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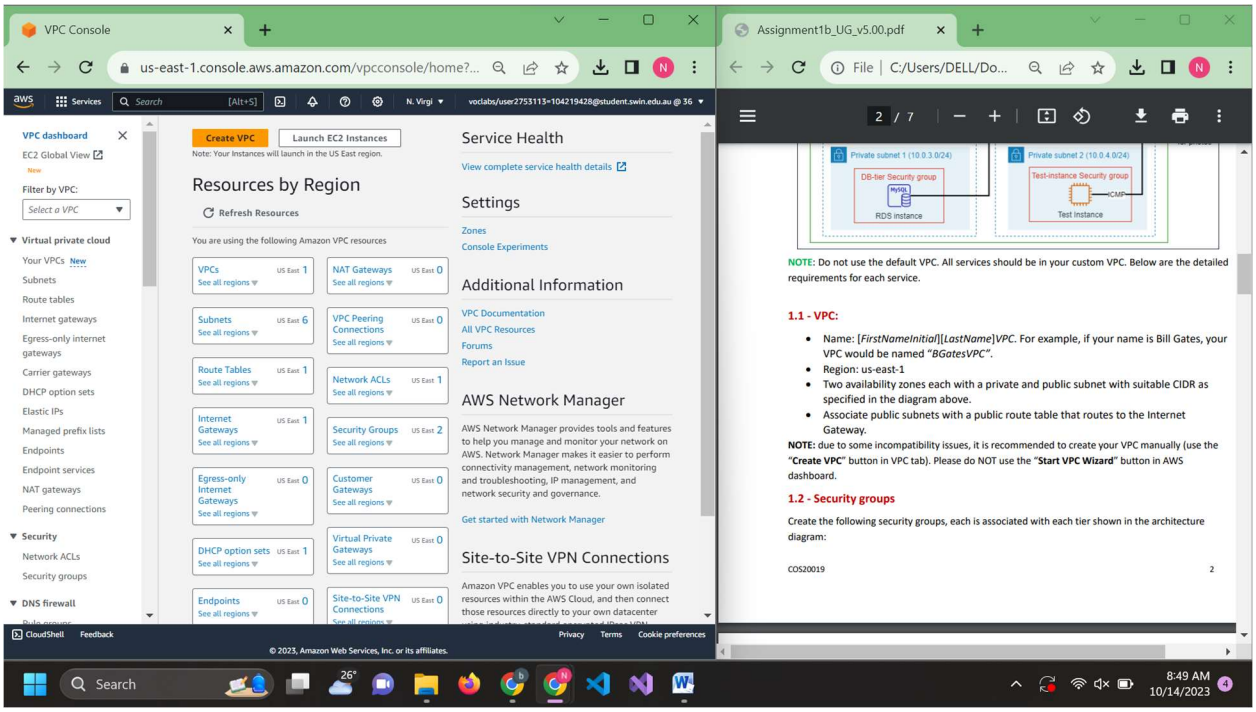
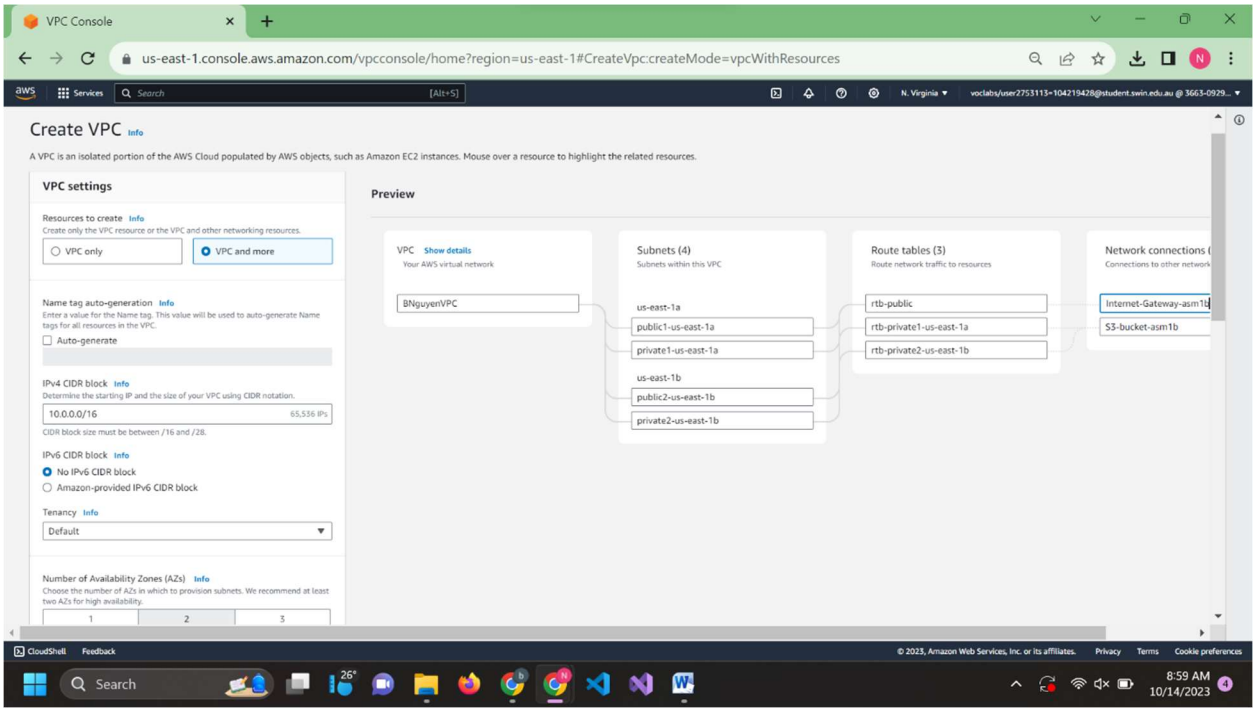
Step 1: Access VPC control panel



Step 2: Create a VPC



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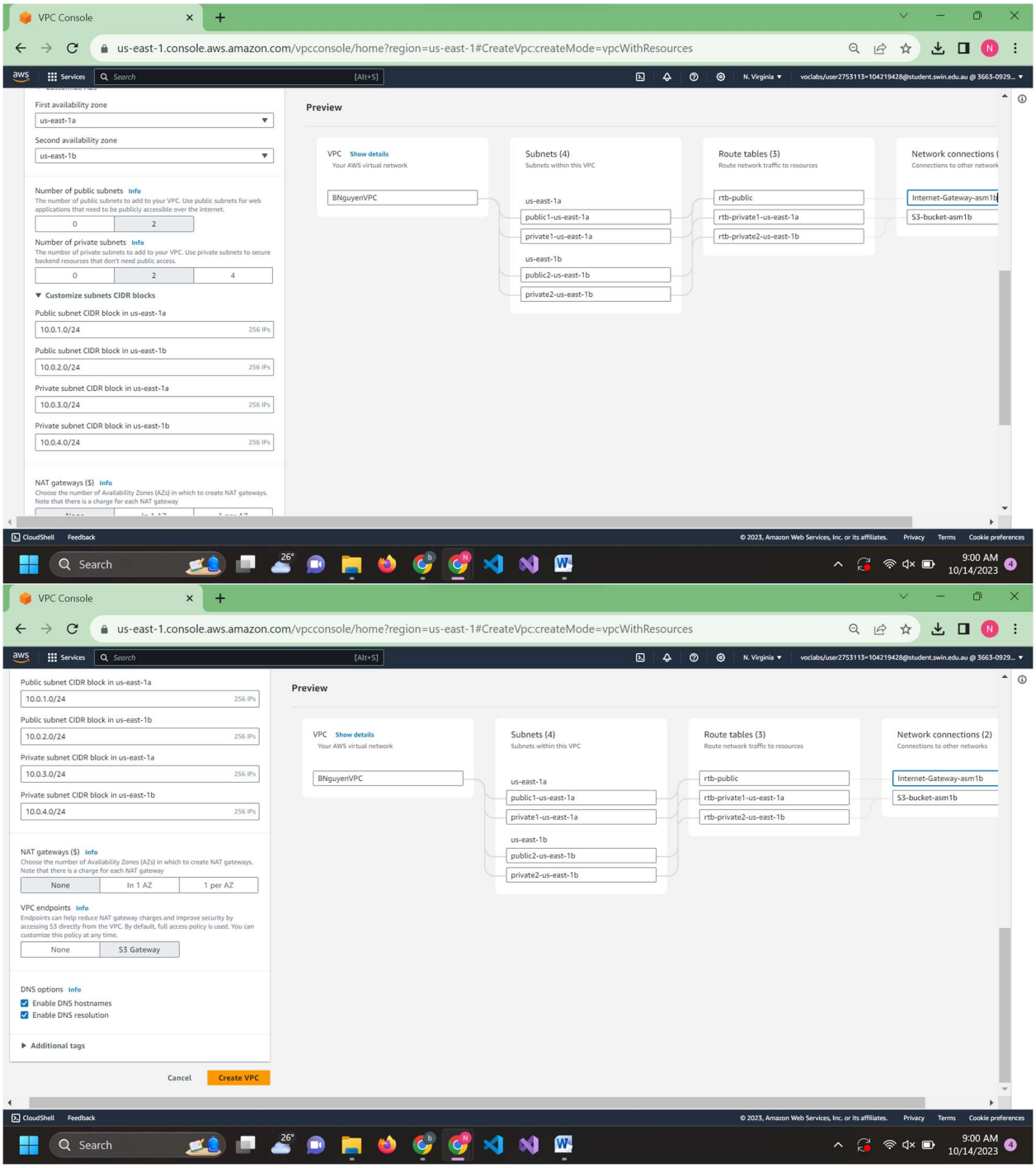

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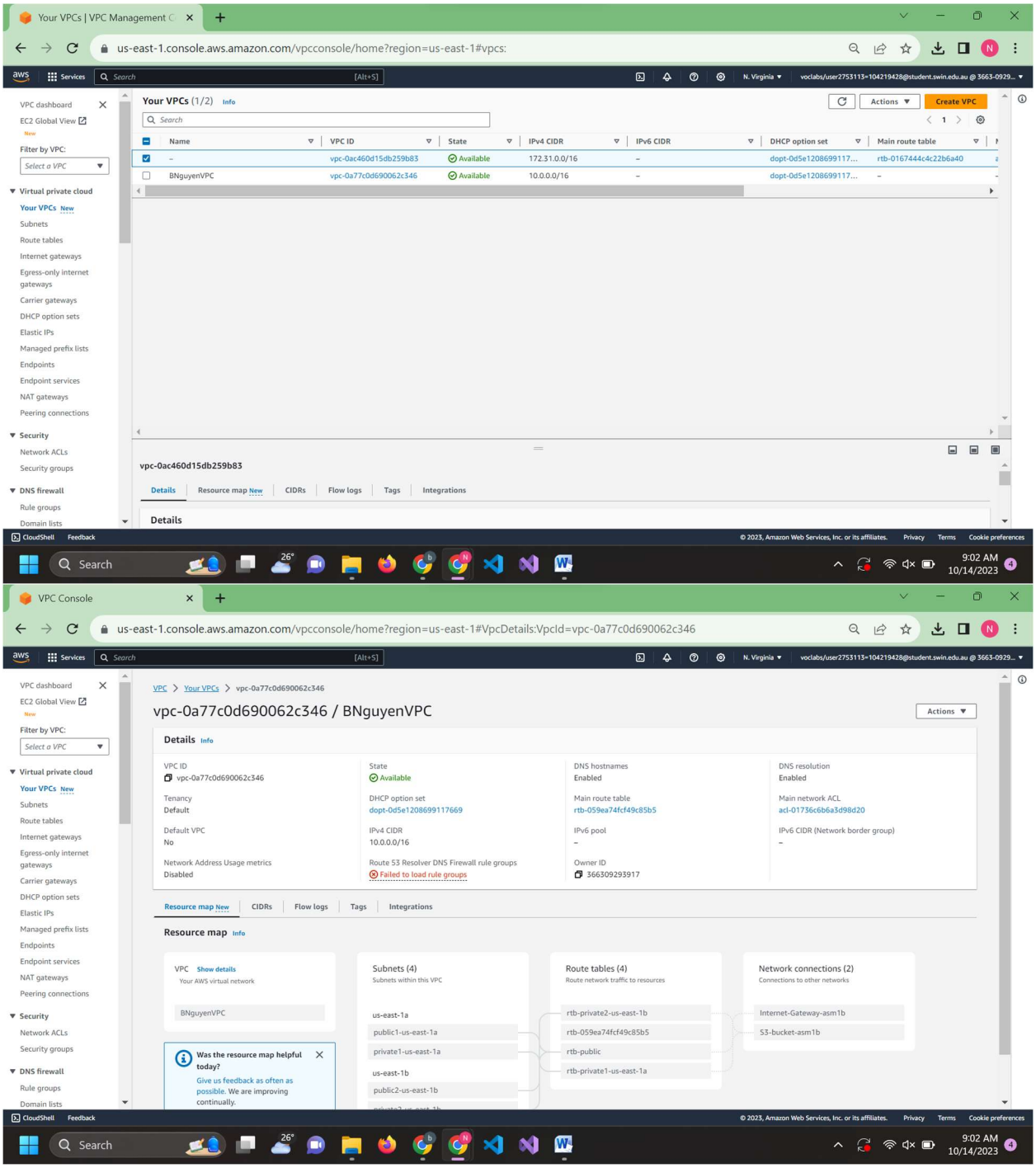

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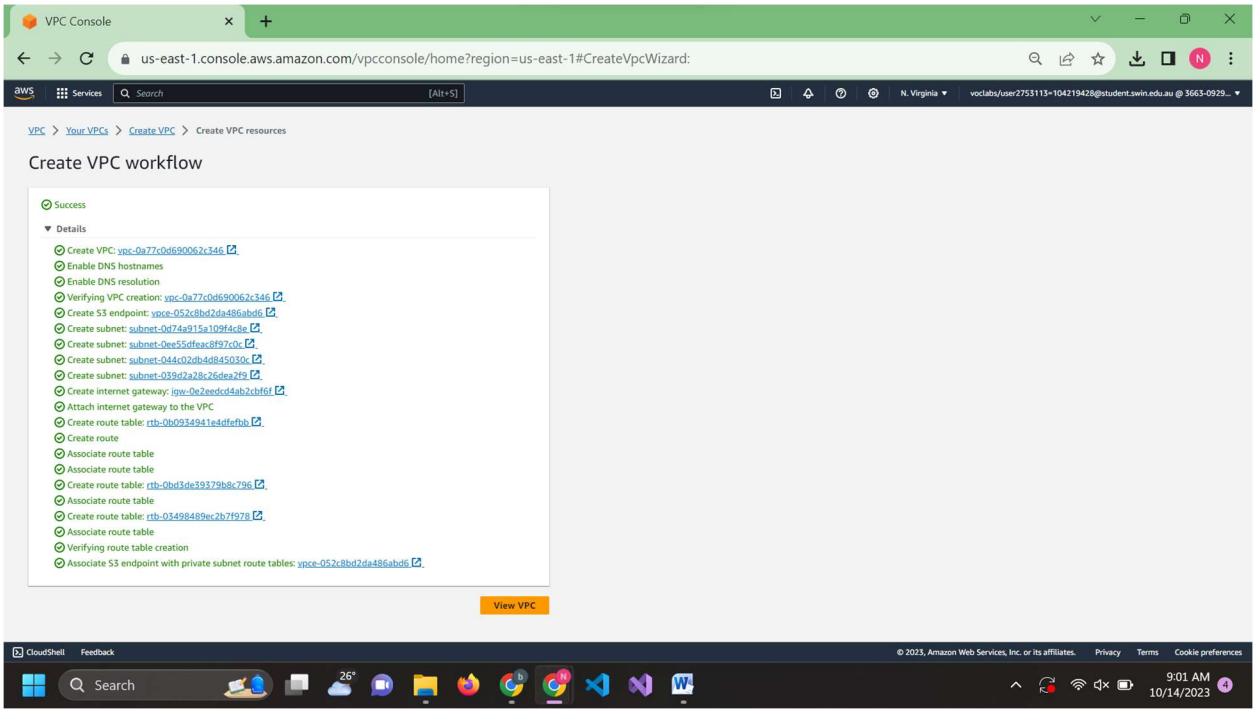
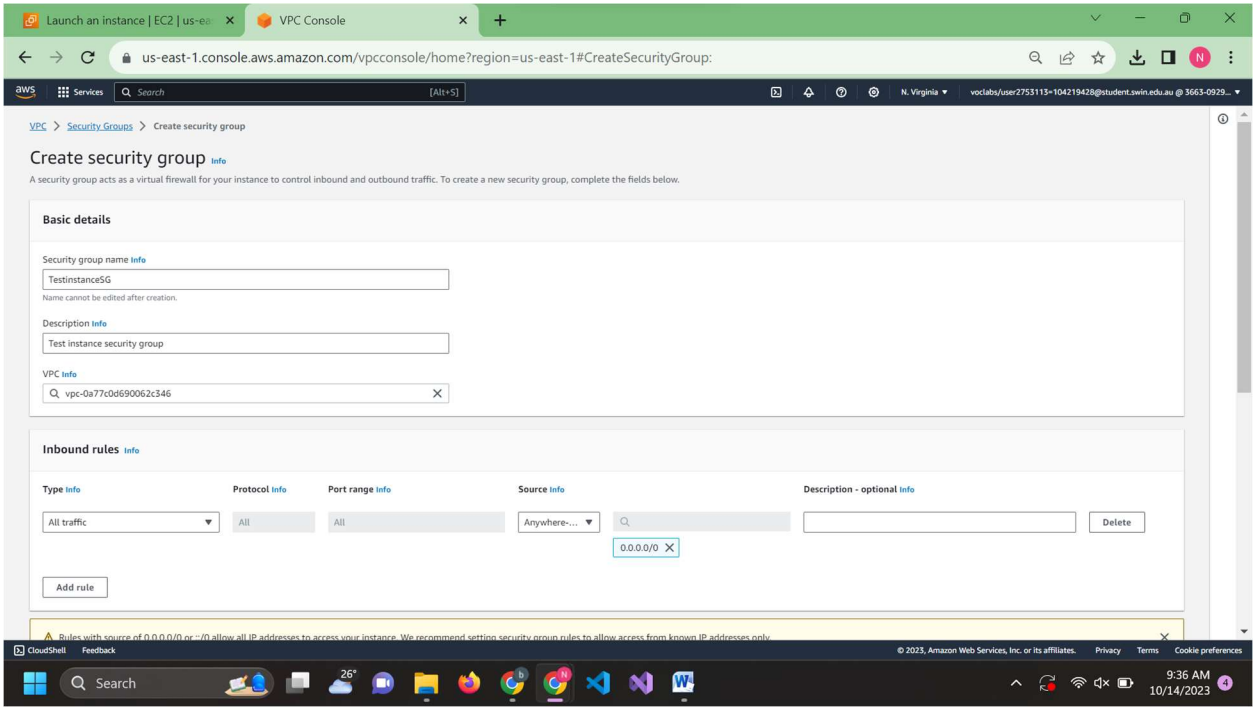


Step 3: Create security group. Access through the left navigation panel

3.1: TestInstanceSG



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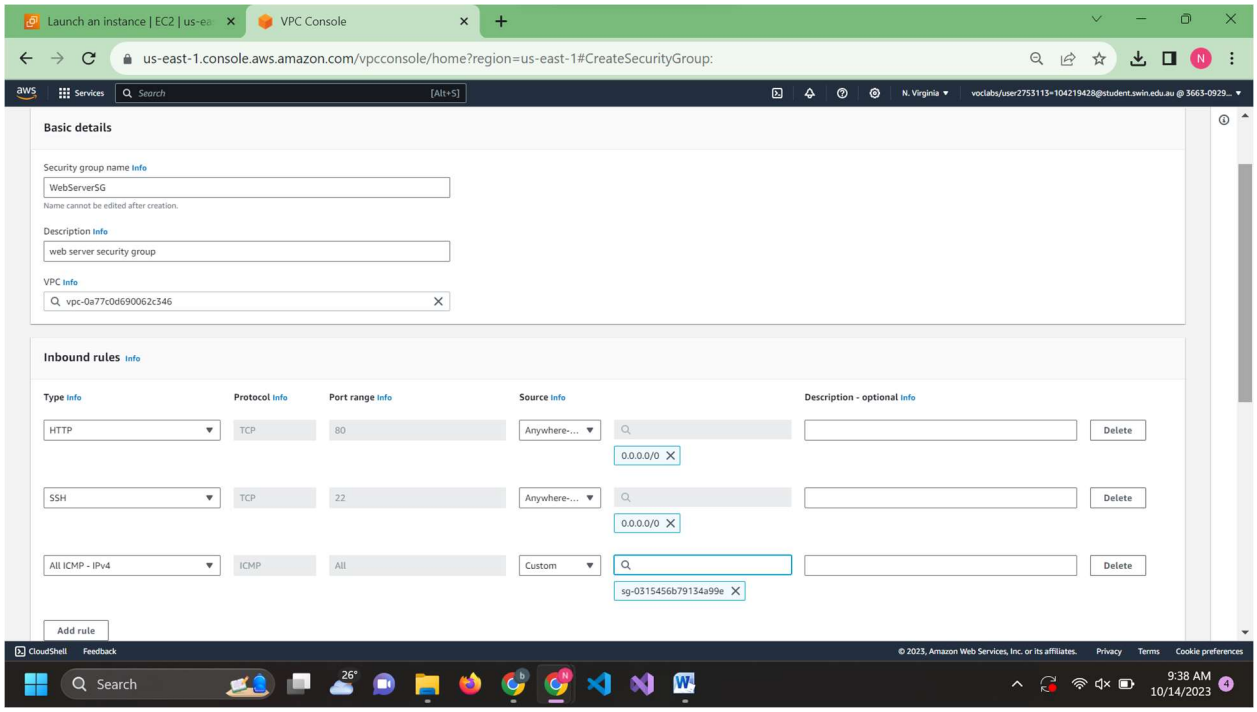
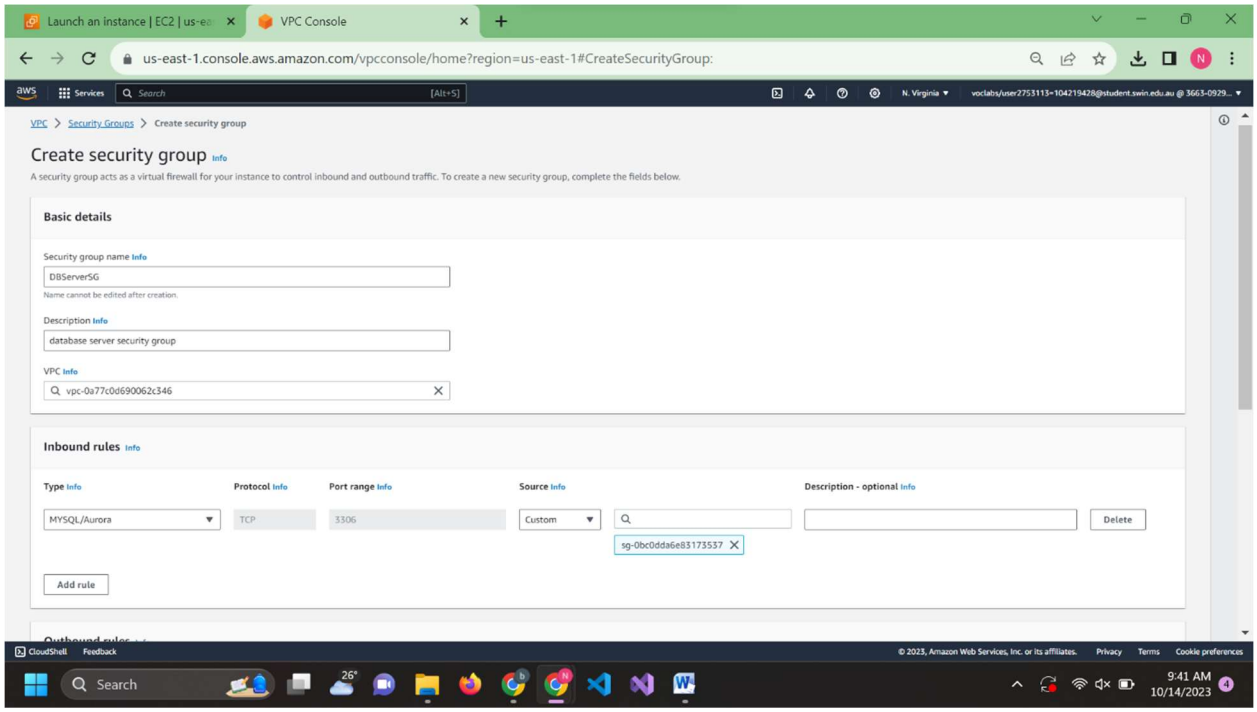
3.2:WebServerSG



