COS20019 - Cloud Computing Architecture

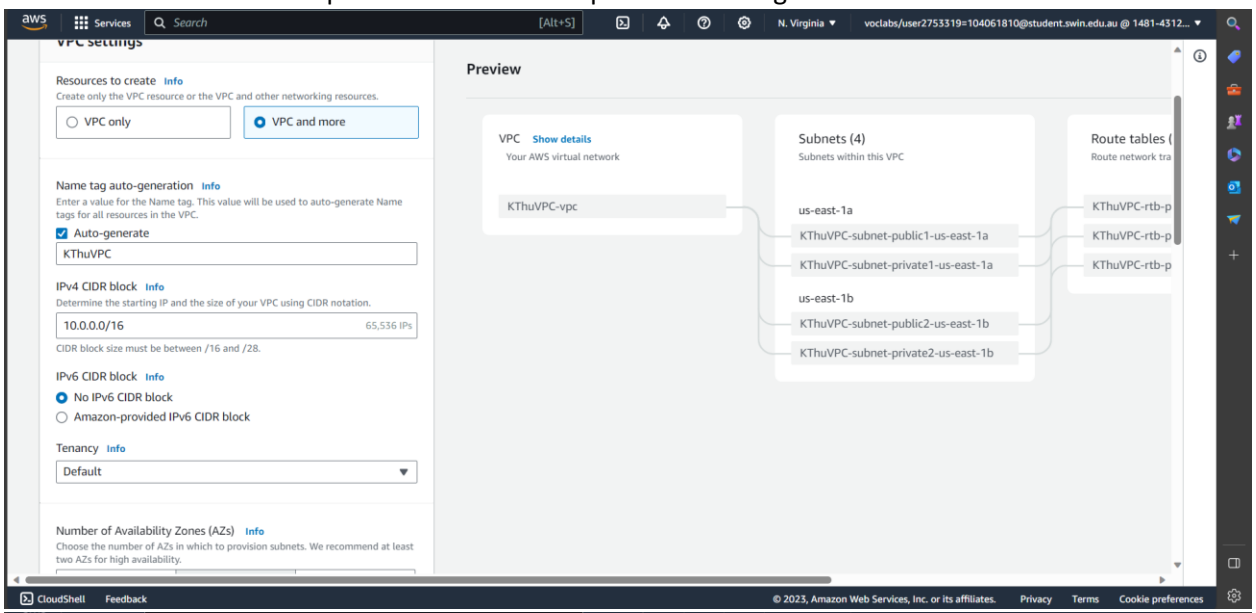
Assignment 1 - Part B

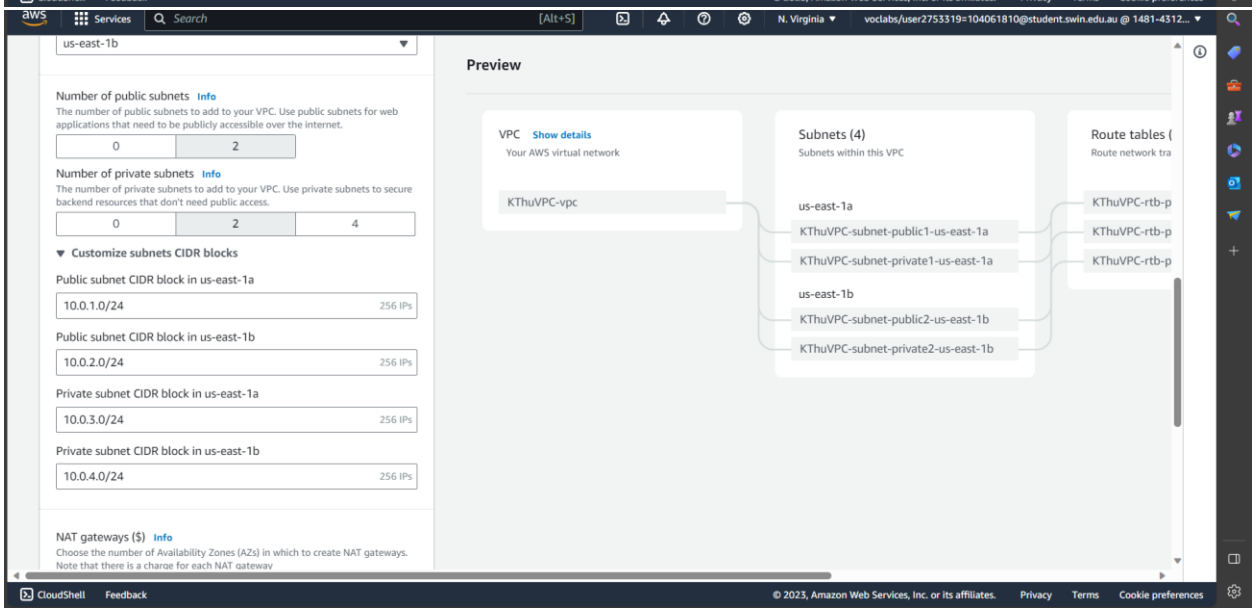
Creating and deploying Photo Album website onto a simple

