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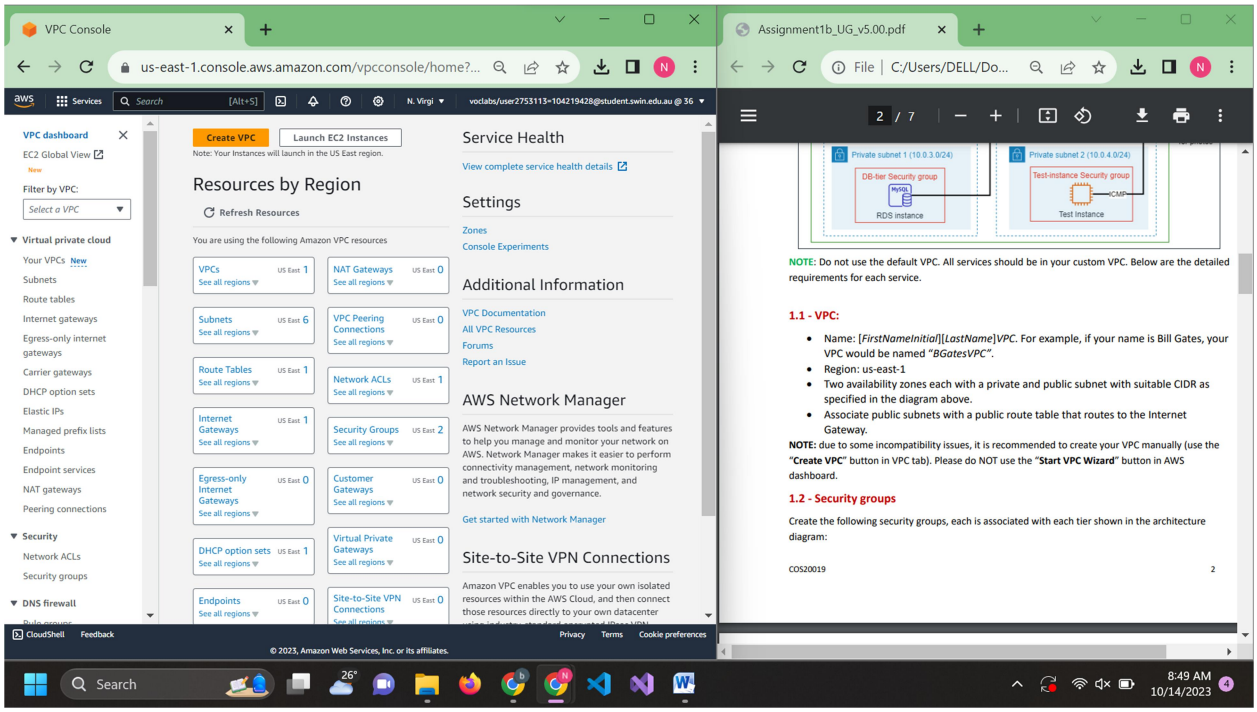
Step 1: Access VPC control panel



Step 2: Create a VPC

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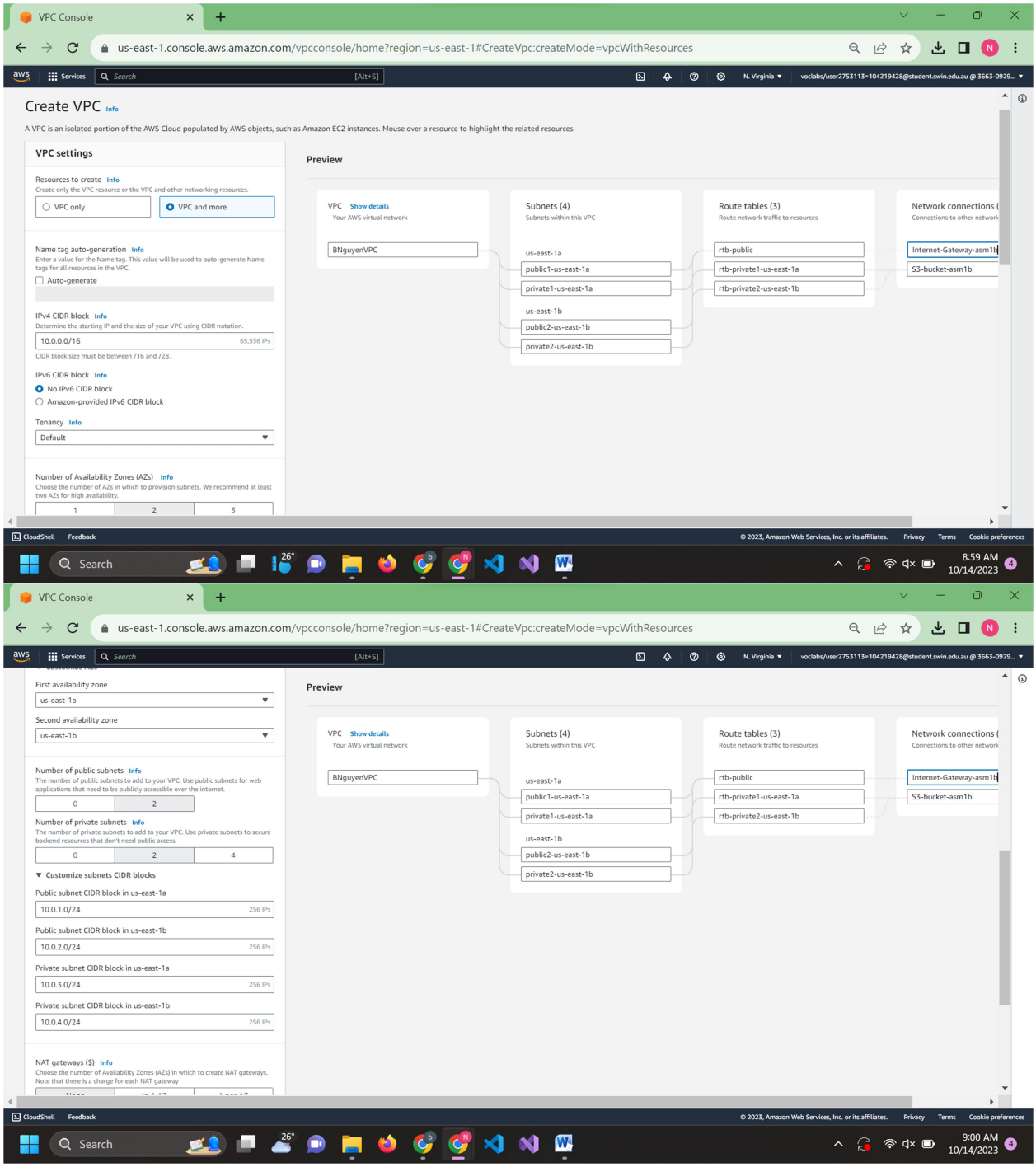

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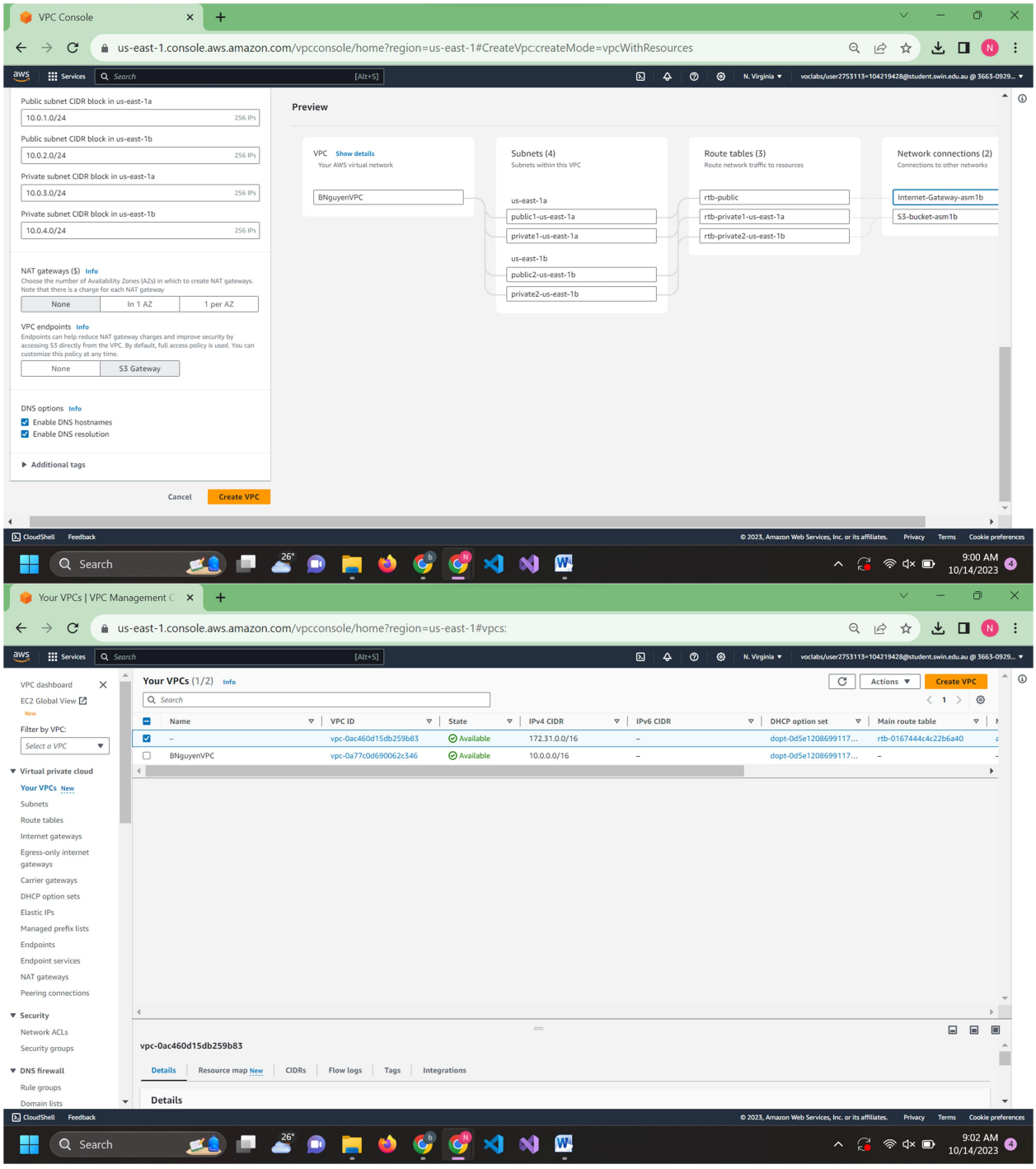

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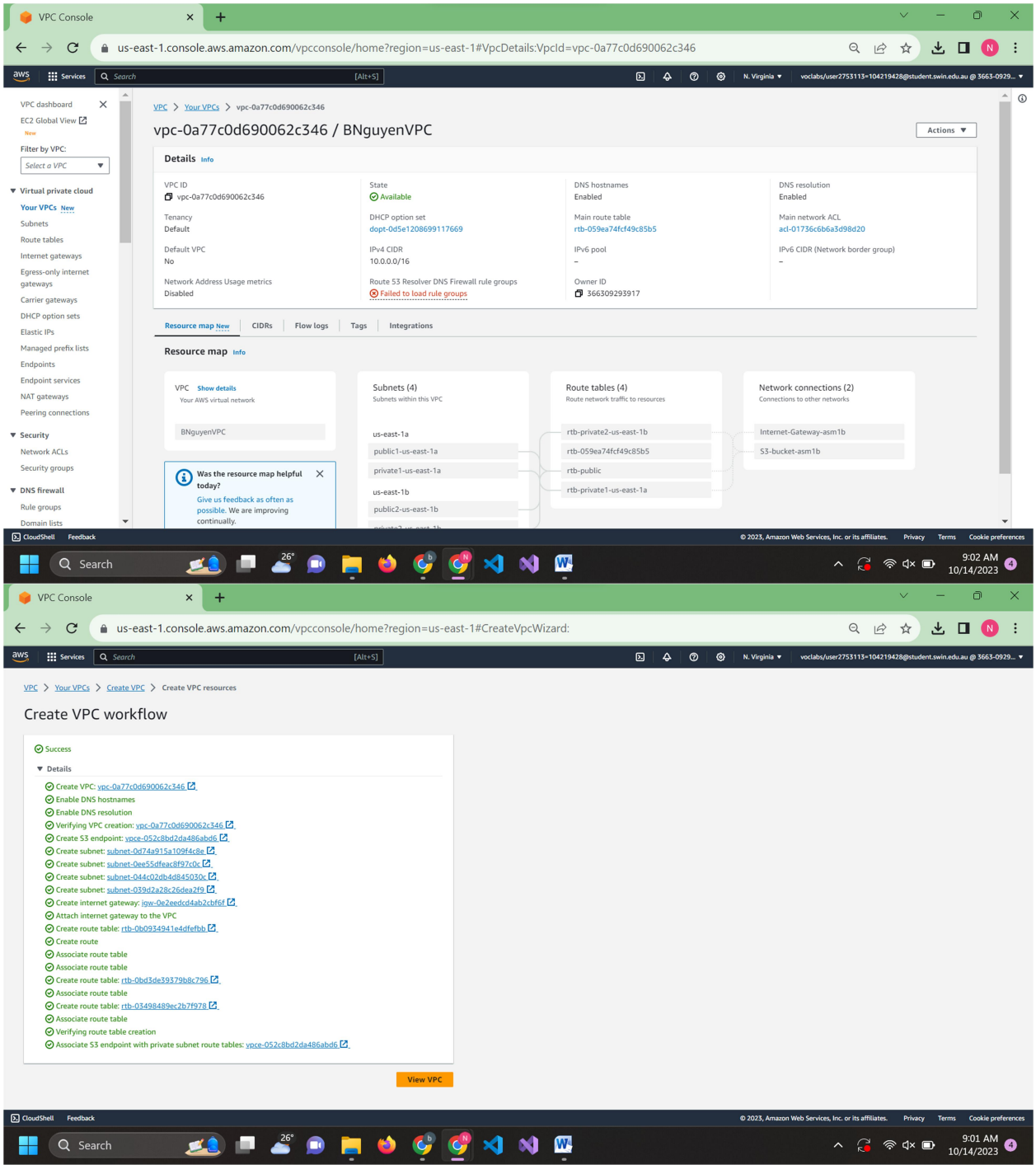