3.3:DBServerSG



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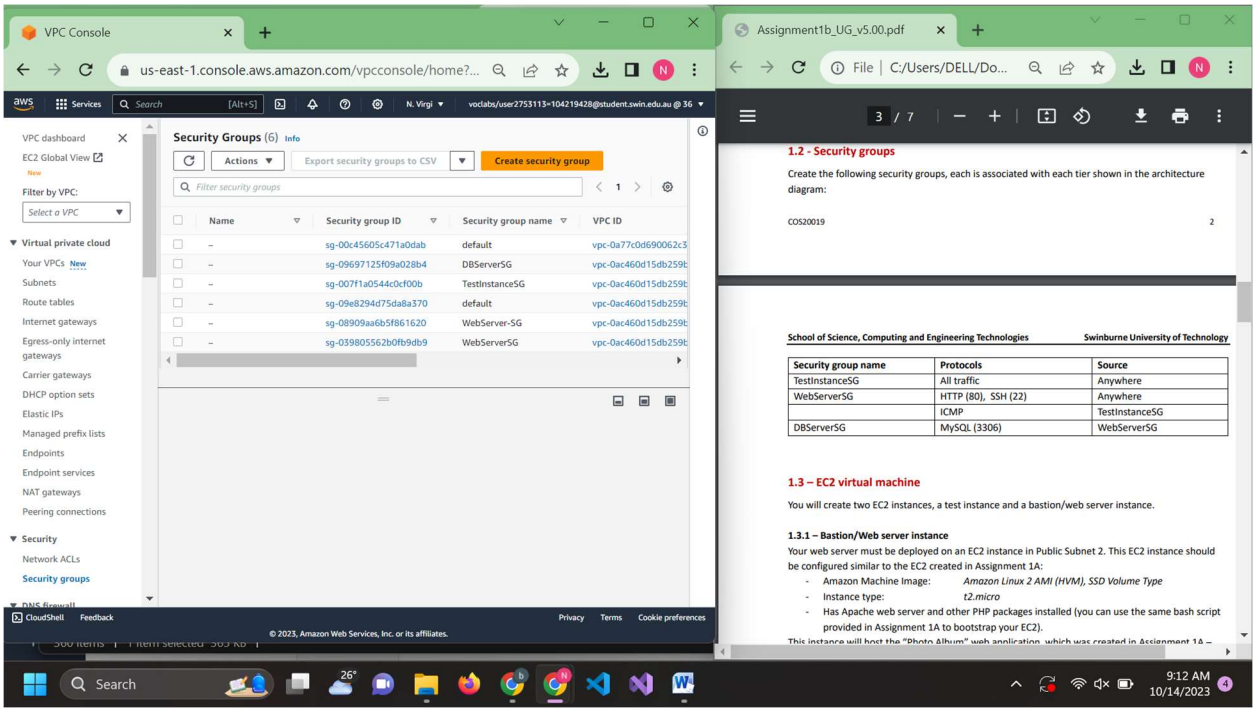
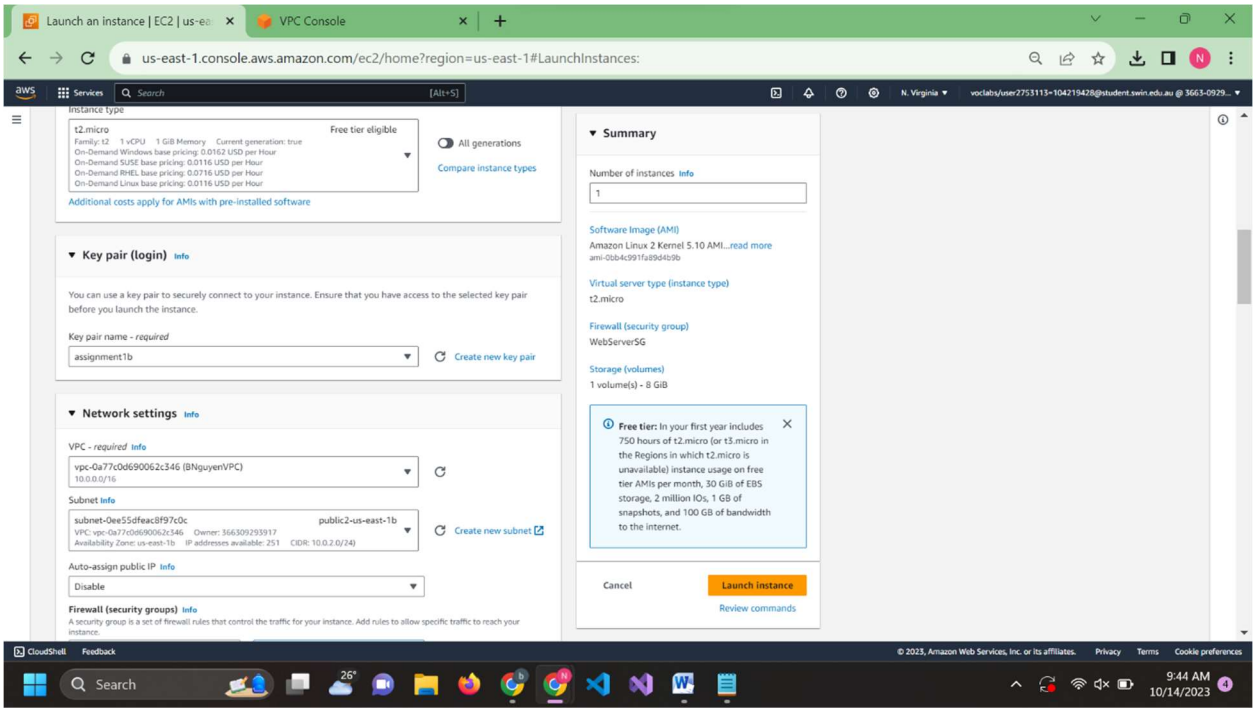


Step 4: Create 2 EC2 instance

4.1: Bastion/Web server EC2



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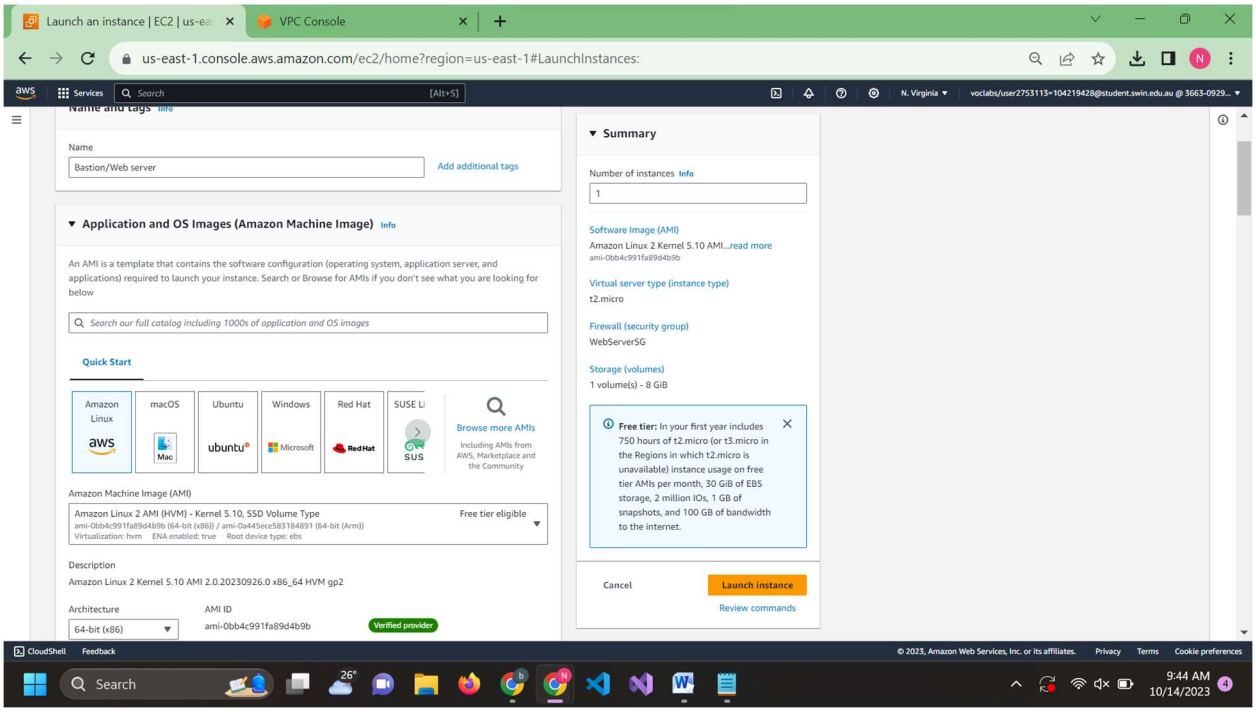

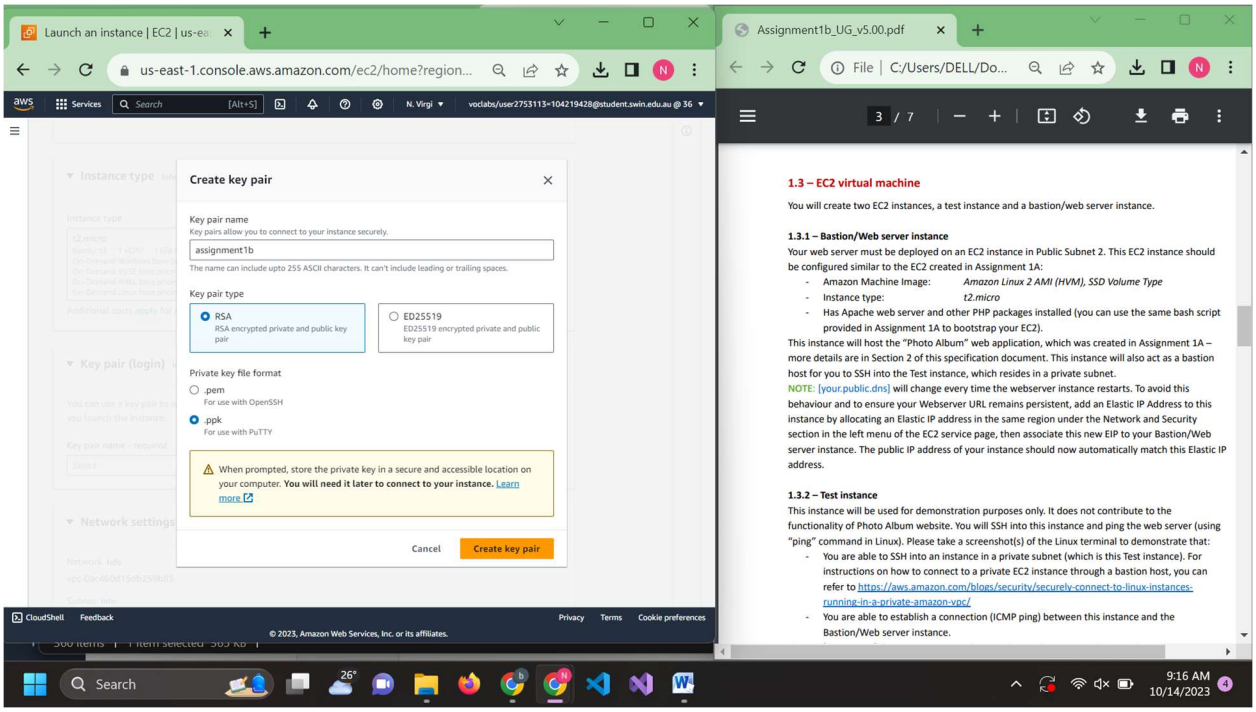

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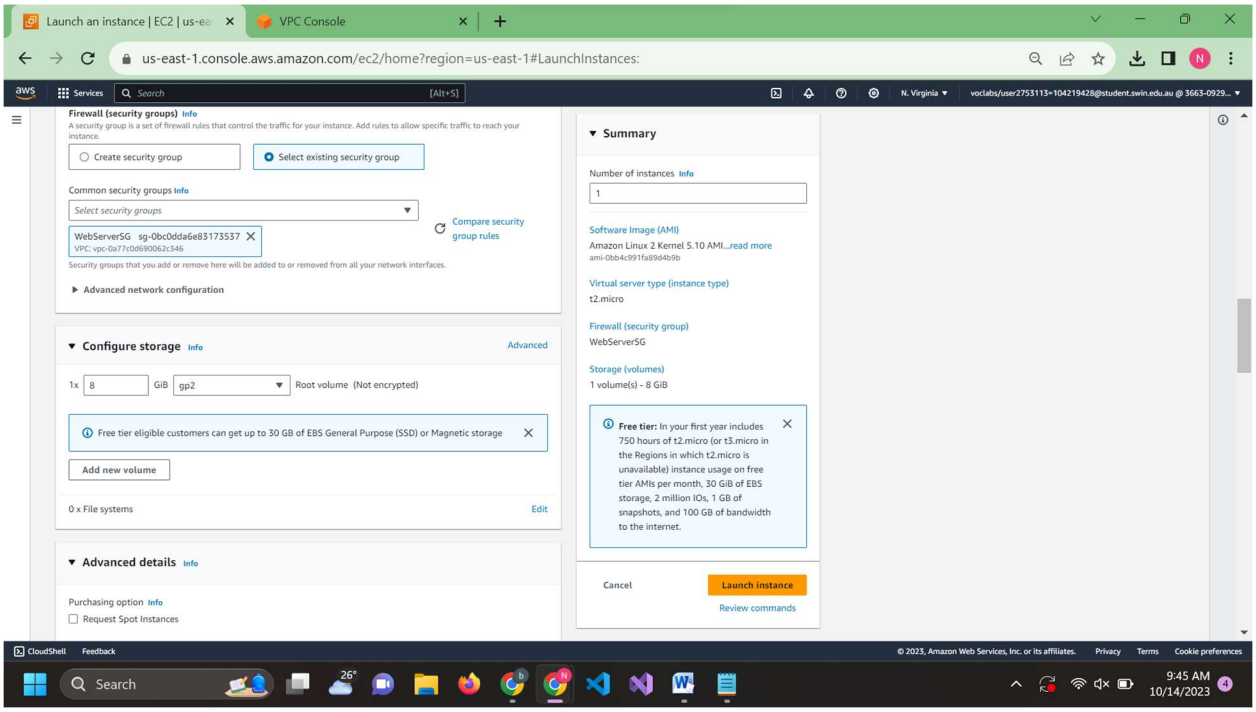
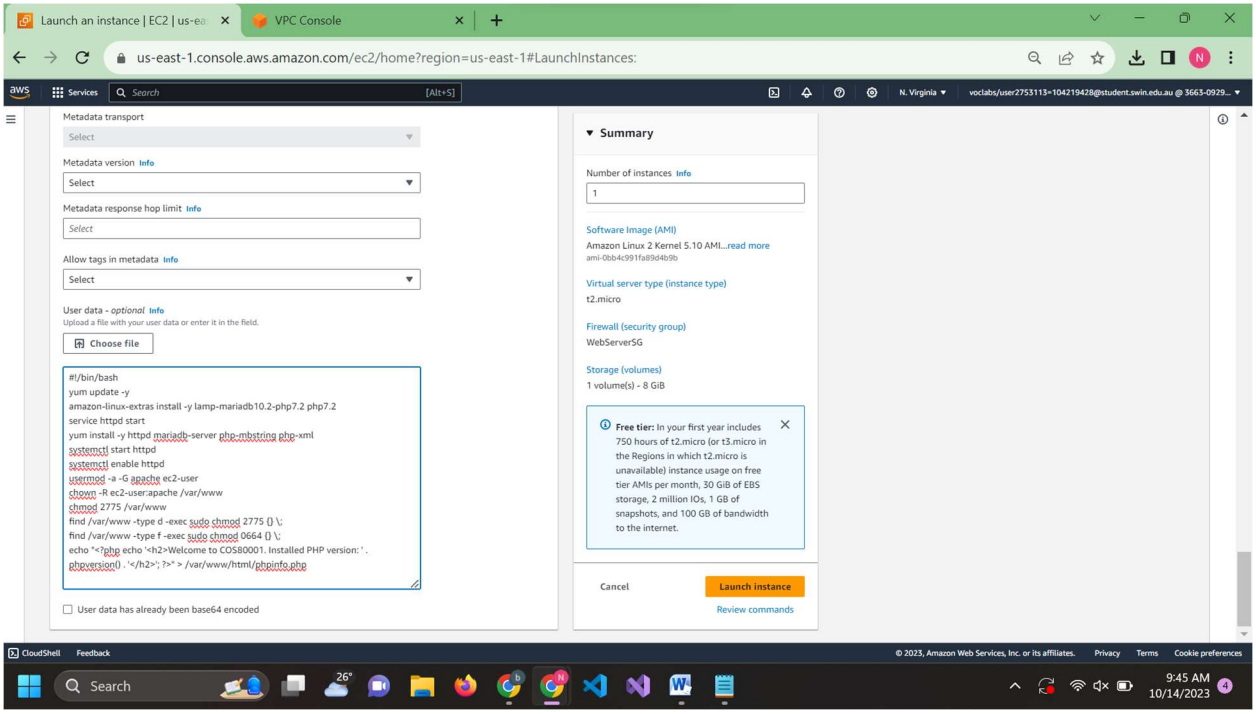


Reuse the script from asm1a to setup



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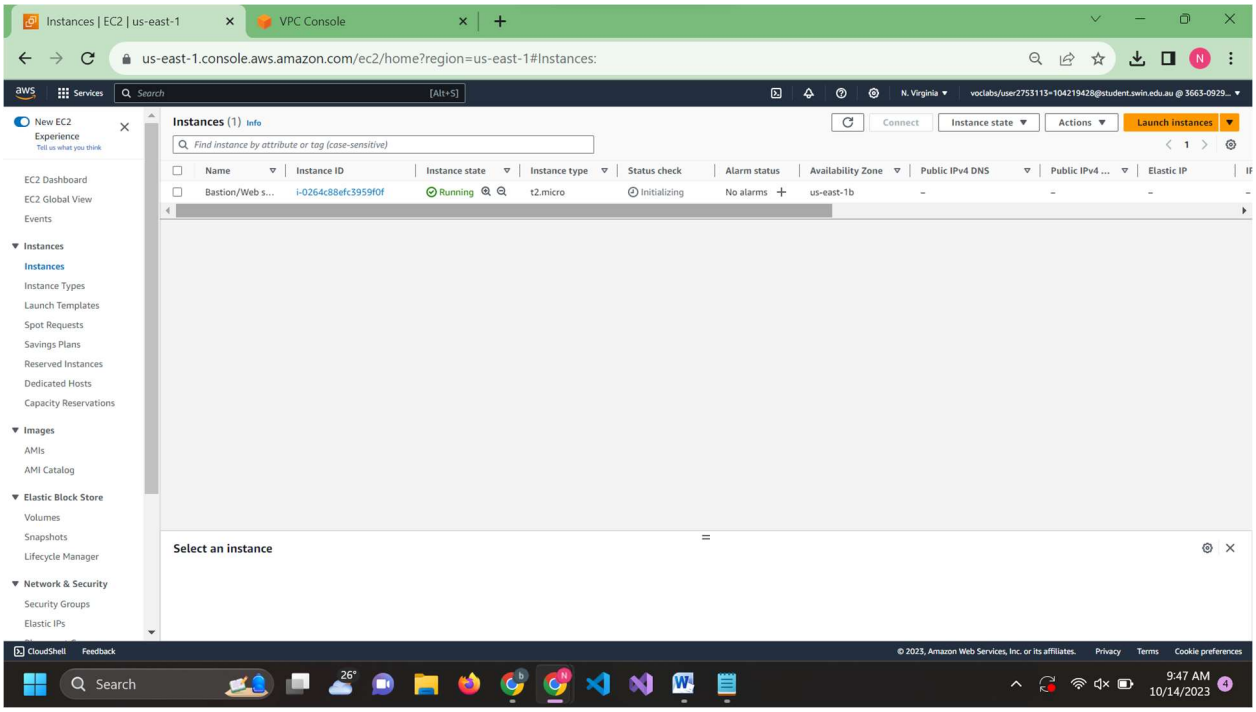
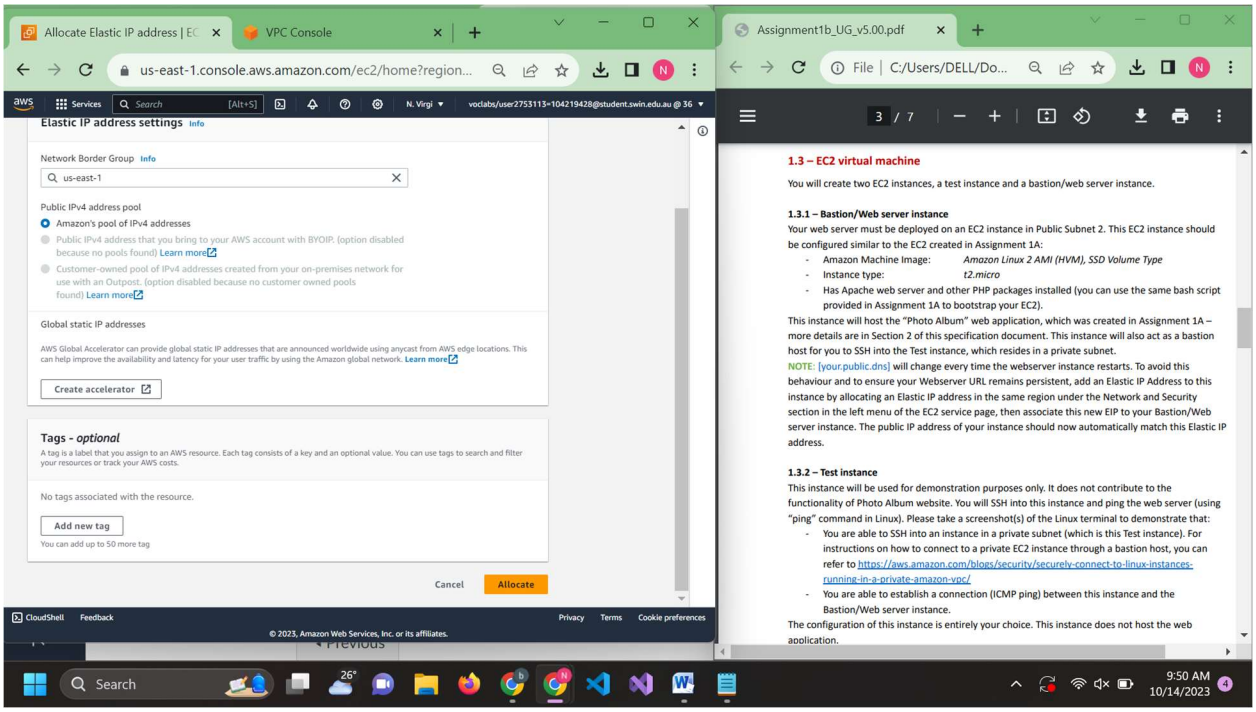


Open left navigation panel and choose Elastic IP Address and choose Allocate Elastic IP Address



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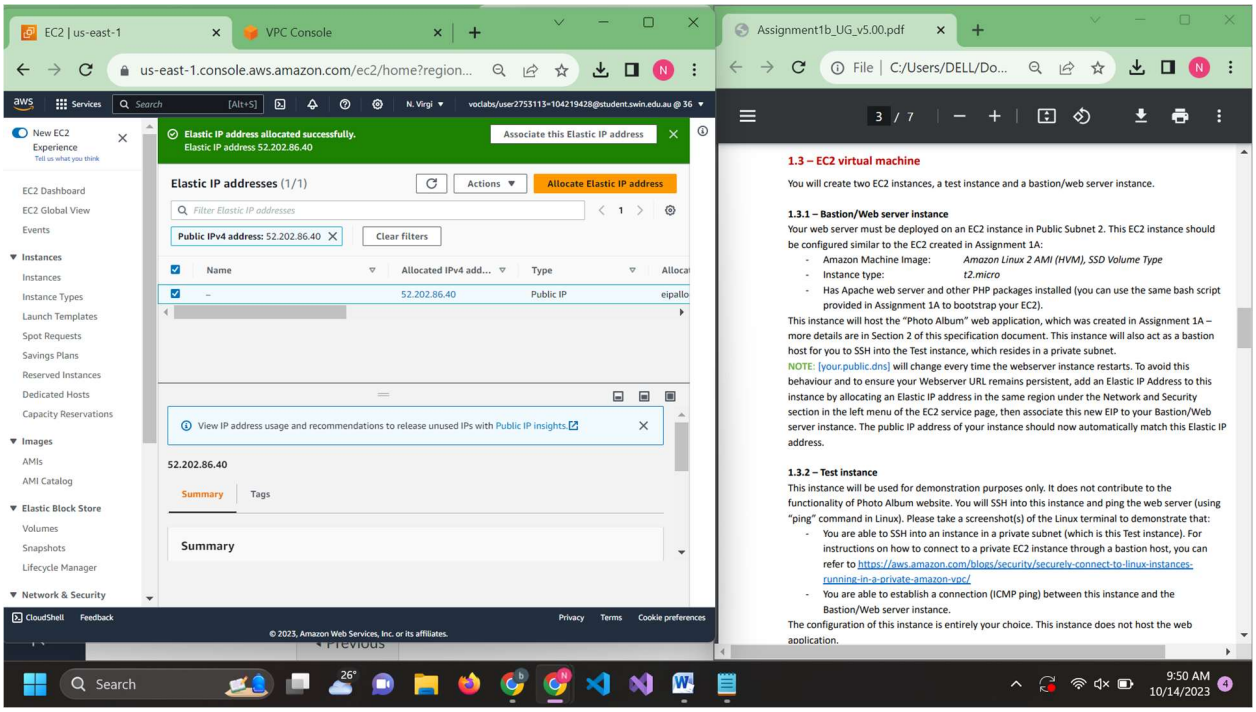
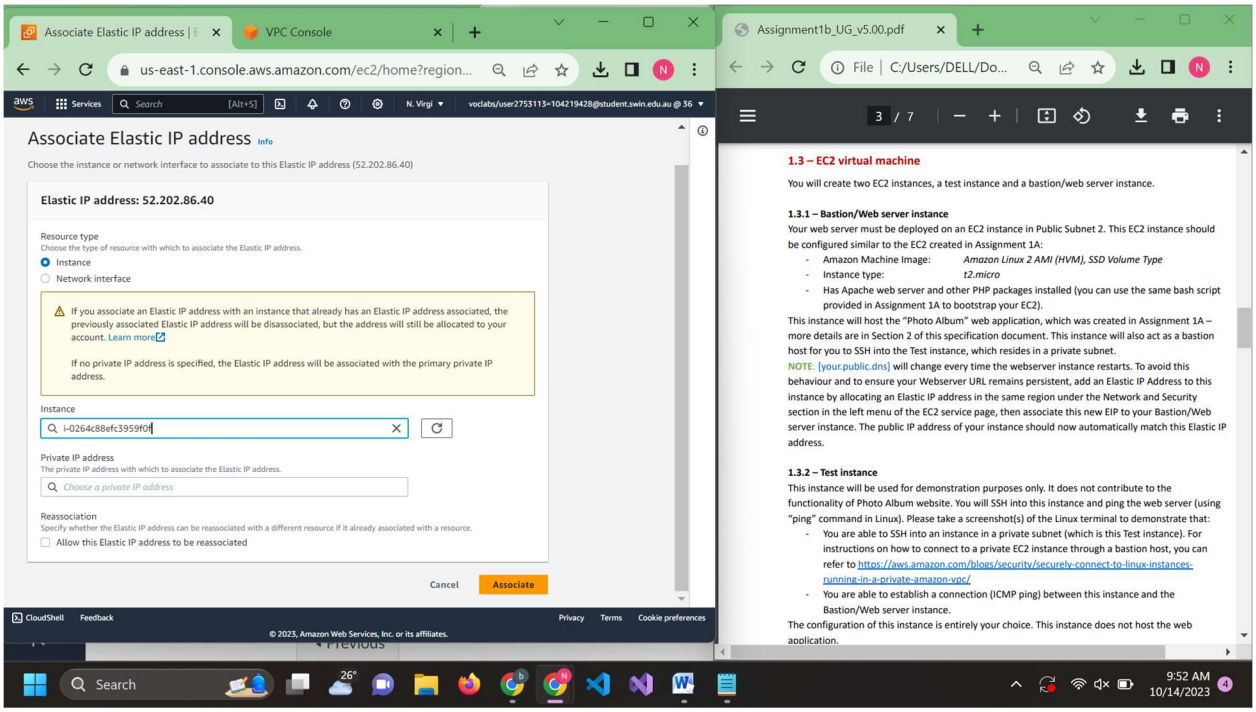