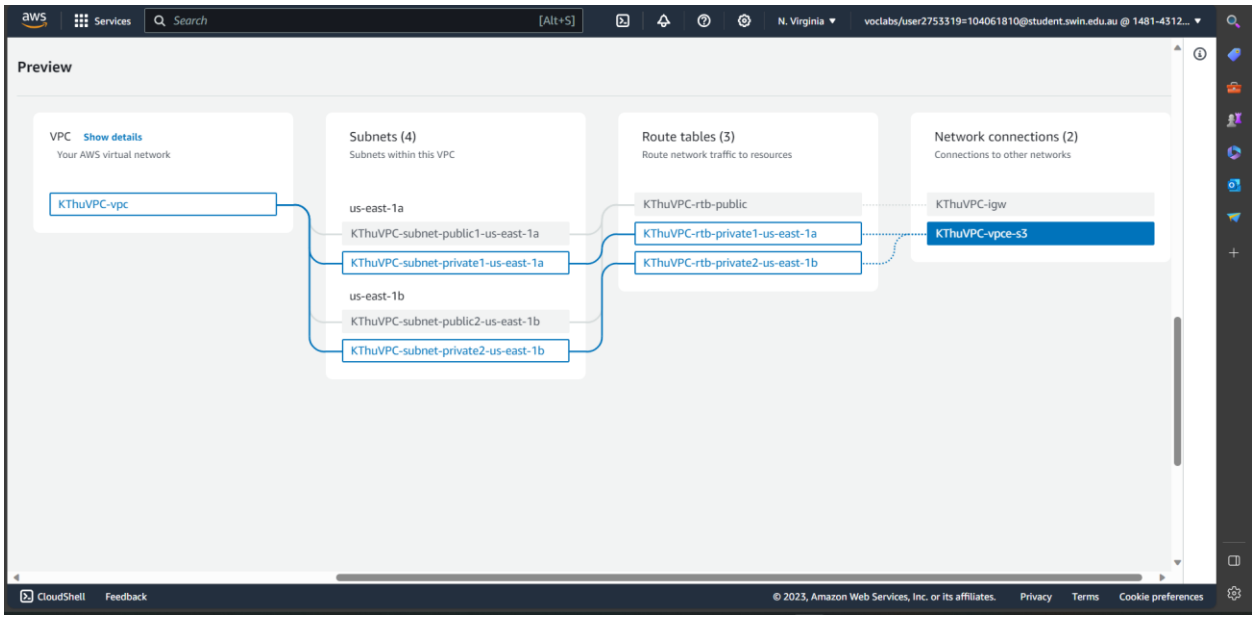
Name: Tran Kim Thu

Student ID: 104061810

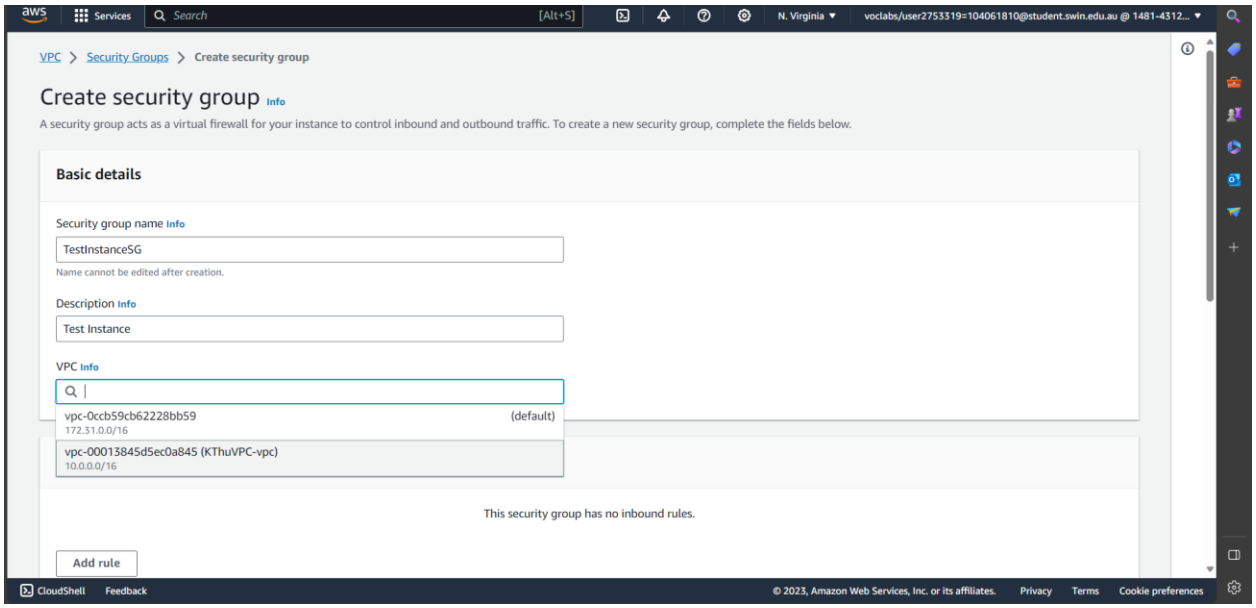
1.1 Create VPC name and set up some features as requirment of assignment