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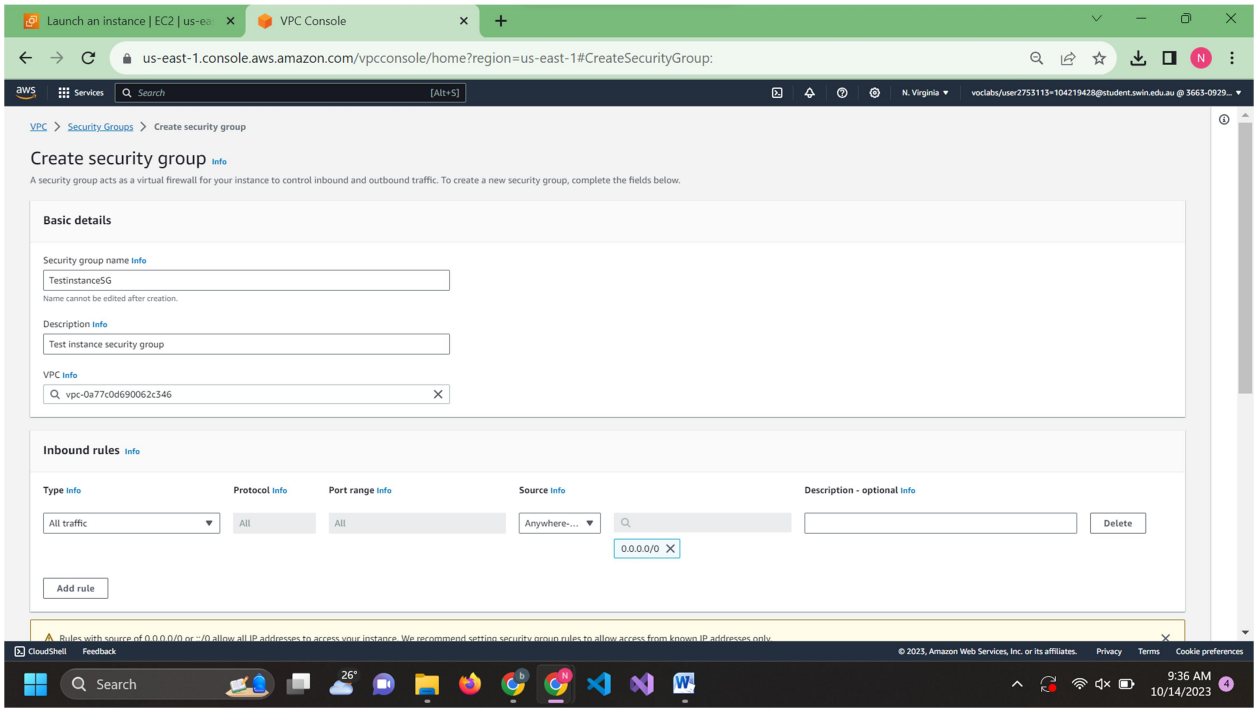
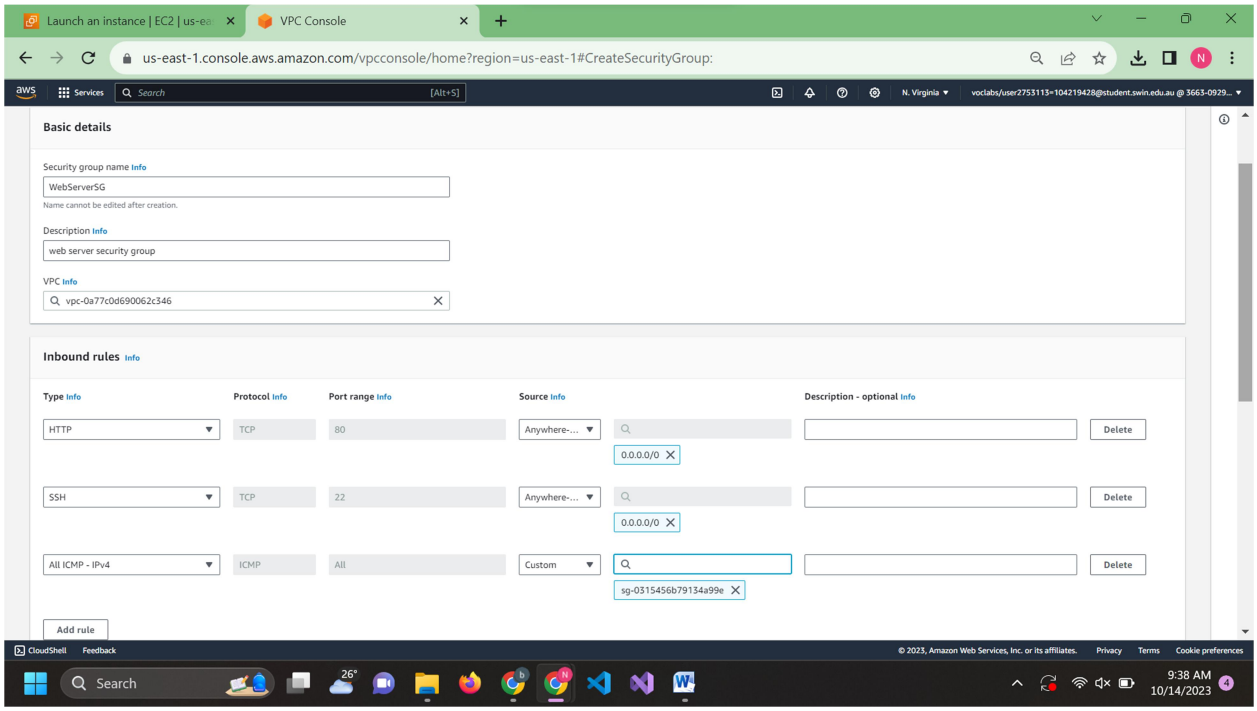
Step 3: Create security group. Access through the left navigation panel

3.1: TestInstanceSG



3.2:WebServerSG



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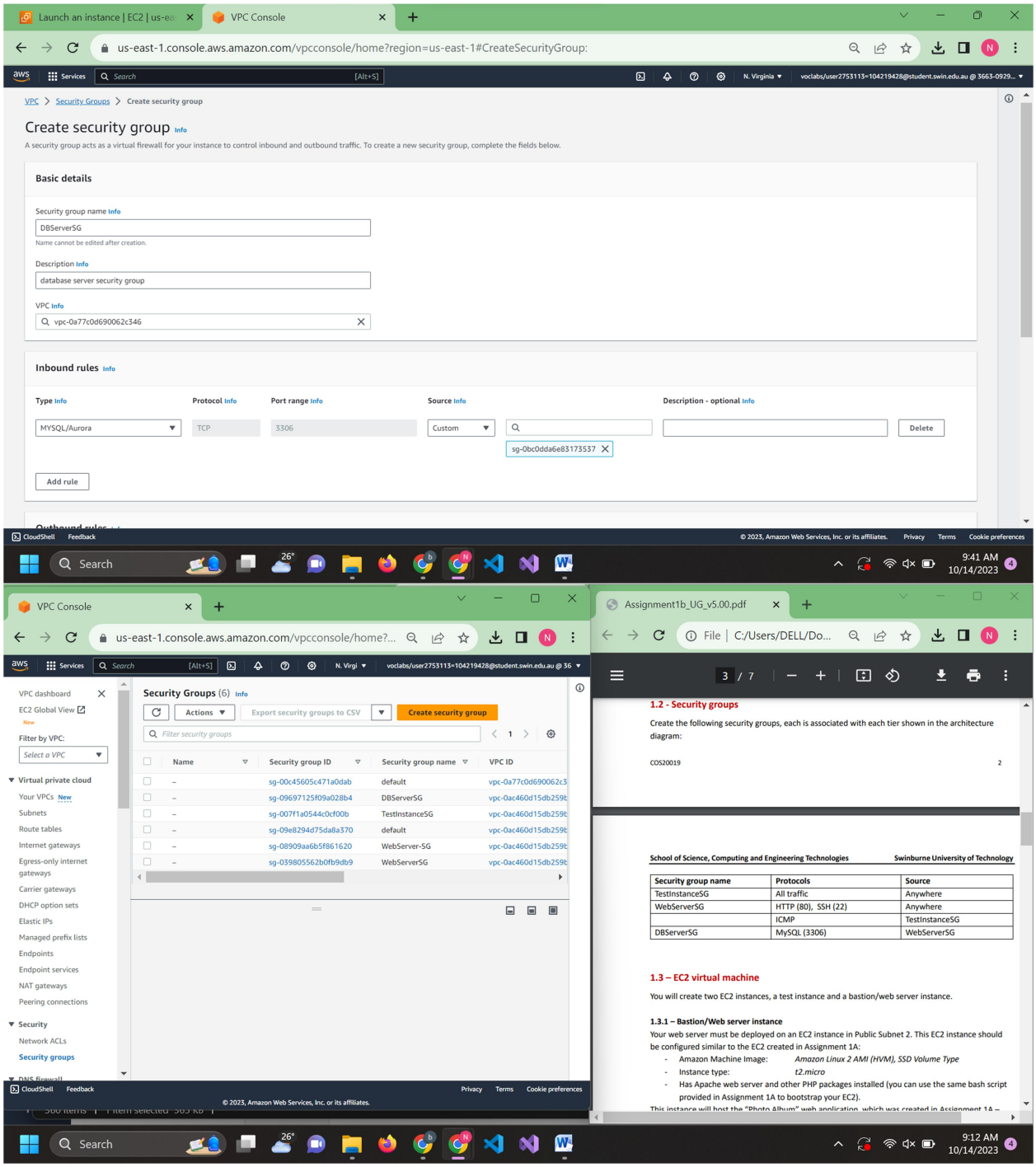
3.3:DBServerSG



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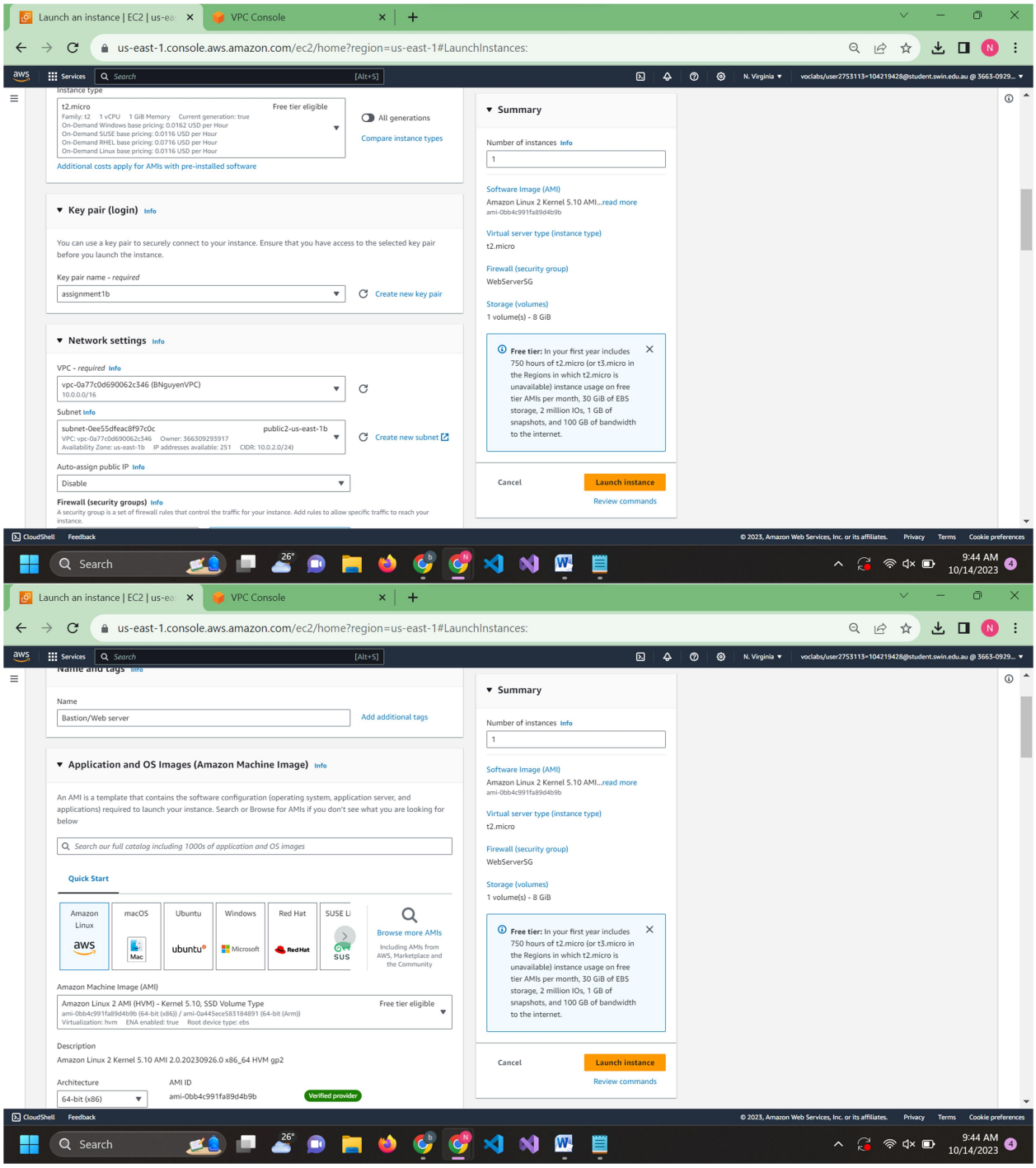
Step 4: Create 2 EC2 instance

4.1: Bastion/Web server EC2



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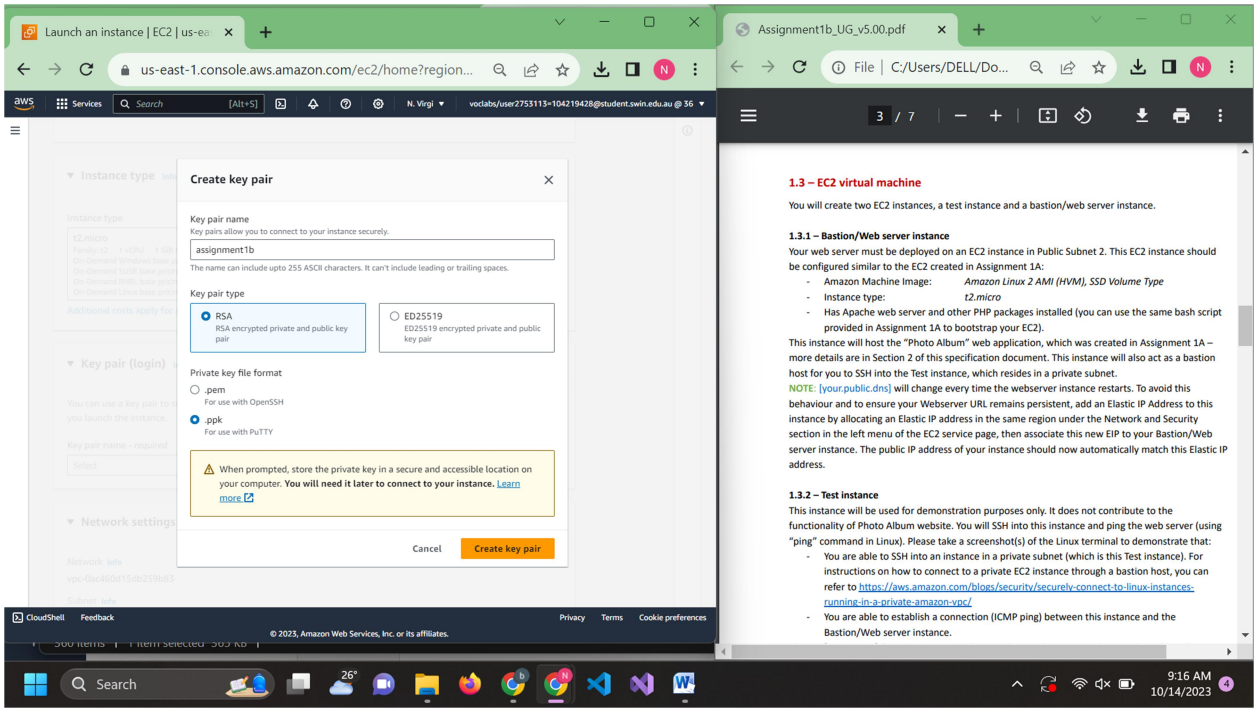