Select the created elastic IP and choose Action -> Allocate Elastic IP Address and add the Bastion/… EC2 instance to it



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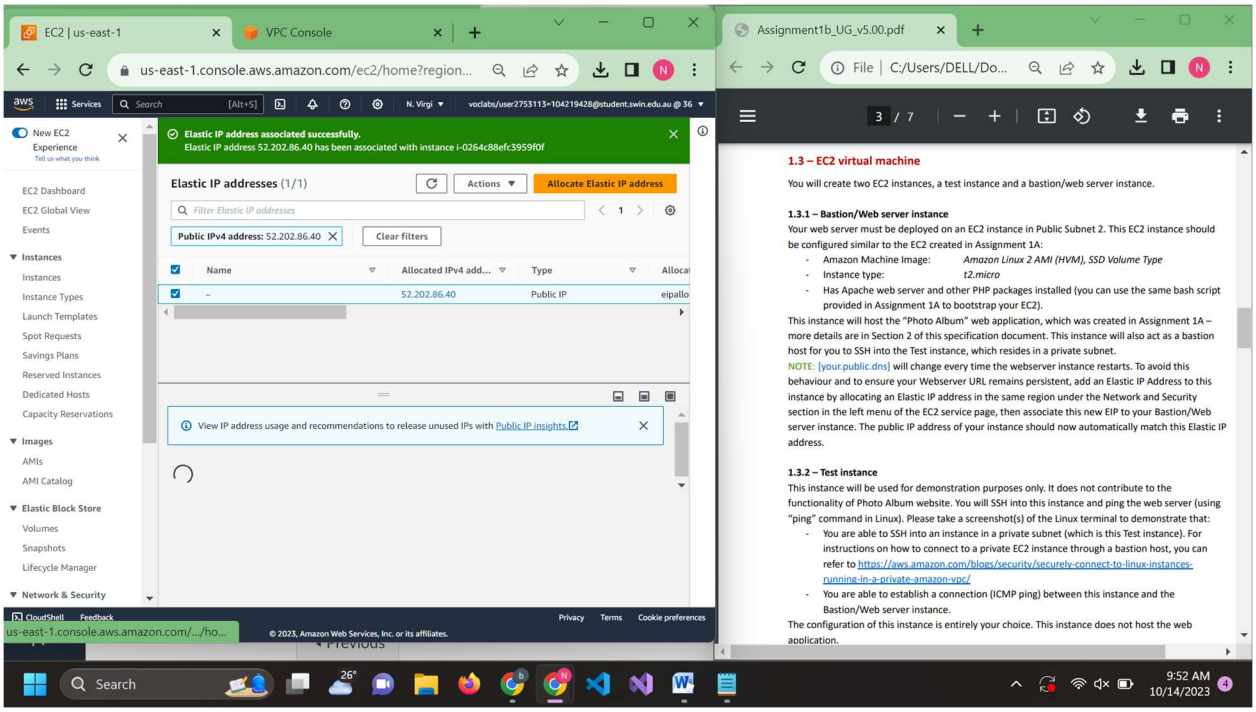
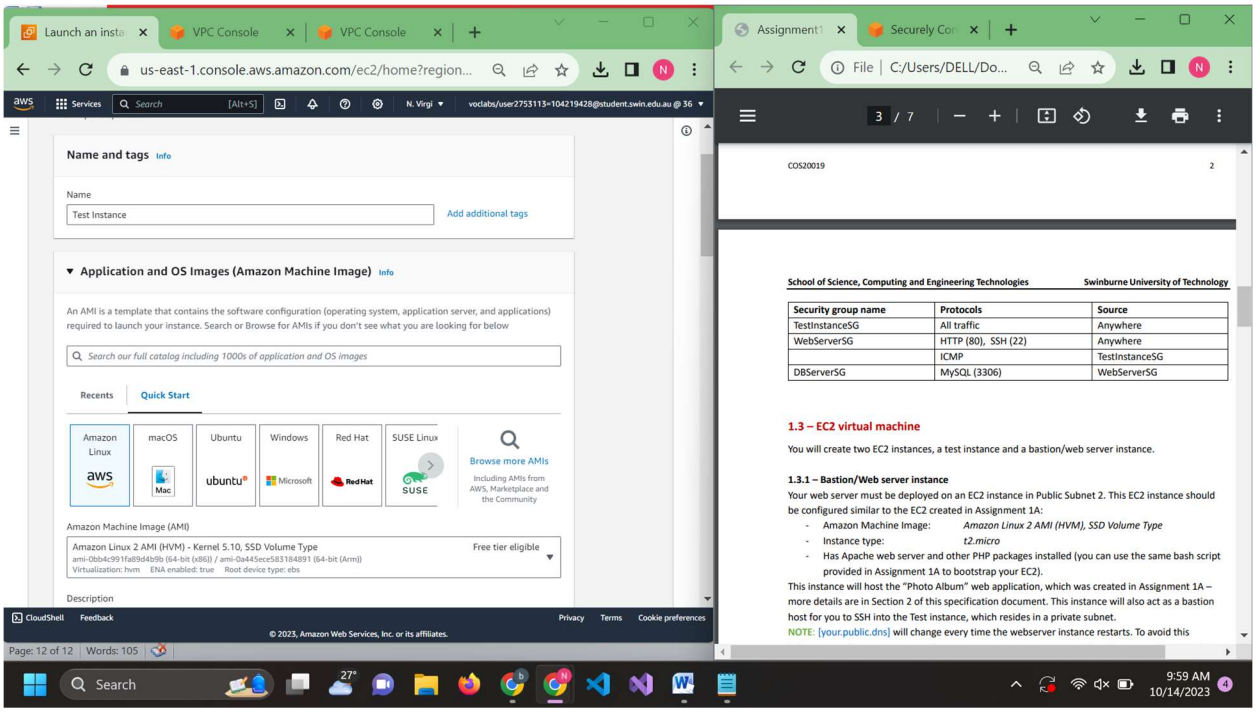


4.2: Test instance. Since it is not specified how this is config I left it the same as Bastion but different security group and no script



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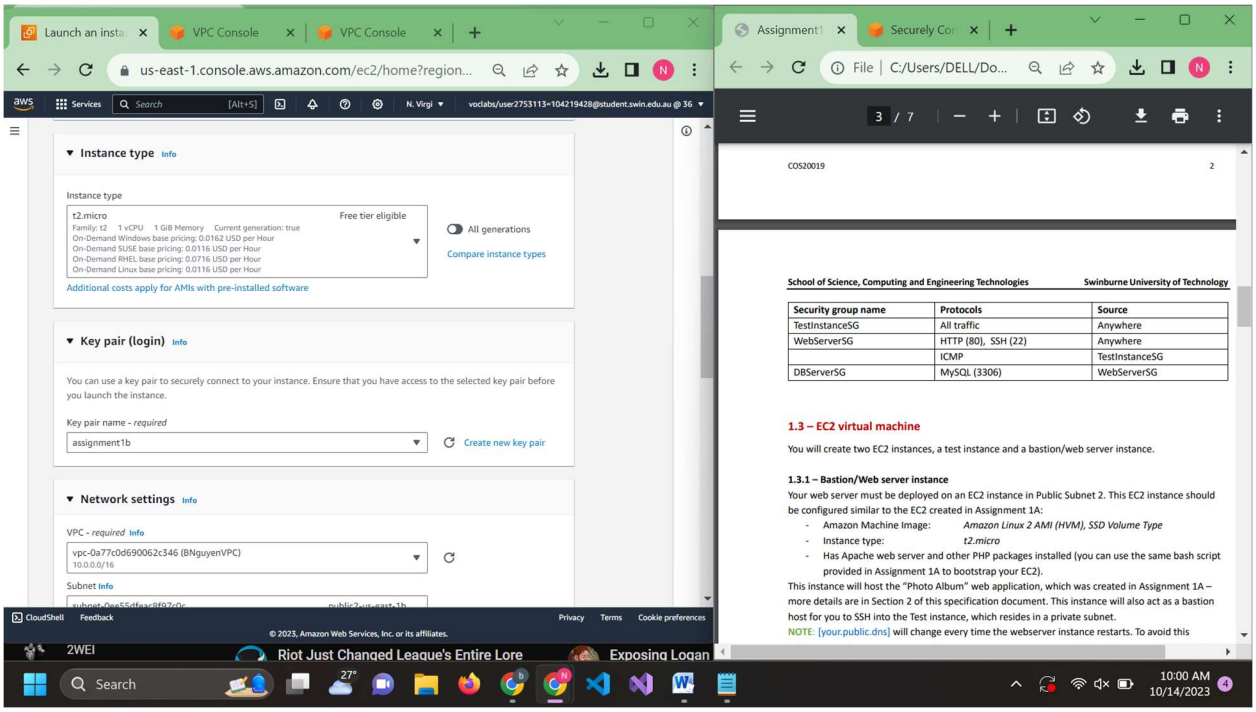
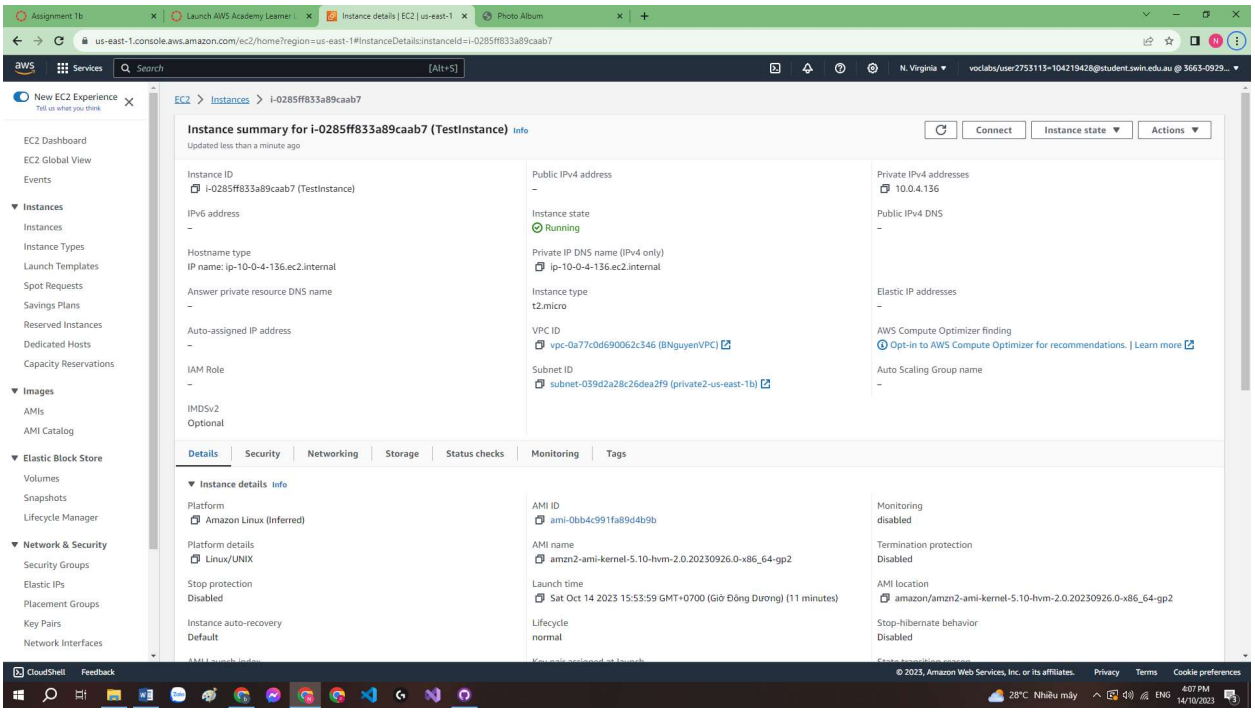


I Config-ed the subnet wrong so I have to comeback and config it again with the right private subnet but forgot to take the screenshot



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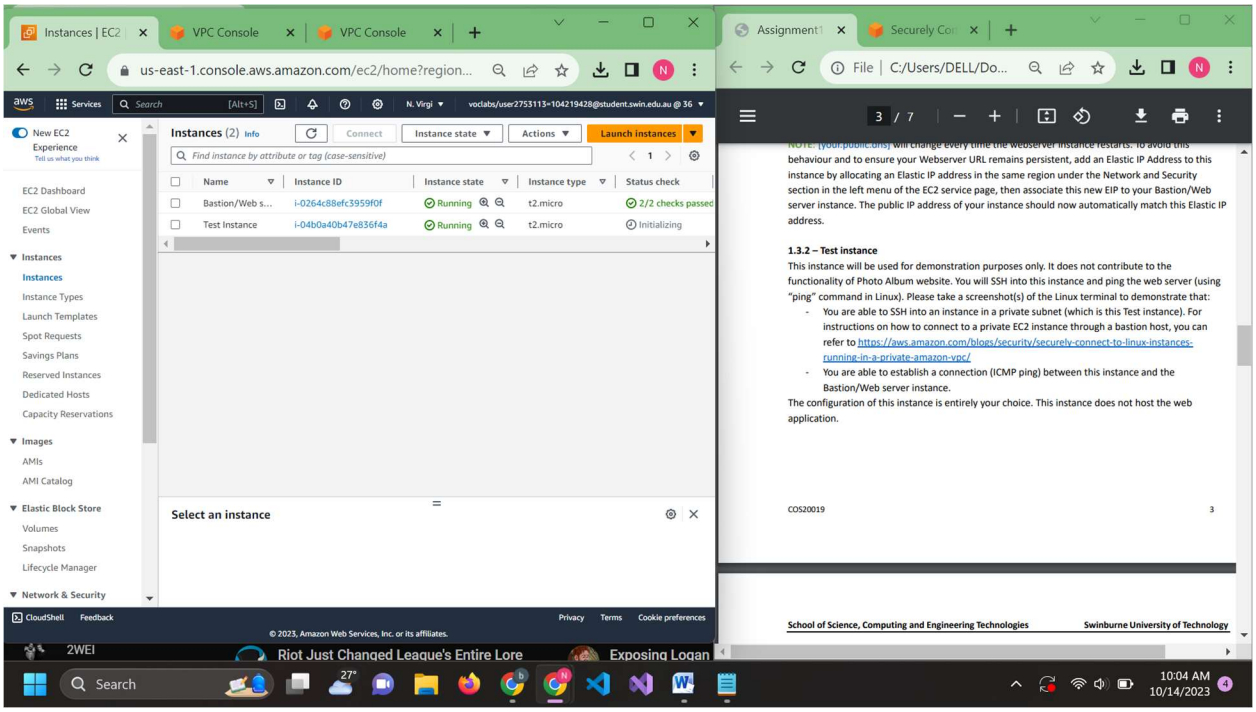
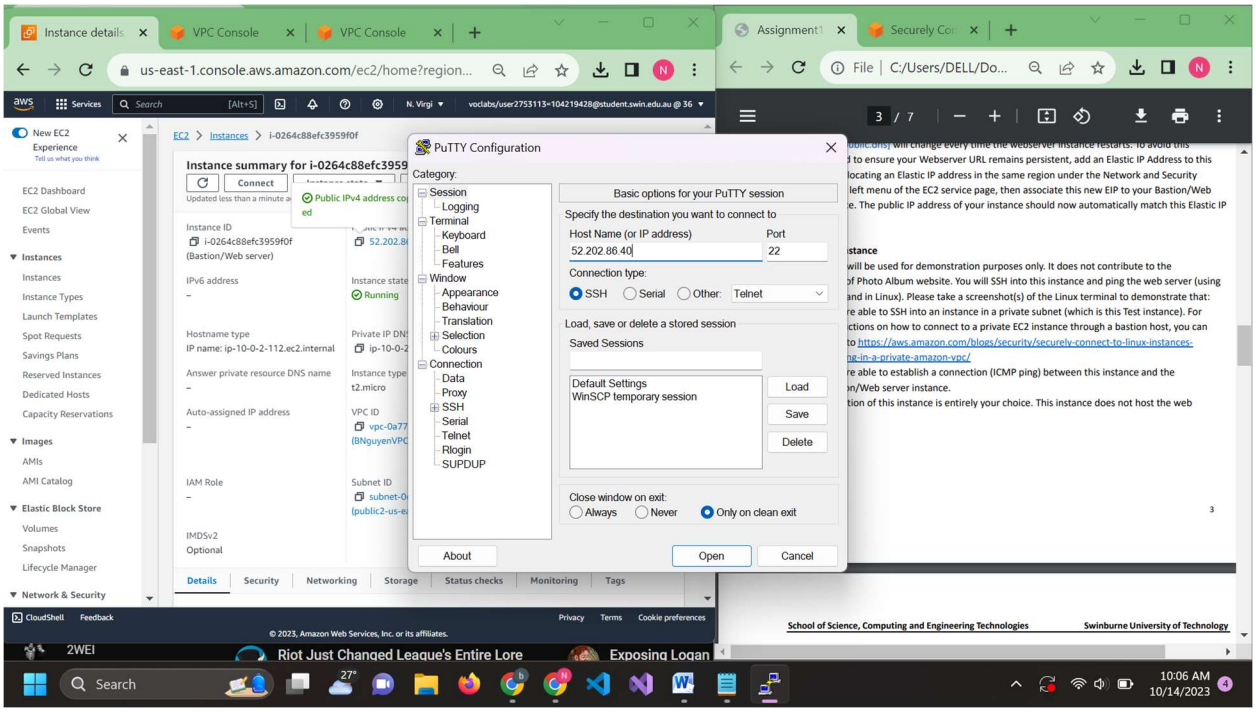


4.2.2: Test it using putty

Copy Bastion public IPV4 and use it as hostname



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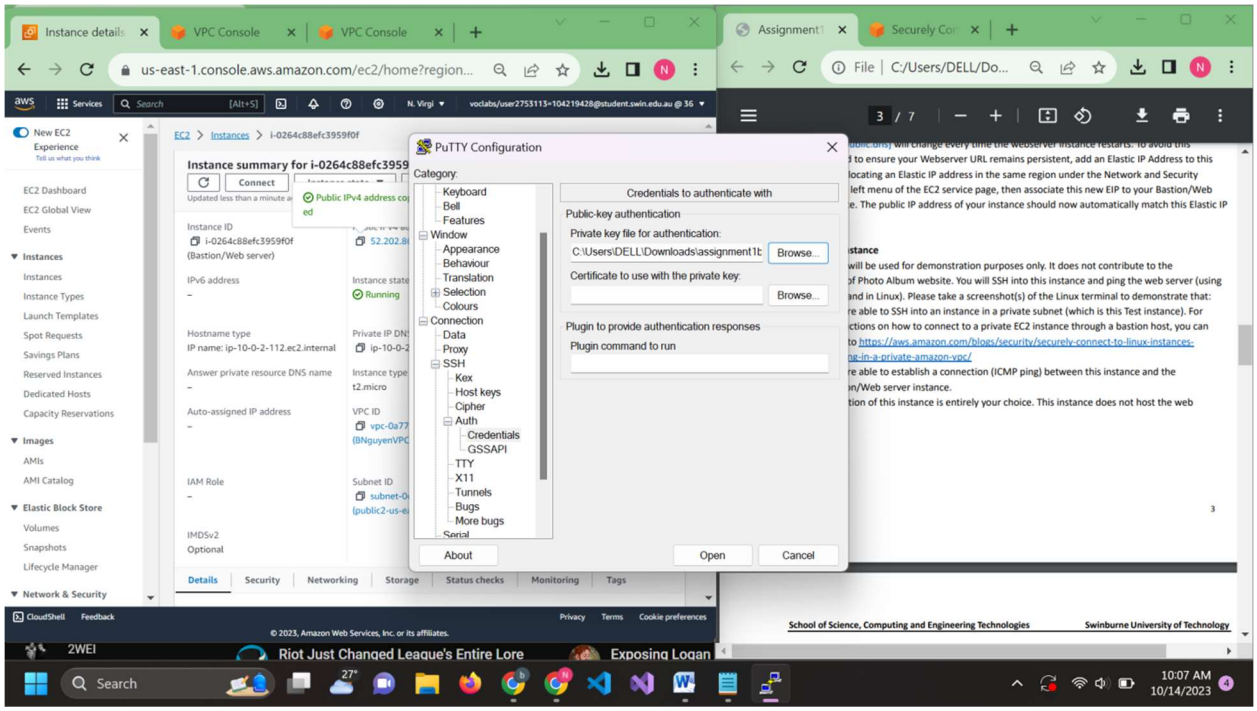
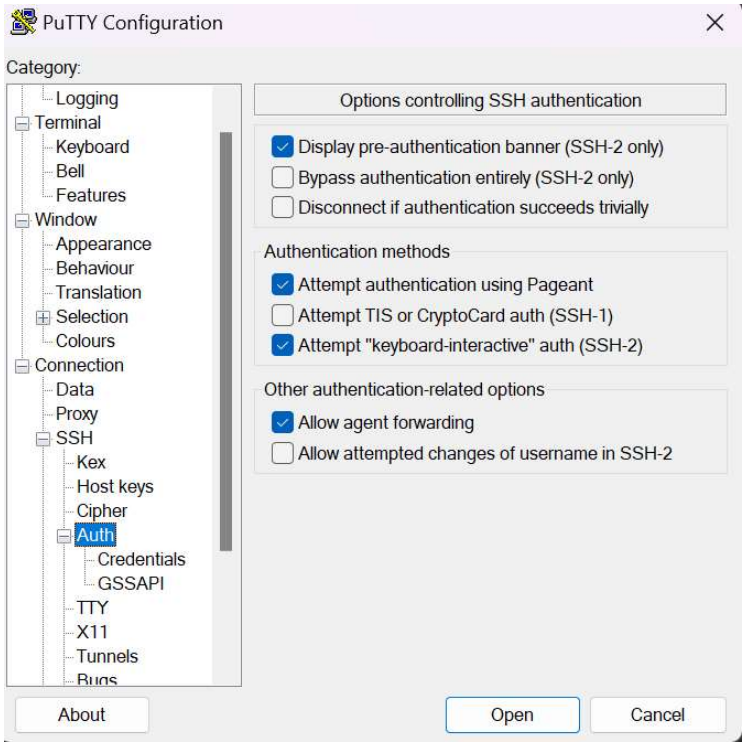
Use the keypair u created when creating Bastion





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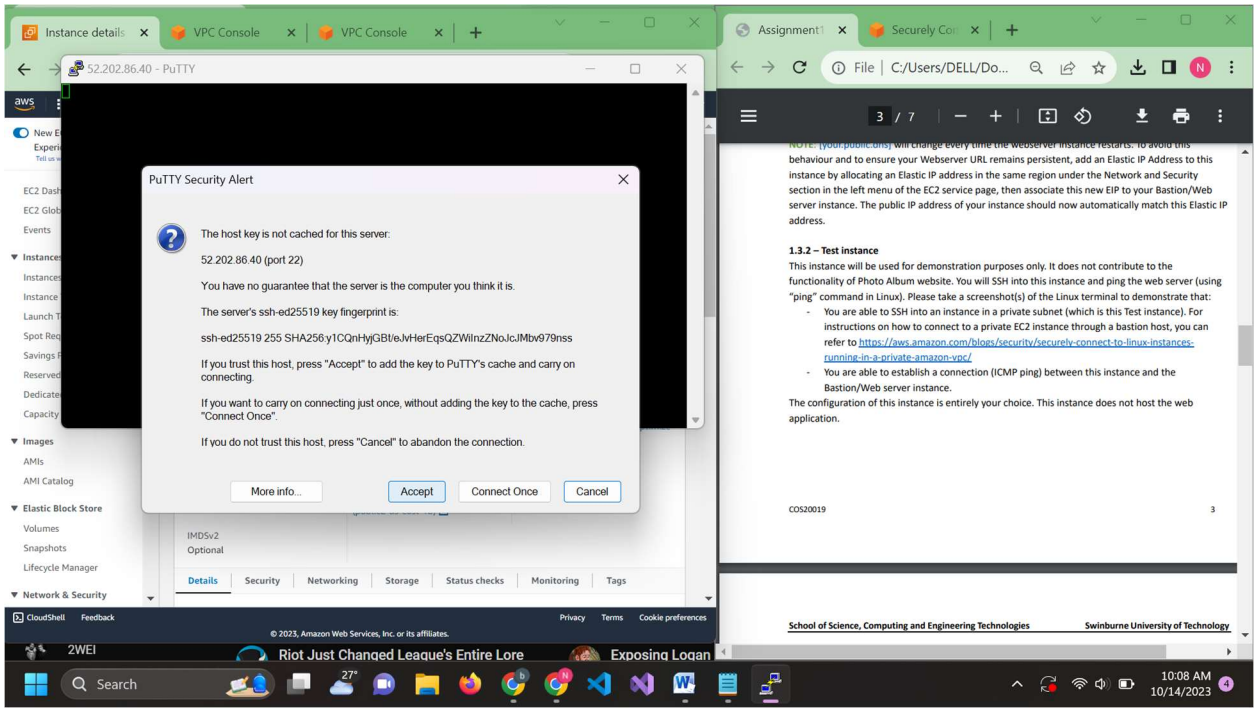
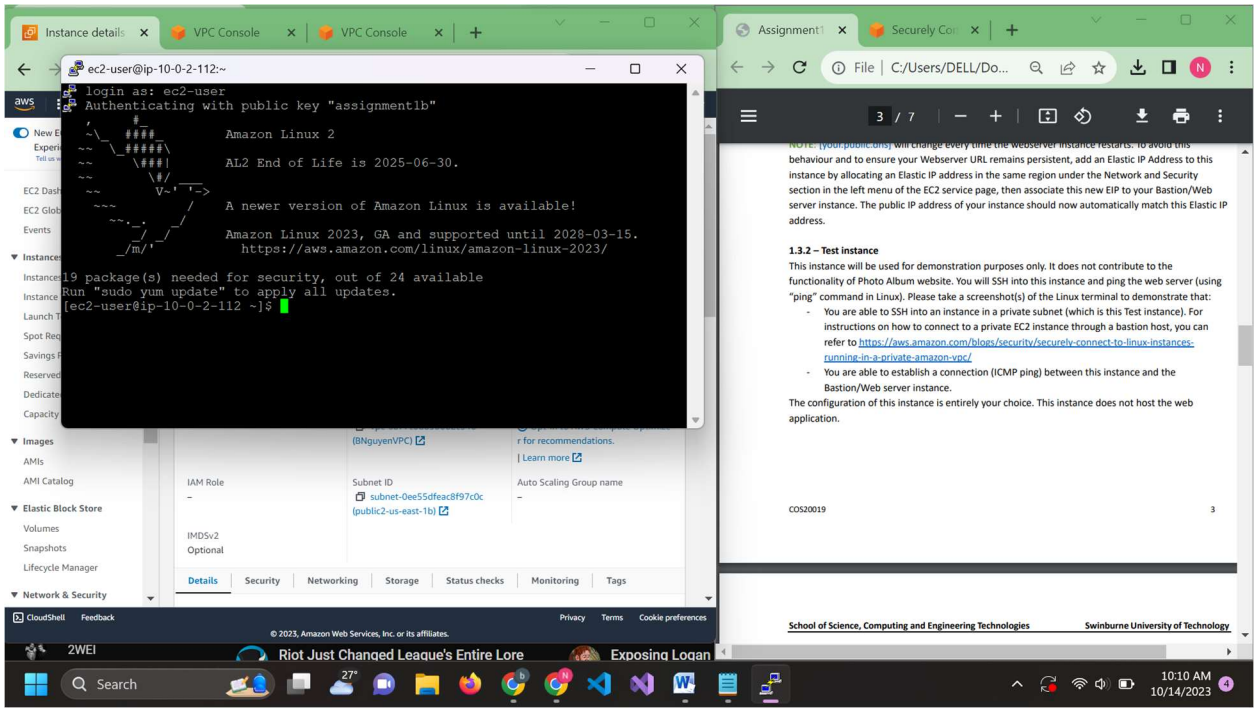
Accept