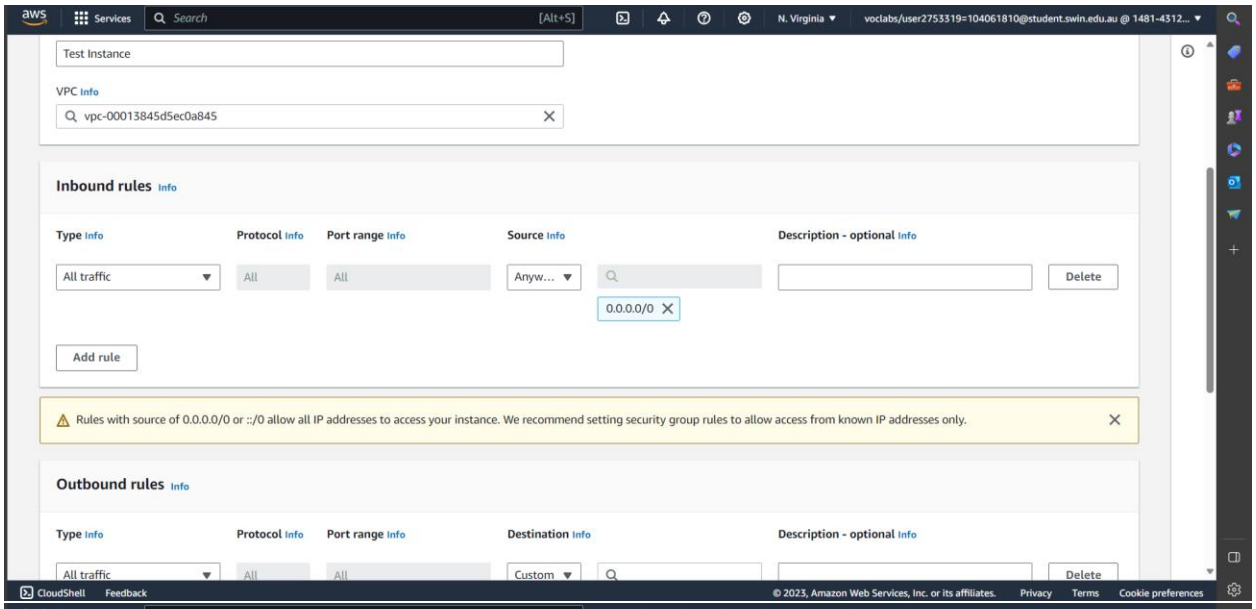


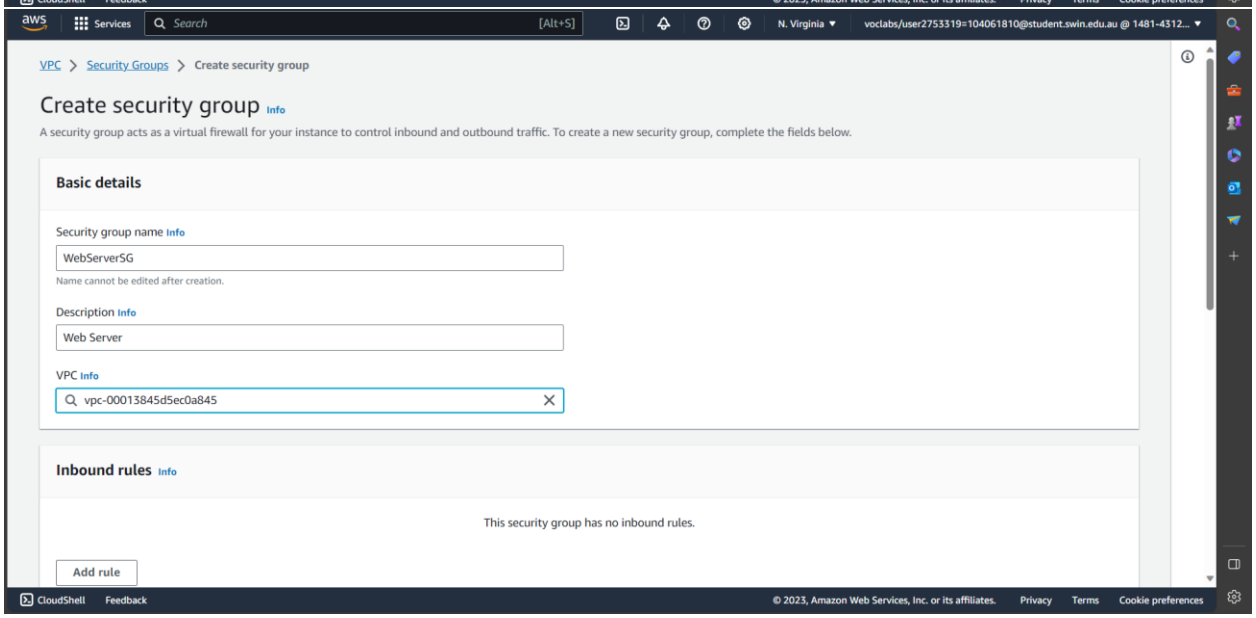


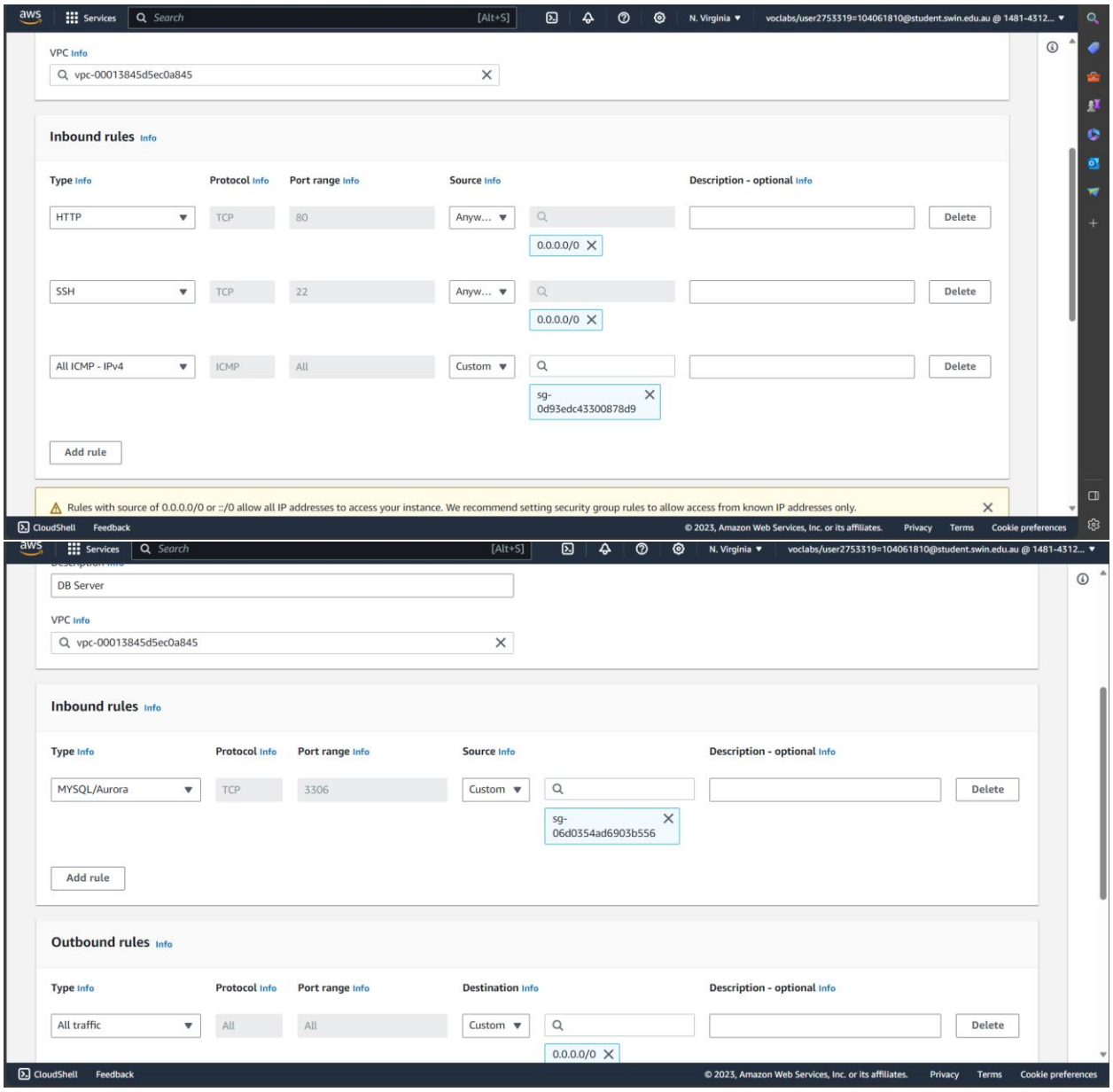


1.2 – Create security groups and set up some features as requirment of assignment



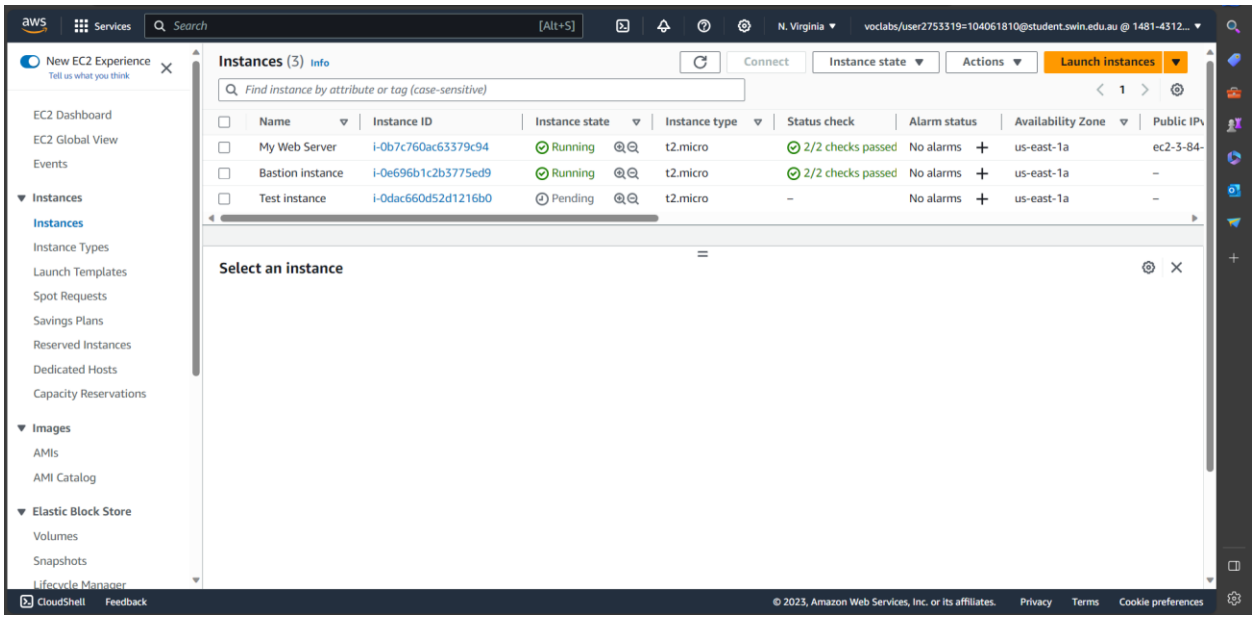

Test Instance
VPC Info
vpc-00013845d5ec0a845
Inbound rules Info
Type Info
Protocol Info
Port range Info
Source Info
Description - optional Info
All traffic
All
All
Anyw...
0.0.0.0/0
Delete
Add rule
Rules with source of 0.0.0.0/0 or ::/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.
Outbound rules Info
Type Info
Protocol Info
Port range Info
Destination Info
Description - optional Info
All traffic
All
All
Custom
Delete
CloudShell
Feedback
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


VPC > Security Groups > Create security group
Create security group Info
A security group acts as a virtual firewall for your instance to control inbound and outbound traffic. To create a new security group, complete the fields below.
Basic details
Security group name Info
WebServerSG
Name cannot be edited after creation.
Description Info
Web Server
VPC Info
vpc-00013845d5ec0a845
Inbound rules Info
This security group has no inbound rules.
Add rule
CloudShell
Feedback
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences



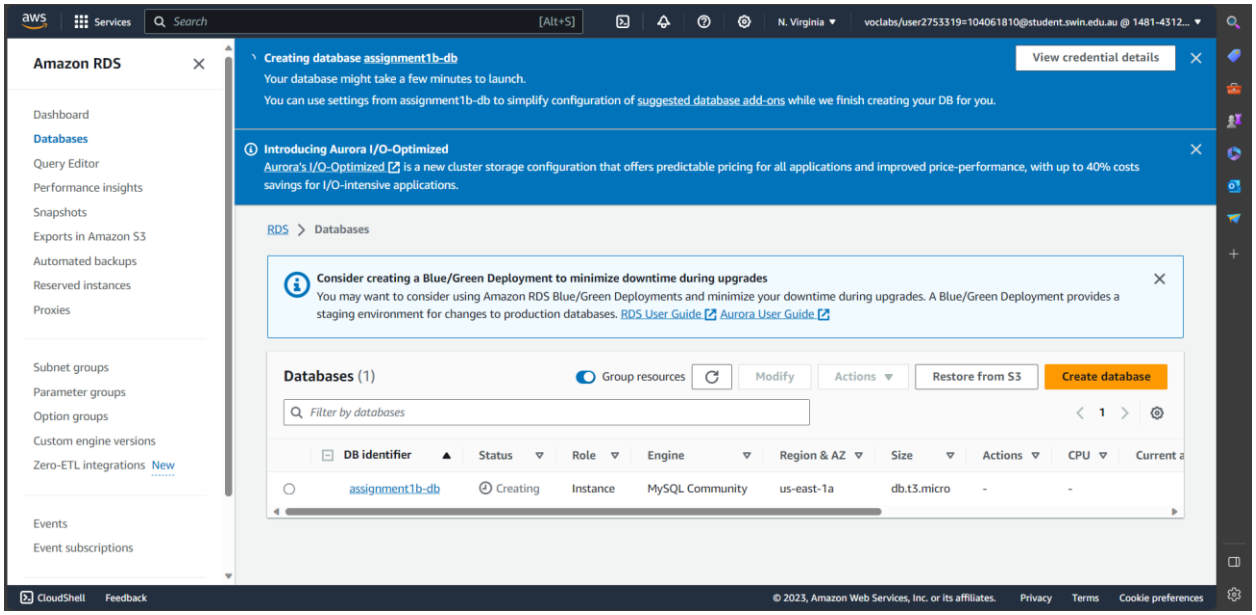
1.3 – EC2 virtual machine

create two EC2 instances(a test instance and a bastion instance) and set up some features as requirments of assignment.