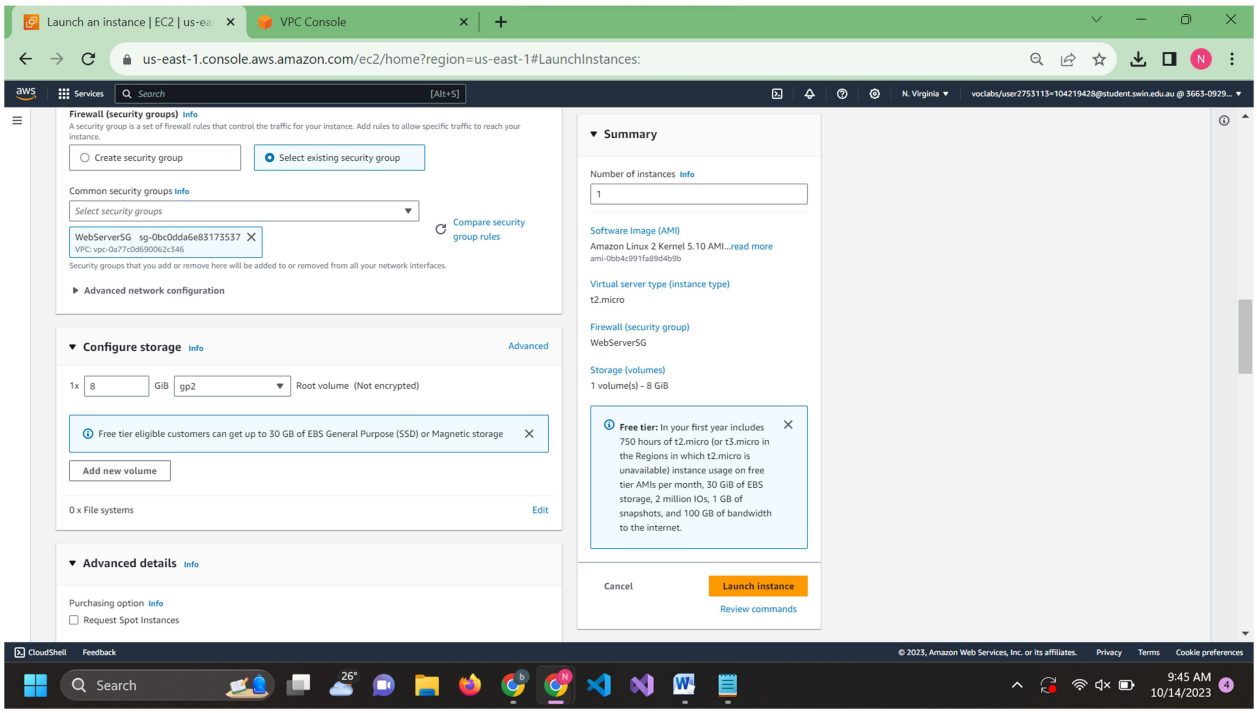

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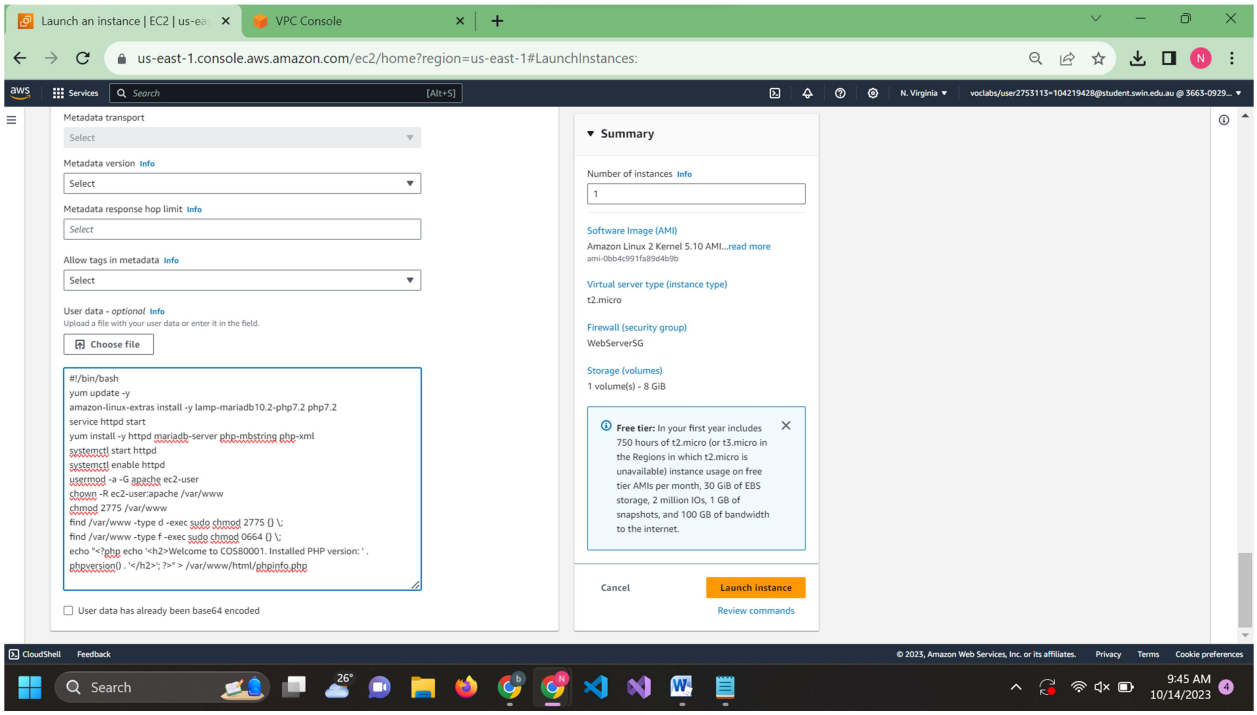
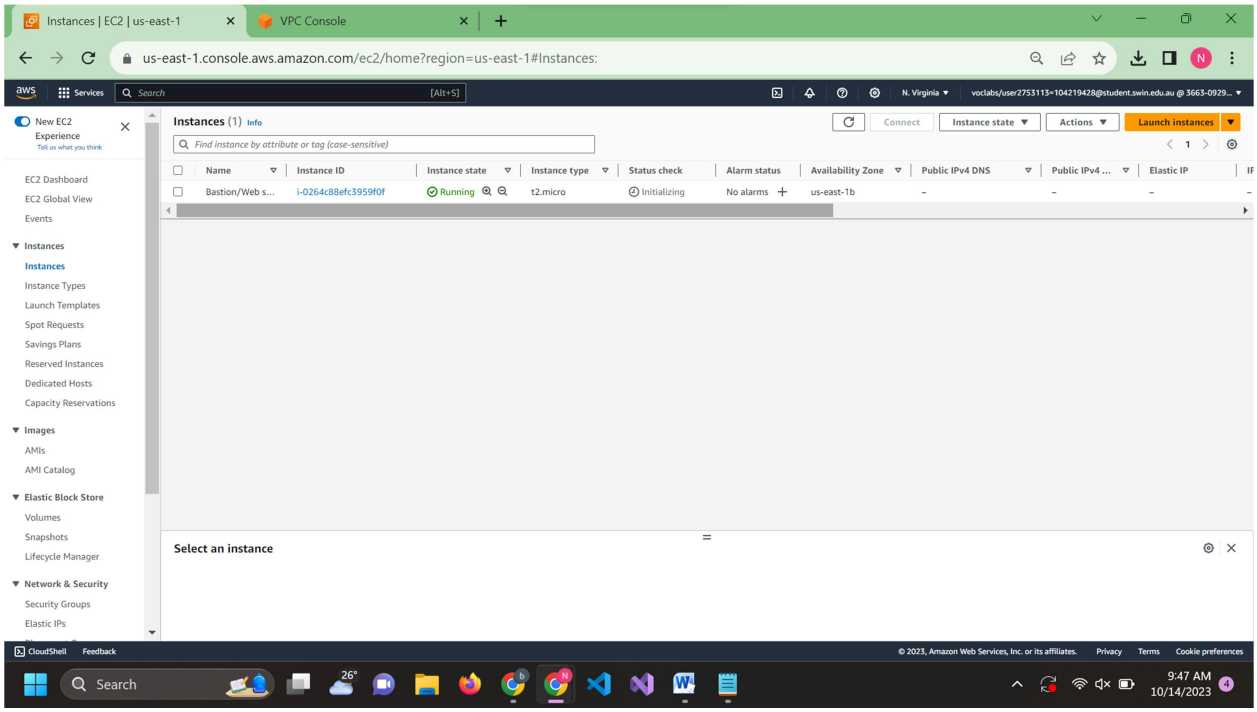
Reuse the script from asm1a to setup





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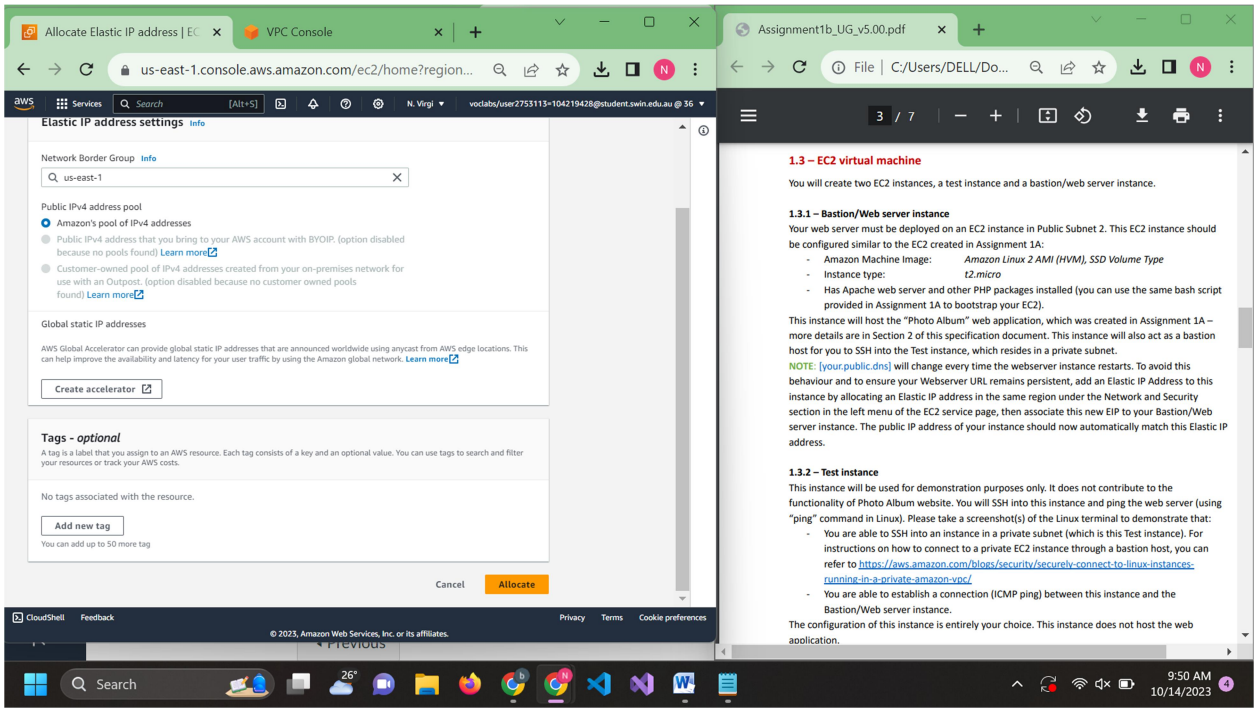
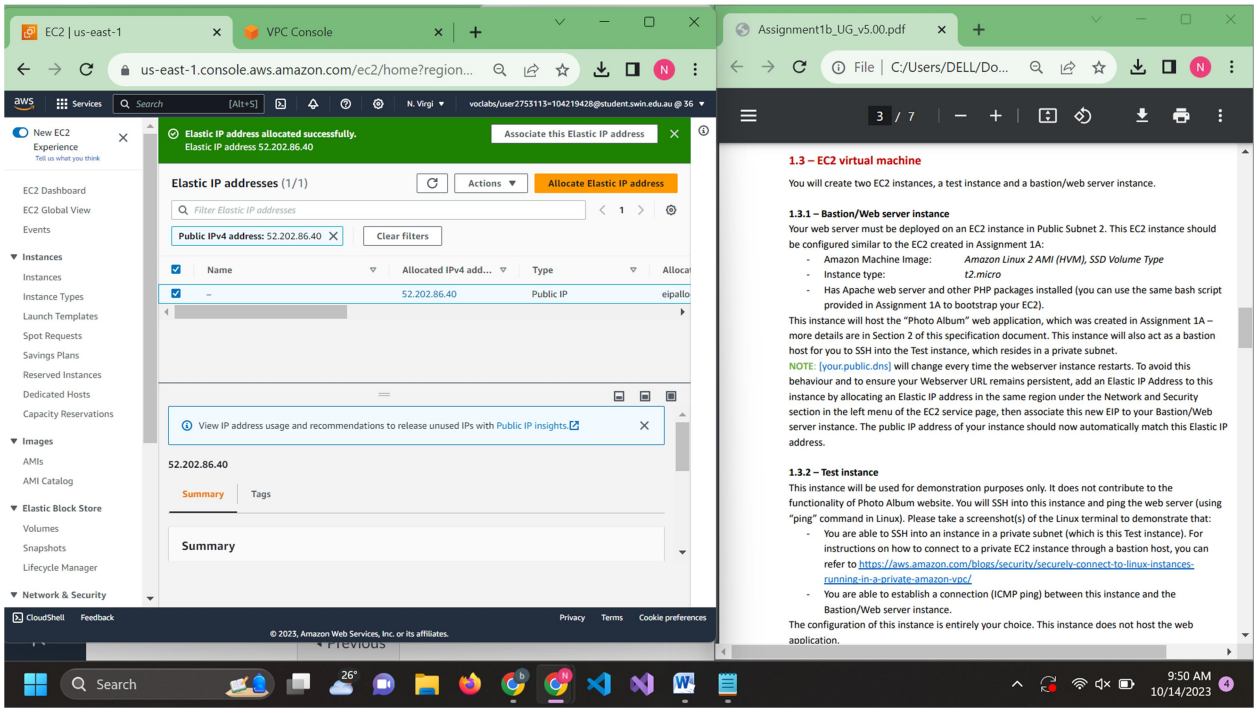
Open left navigation panel and choose Elastic IP Address and choose Allocate Elastic IP Address





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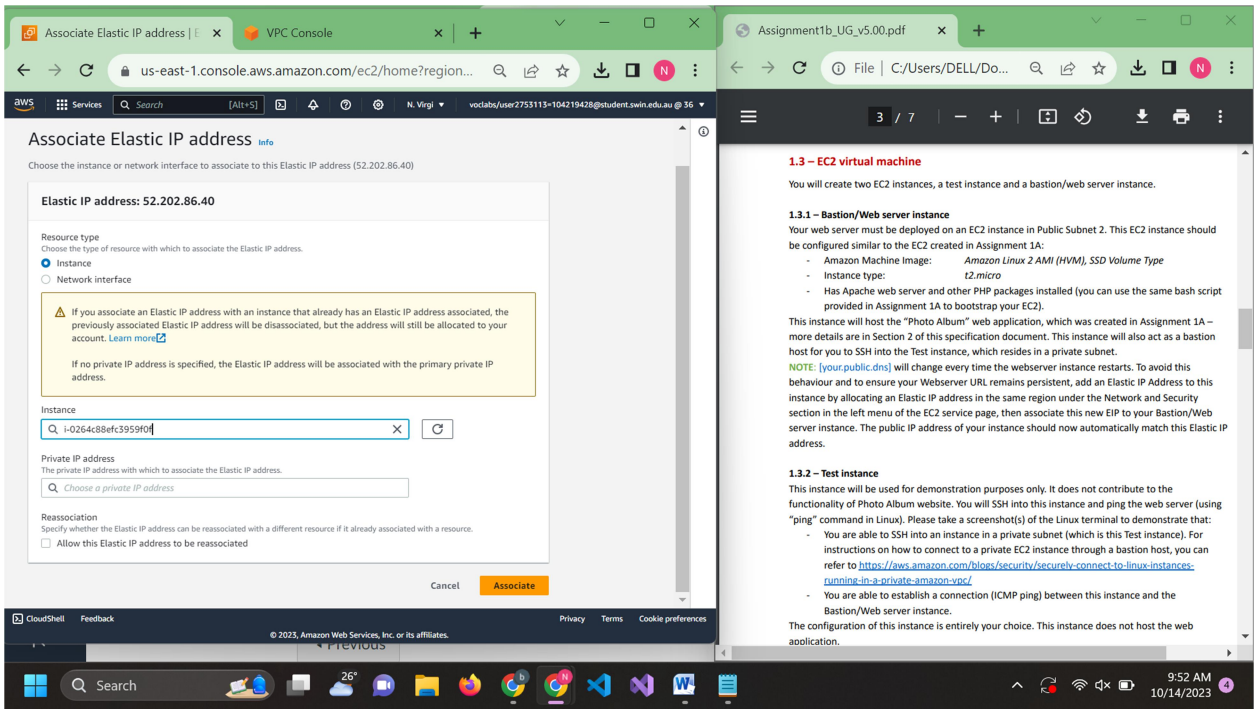
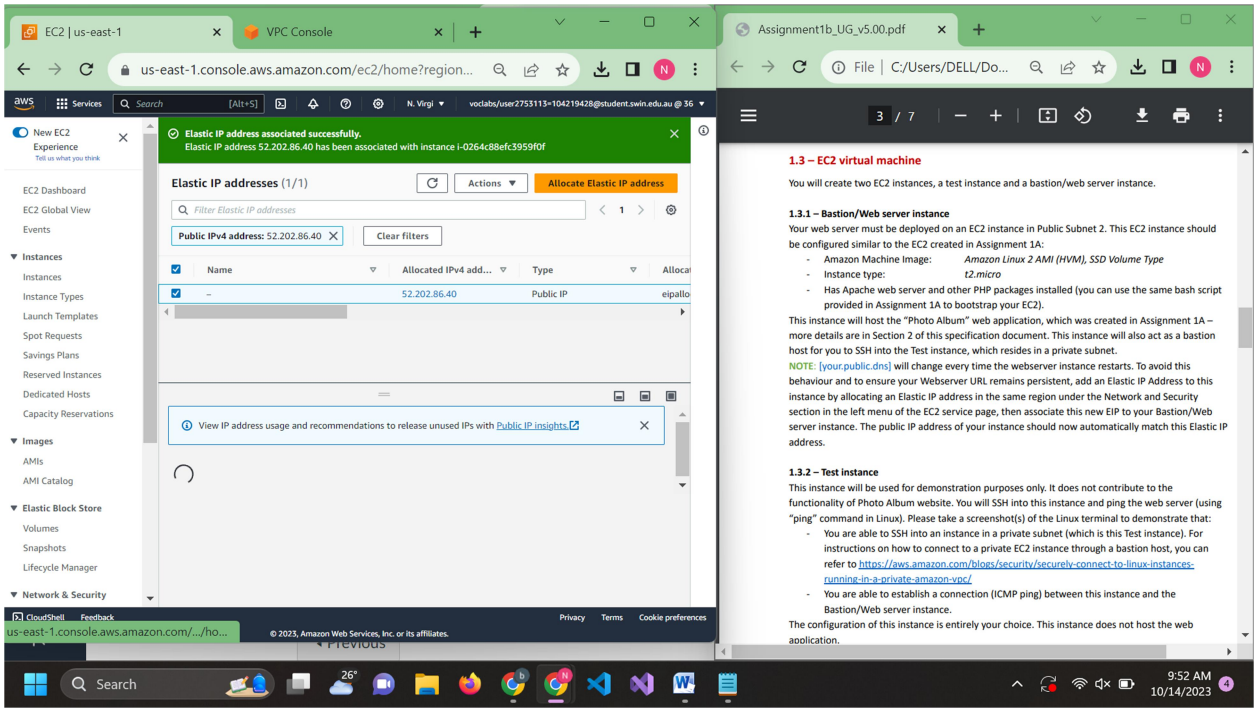
Select the created elastic IP and choose Action -> Allocate Elastic IP Address and add the Bastion/… EC2 instance to it