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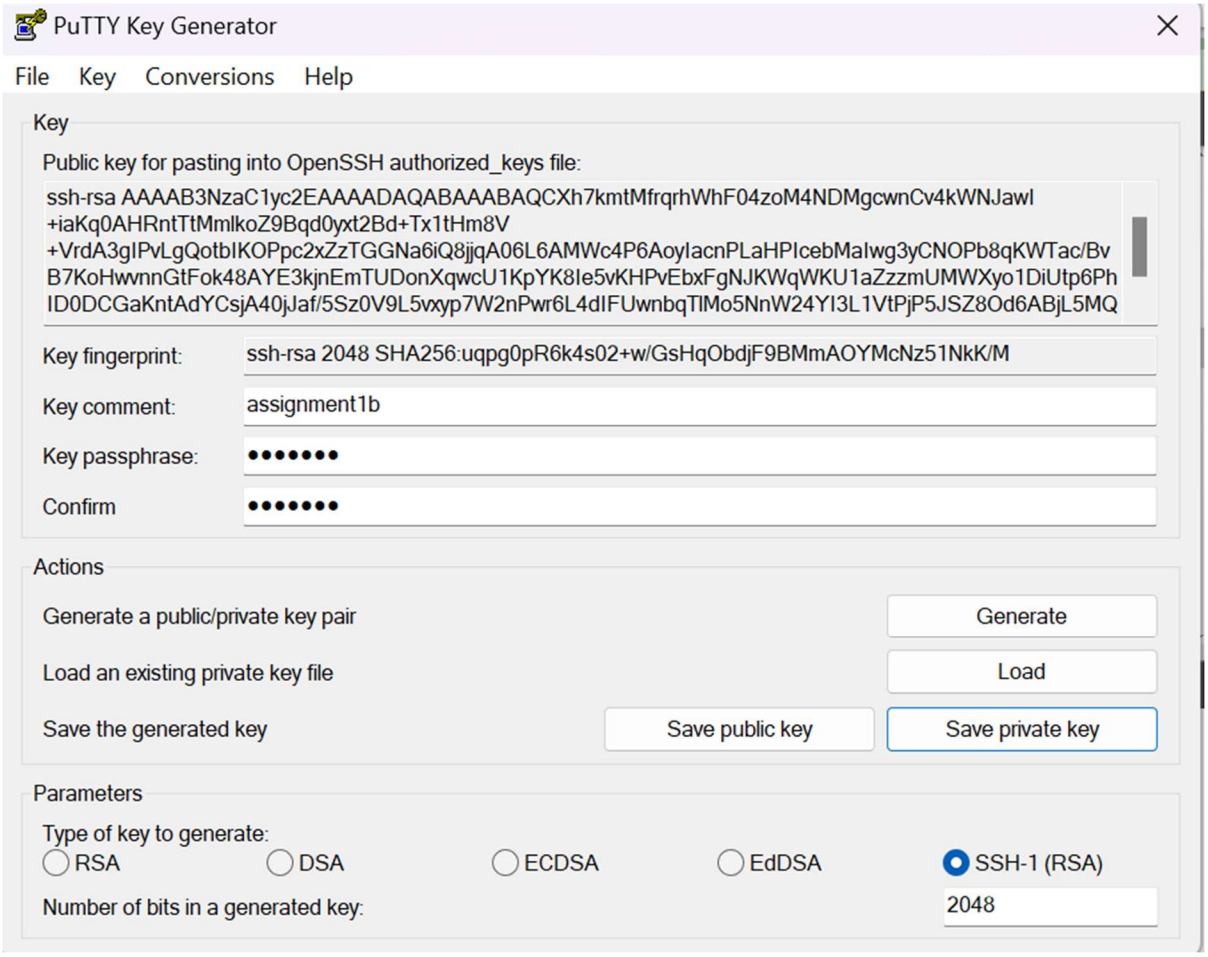
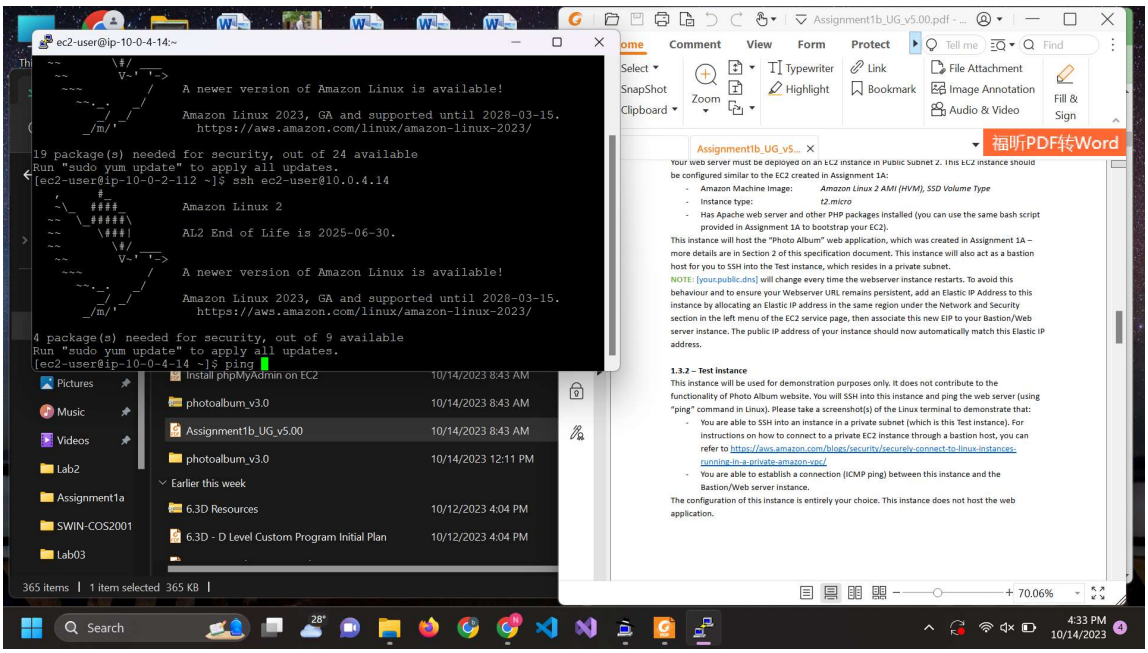
Go into puttyGen convert the created key



Go into putty and enter ssh ec2-user@10.0.4.14 (10.0.4.14 is the Test instance private ipv4)



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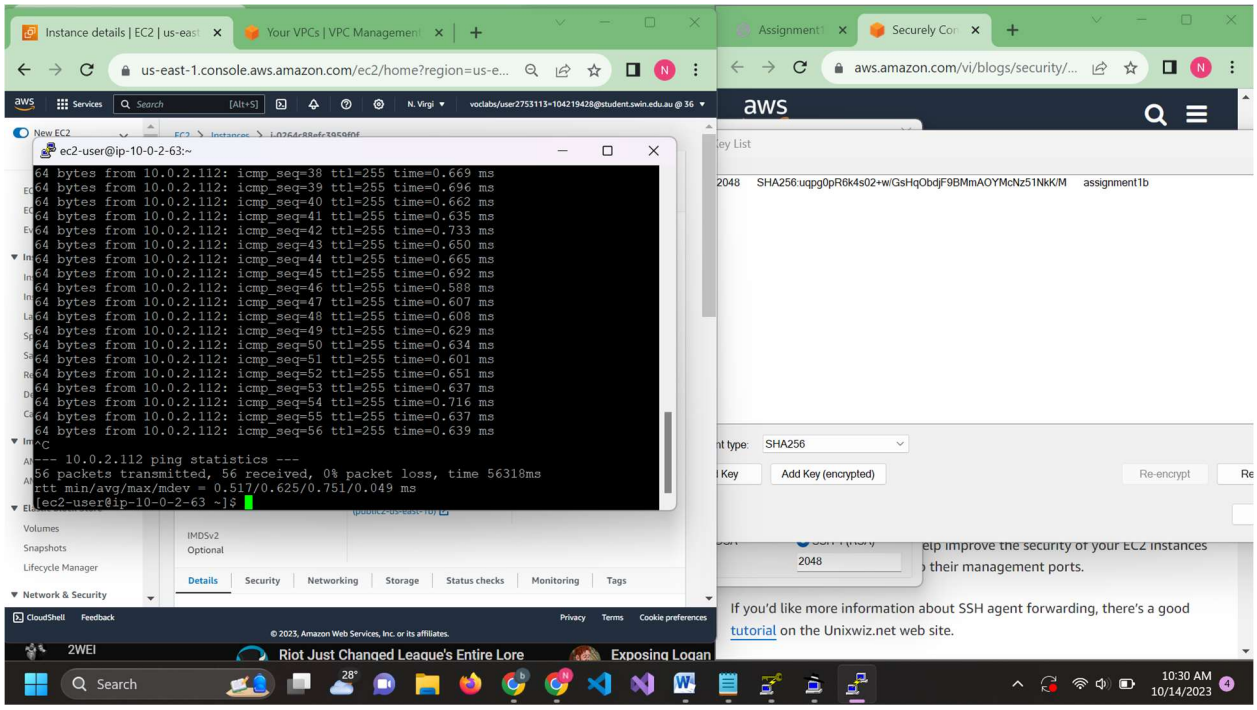
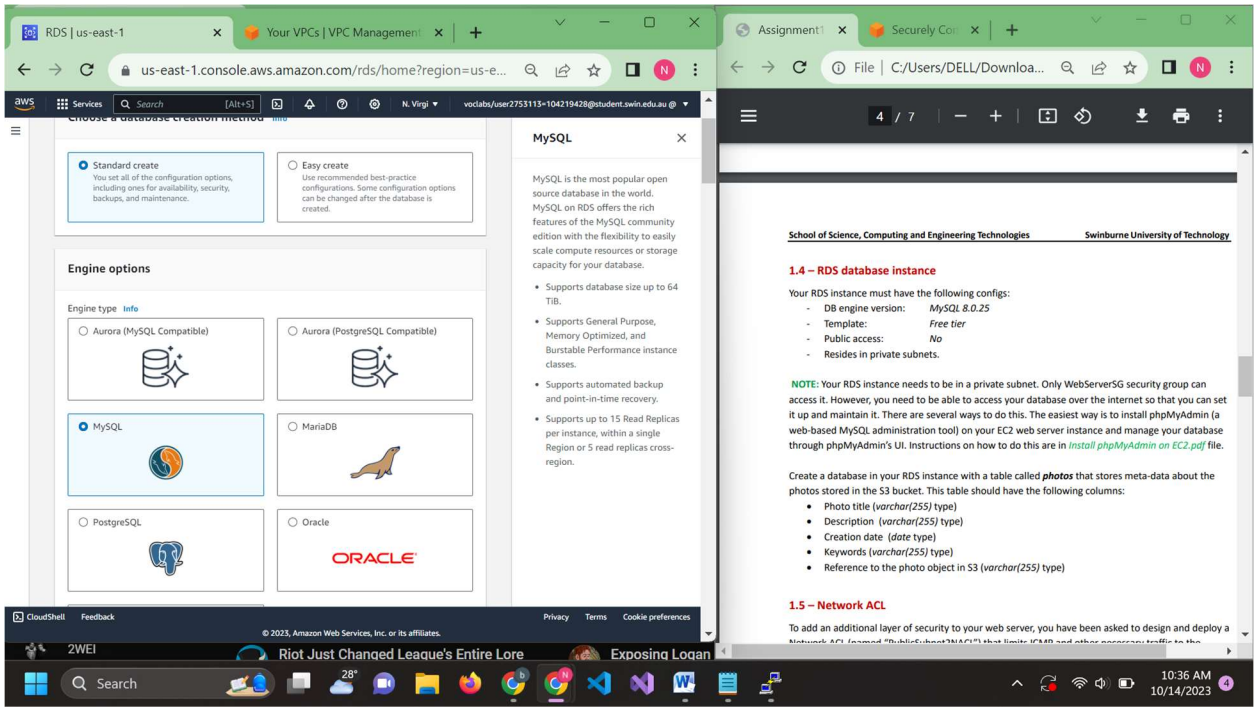
Ping Bastion using it private IPv4



Step 5: crate RDS database instance



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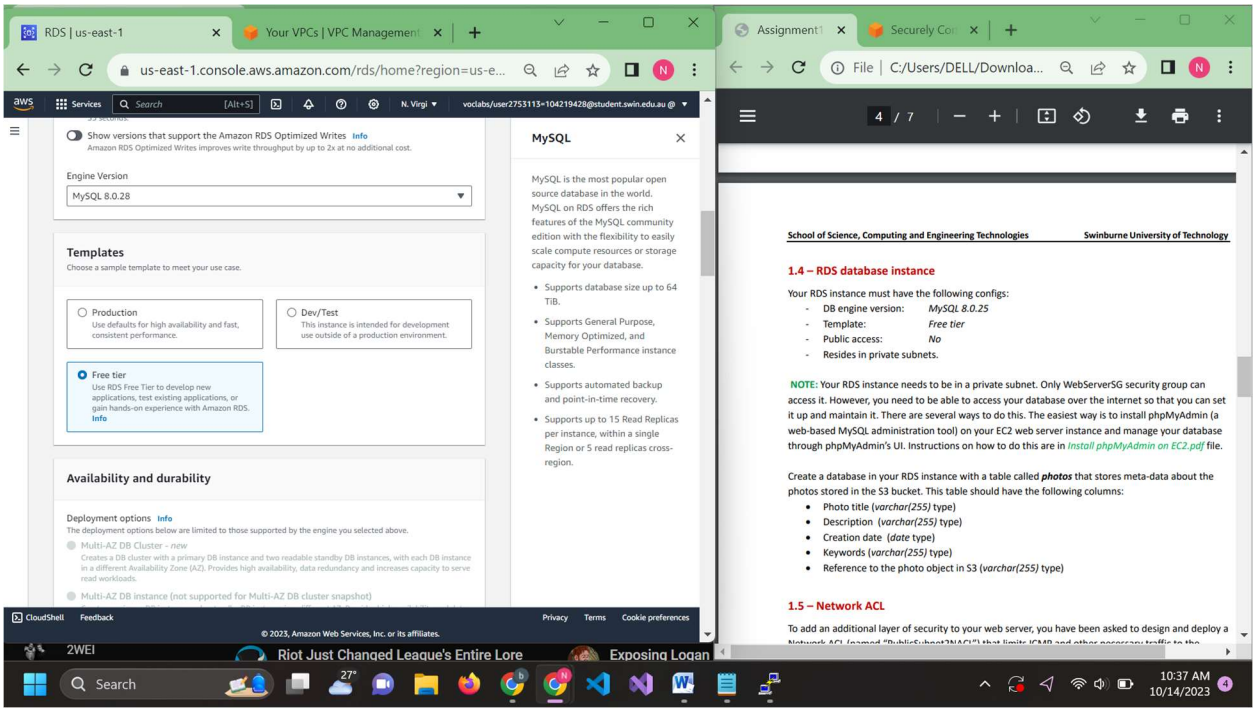
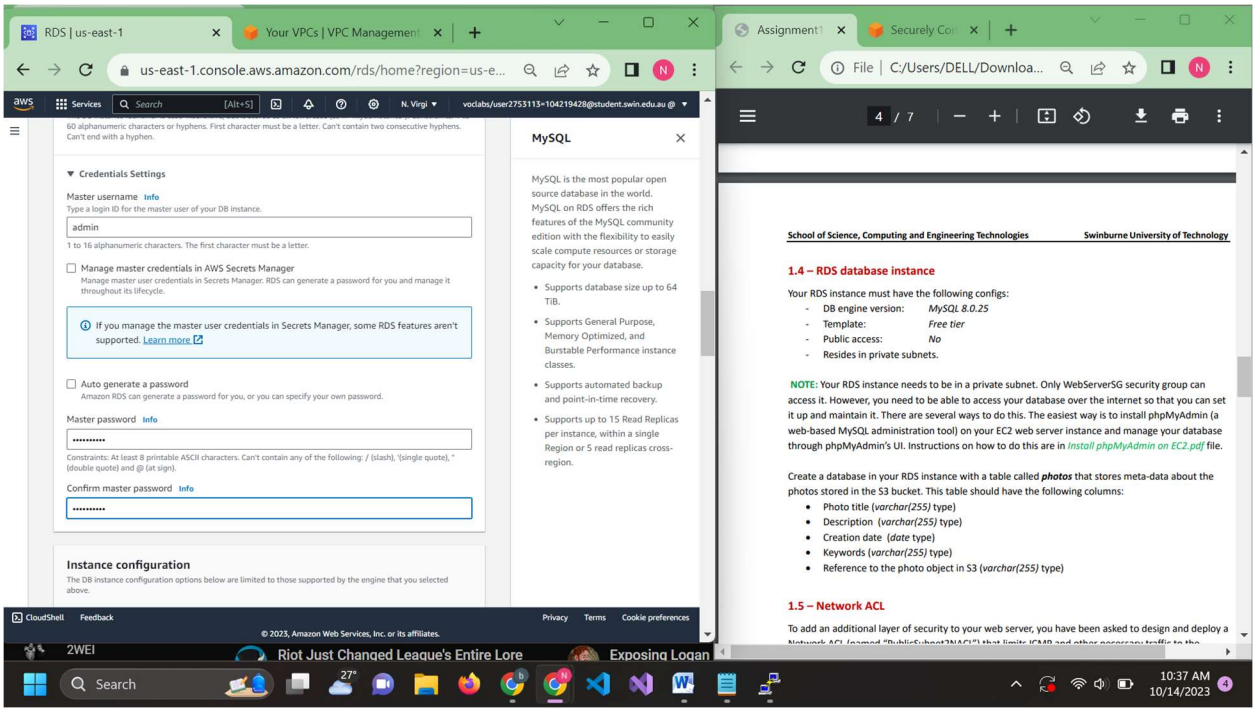


User: admin

Password: lickmya707



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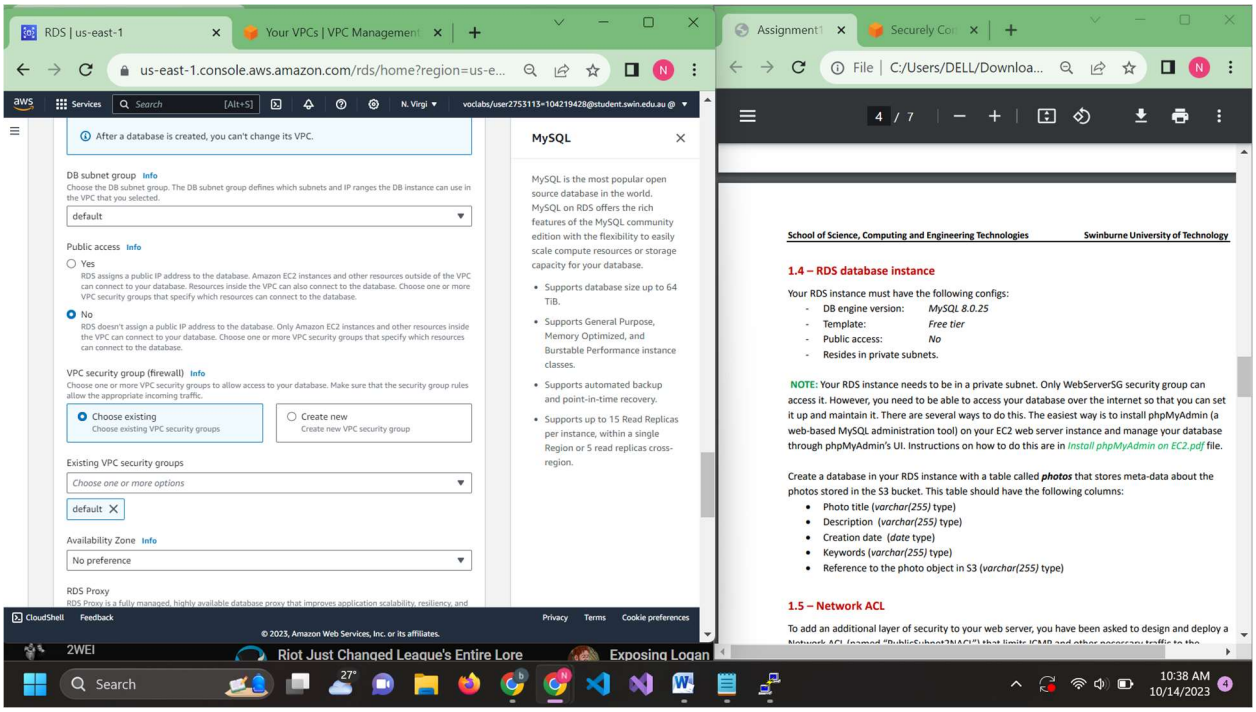
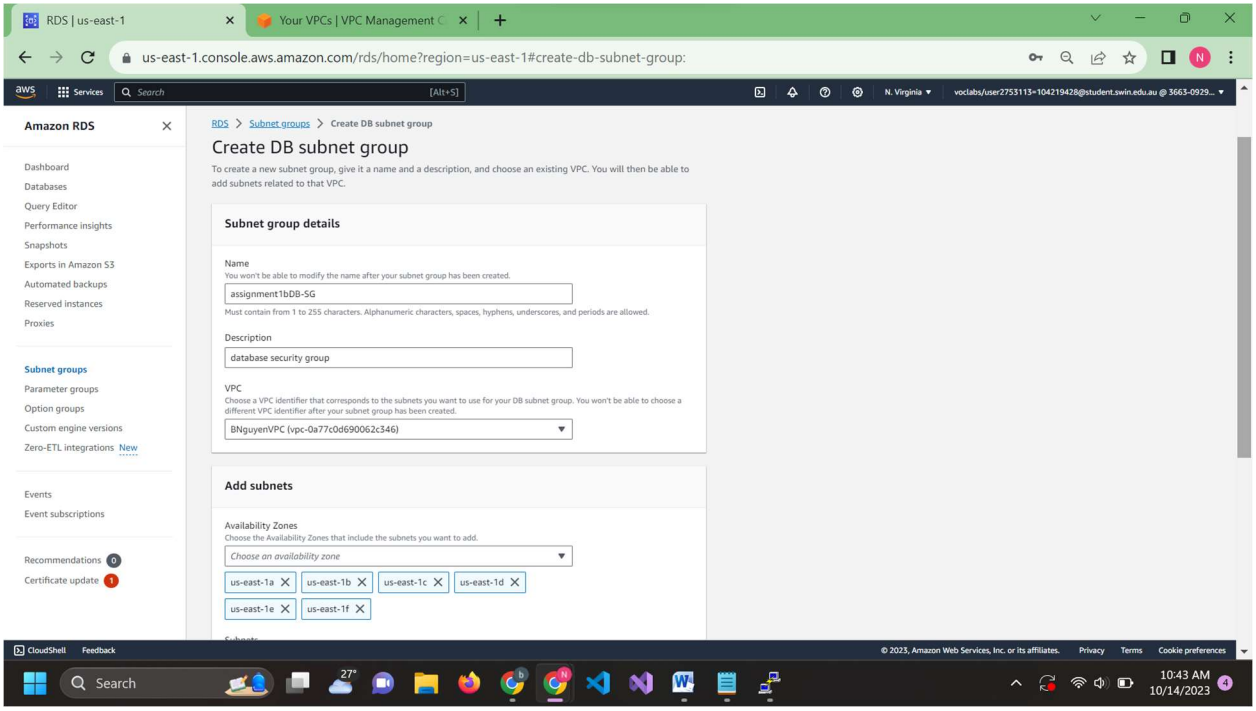


So I forgot to config subnet and put it in the database so let create the subnet group first