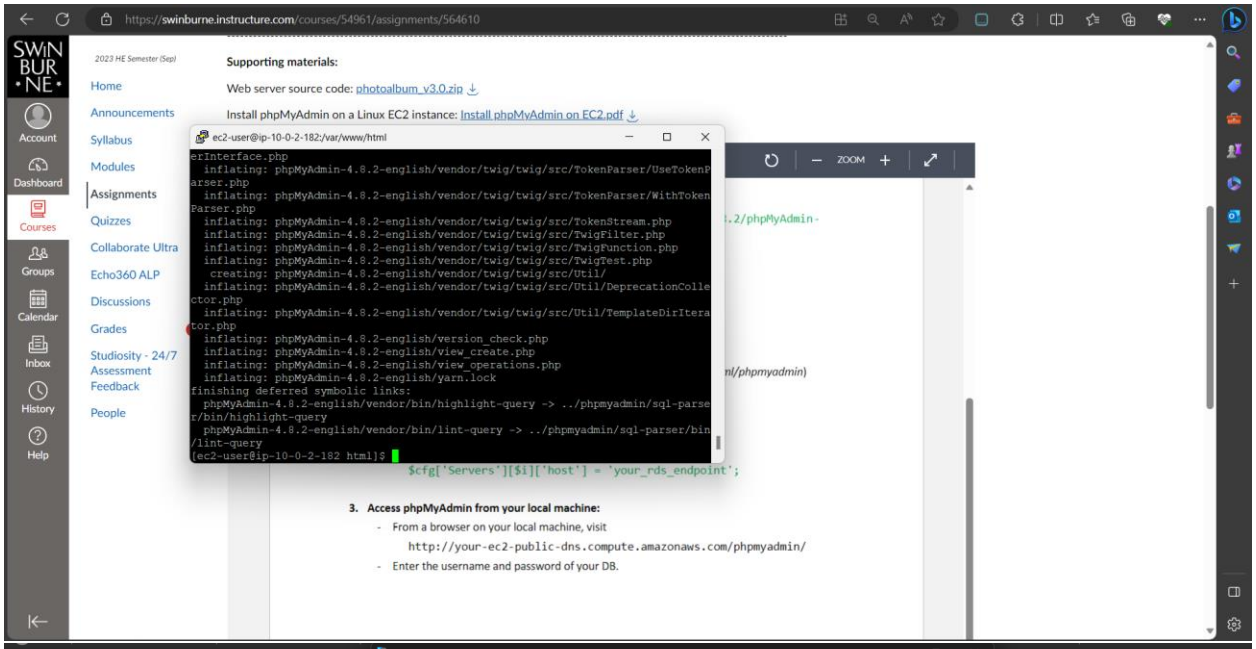


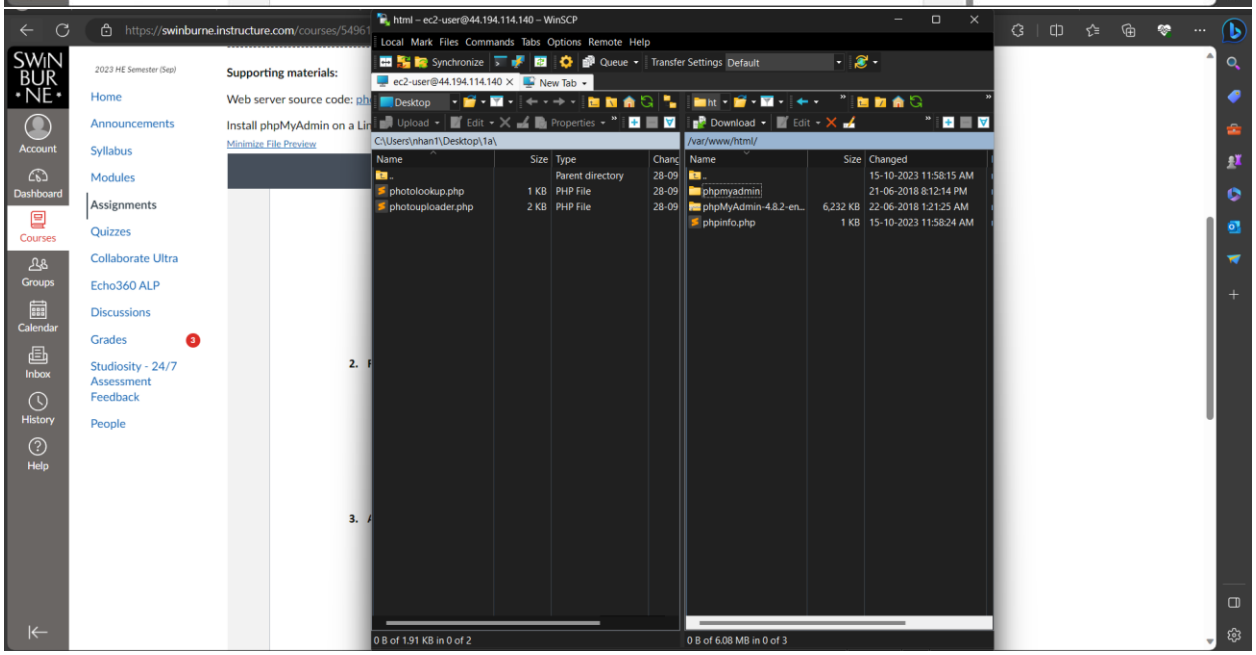
1.4 – RDS database instance

Create RDS DB as requirments of assignment

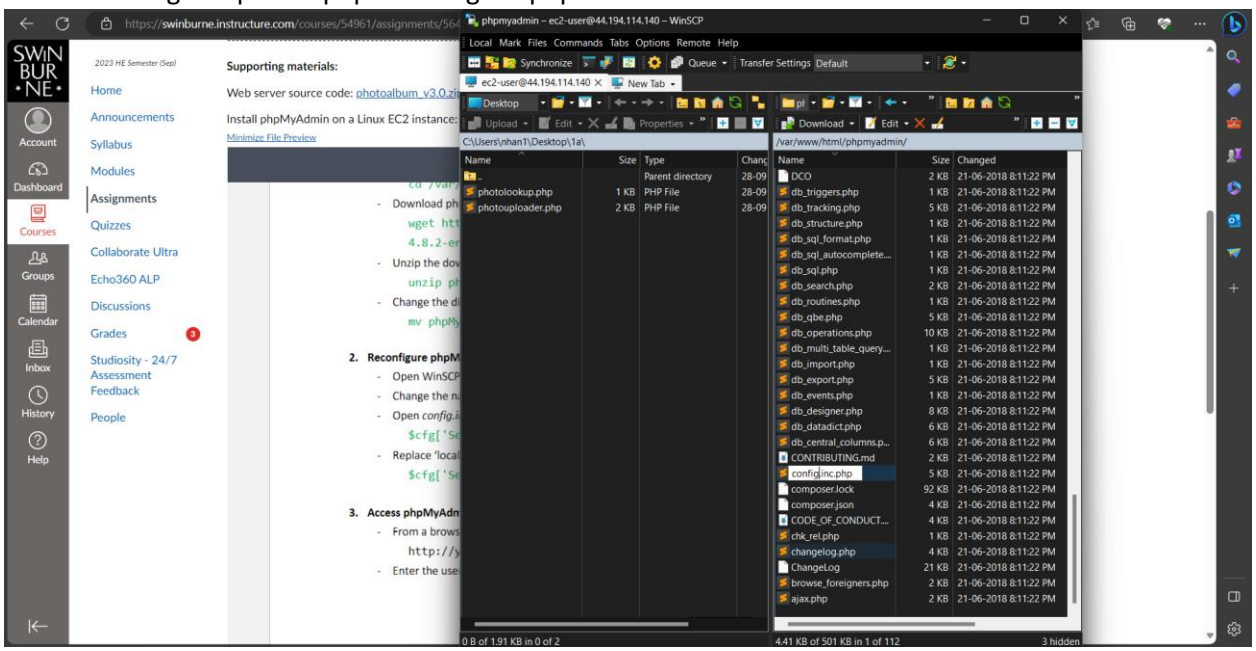


install phpMyAdmin (a web-based MySQL administration tool) on EC2 web server instance and manage database through phpMyAdmin's UI