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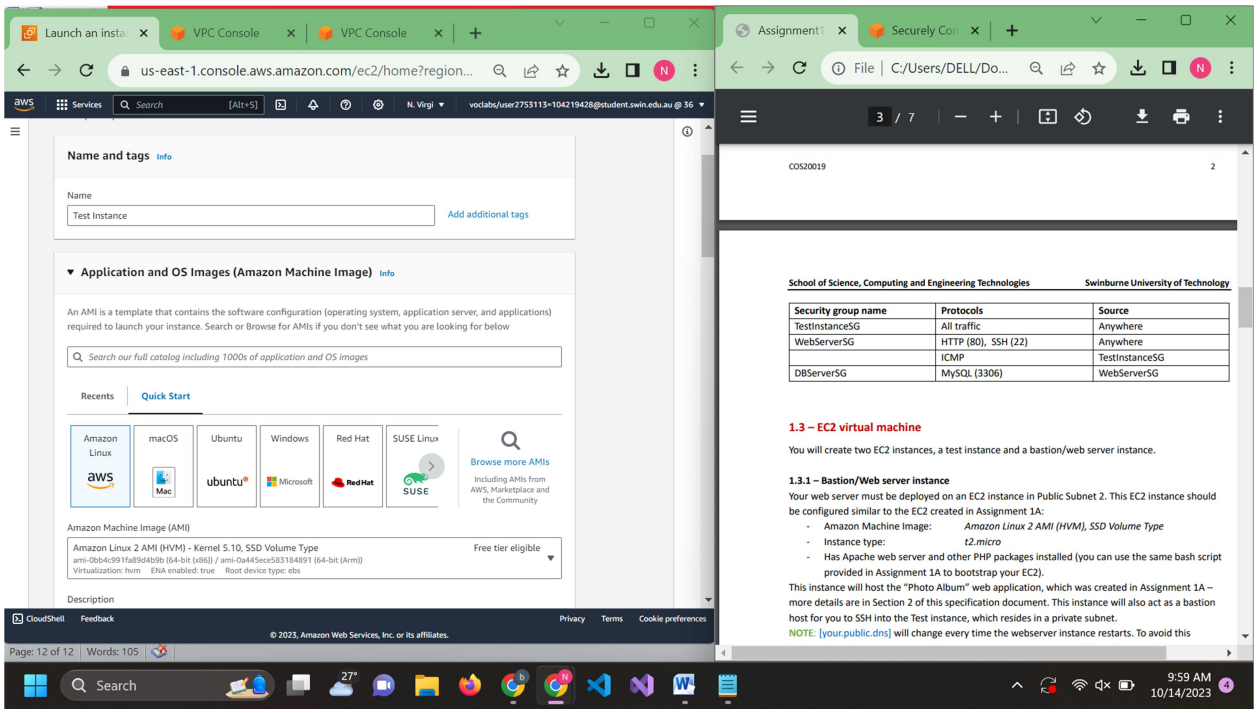
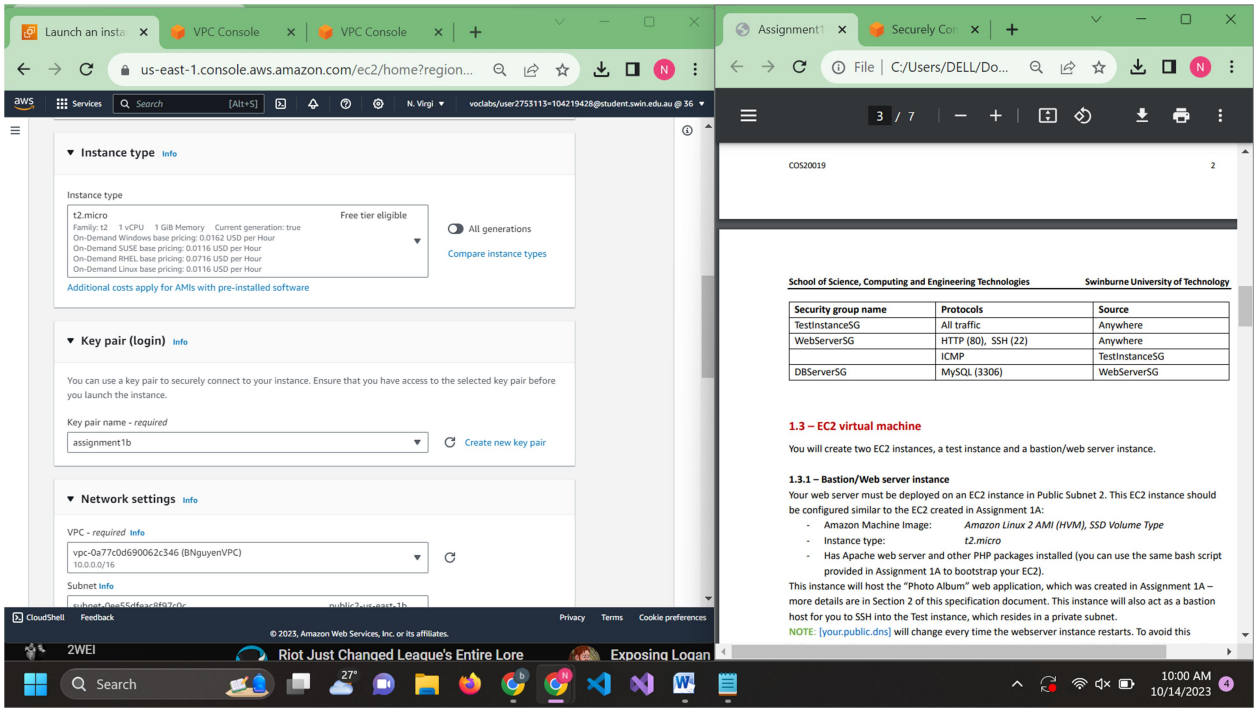
4.2: Test instance. Since it is not specified how this is config I left it the same as Bastion but different security group and no script





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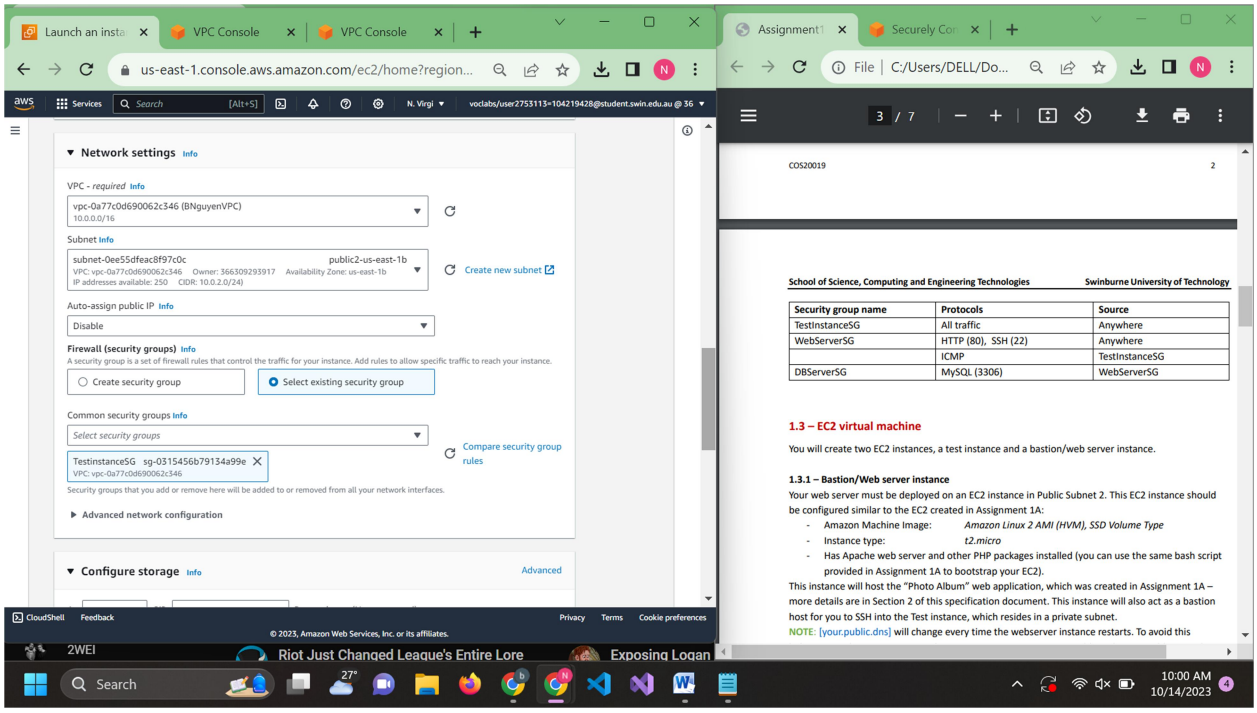

