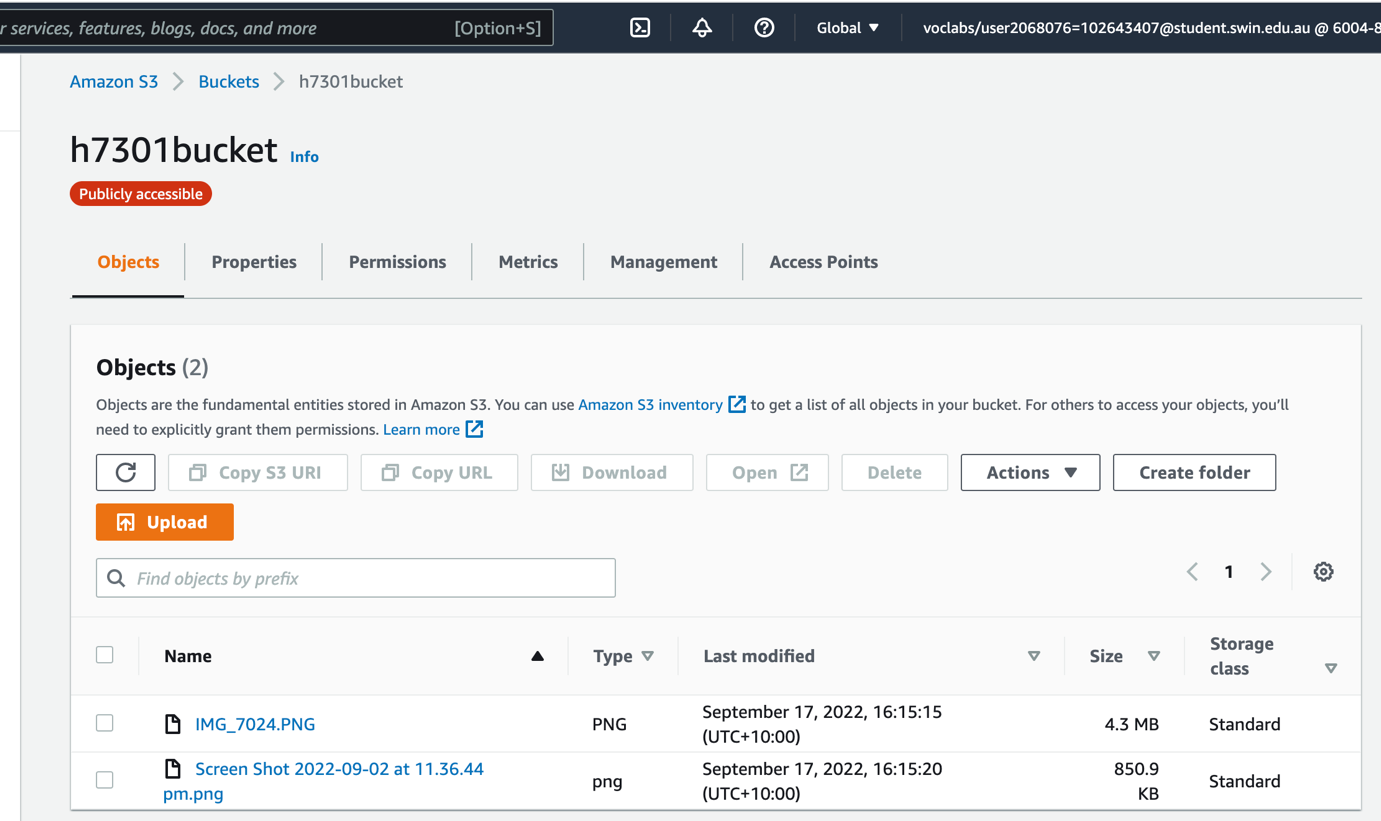
Note: Port range using Nat gateway range