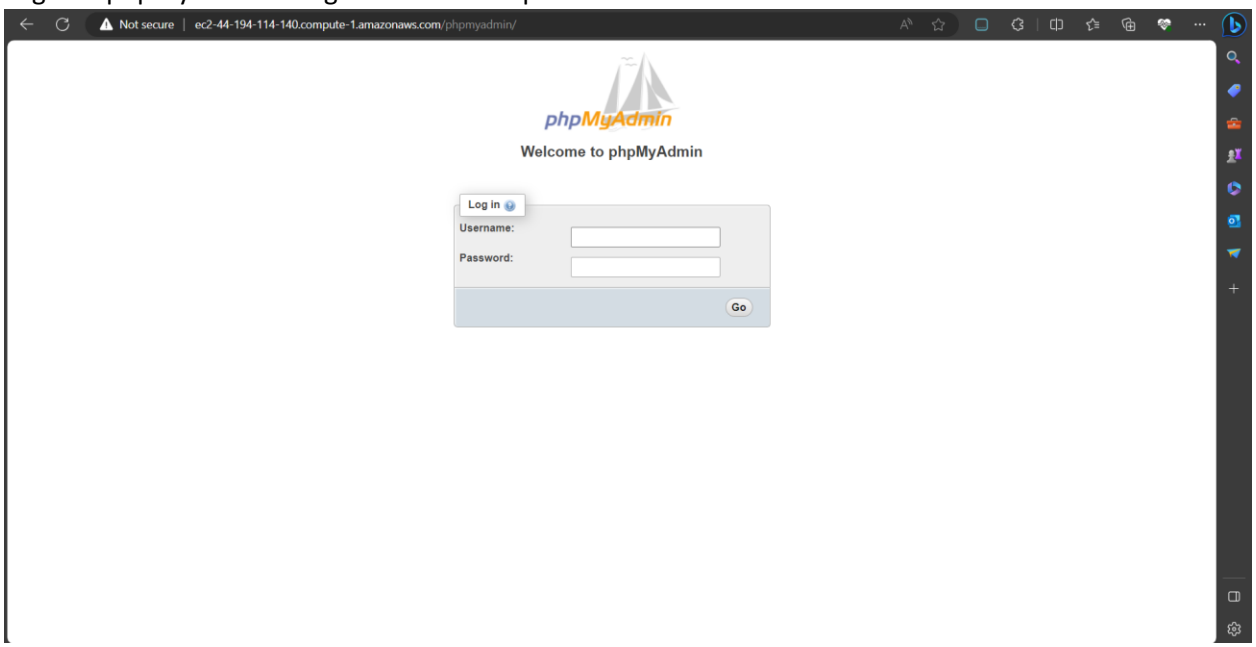




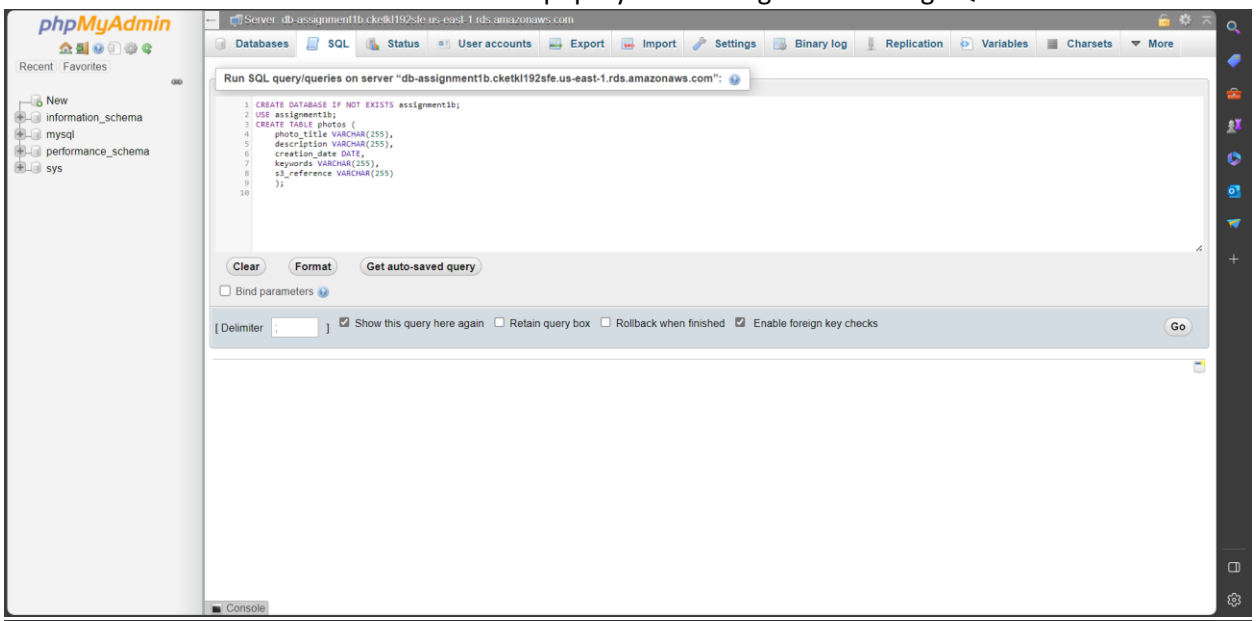
Rename config.sample.inc.php to config.inc.php