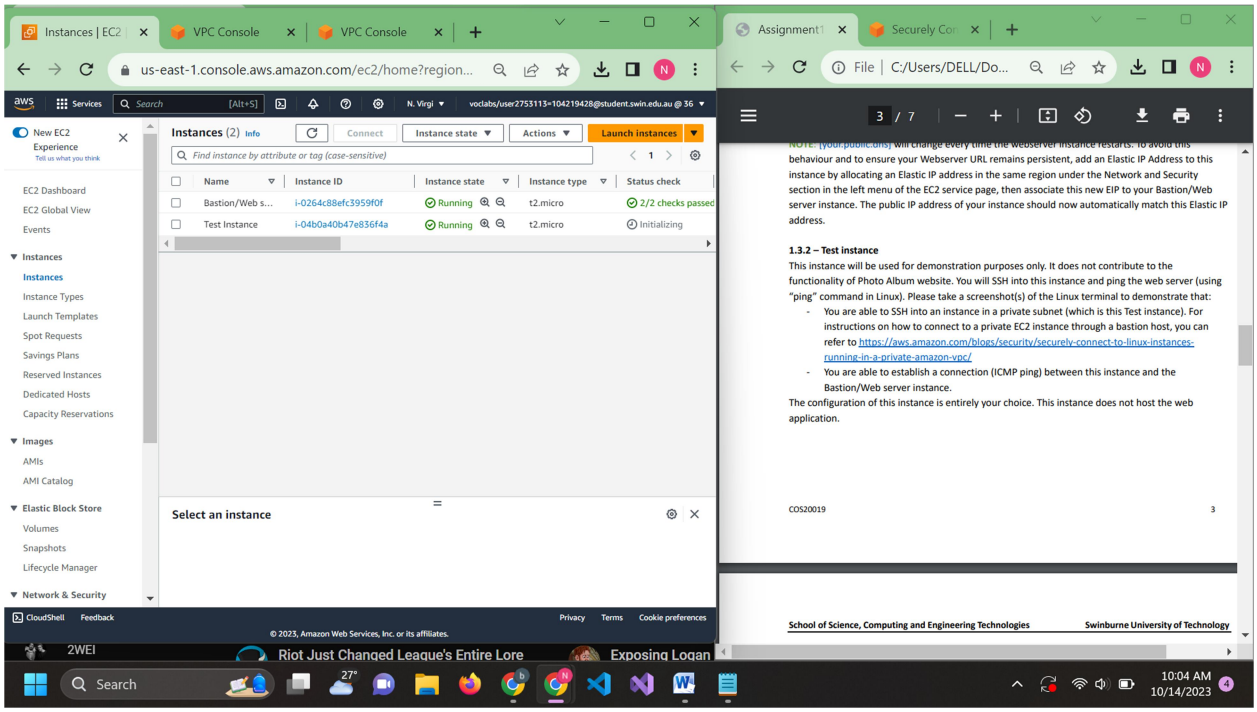

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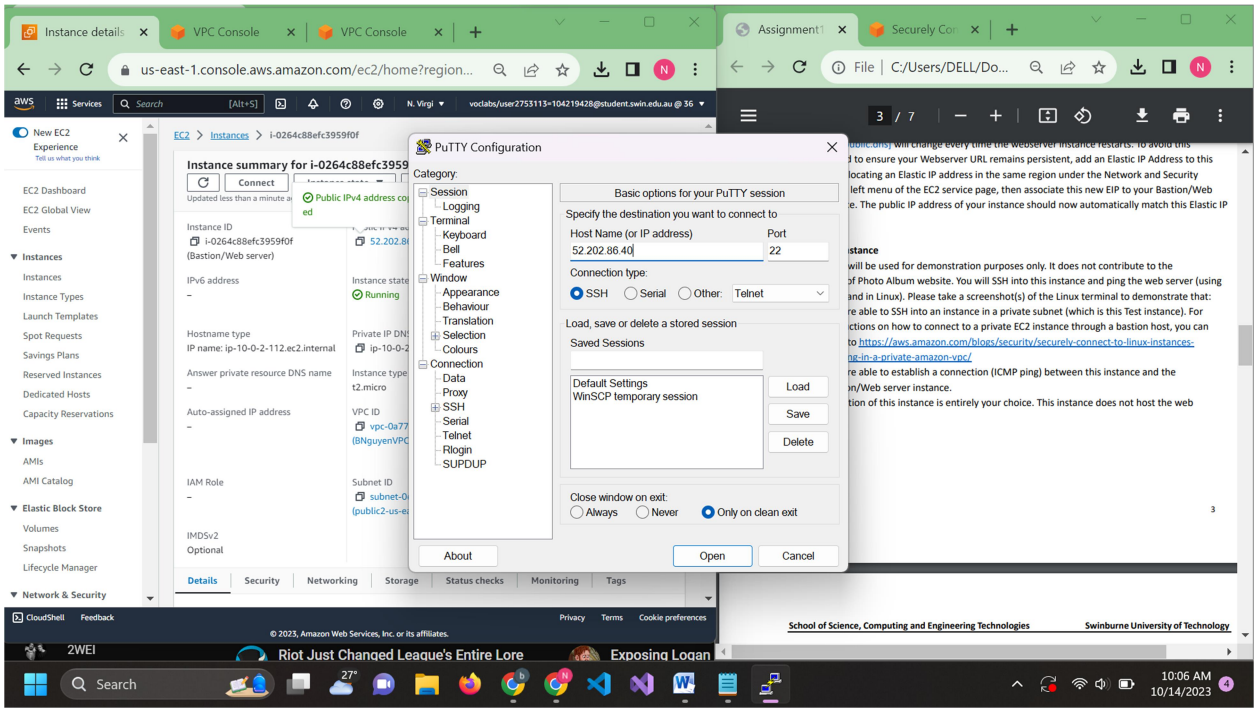
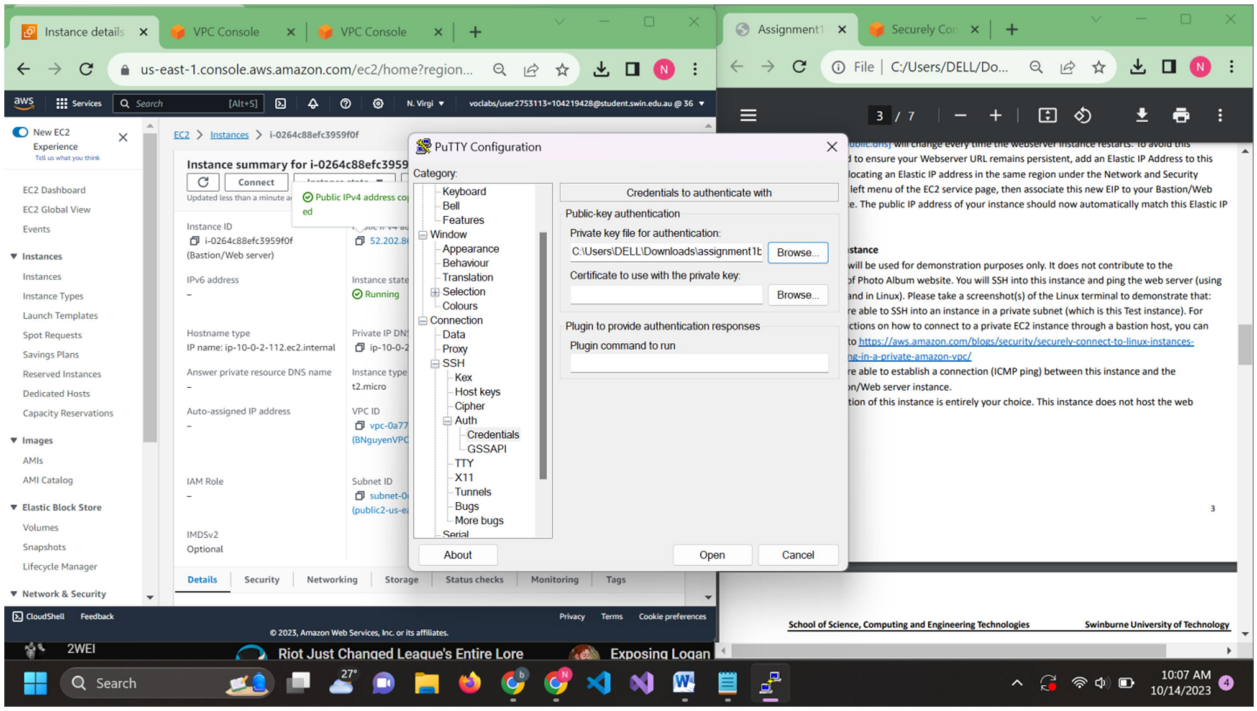
4.2.2: Test it using putty

Copy Bastion public IPV4 and use it as hostname



Use the keypair u created when creating Bastion



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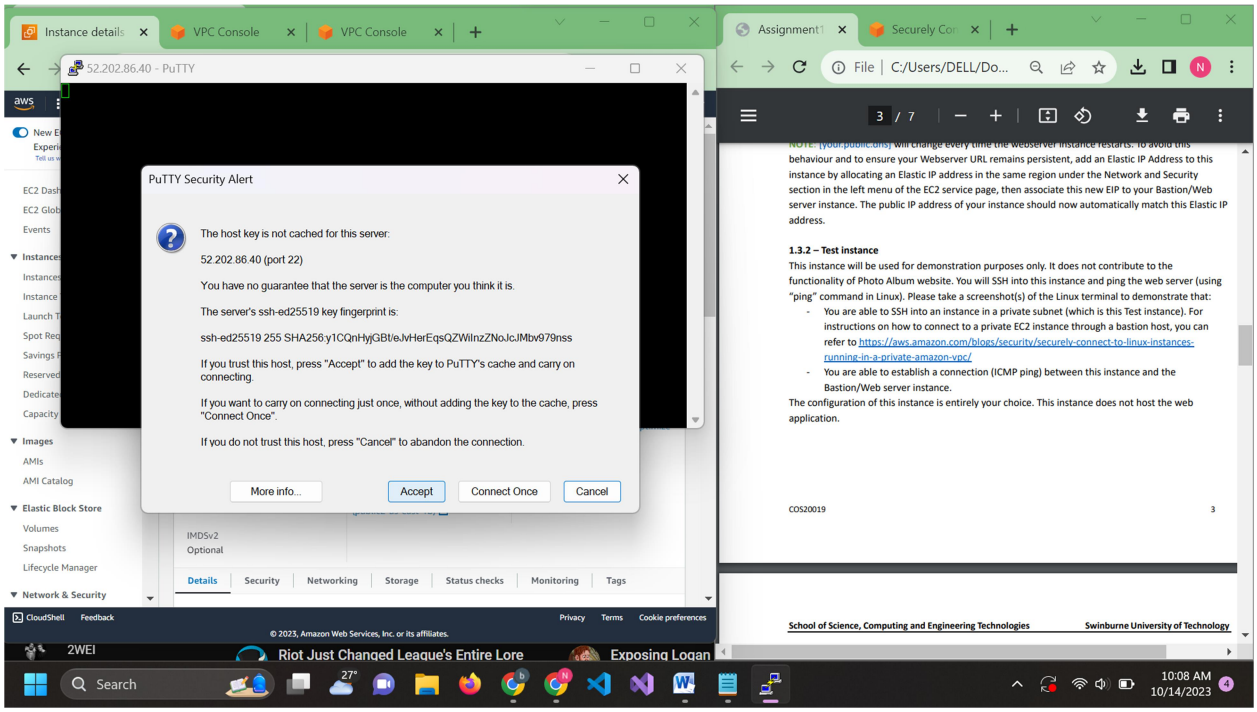
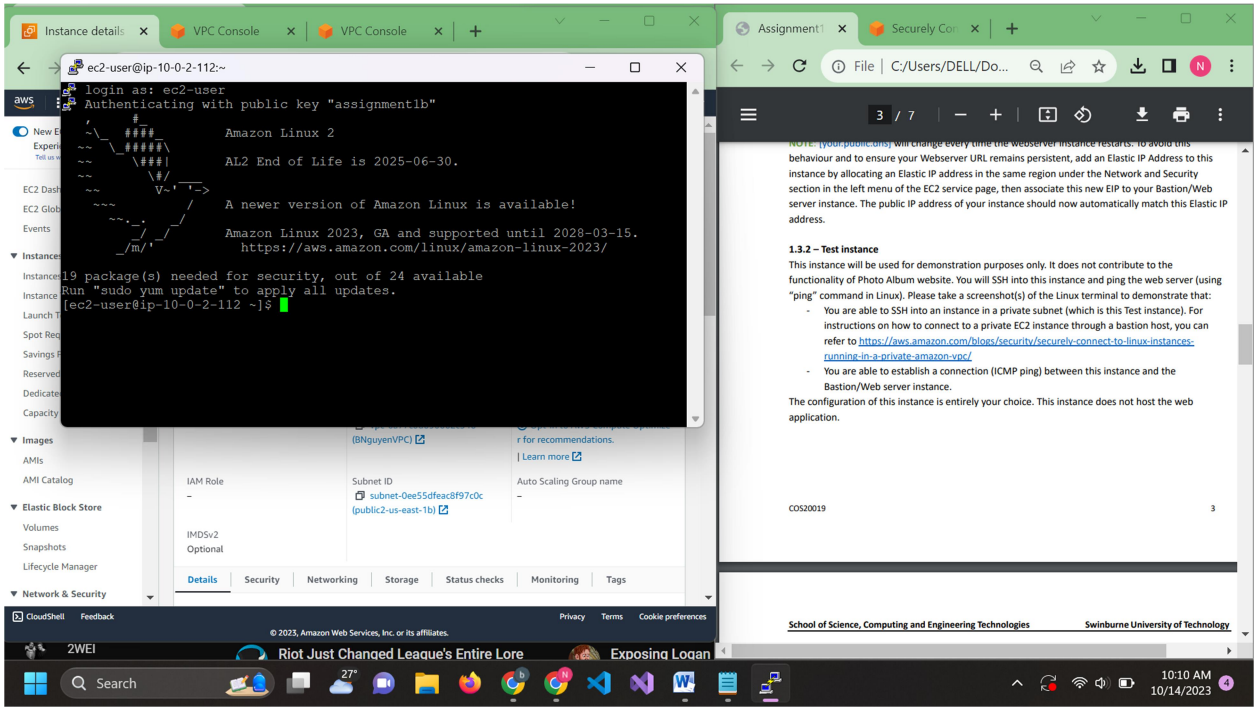
Accept





Go into puttyGen convert the created key

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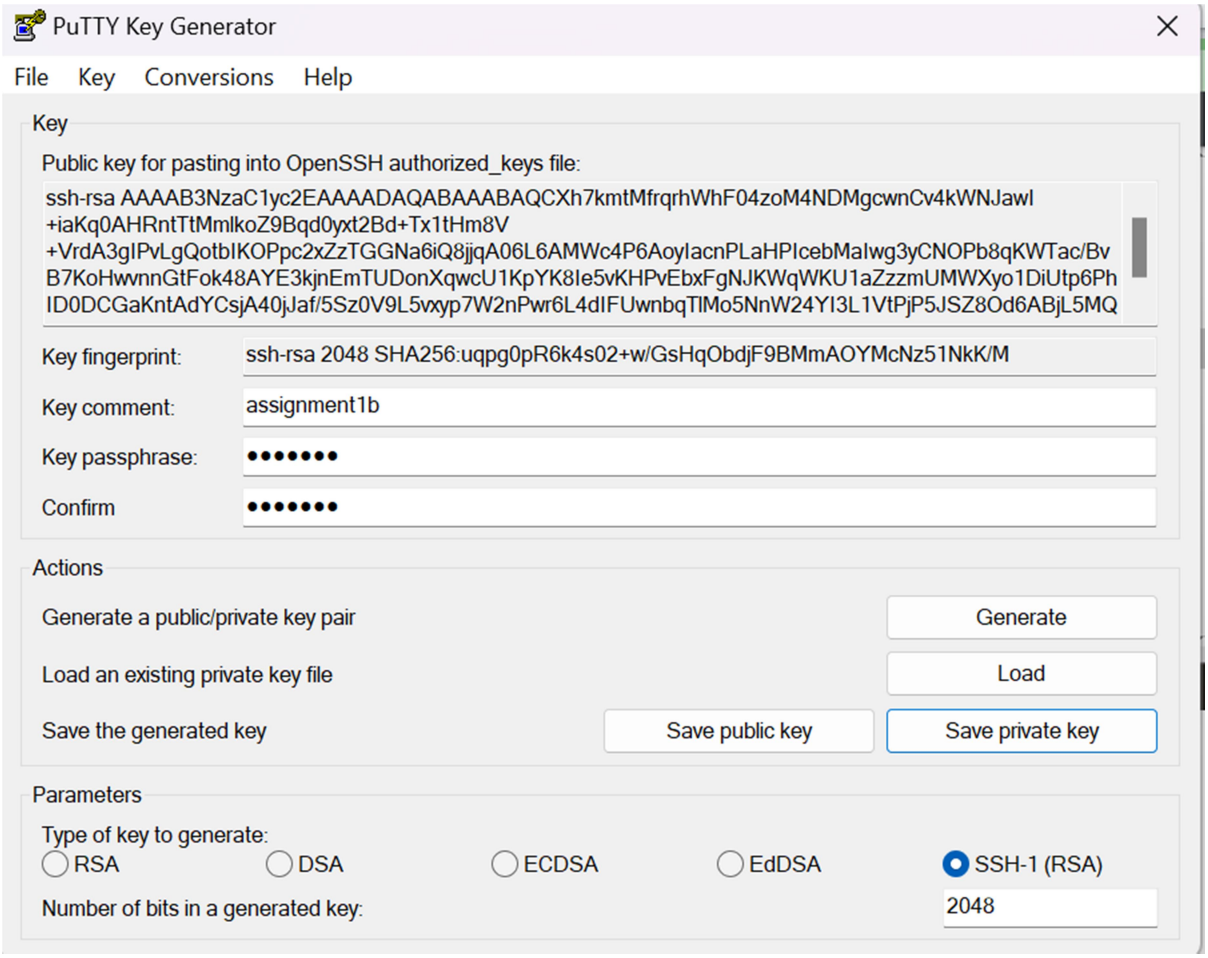

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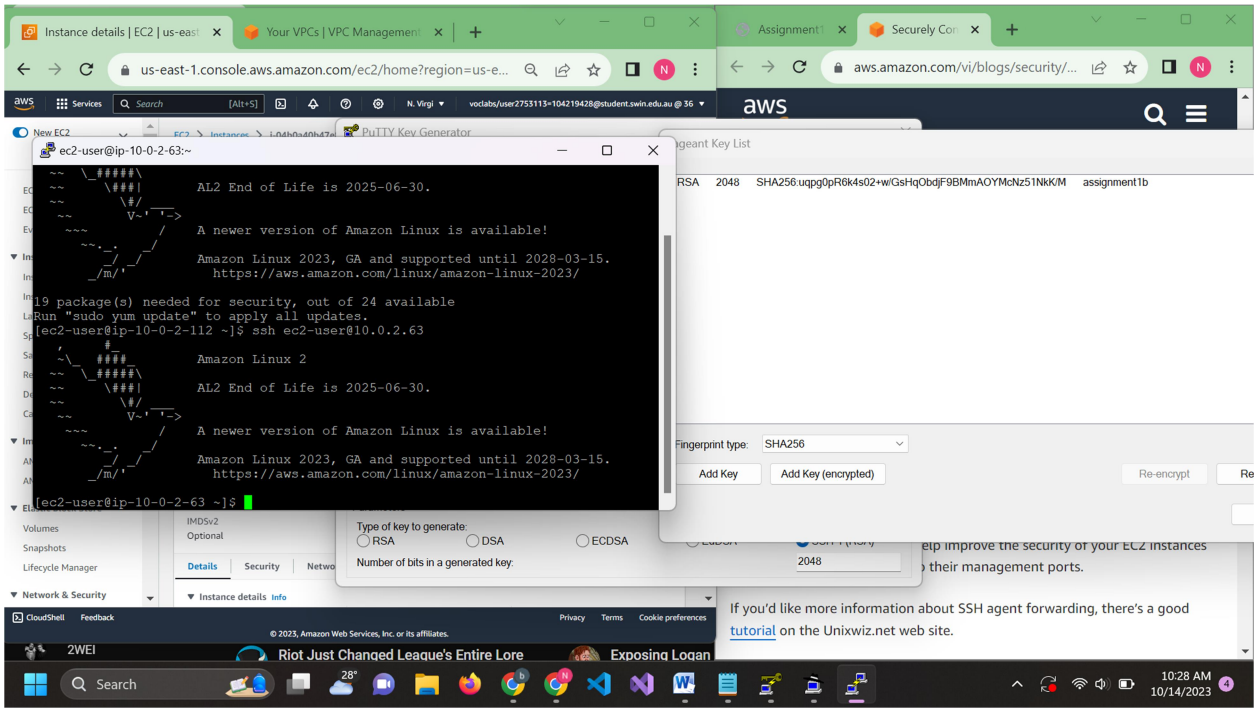
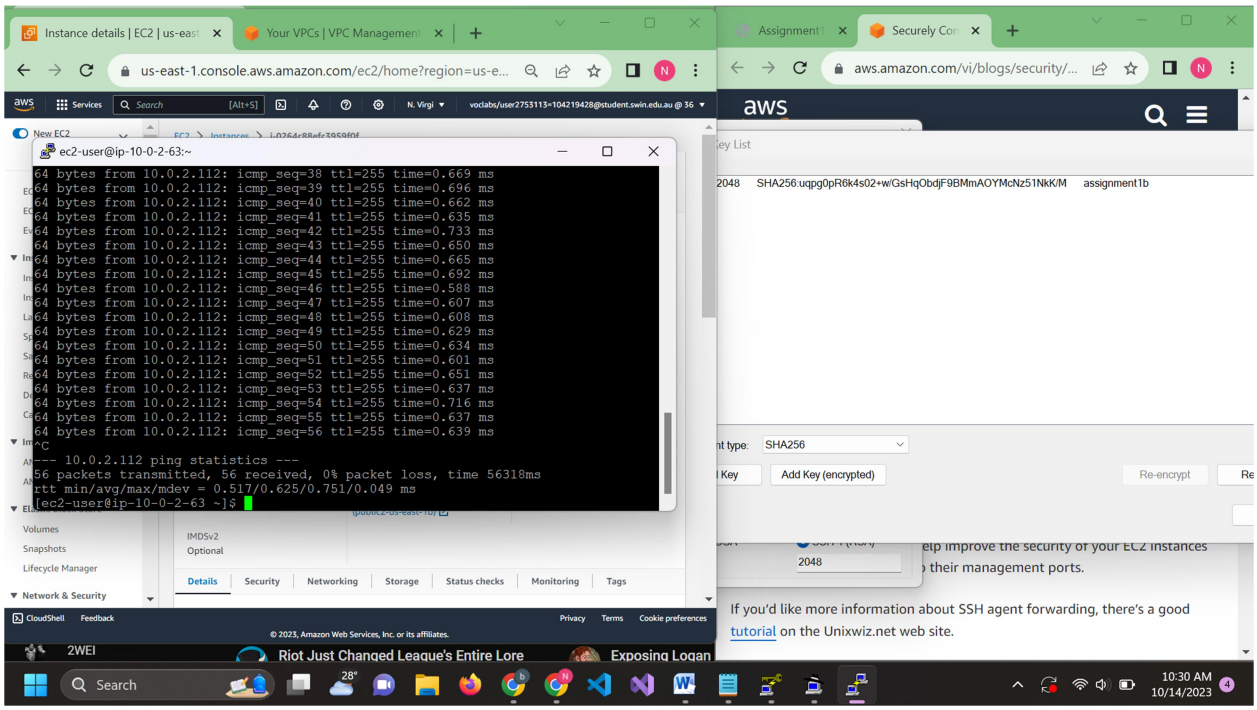
Go into putty and enter ssh ec2-user@10.0.2.63 (10.0.2.63 is the Test instance private ipv4)