### Outbound rules



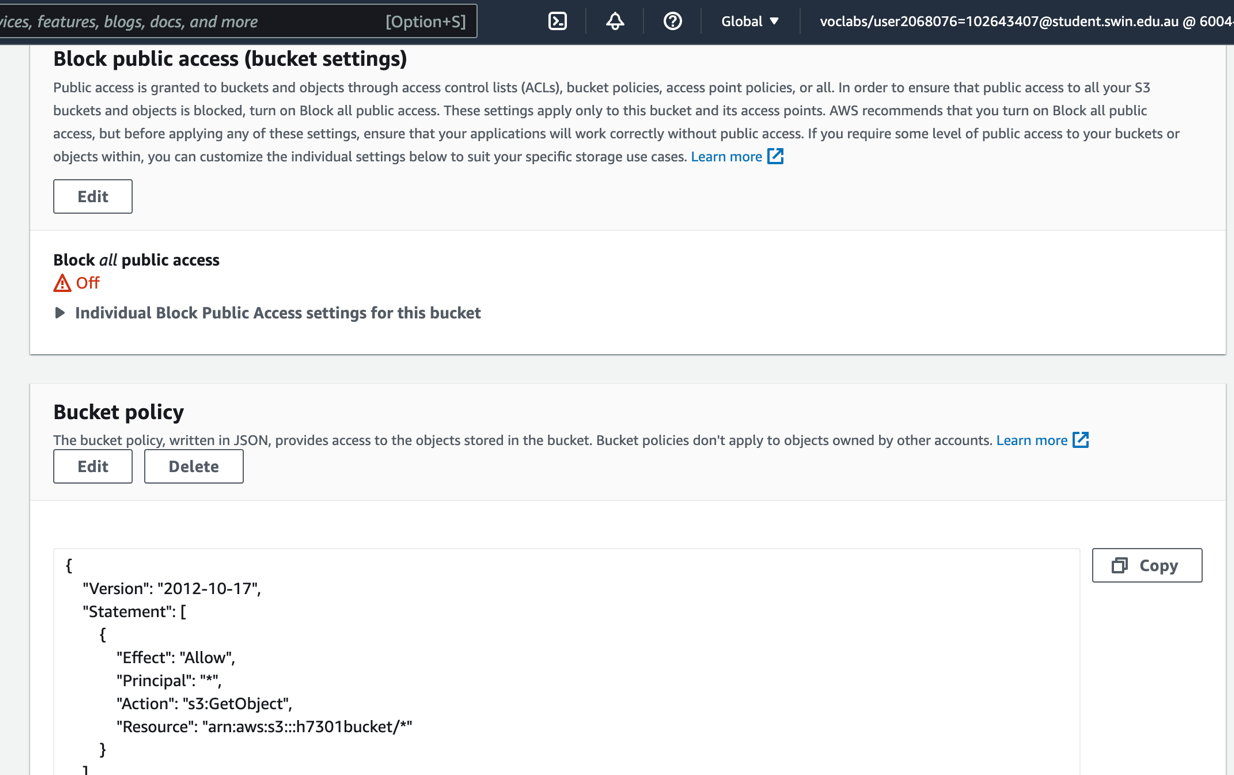
Note: Outbound rules not really specified in the assignment request. Allow all traffic

## Photo stoRaGe in S3 bucket is publicly accessible



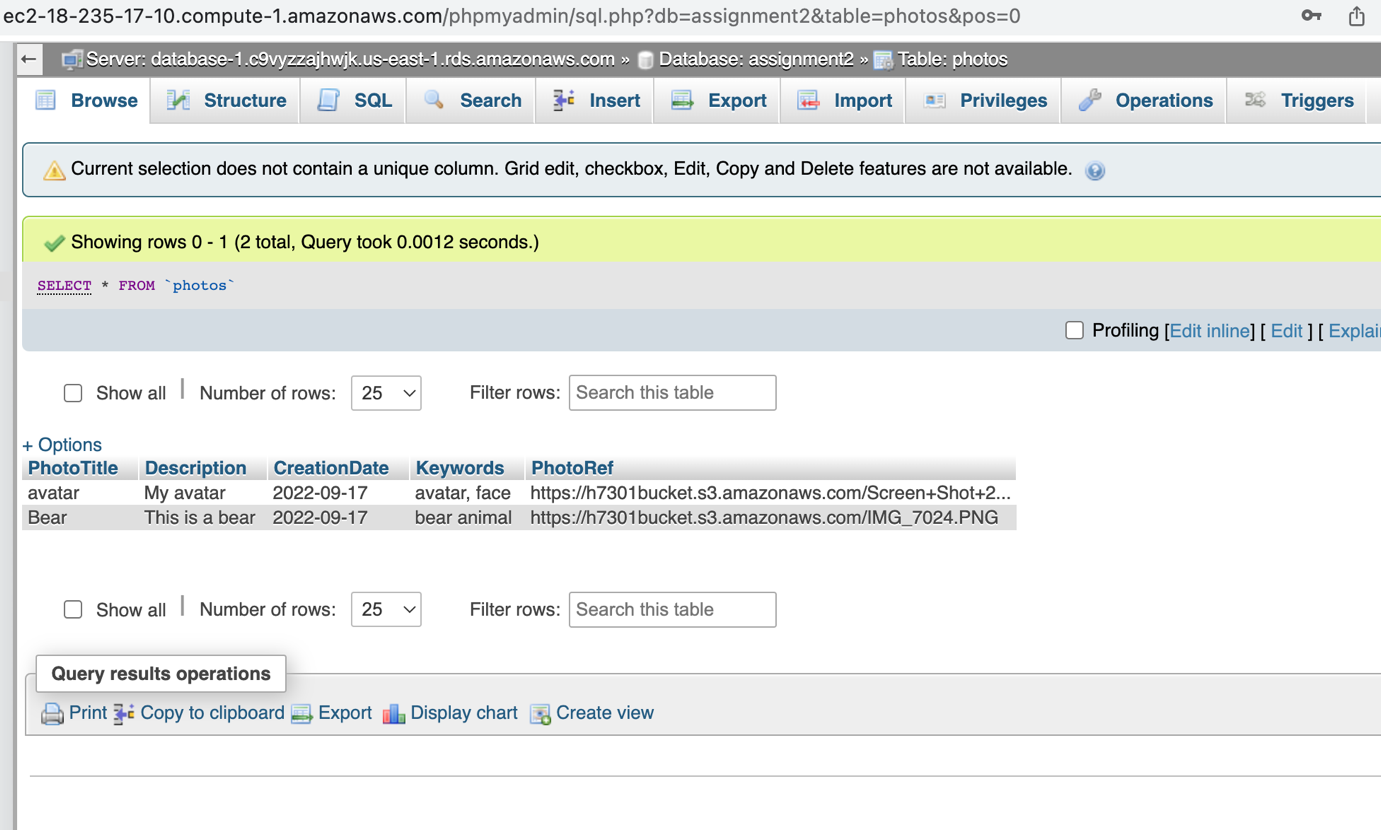
Added the photo manually and check if the photo is access publicly