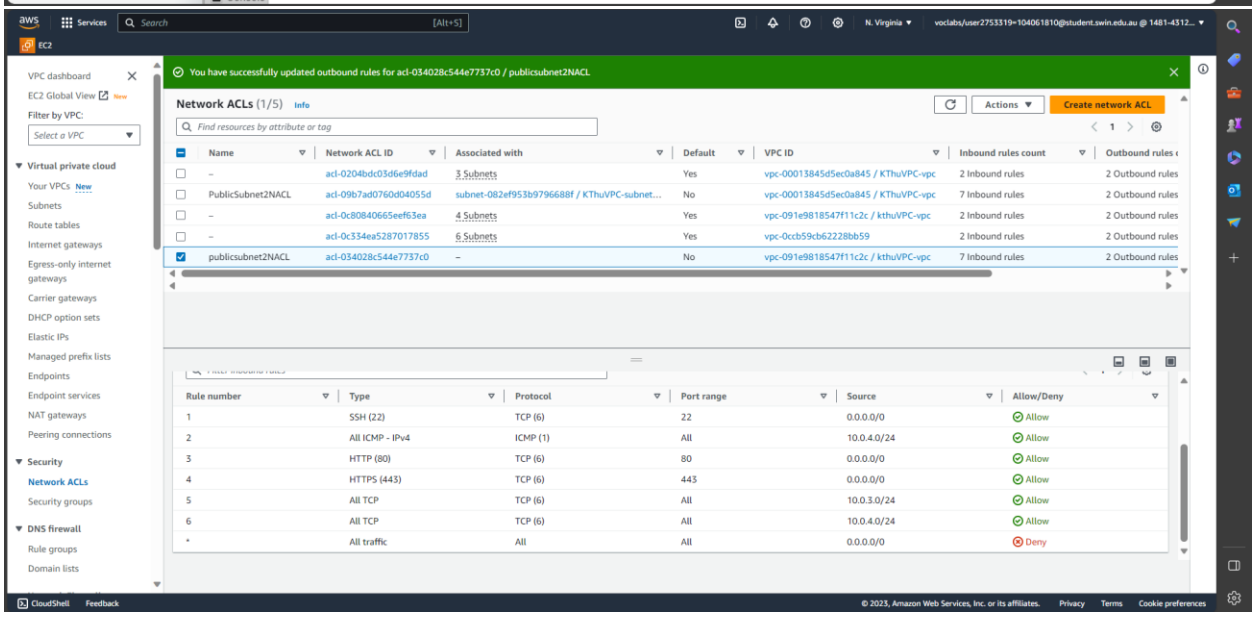


Login to phpMyAdmin using username and password created before

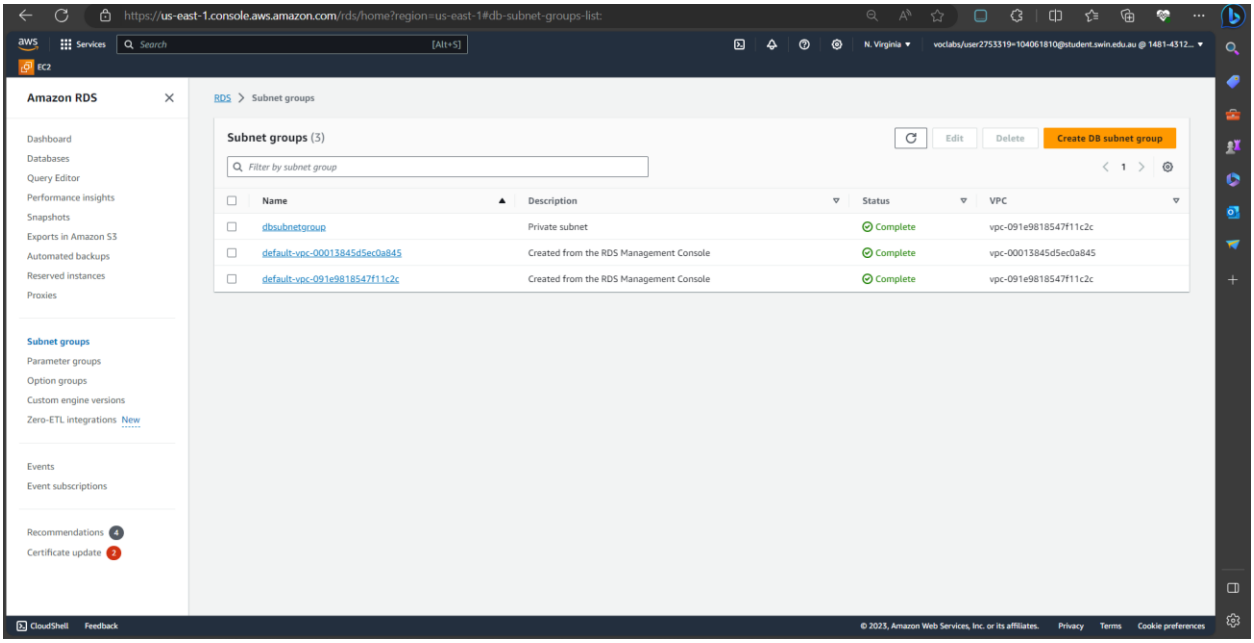


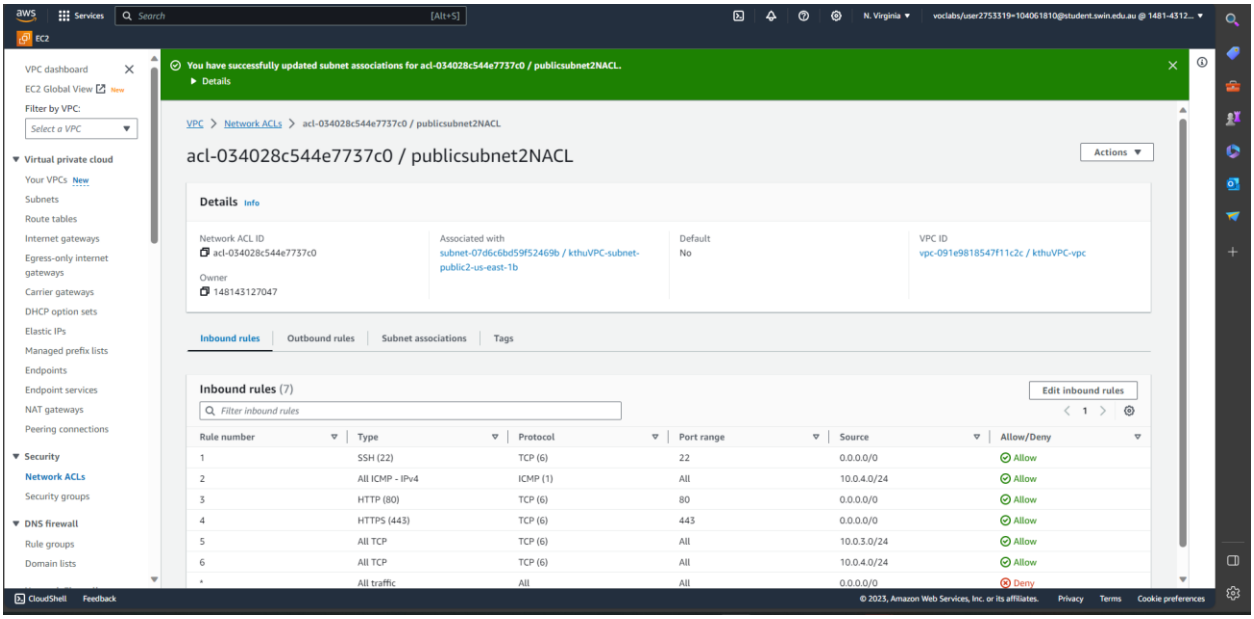
Create the database as well as a new table in phpMyadmin using the following SQL commands.