Ping Bastion using it private IPv4



Step 5: crate RDS database instance

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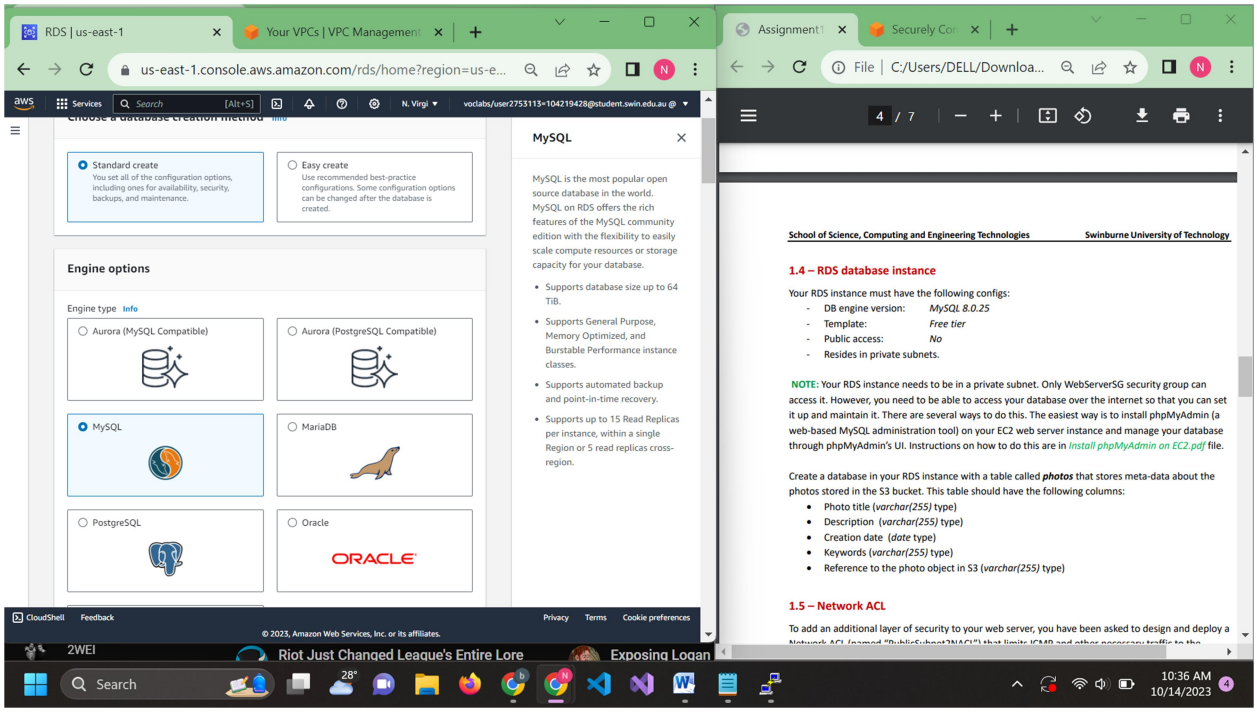

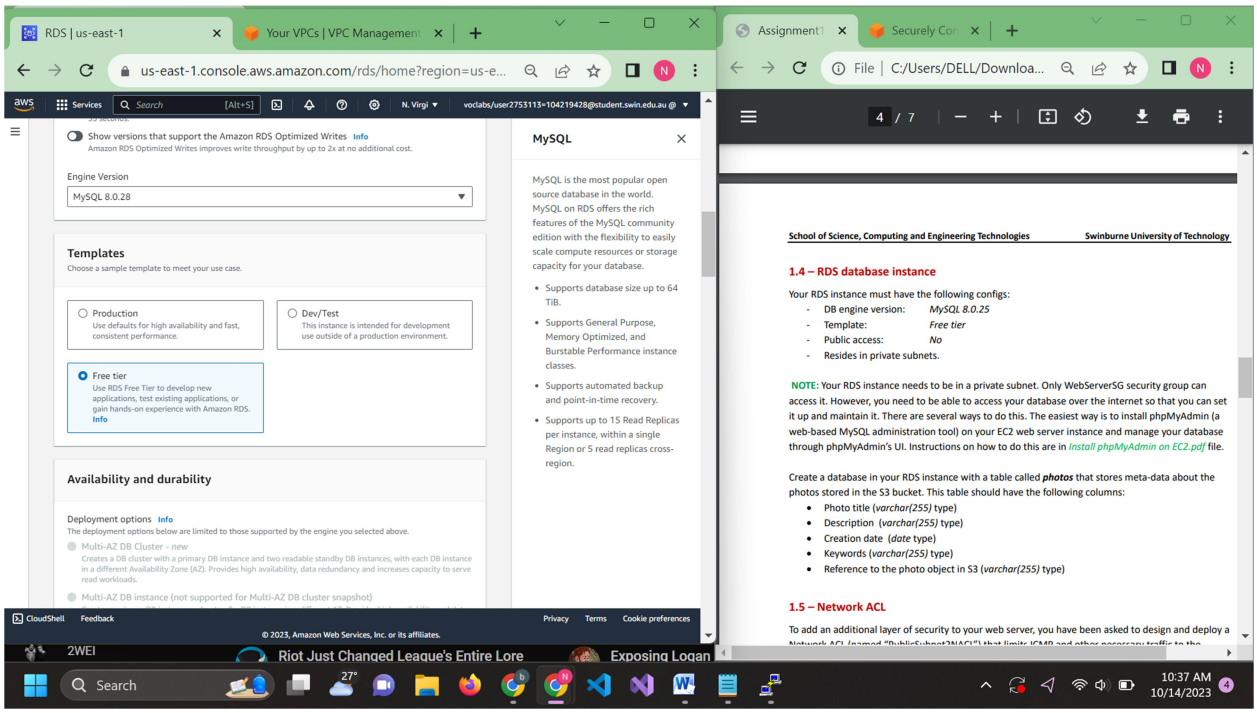

Password: lickmya707

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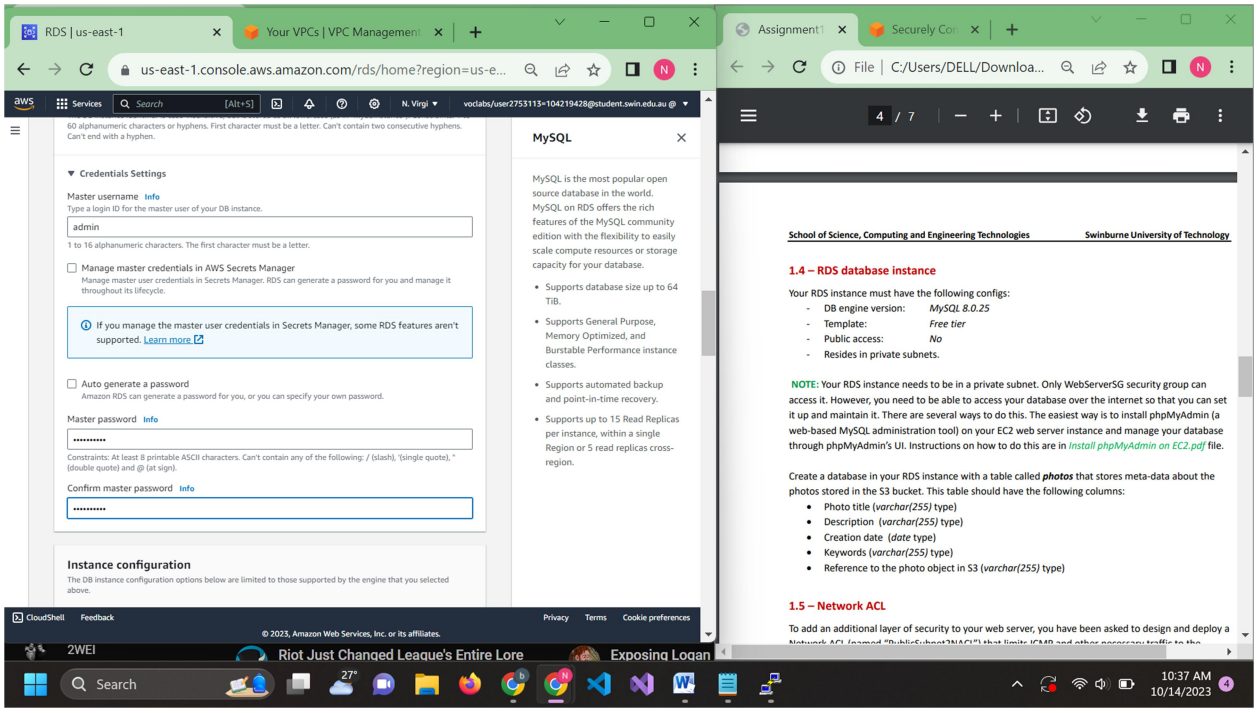

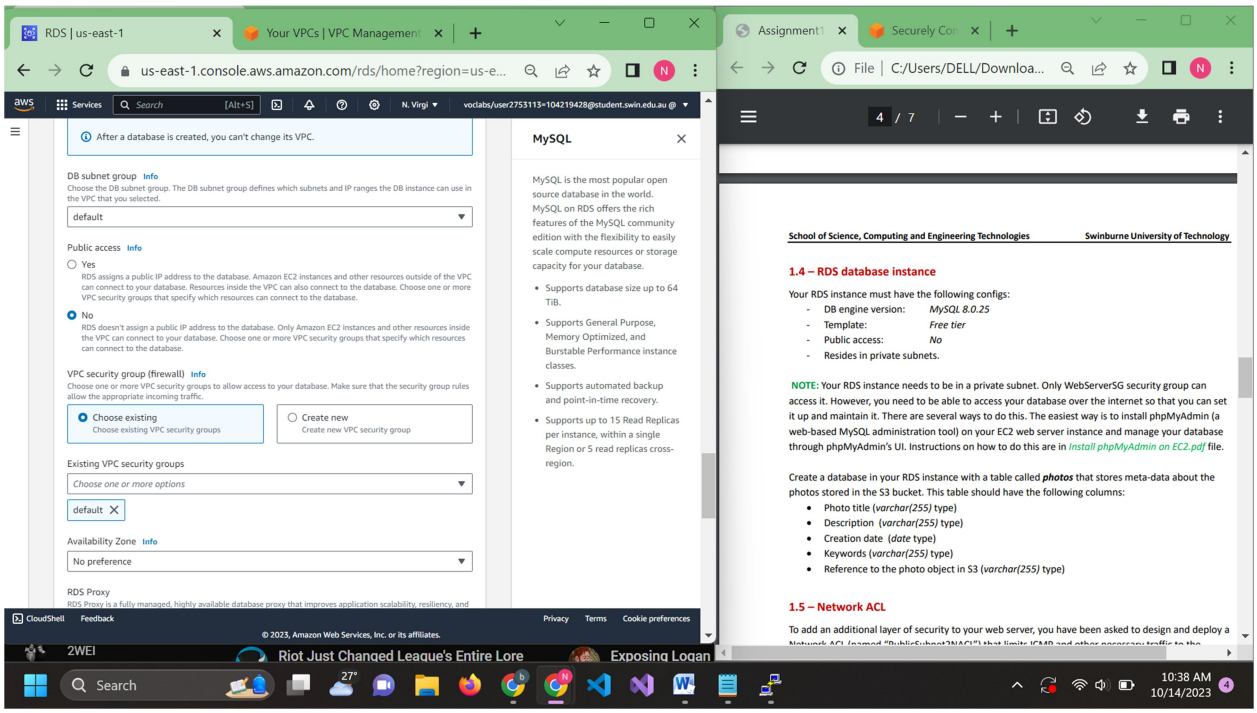

So I forgot to config subnet and put it in the database so let create the subnet group first