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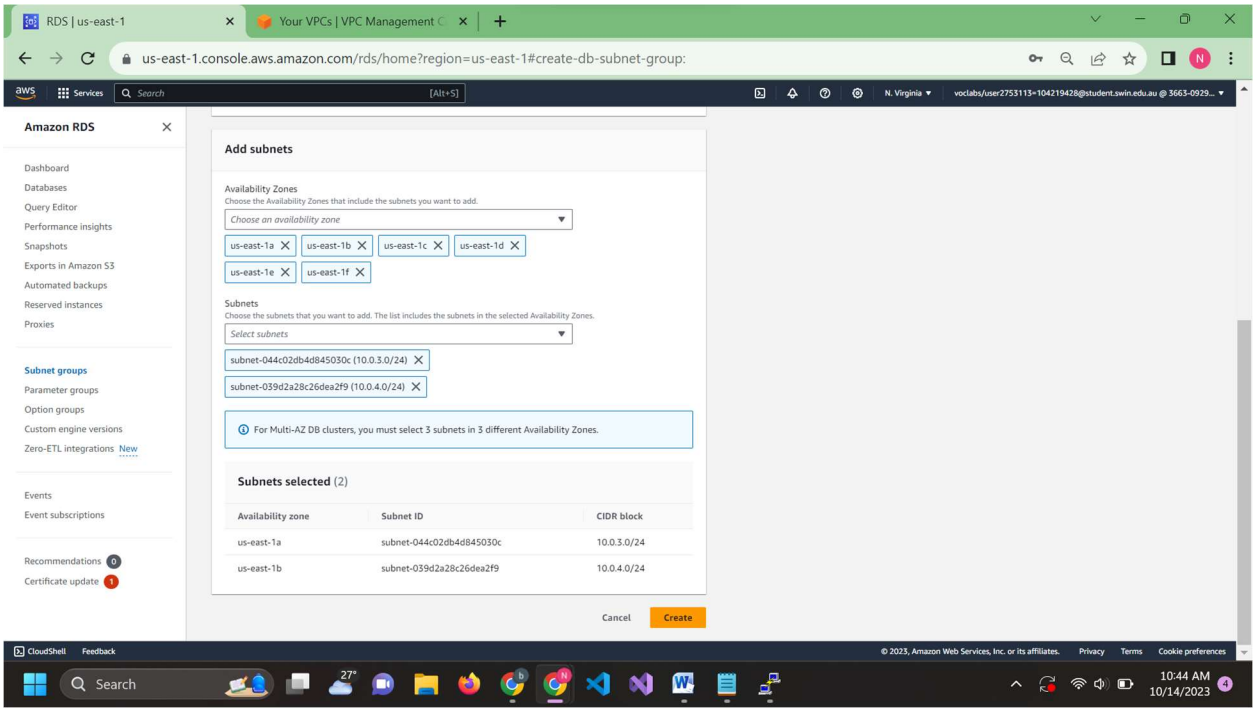
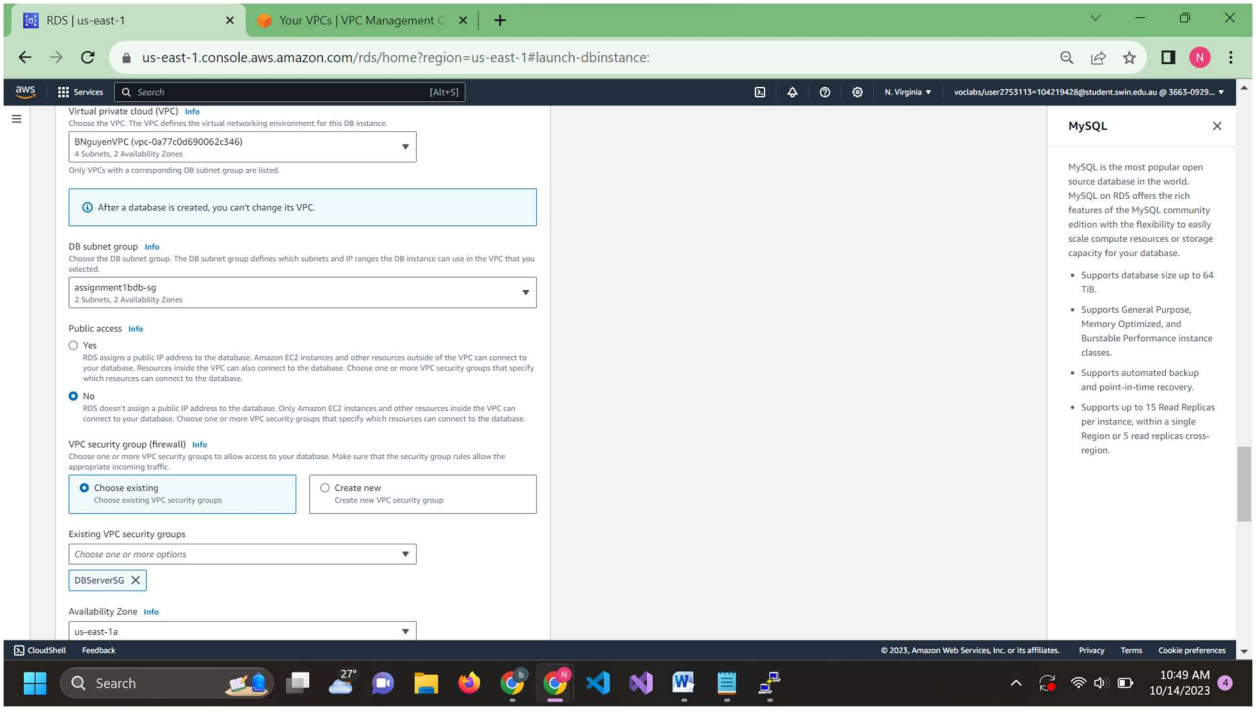
Select all the correspond private subnet



Config the database again but change the connectivity section



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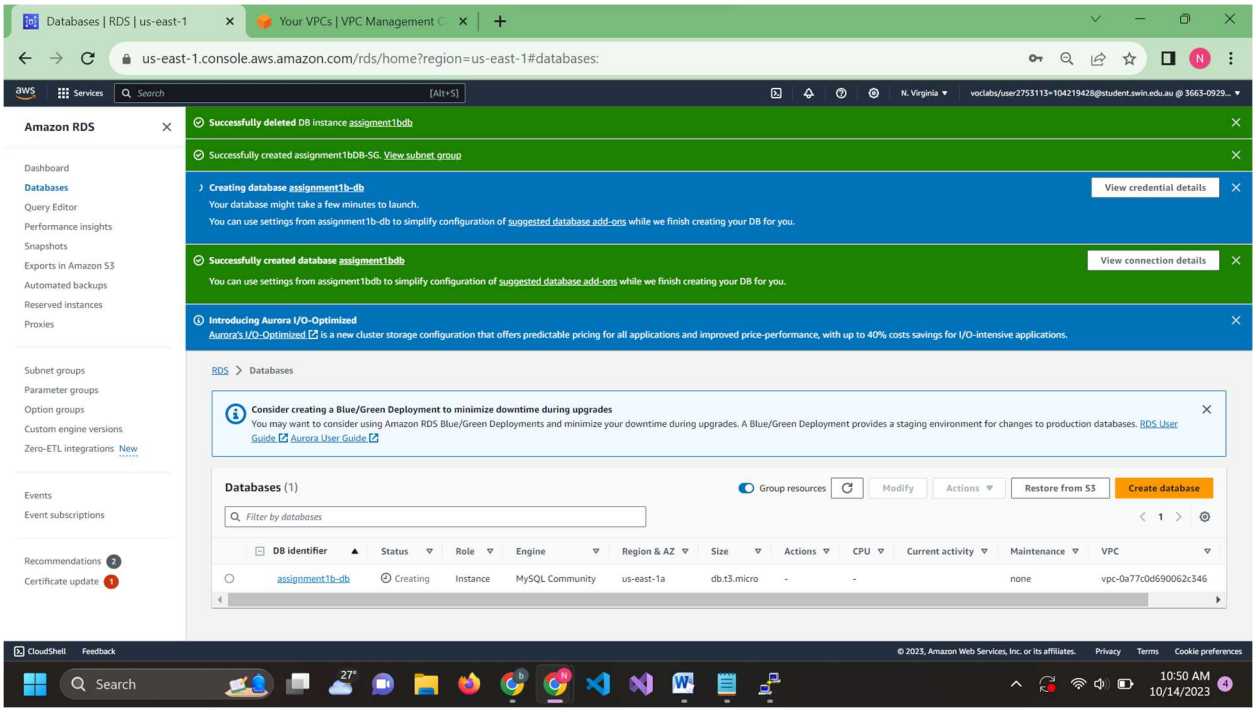
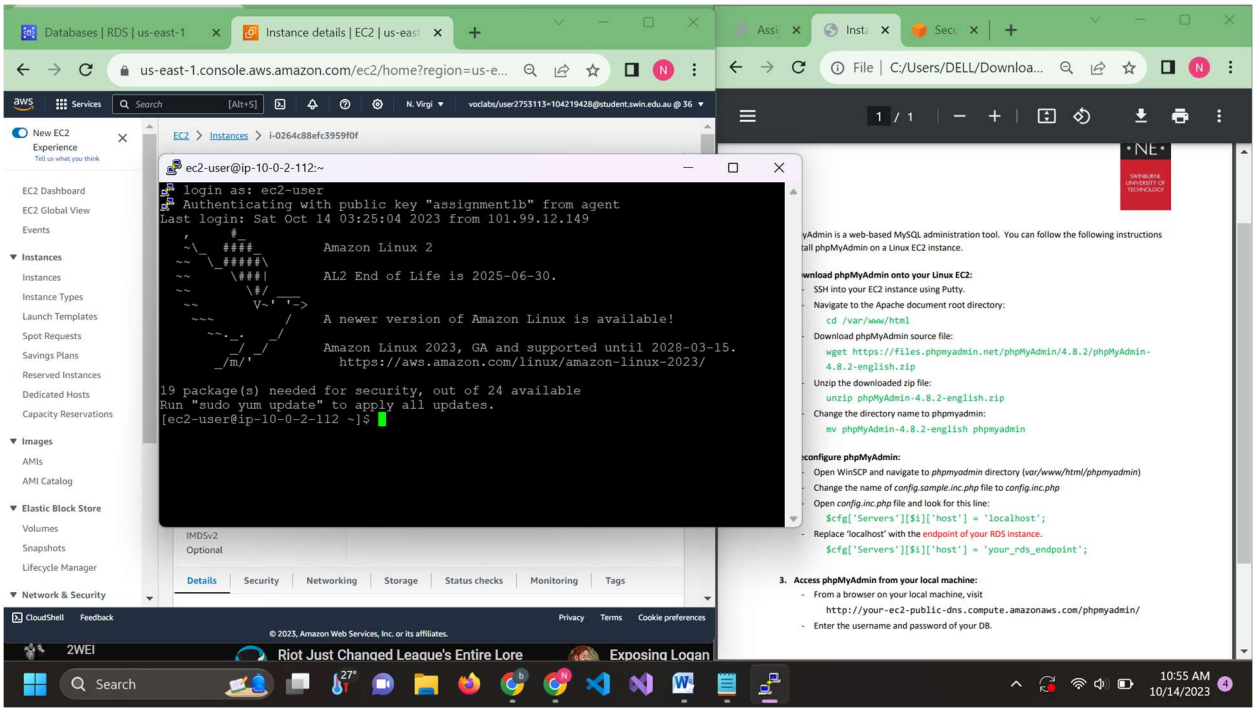


Access Putty again this time use Bastion public ipv4



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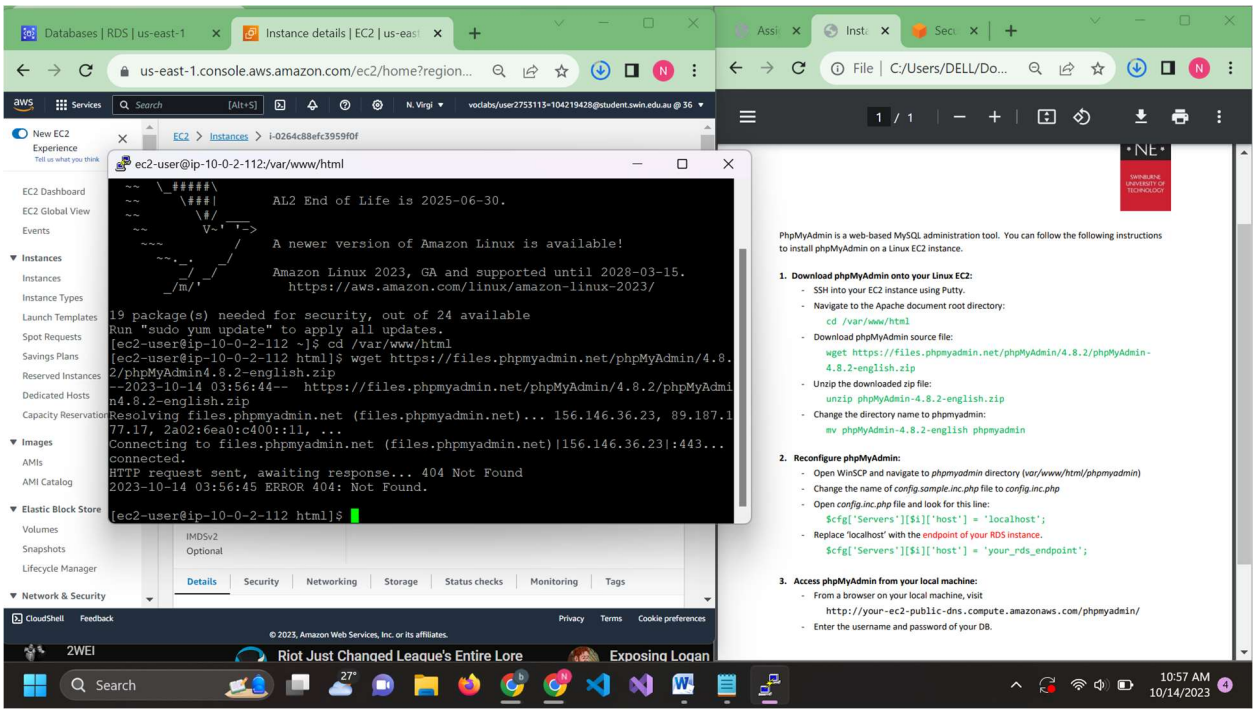
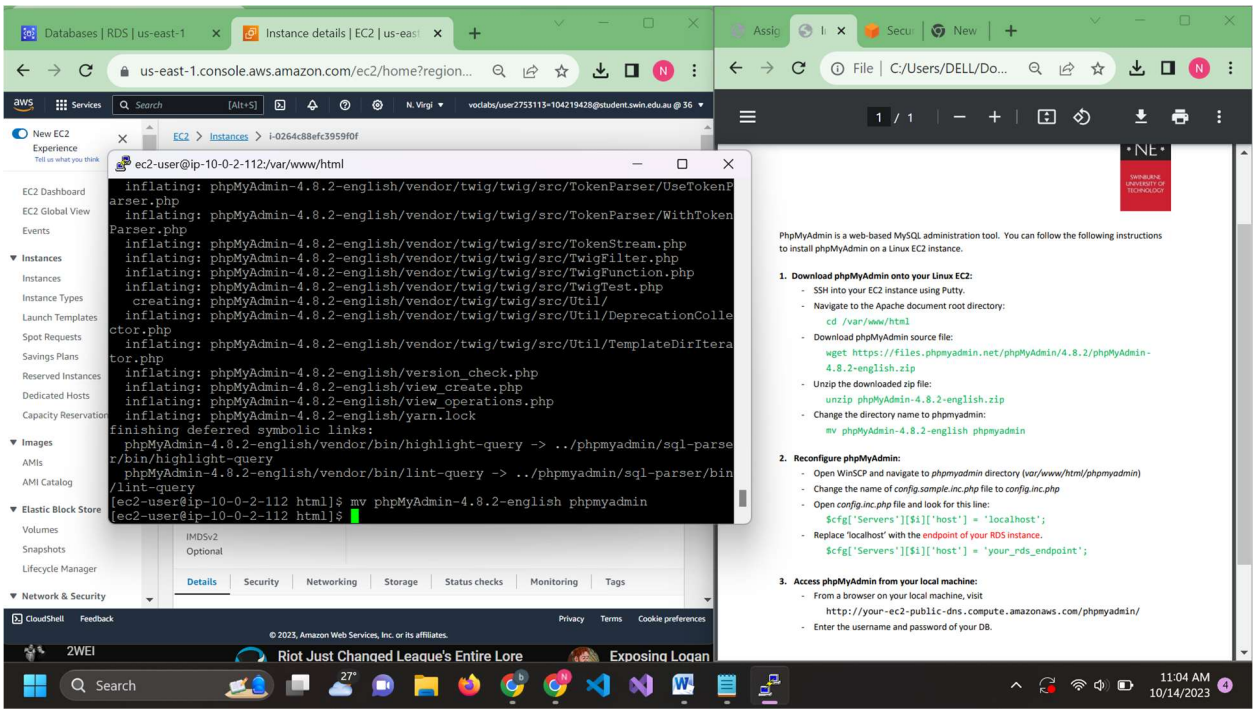
To fix this u need to copy the directory from the pdf into a text editor so the “-“ is not missing(I forgot to take the screenshot of that)



Unzip the file



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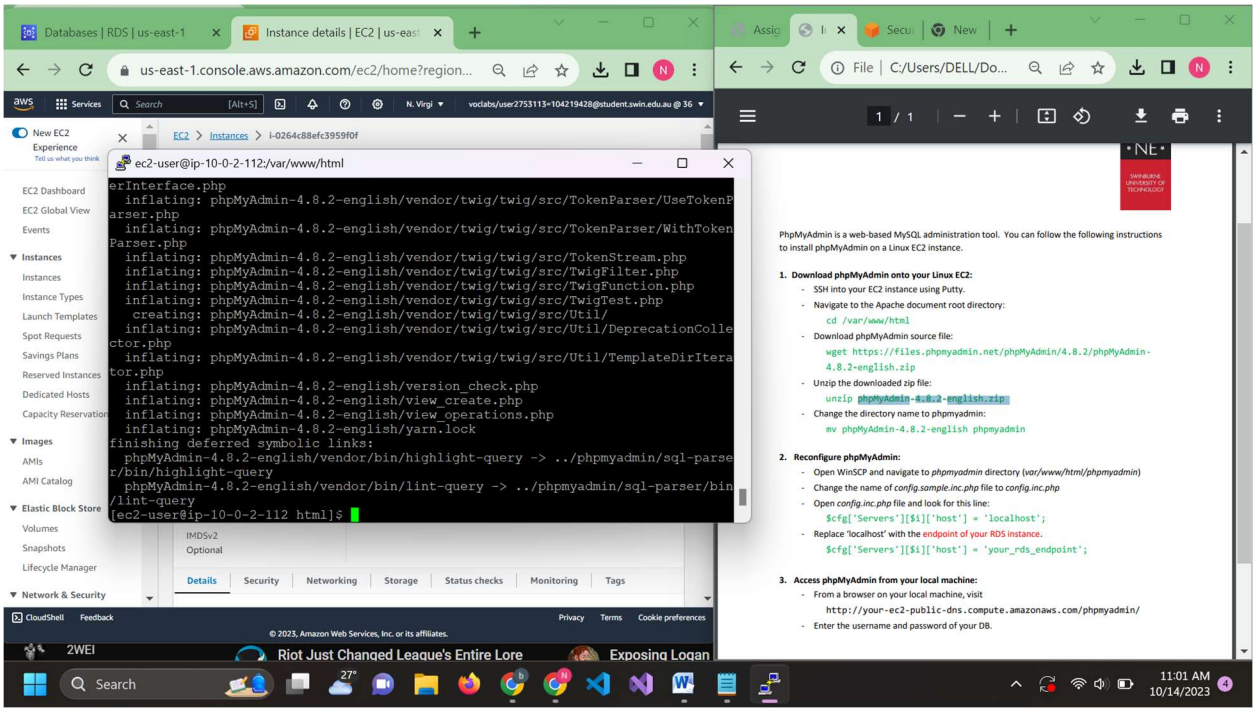
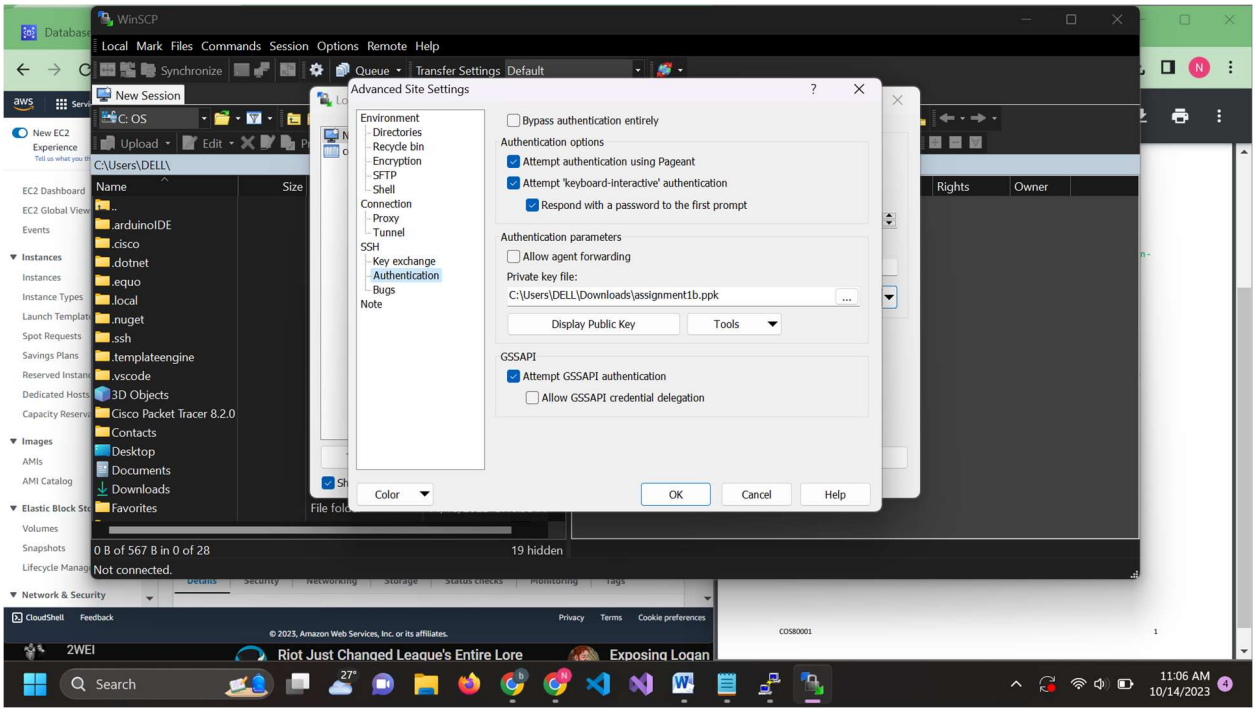


Go into WinSCP to access the Bastion using public DNS



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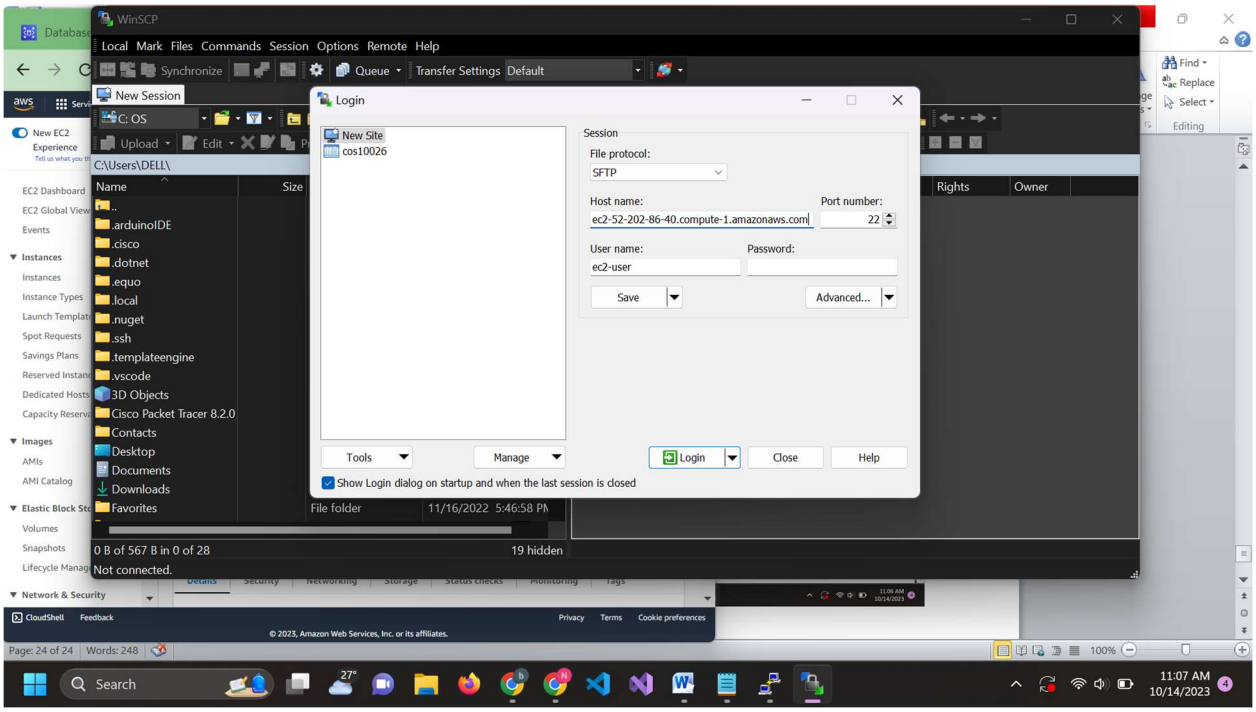