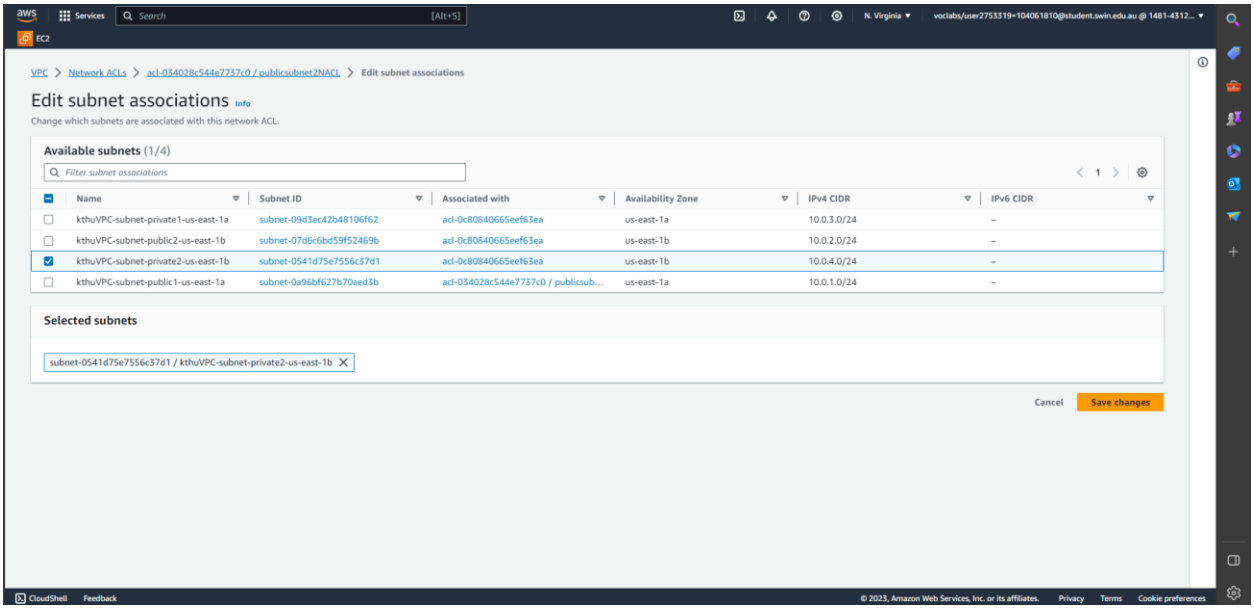




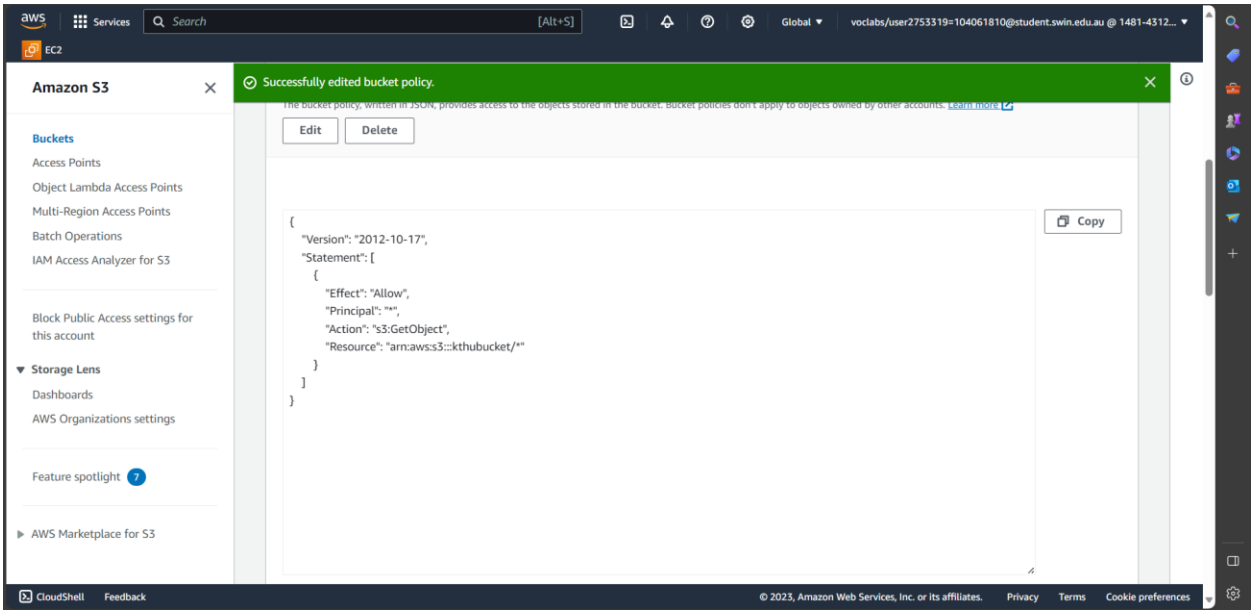
Create a new subnet group named DBSubnetGroup in my VPC.