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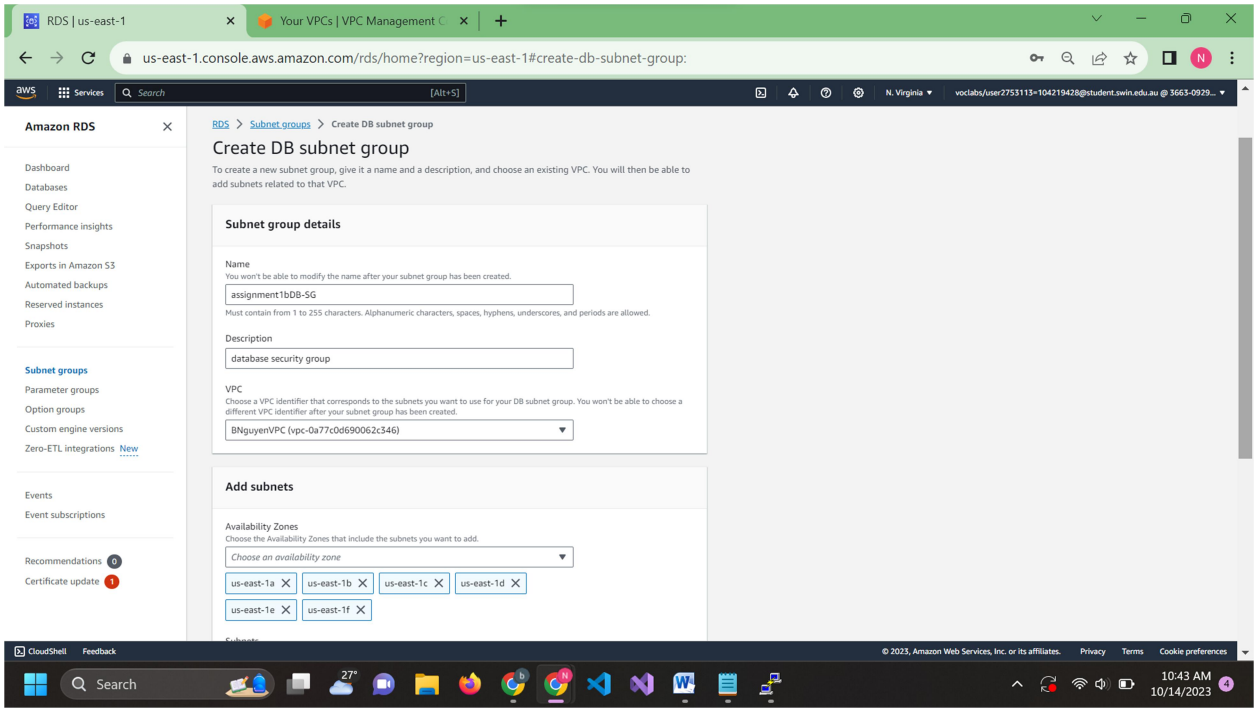
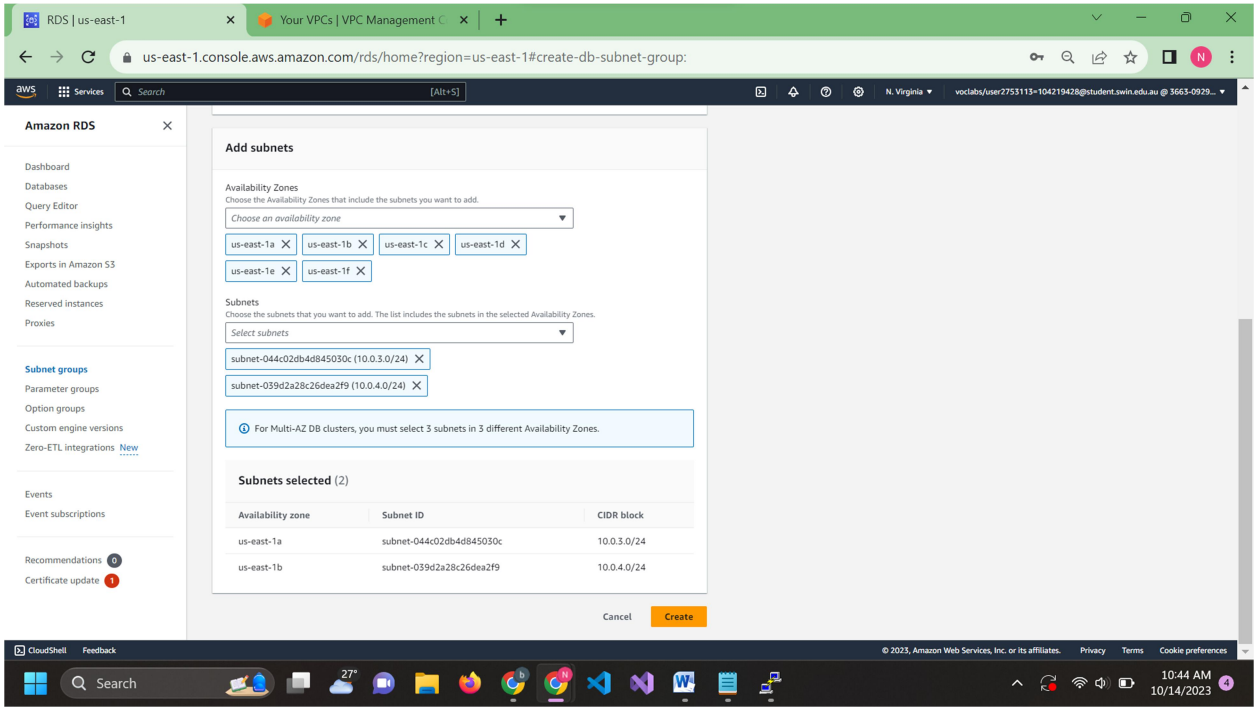


Select all the correspond private subnet



Config the database again but change the connectivity section

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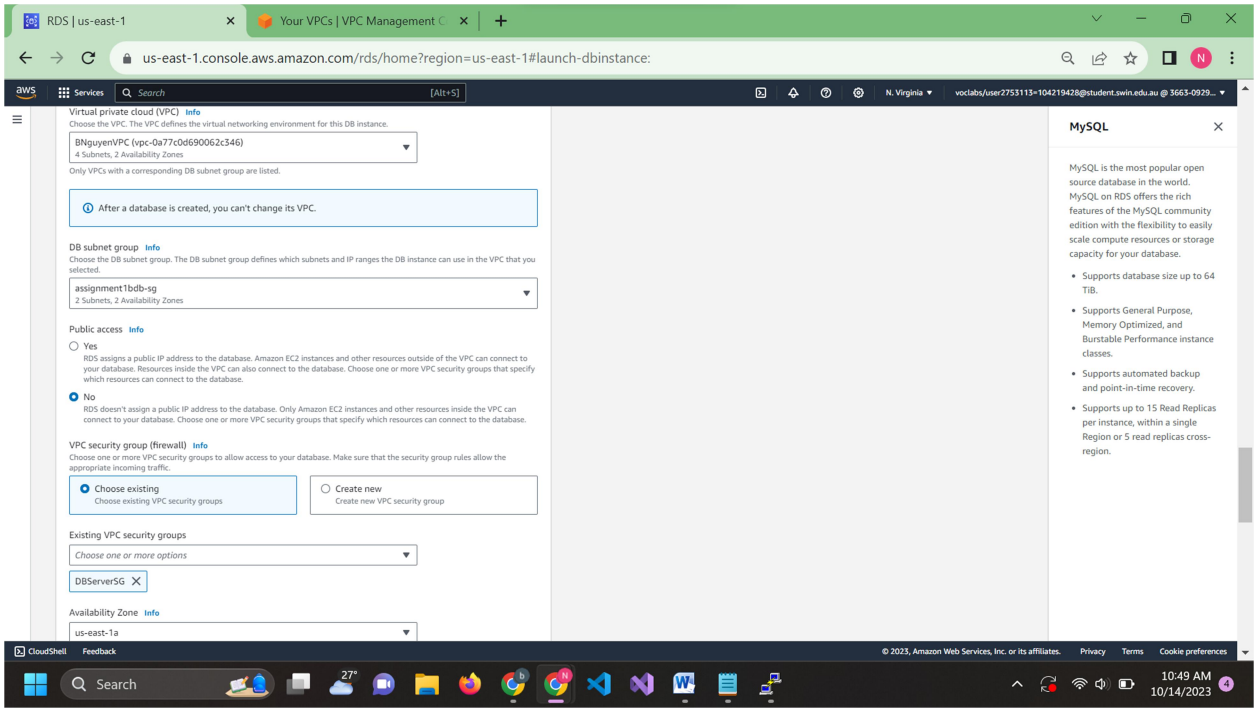

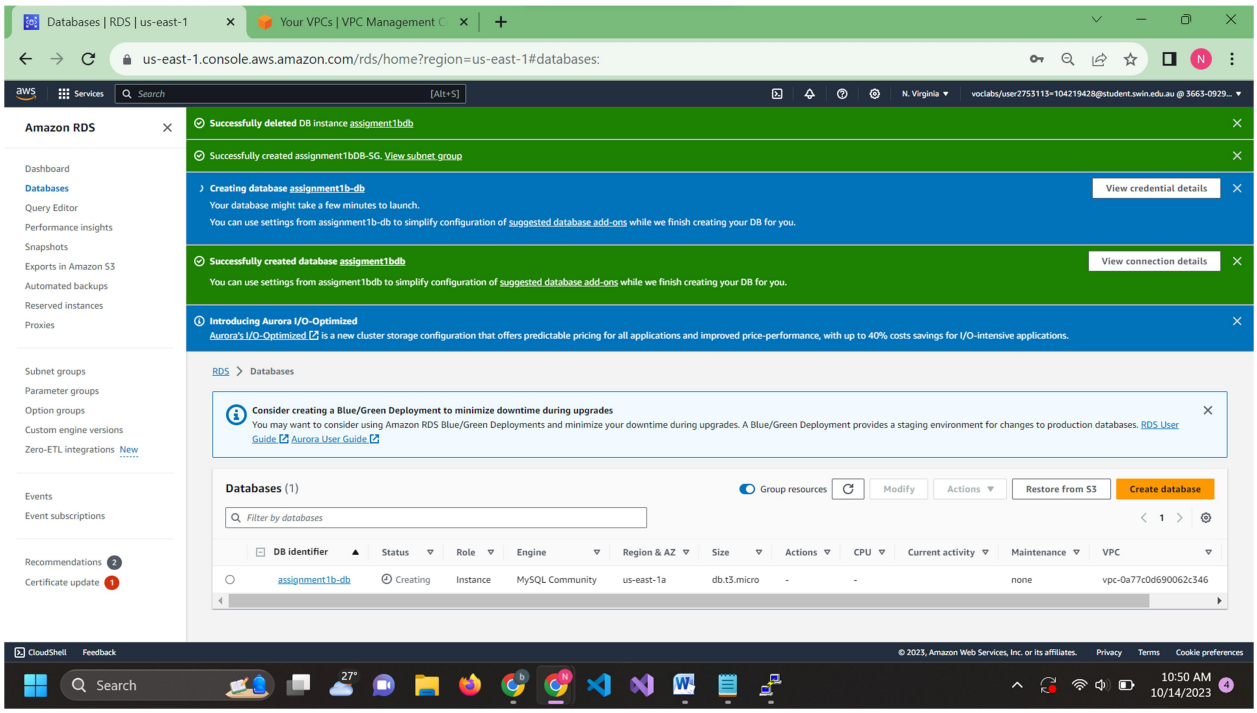

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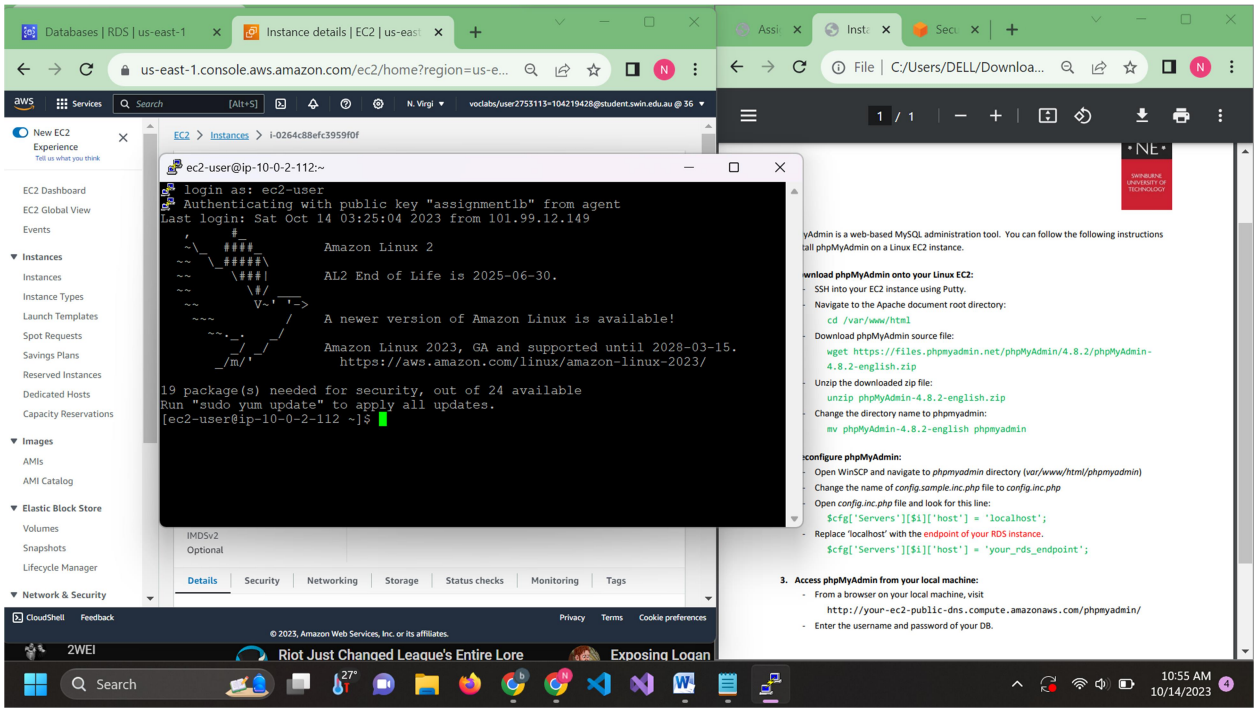
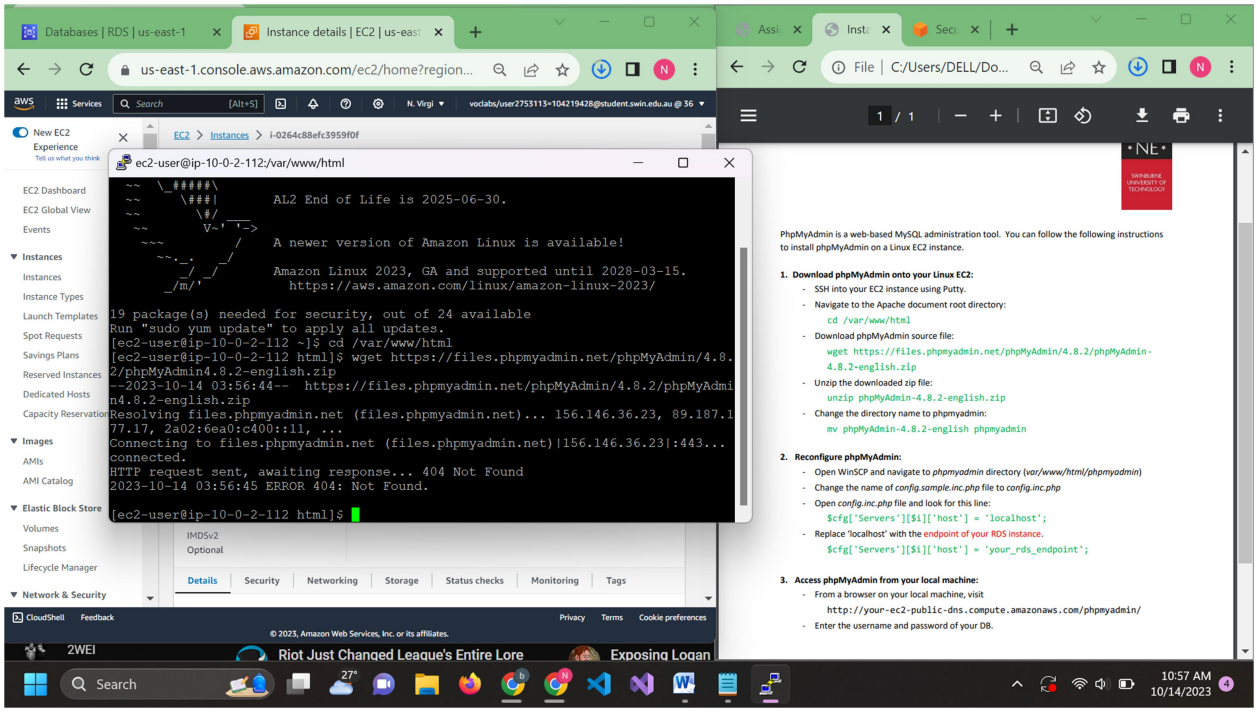
Access Putty again this time use Bastion public ipv4



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)