### Bucket Policy:



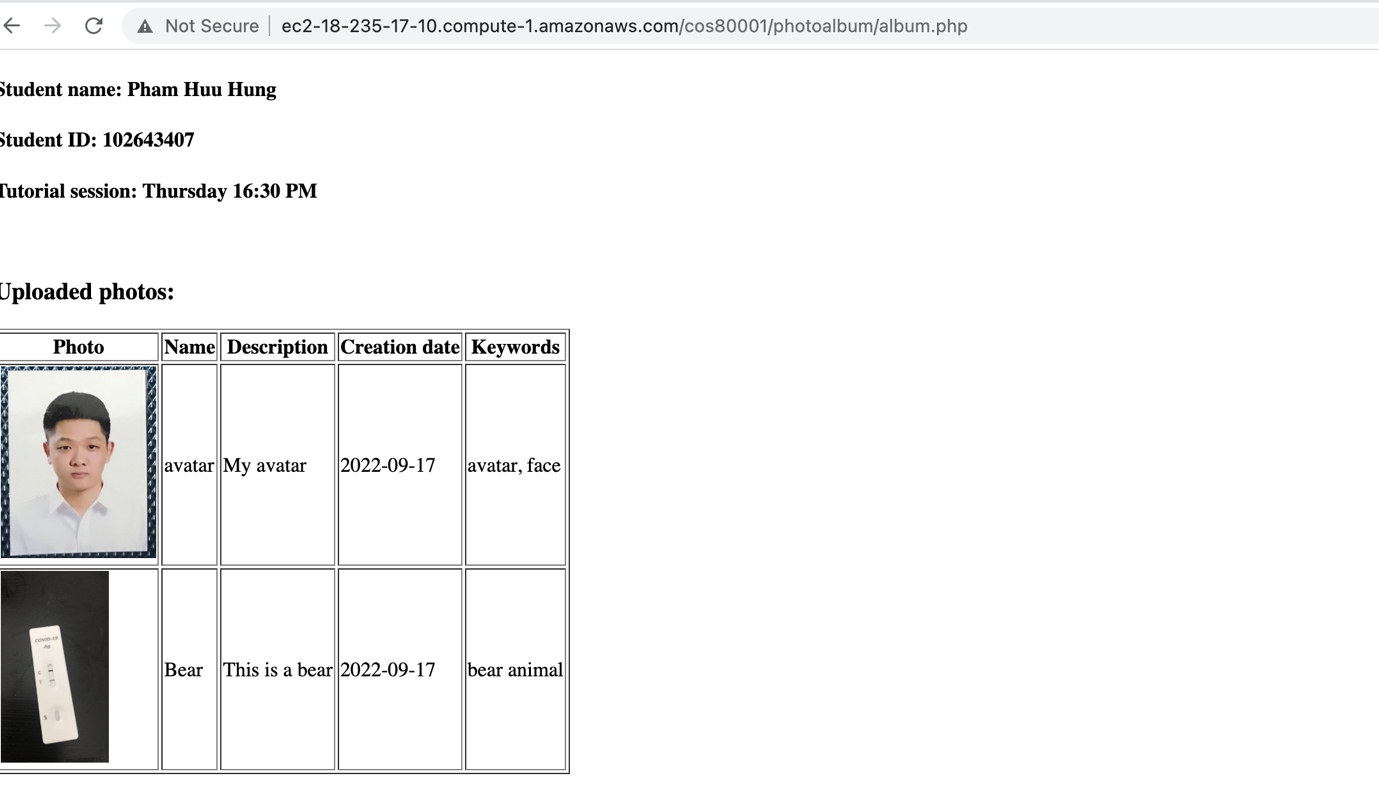
Configure the policy of bucket to make it public

### Photo URL in S3 bucket stored in RDS database meta-data



Add the photo link of S3 bucket to meta data

# Photo album website works successfully:



The website works well