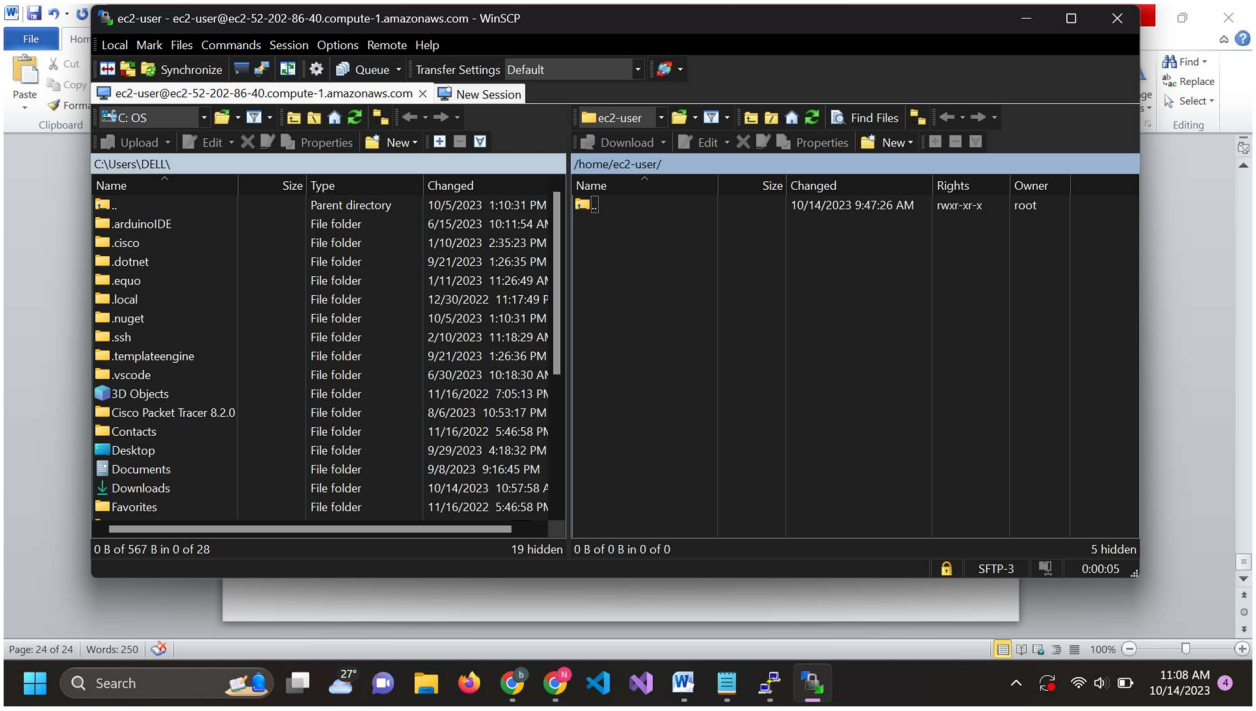

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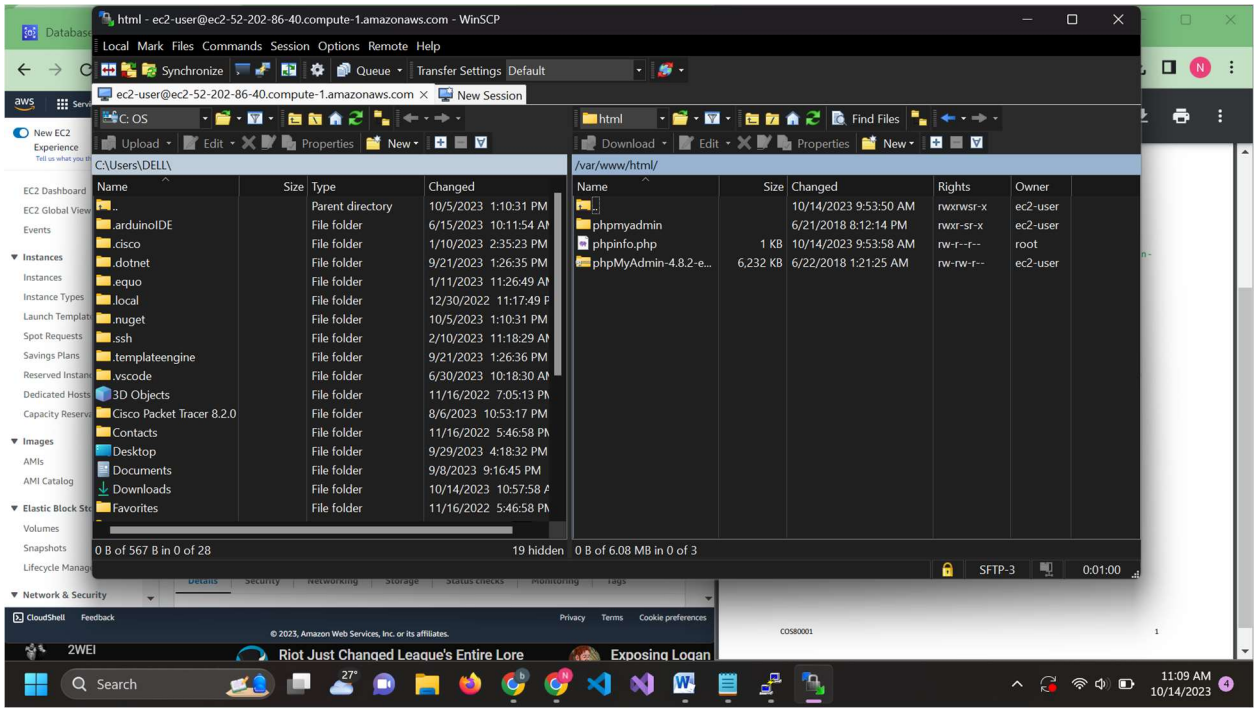
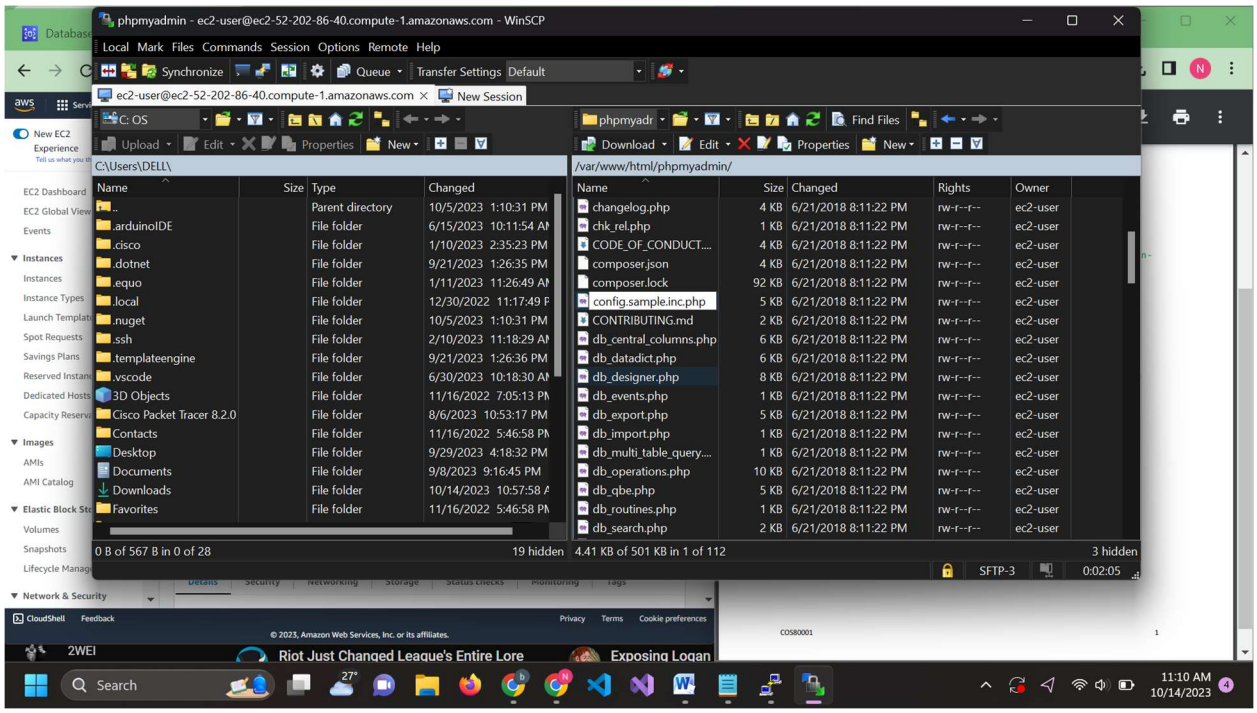
Access this directory



Change config.sample.inc.php to config.inc.php



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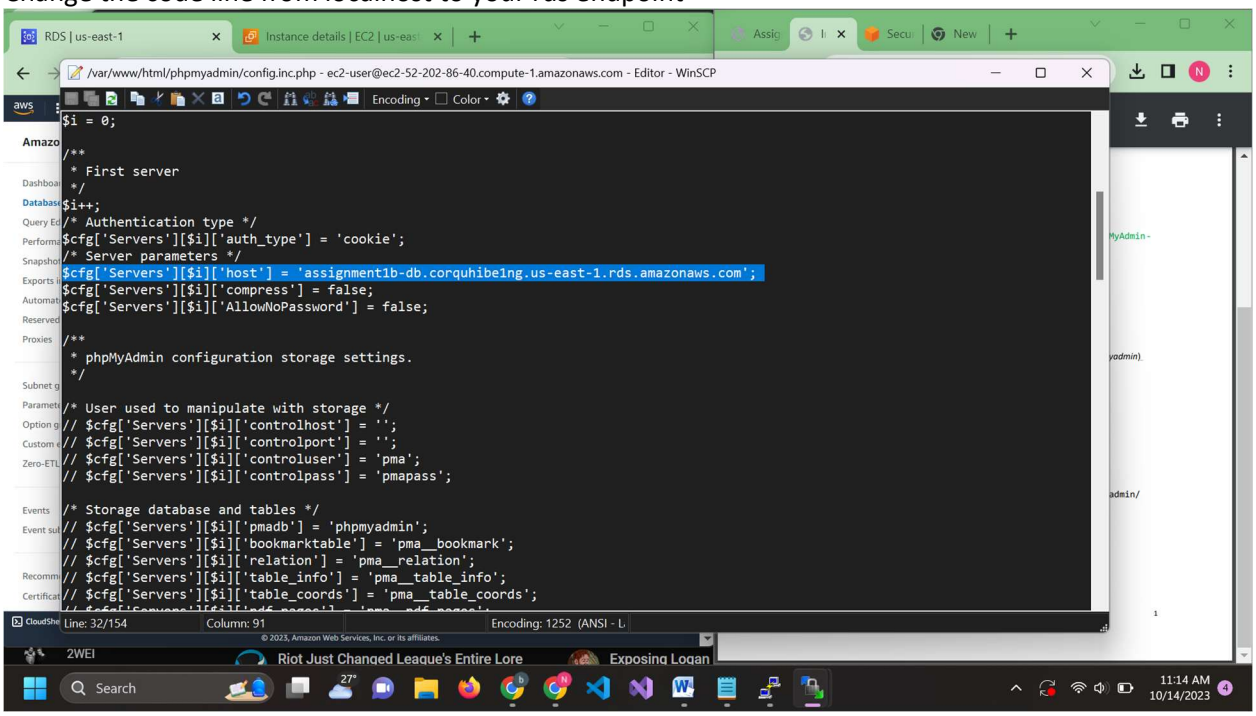
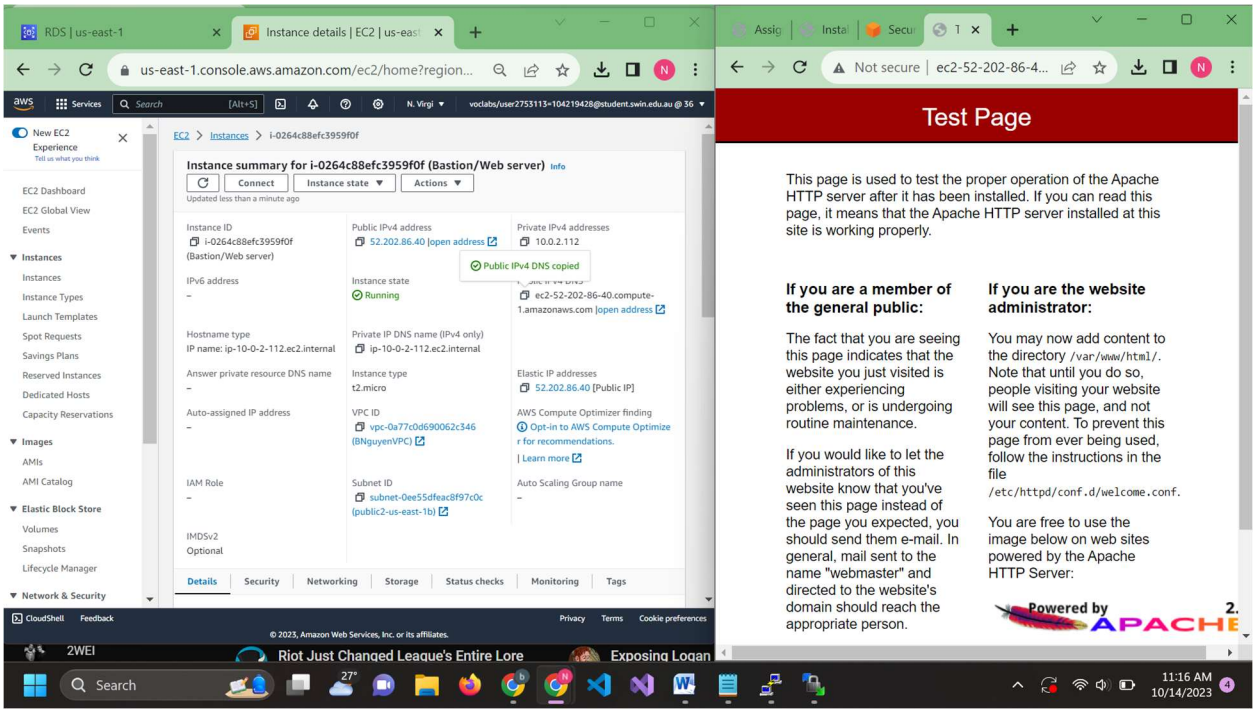
Change the code line from localhost to your rds endpoint



Enter using your public dns to test if it working(I'm not sure why I don't have to enter password for my rds)



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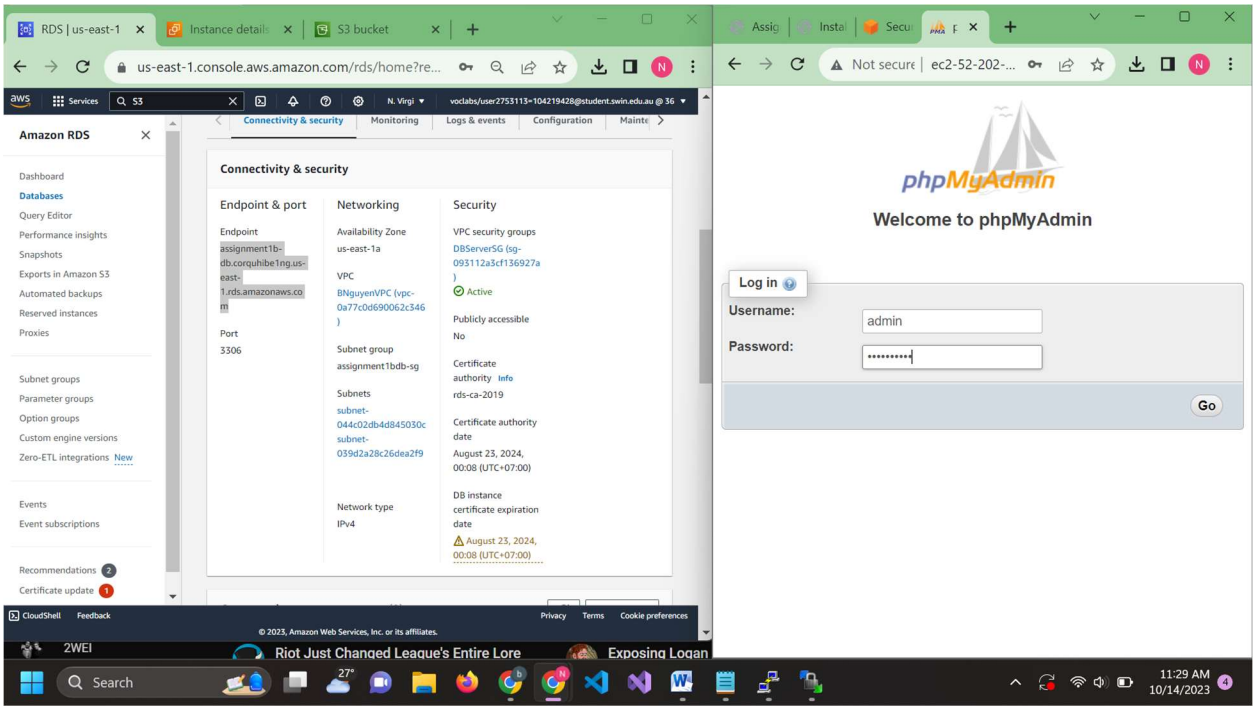
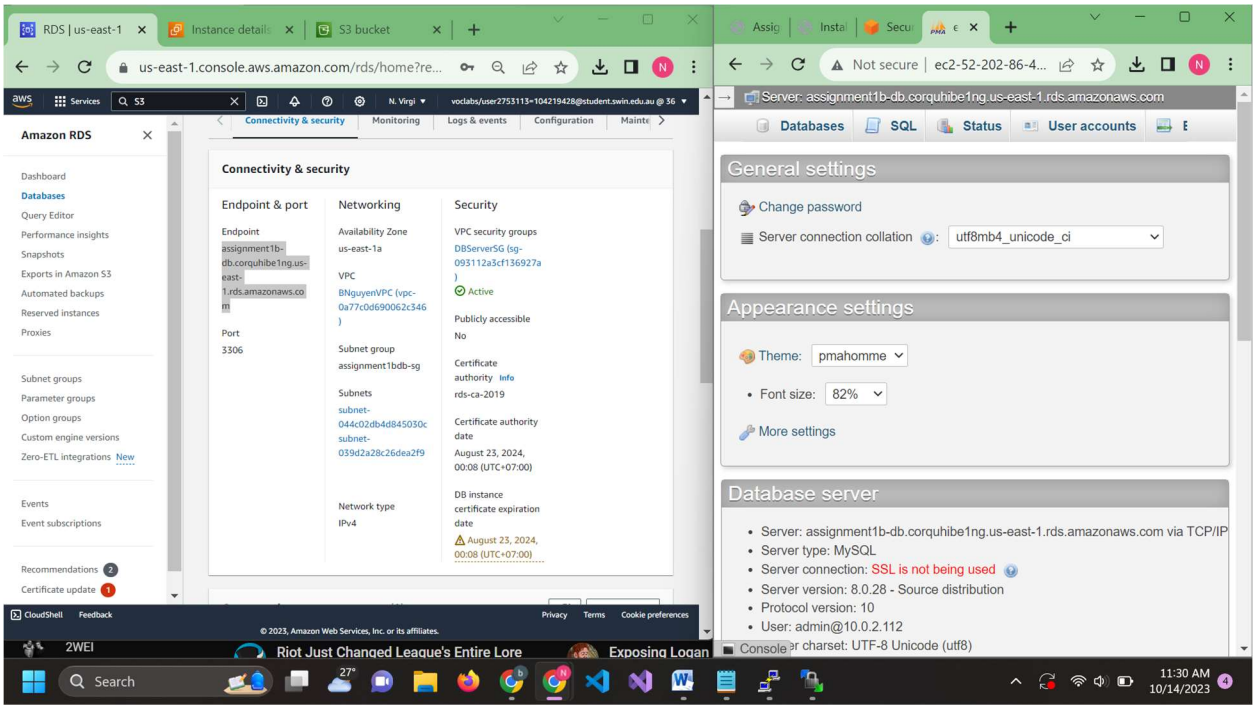
Endpoint link with /phpmyadmin : http://ec2-52-202-86-40.compute-1.amazonaws.com/phpmyadmin/





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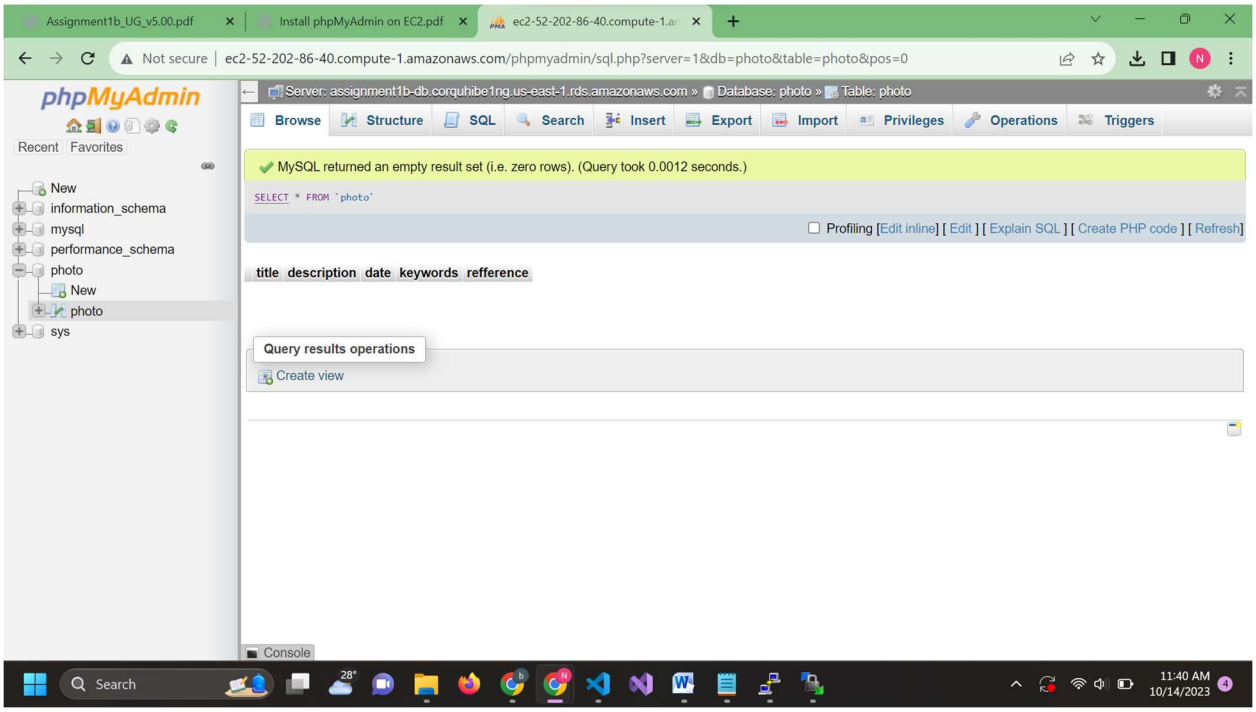

The table above is created using SQL command

CREATE TABLE photo (

title VARCHAR(255),

description VARCHAR(255),

date DATE

keywords VARCHAR(255),

refference VARCHAR(255),

);

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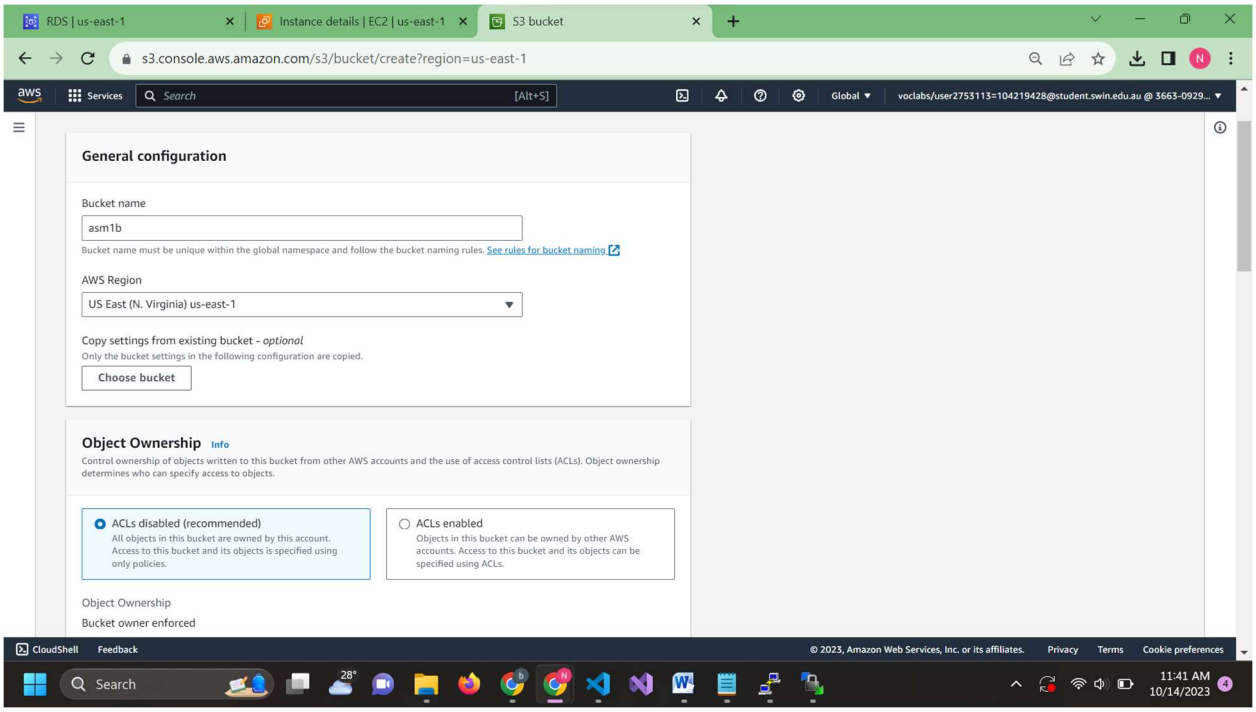
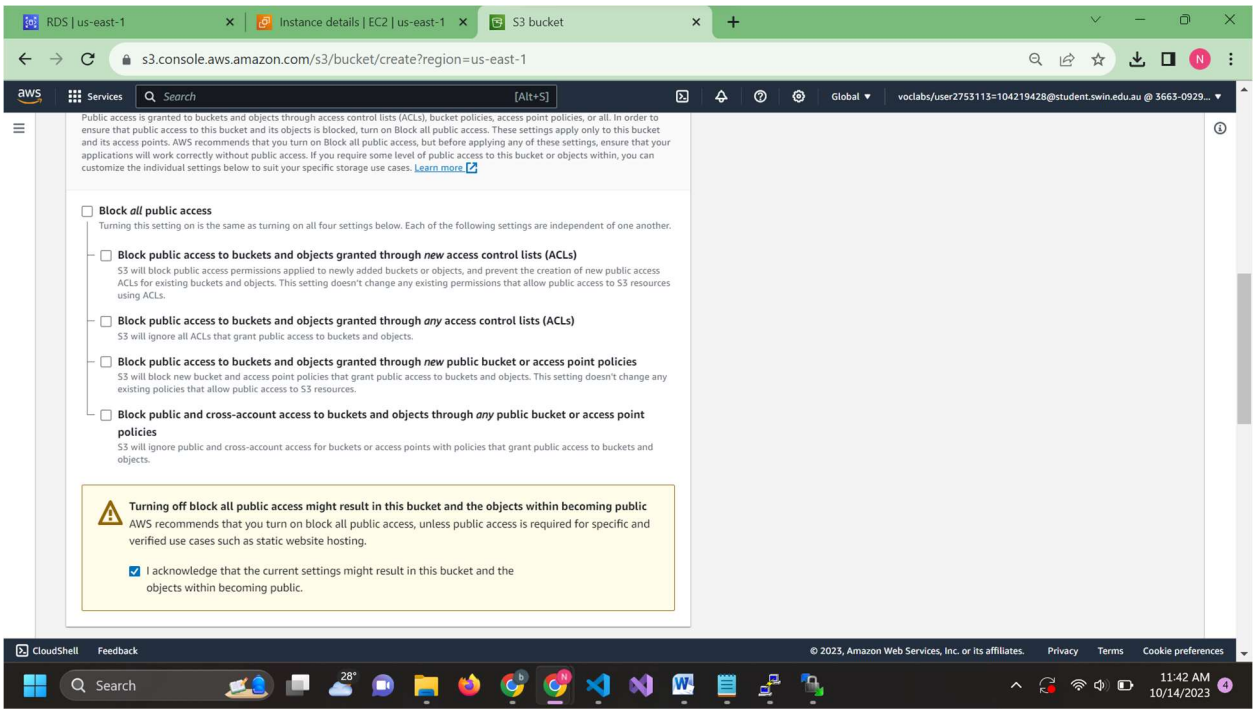
Step 6: Create S3 bucket