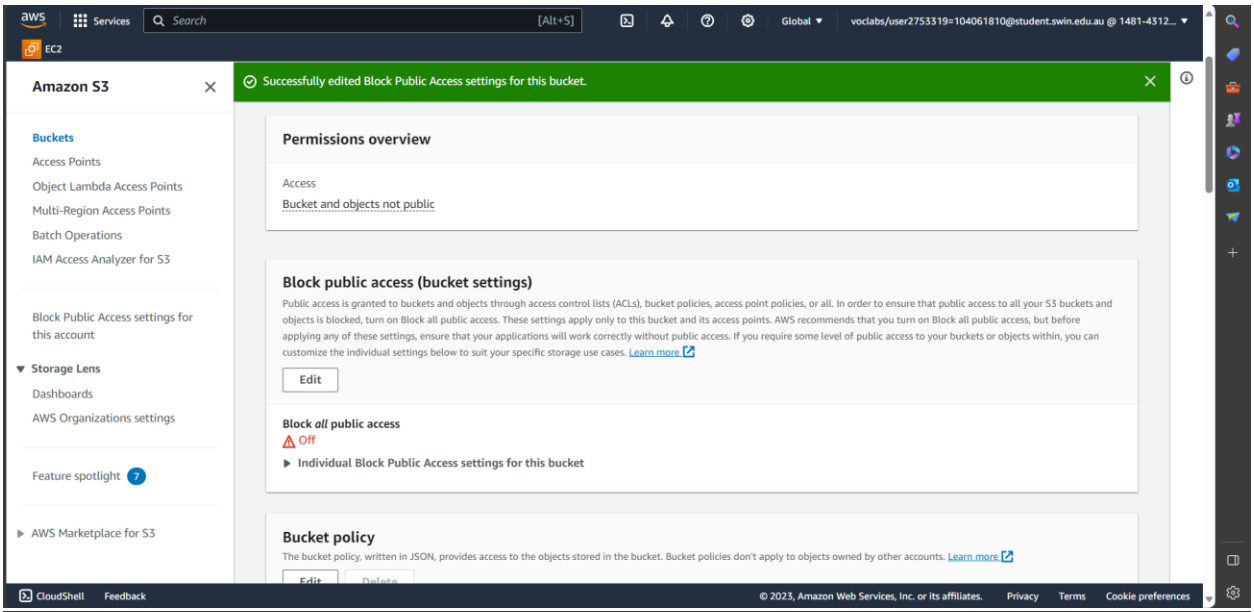


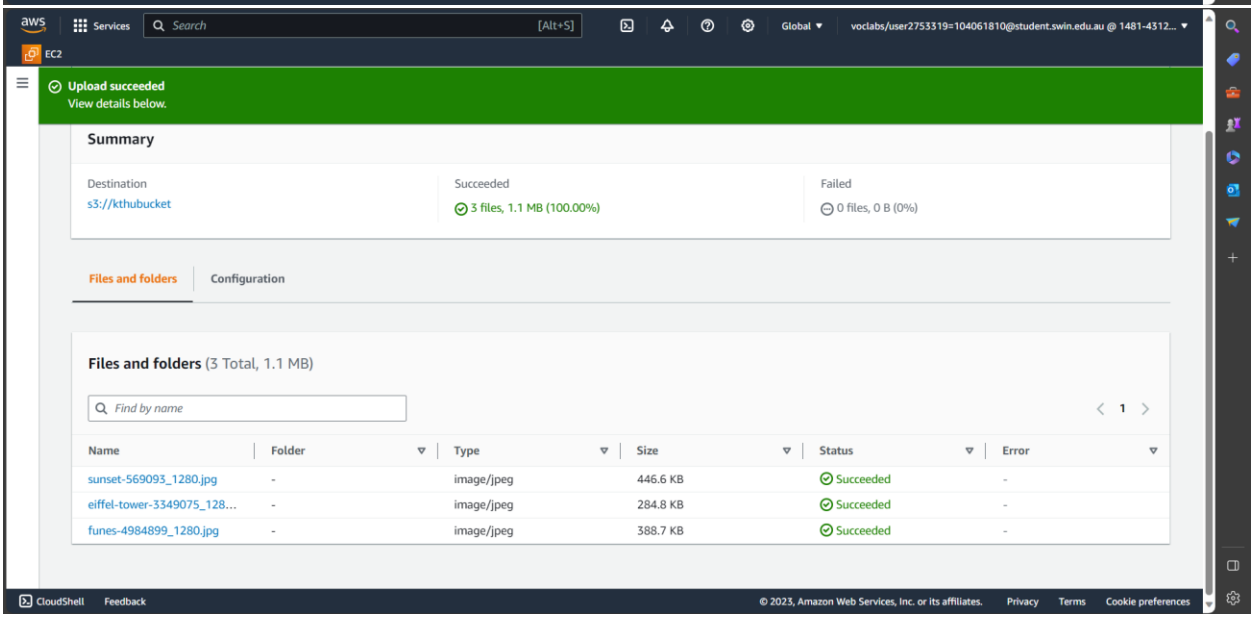




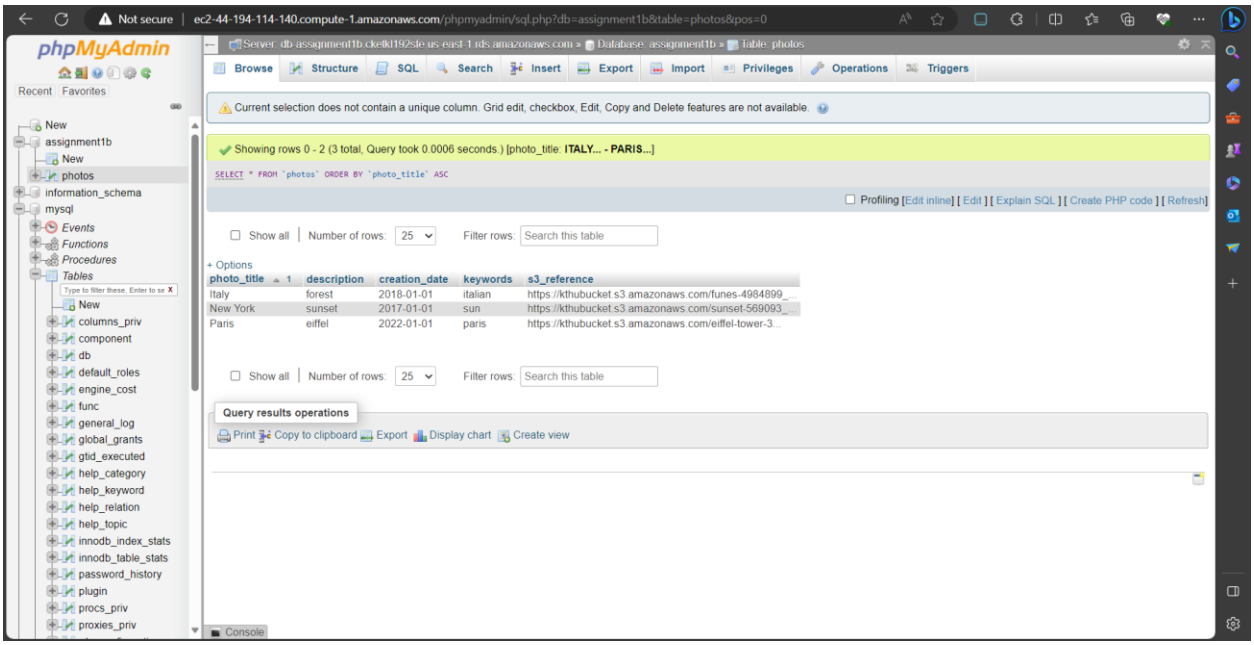
Create an S3 bucket to store photos. Manually upload some photos onto S3 bucket that just created

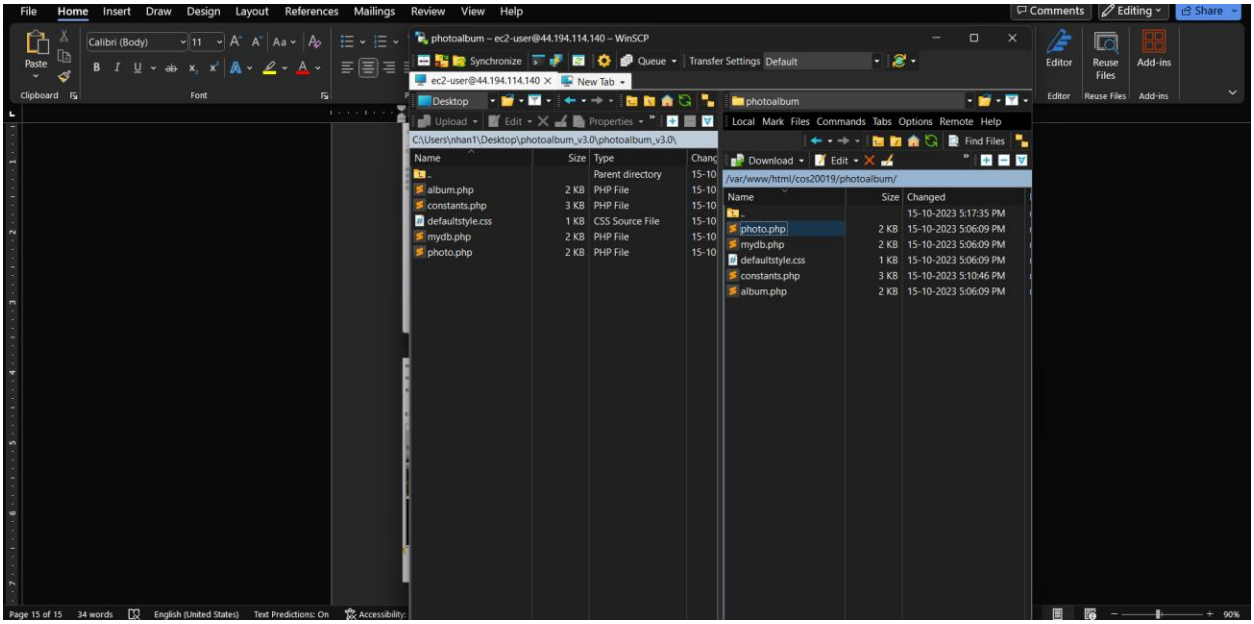






Insert metadata into the database using SQL commands and Data records in the database.


Not secure | ec2-44-194-114-140.compute-1.amazonaws.com/phpmyadmin/sql.php?db=assignment1b&table=photos&pos=0
phpMyAdmin
Recent Favorites
New
assignment1b
New
photos
information_schema
mysql
Events
Functions
Procedures
Tables
columns_priv
component
db
default_roles
engine_cost
func
general_log
global_grants
gtid_executed
help_category
help_keyword
help_relation
help_topic
innodb_index_stats
innodb_table_stats
password_history
plugin
procs_priv
proxies_priv
Server: db.assignment1b.ckelkl192sfe.us-east-1.rds.amazonaws.com » Database: assignment1b » Table: photos
Browse Structure SQL Search Insert Export Import Privileges Operations Triggers
Current selection does not contain a unique column. Grid edit, checkbox, Edit, Copy and Delete features are not available.
Showing rows 0 - 2 (3 total, Query took 0.0006 seconds.) [photo_title: ITALY... - PARIS...]
SELECT * FROM `photos` ORDER BY `photo_title` ASC
Profiling [Edit inline] [Edit] [Explain SQL] [Create PHP code] [Refresh]
Show all | Number of rows: 25 Filter rows: Search this table
+ Options
photo_title 1 description creation_date keywords s3_reference
Italy forest 2018-01-01 italian https://kthubucket.s3.amazonaws.com/funes-4984899_...
New York sunset 2017-01-01 sun https://kthubucket.s3.amazonaws.com/sunset-569093_...
Paris eiffel 2022-01-01 paris https://kthubucket.s3.amazonaws.com/eiffel-tower-3...
Show all | Number of rows: 25 Filter rows: Search this table
Query results operations
Print Copy to clipboard Export Display chart Create view
Console


File Home Insert Draw Design Layout References Mailings Review View Help
Comments Editing Share
Paste Clipboard Font
photoalbum – ec2-user@44.194.114.140 – WinSCP
Synchronize Queue Transfer Settings Default
ec2-user@44.194.114.140 New Tab
Desktop
photoalbum
Upload Edit Properties
Local Mark Files Commands Tabs Options Remote Help
C:\Users\nhan1\Desktop\photoalbum_v3.0\photoalbum_v3.0\
Download Edit
/var/www/html/cos20019/photoalbum/
Name Size Type Changed
Parent directory
album.php 2 KB PHP File
constants.php 3 KB PHP File
defaultstyle.css 1 KB CSS Source File
mydb.php 2 KB PHP File
photo.php 2 KB PHP File
15-10-2023 5:17:35 PM
15-10-2023 5:06:09 PM
15-10-2023 5:10:46 PM
Editor Reuse Files Add-ins
Page 15 of 15 34 words English (United States) Text Predictions: On Accessibility:
90%

This my photos that uploaded on my web server.

Student name: Tran Kim Thu

Student ID: 104061810

Tutorial session: Saturday 9:00 AM

Uploaded photos:

Photo	Name	Description	Creation date	Keywords
	Paris	eiffel	2022-01-01	paris
	Italy	forest	2018-01-01	italian
	New York	sunset	2017-01-01	sun

Ping from TestInstance to WebServer