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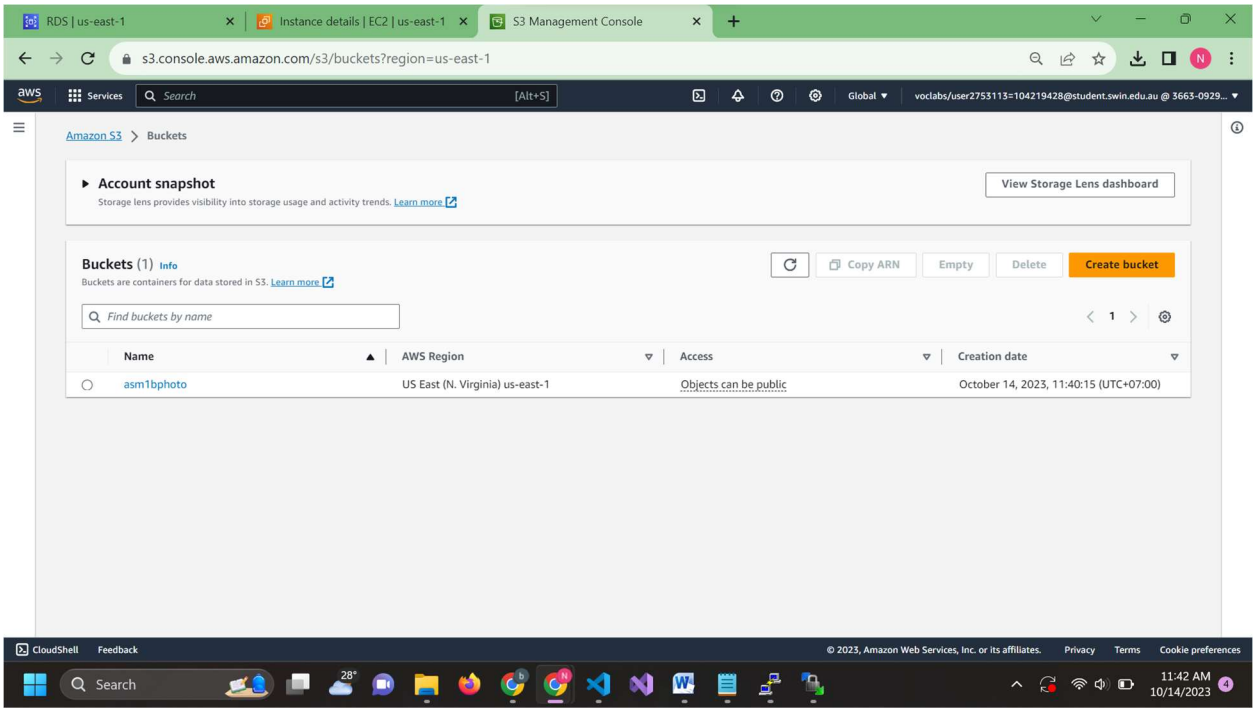
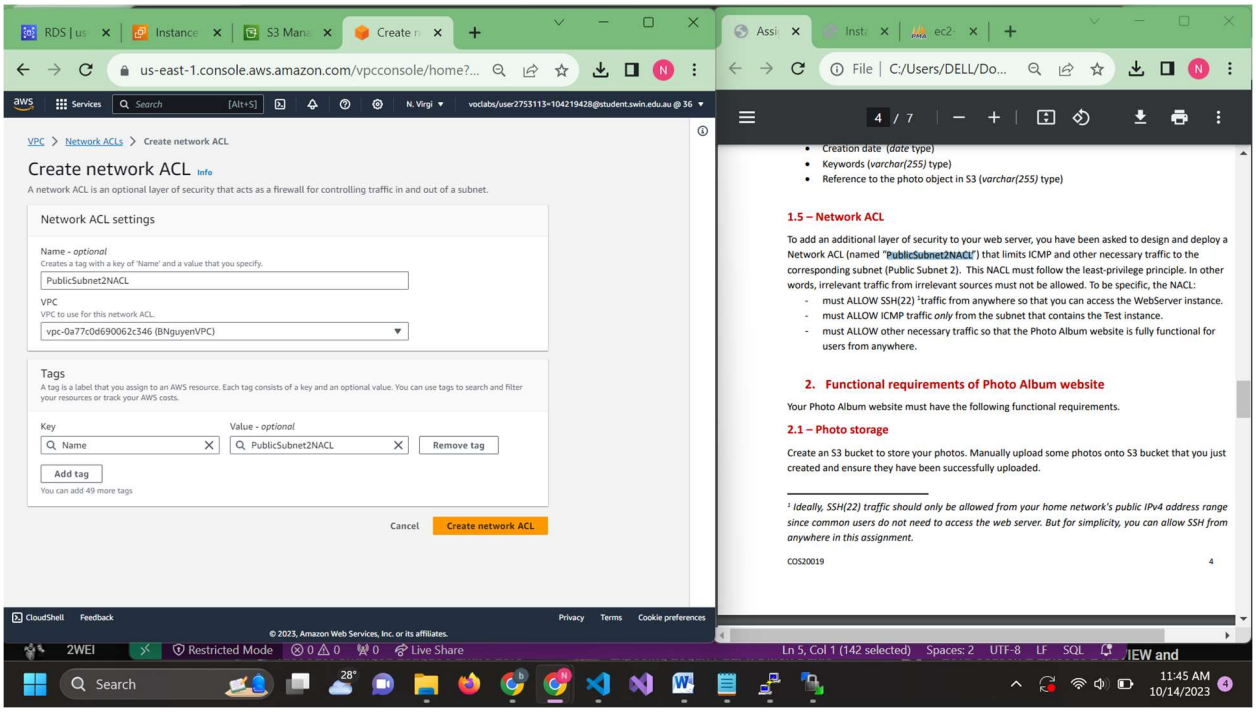


Step 7: Create network ACLs



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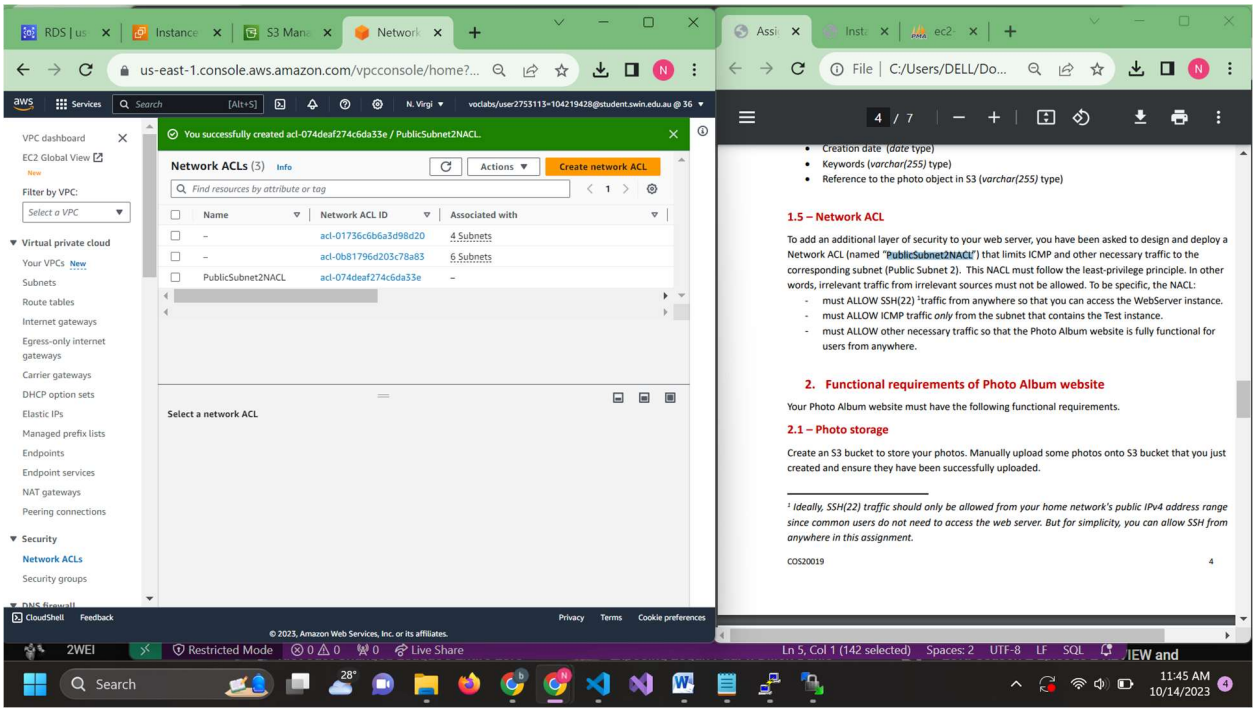
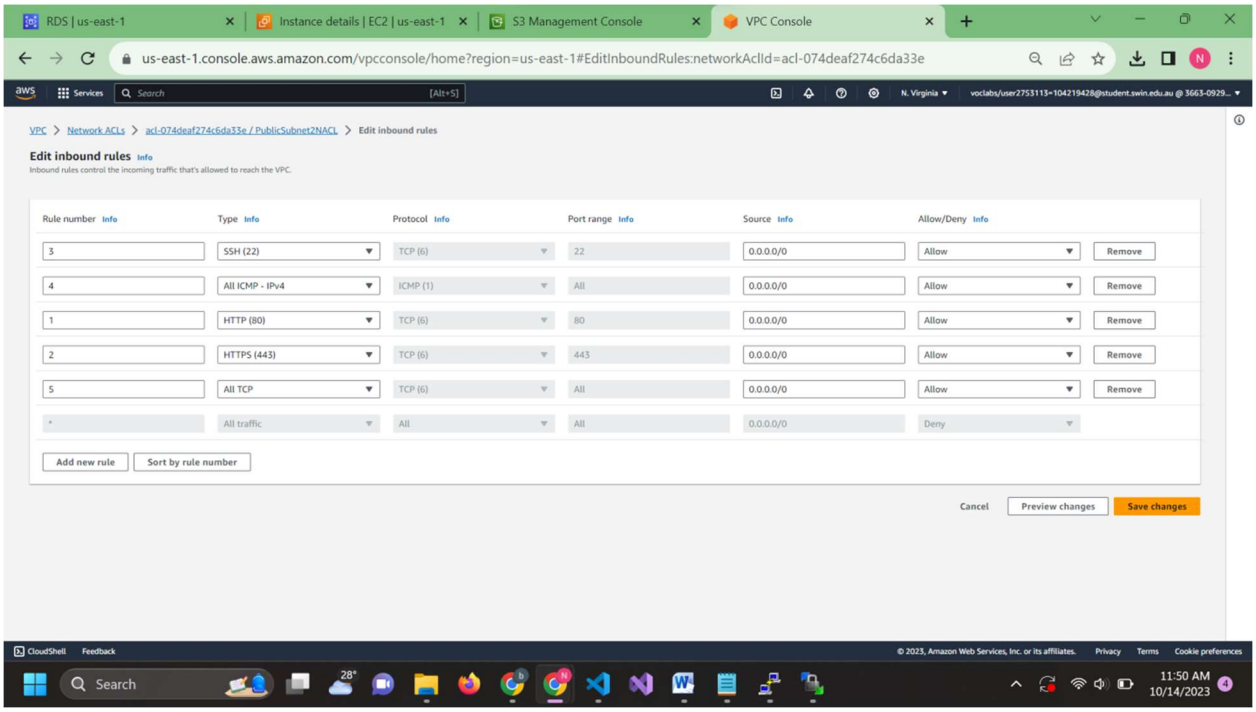


Choose the Network acl you created and go into Action to edit inbound/outbound and subnet association so it can be access from anywhere

7.1: Inbound



7.2: Outbound

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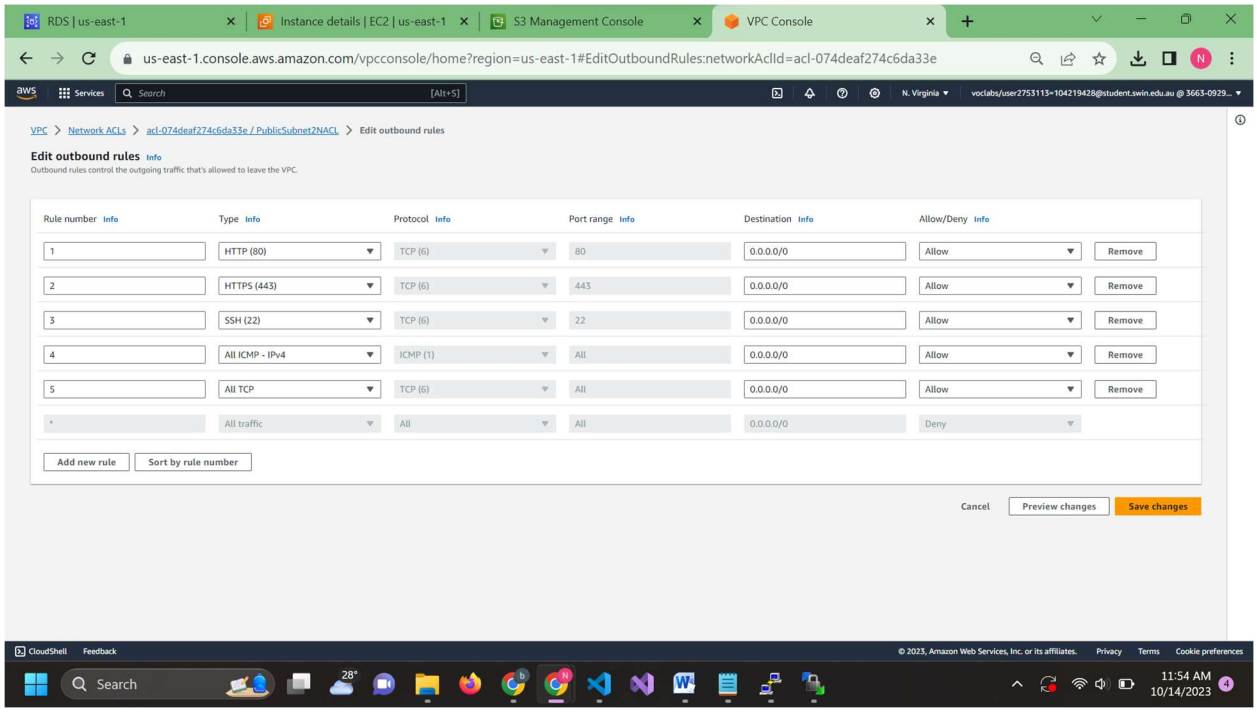
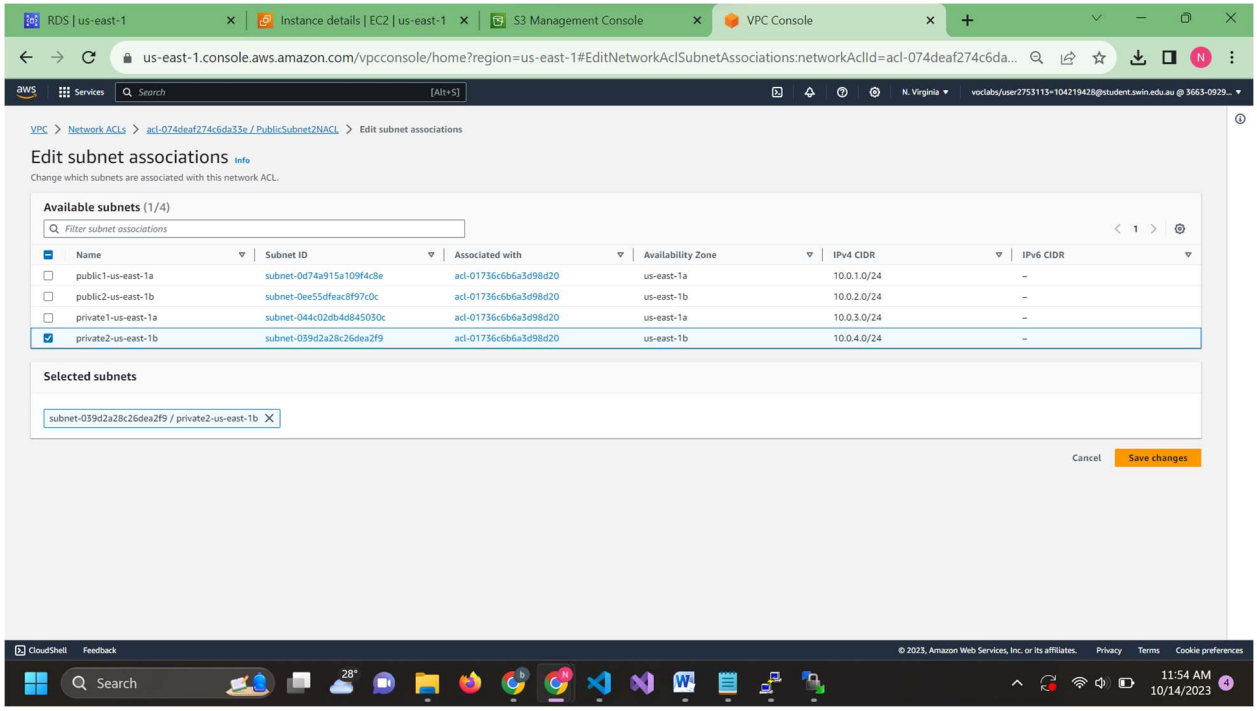


7.3: Subnet



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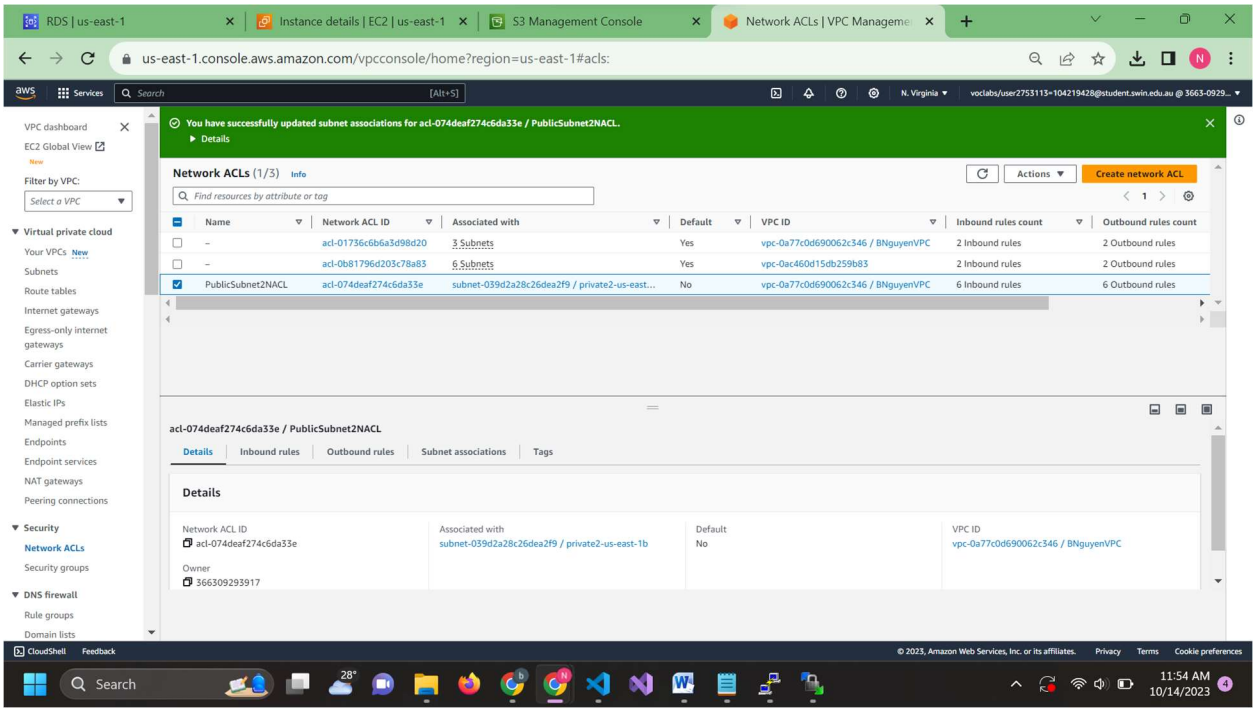
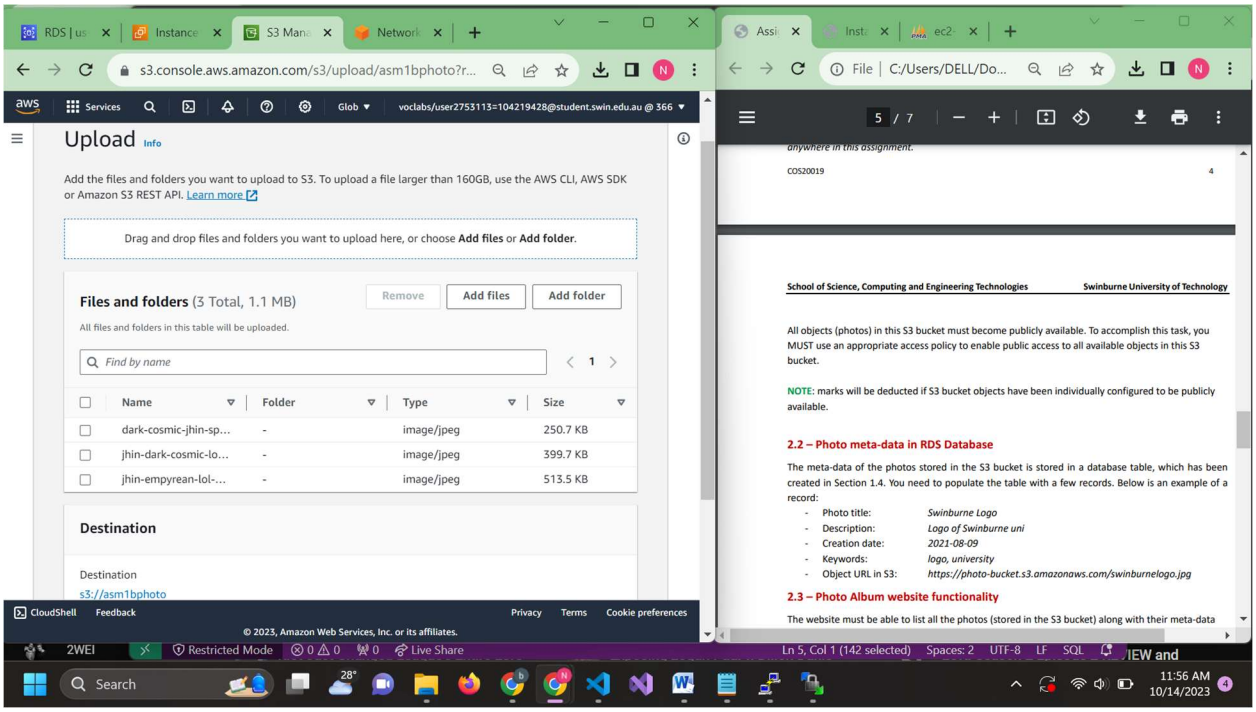


Step 8: upload photo into your S3 bucket



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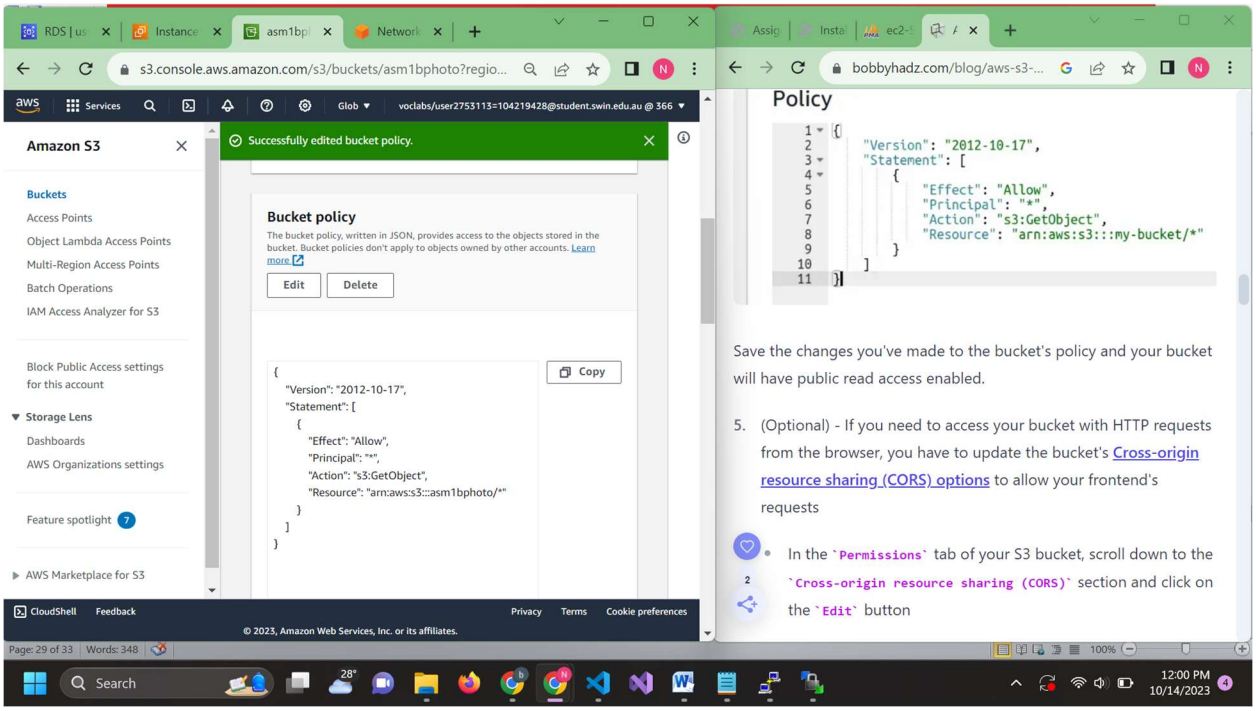
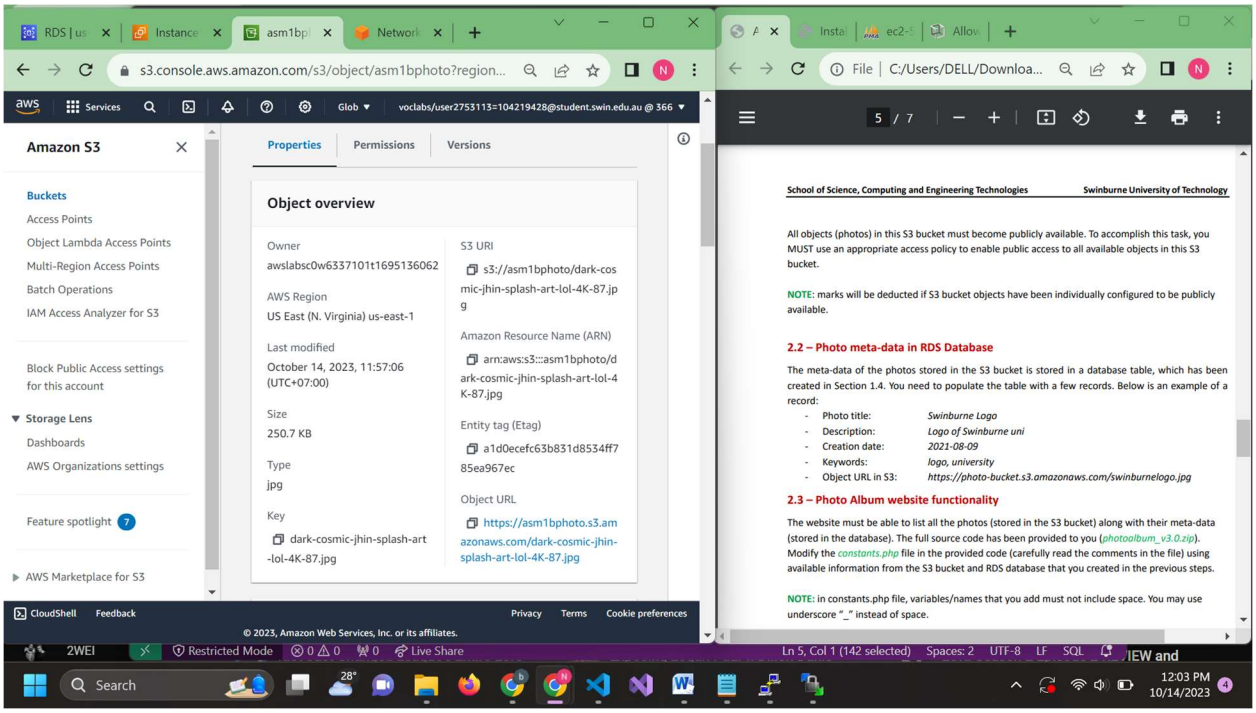
8.2: Edit bucket policy



Step 9: Put your photo into the database to test it

9.1 copy photo url

https://asm1bphoto.s3.amazonaws.com/dark-cosmic-jhin-splash-art-lol-4K-87.jpg



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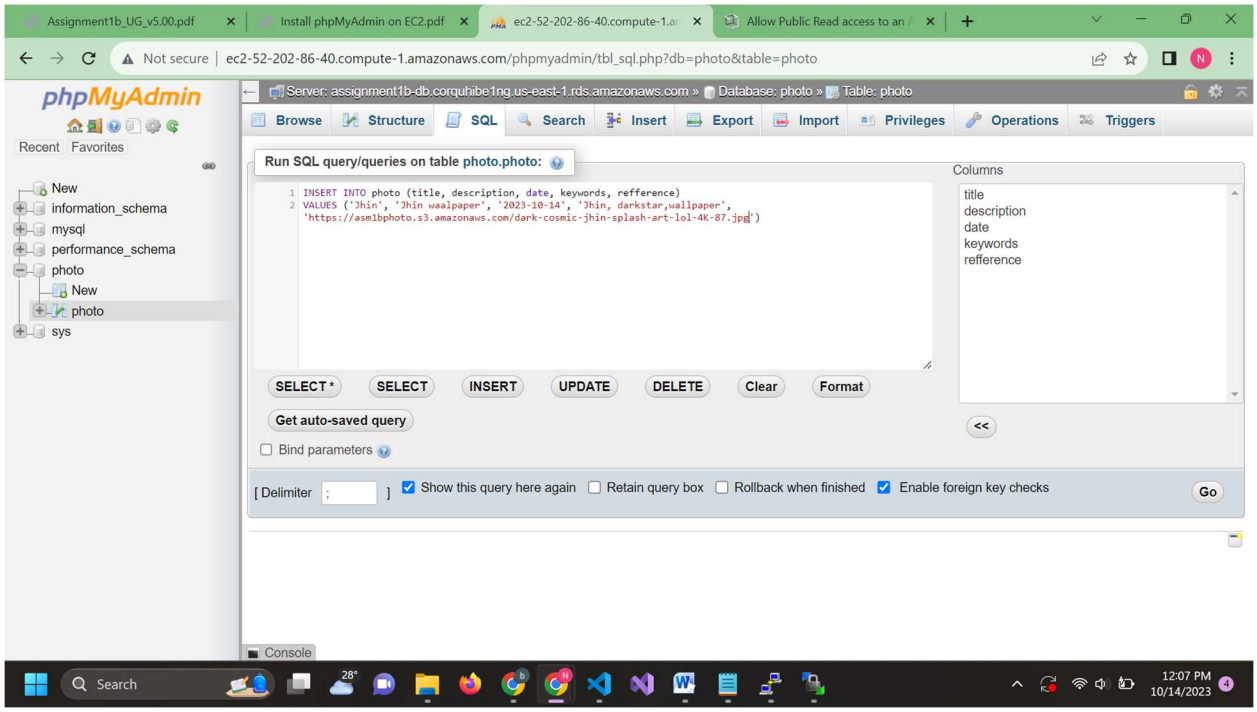
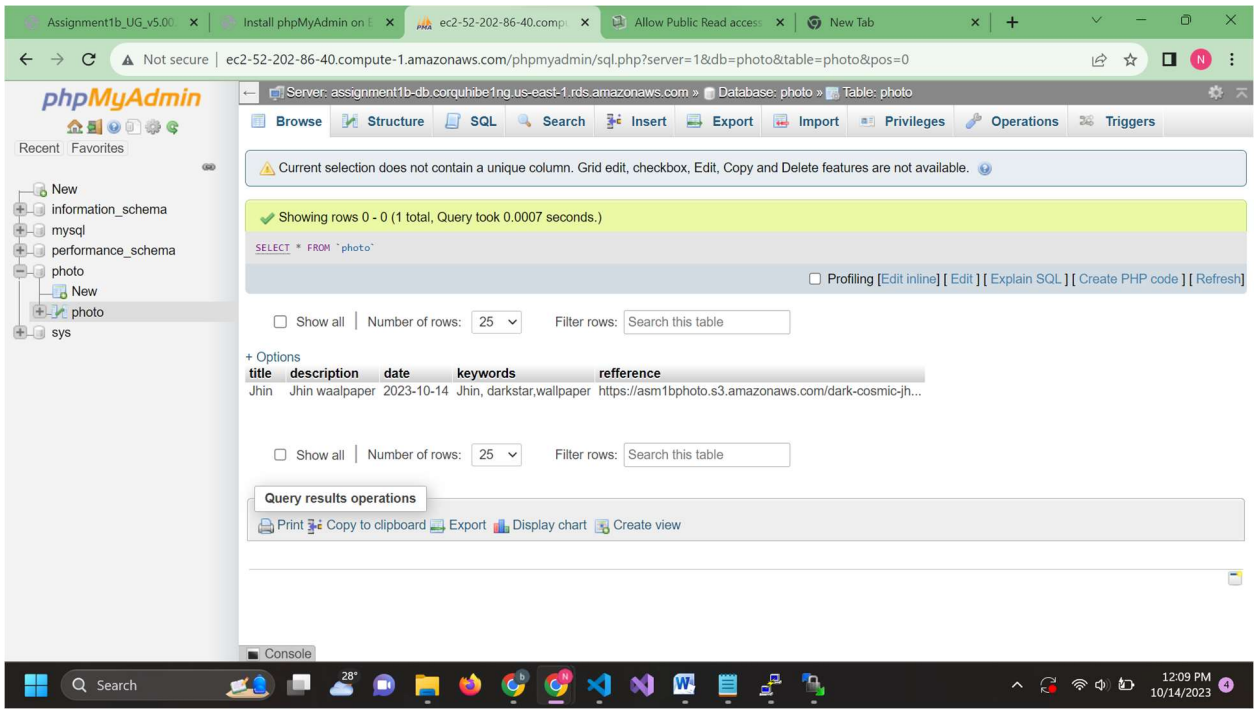
Insert it into the table in your database using sql





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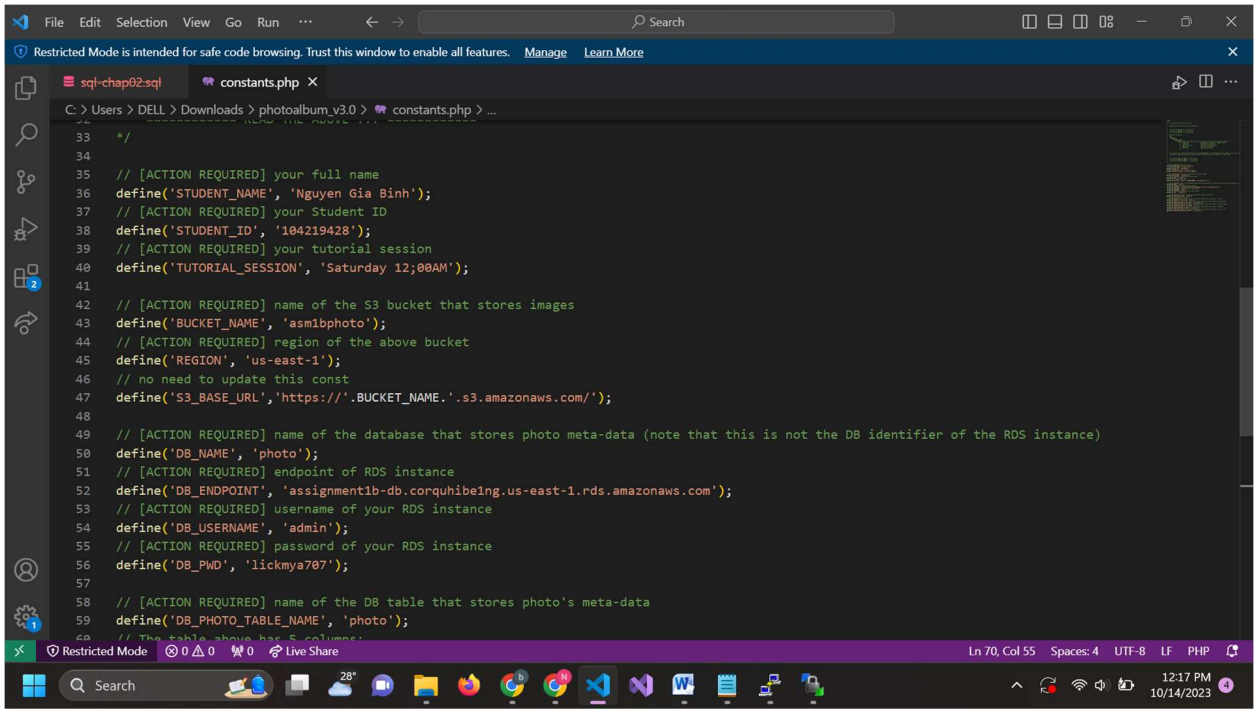
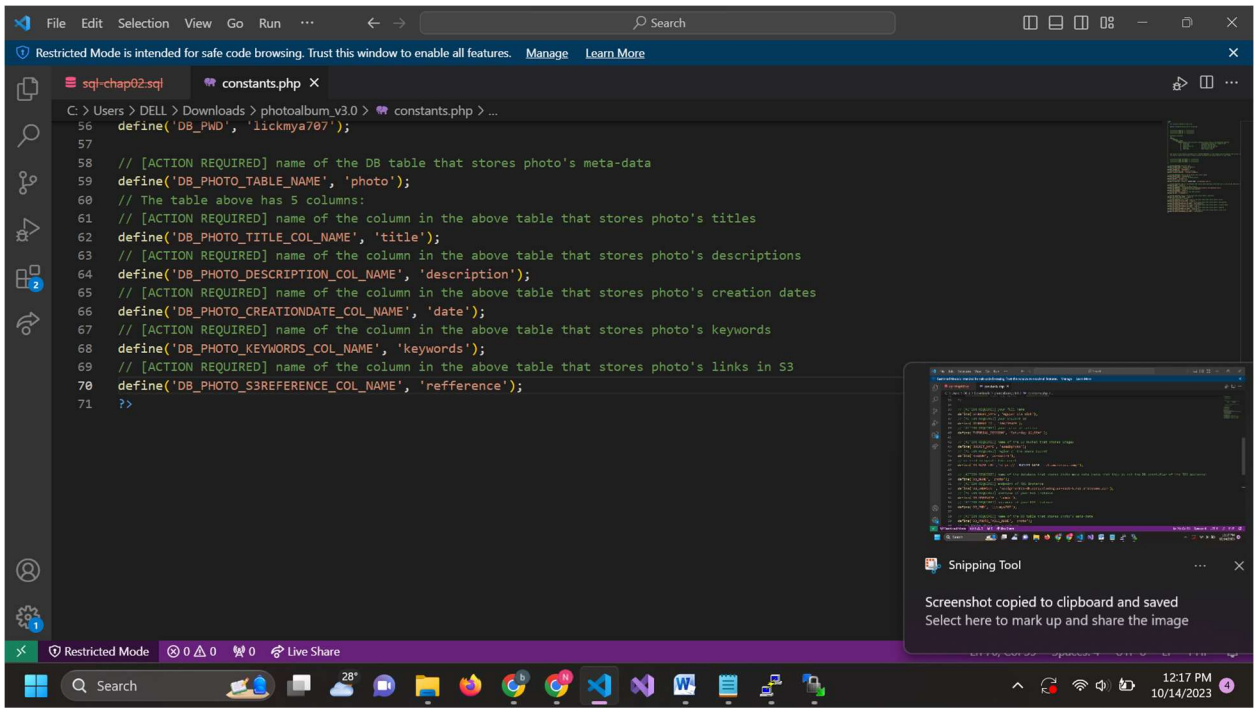
Edit constant.php





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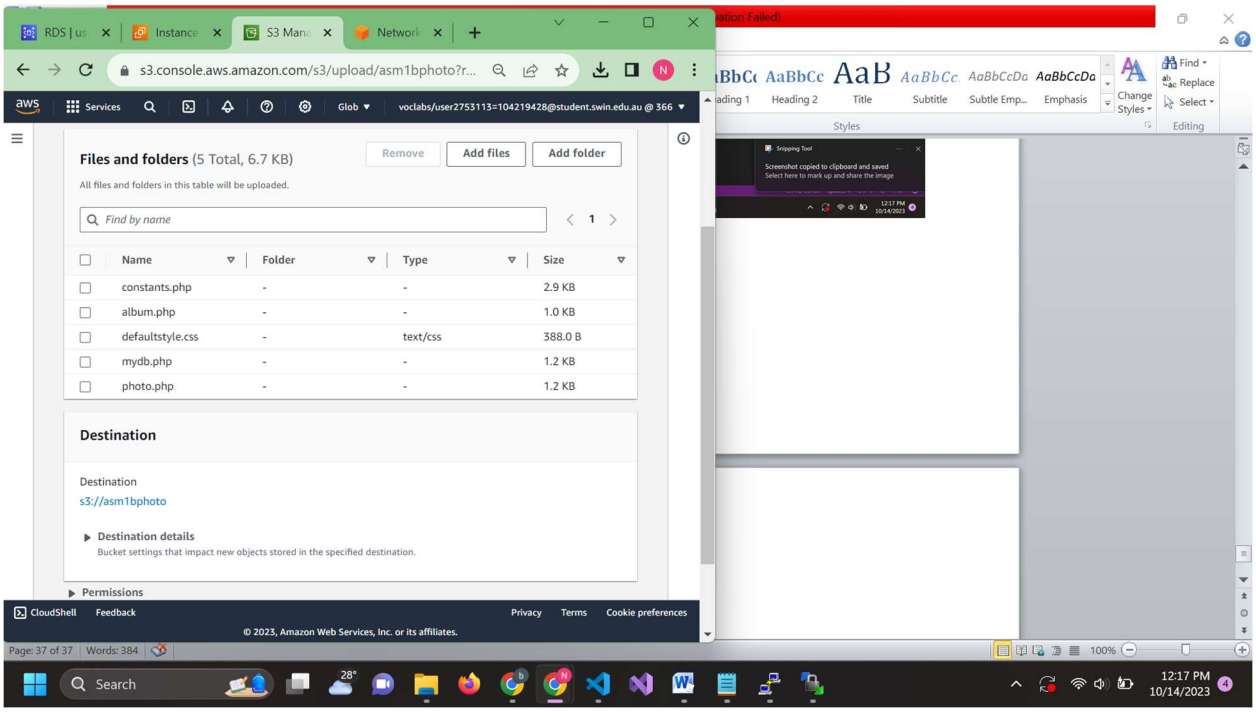
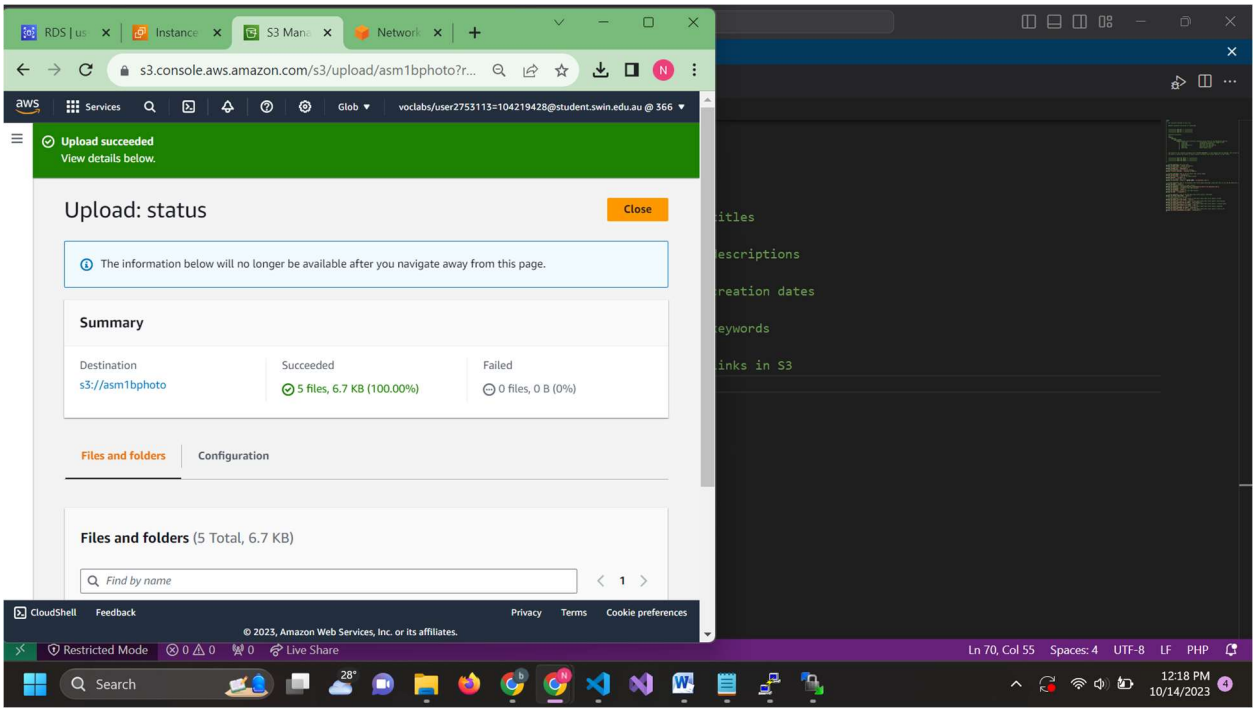
Upload files to your bucket





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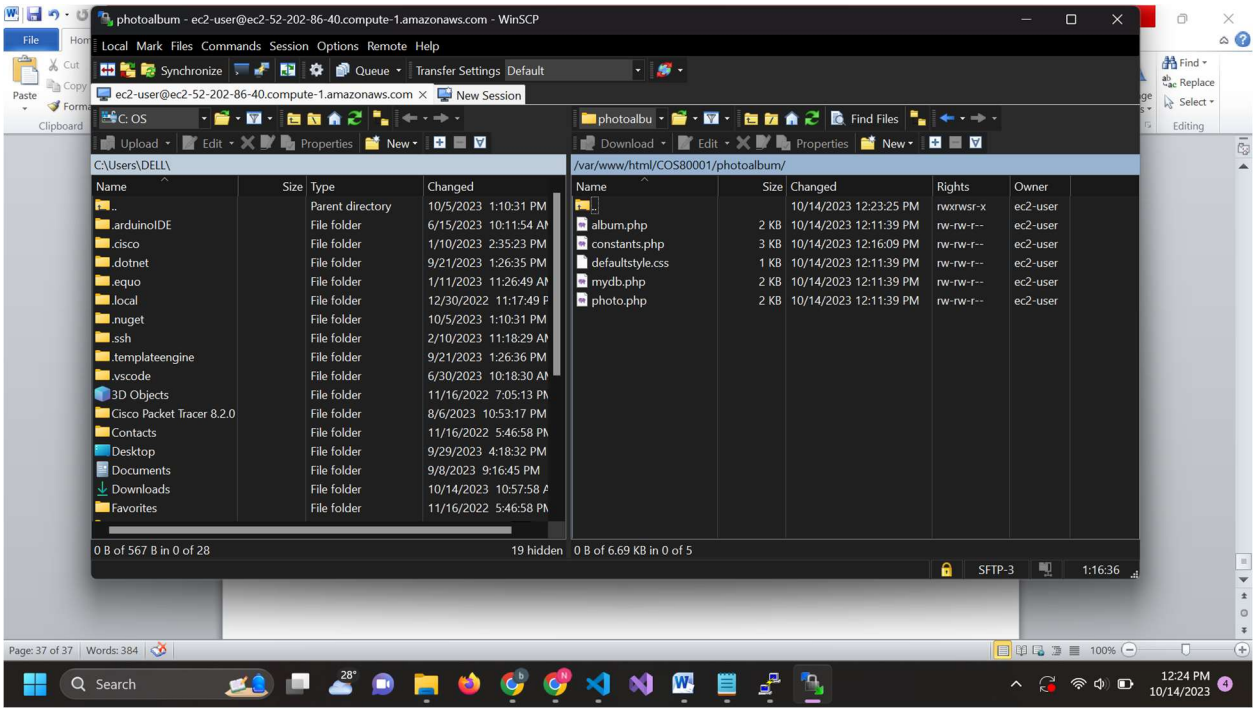
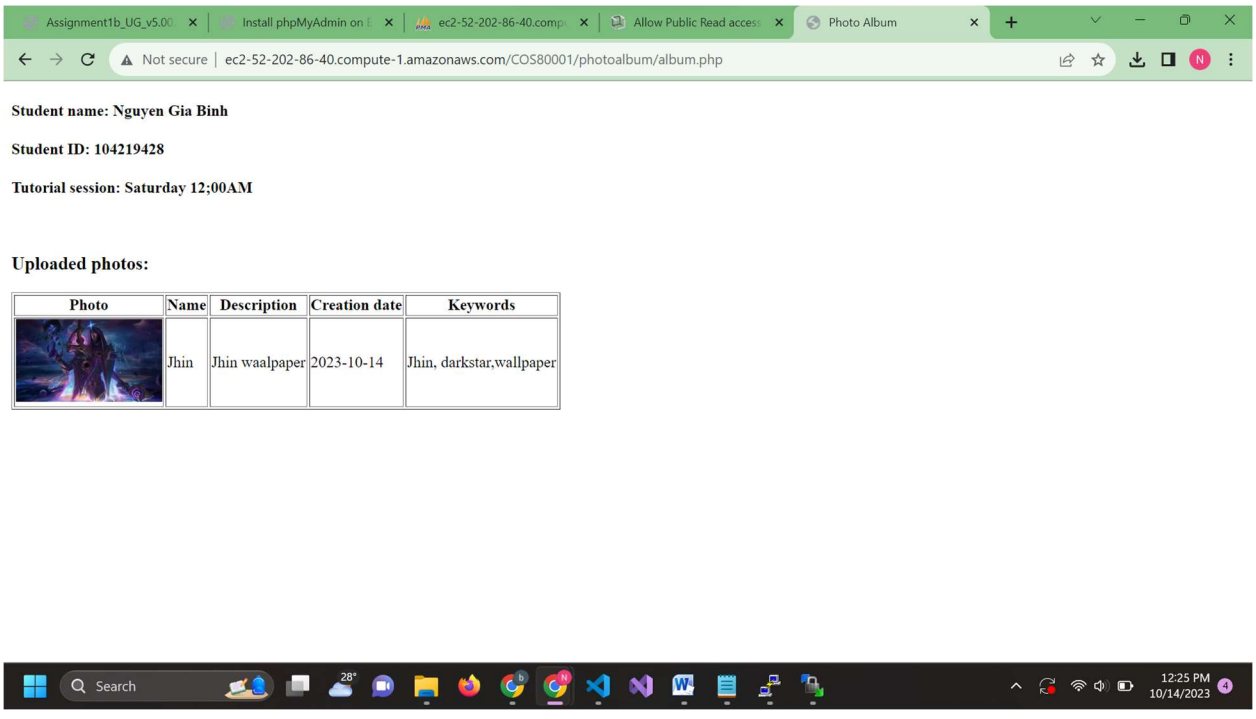
Upload the files into the directory in WinSCP



Access it through your local brower using Bastion public DNS

http://ec2-52-202-86-40.compute-1.amazonaws.com/COS80001/photoalbum/album.php



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Step 10 : Ping Test from Bastion (login using Bastion public elastic IP, ssh Bastion private IP and ping Testinstance using it private Ipv4) (there is a change in Test Instance ipv4 because I accidentally delete it so I created it again)