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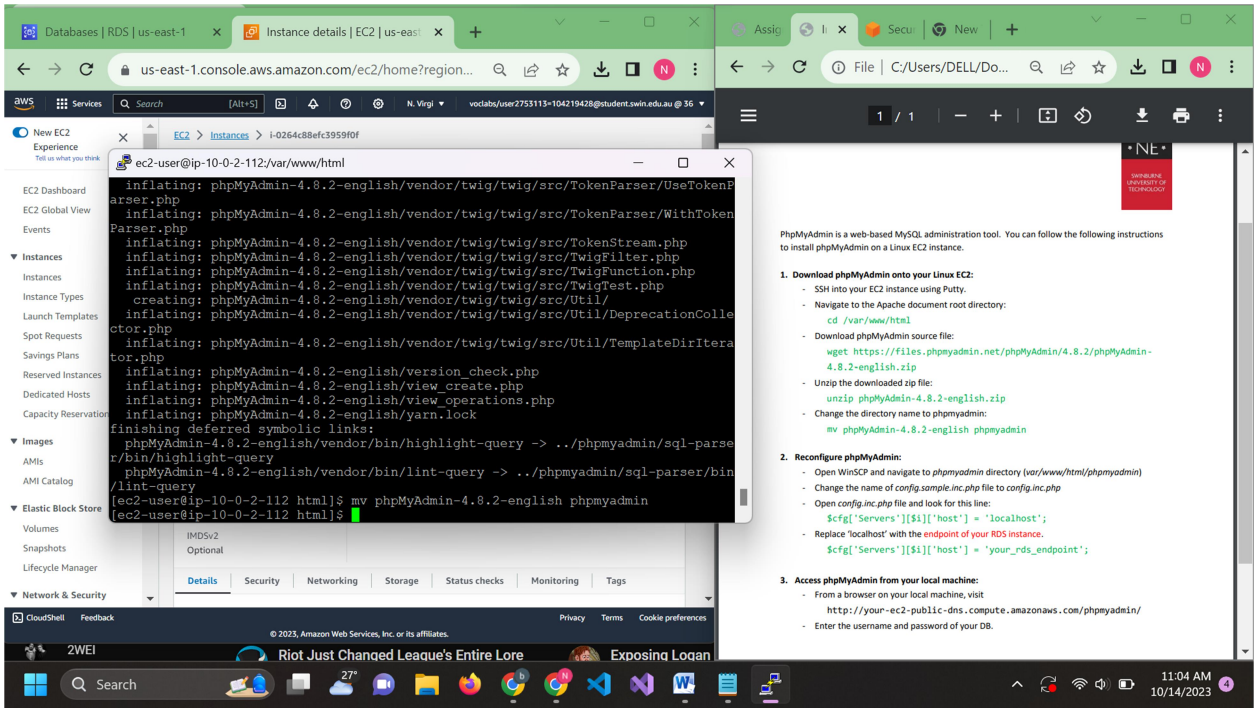
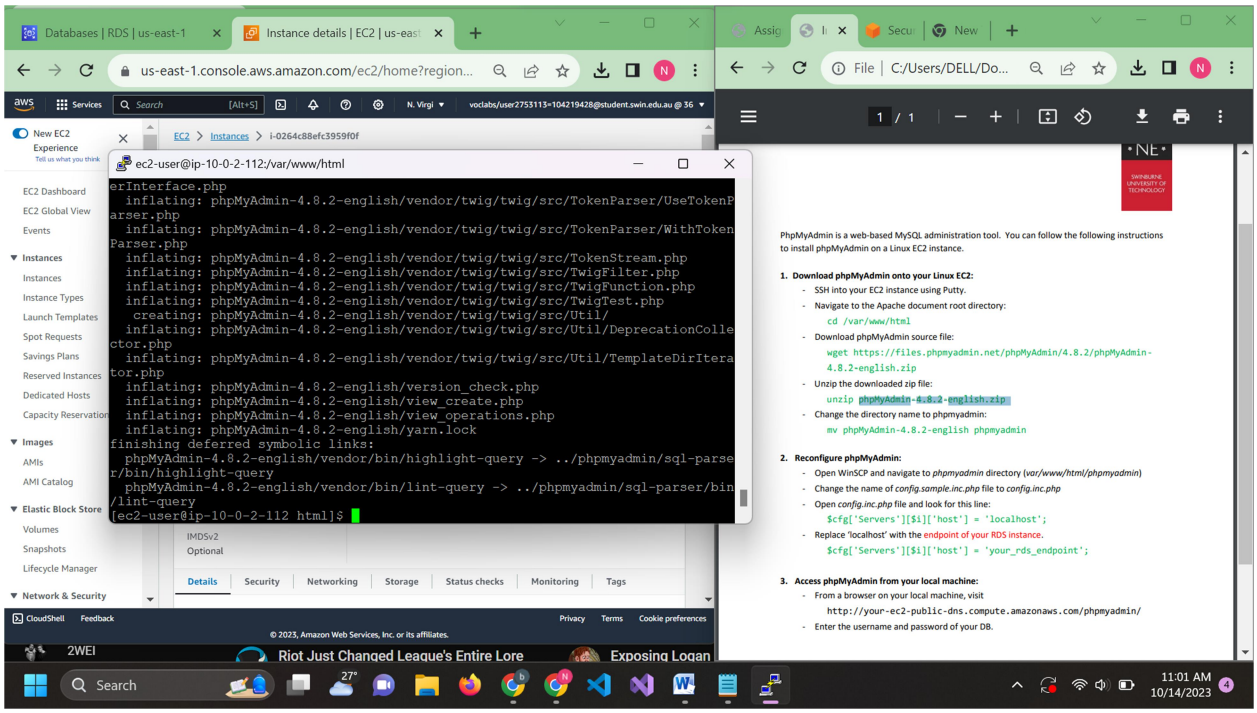
Unzip the file





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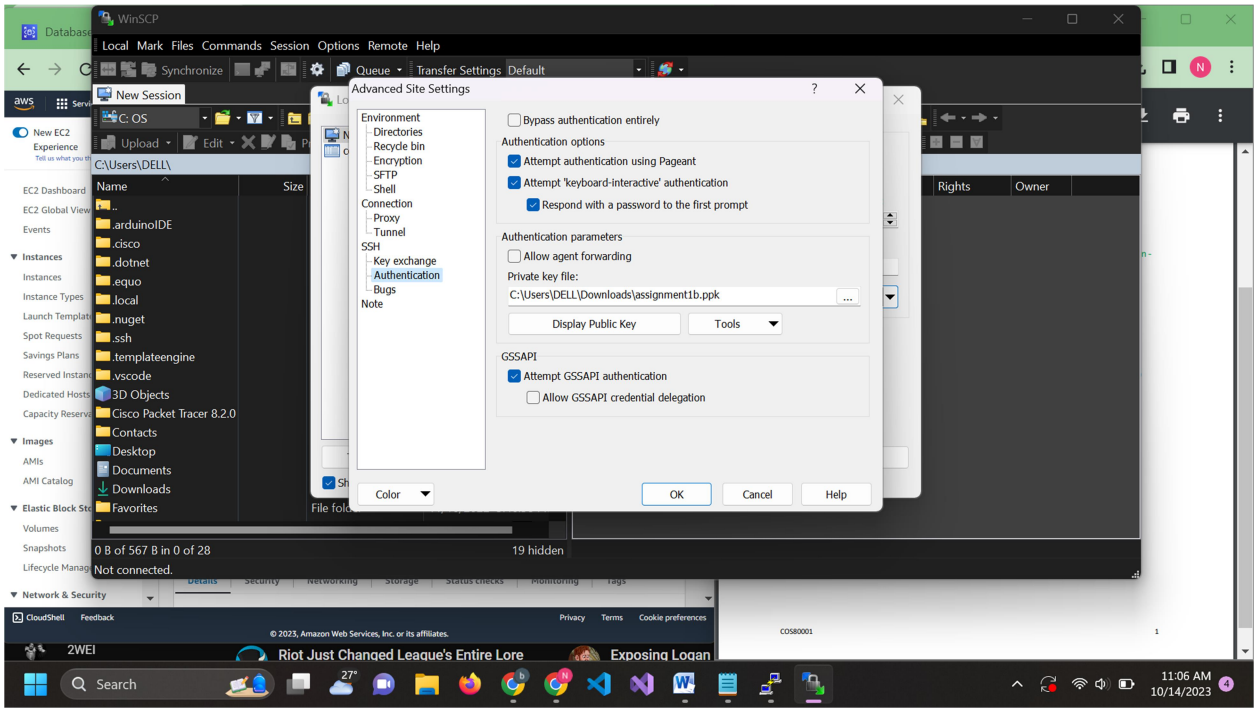
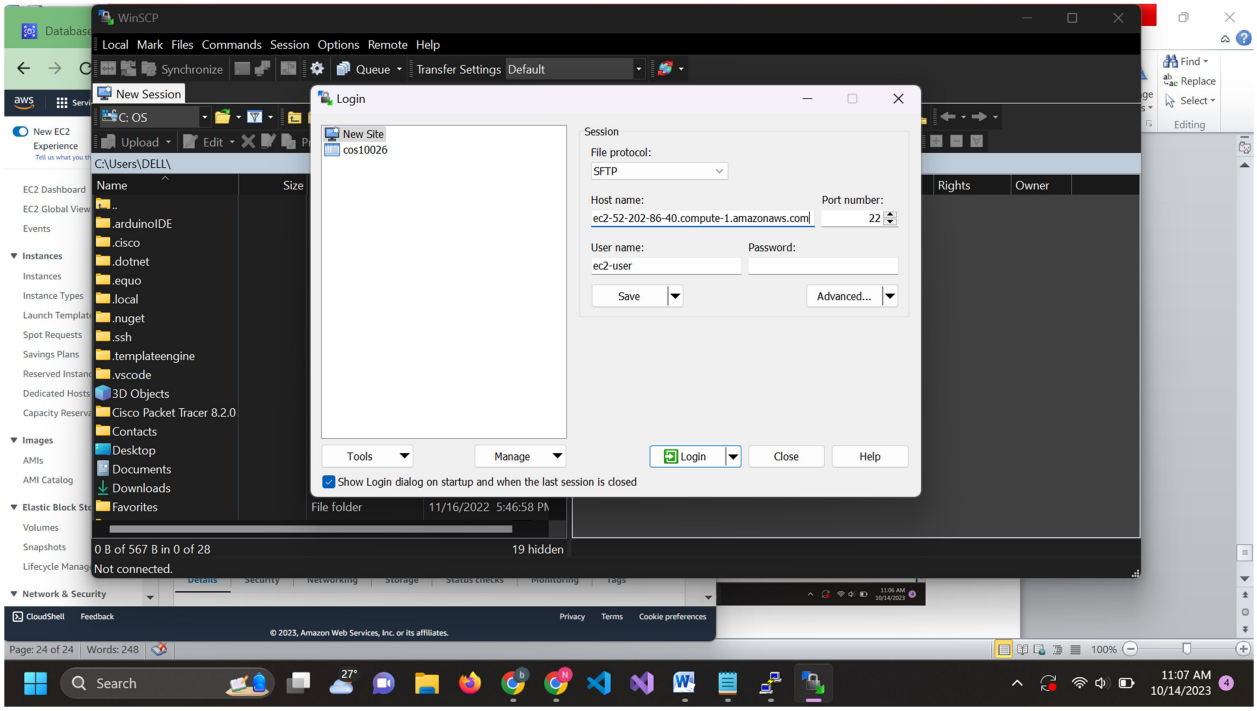
Go into WinSCP to access the Bastion using public DNS i think





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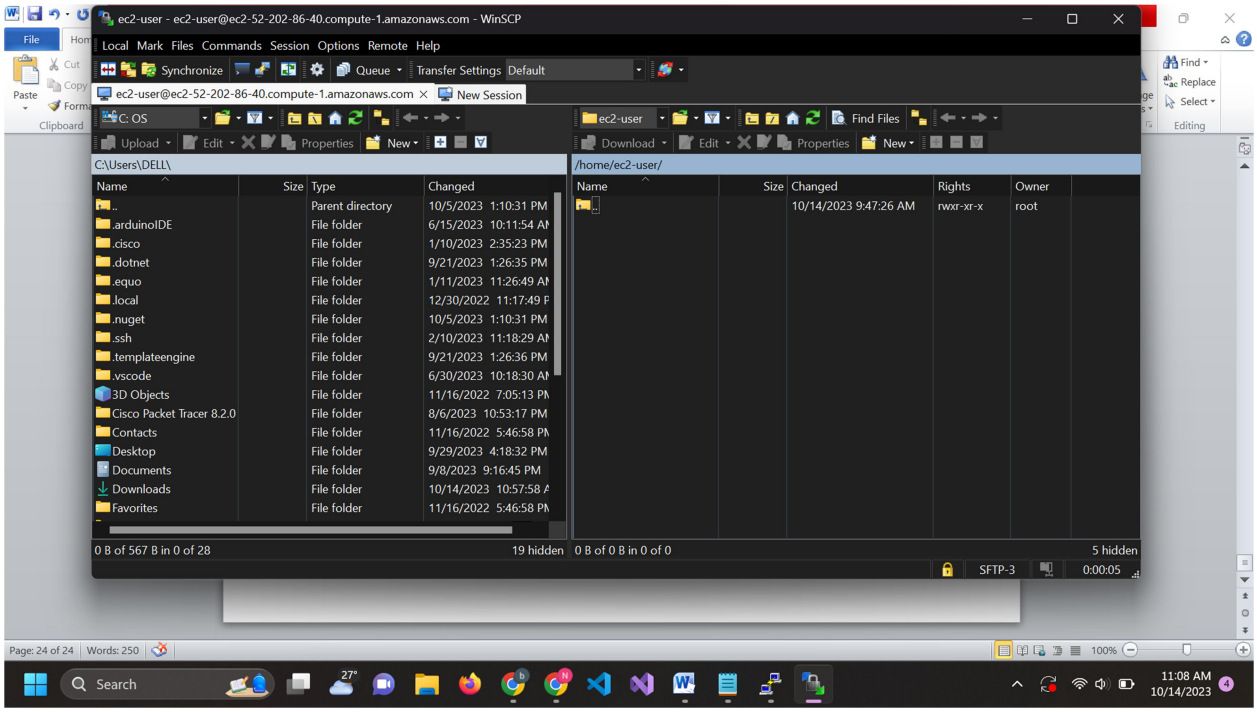
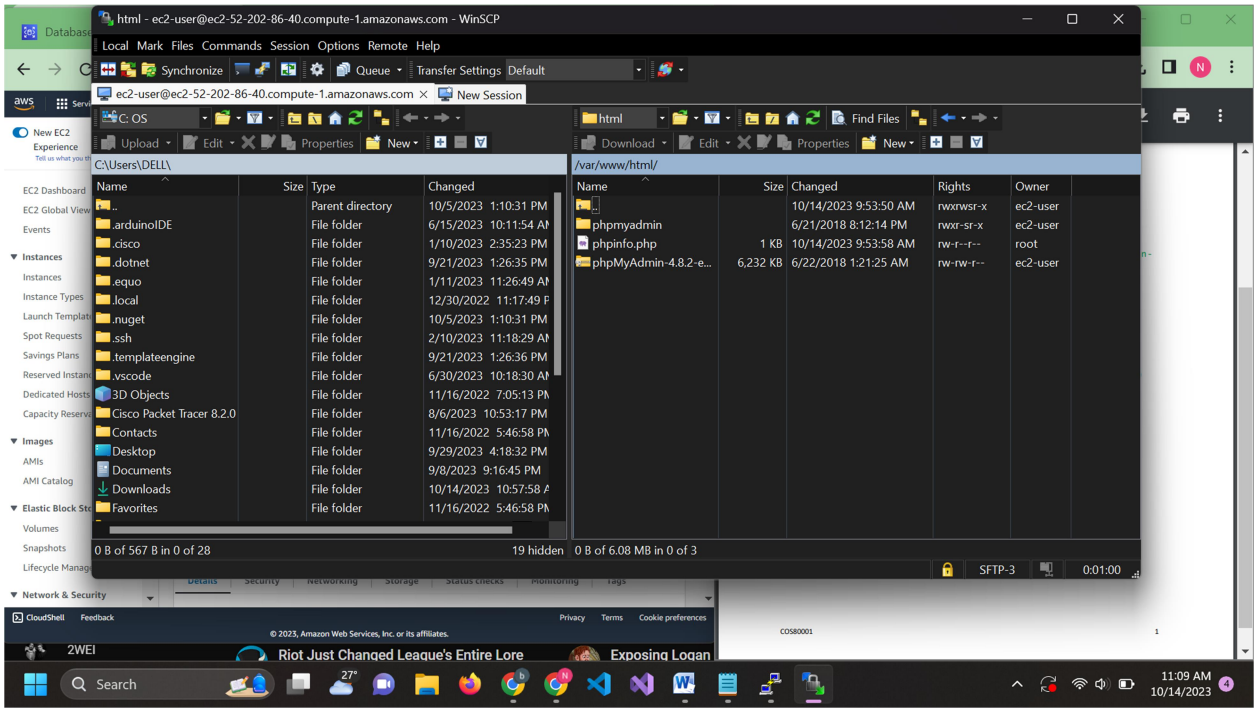


Access this directory



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

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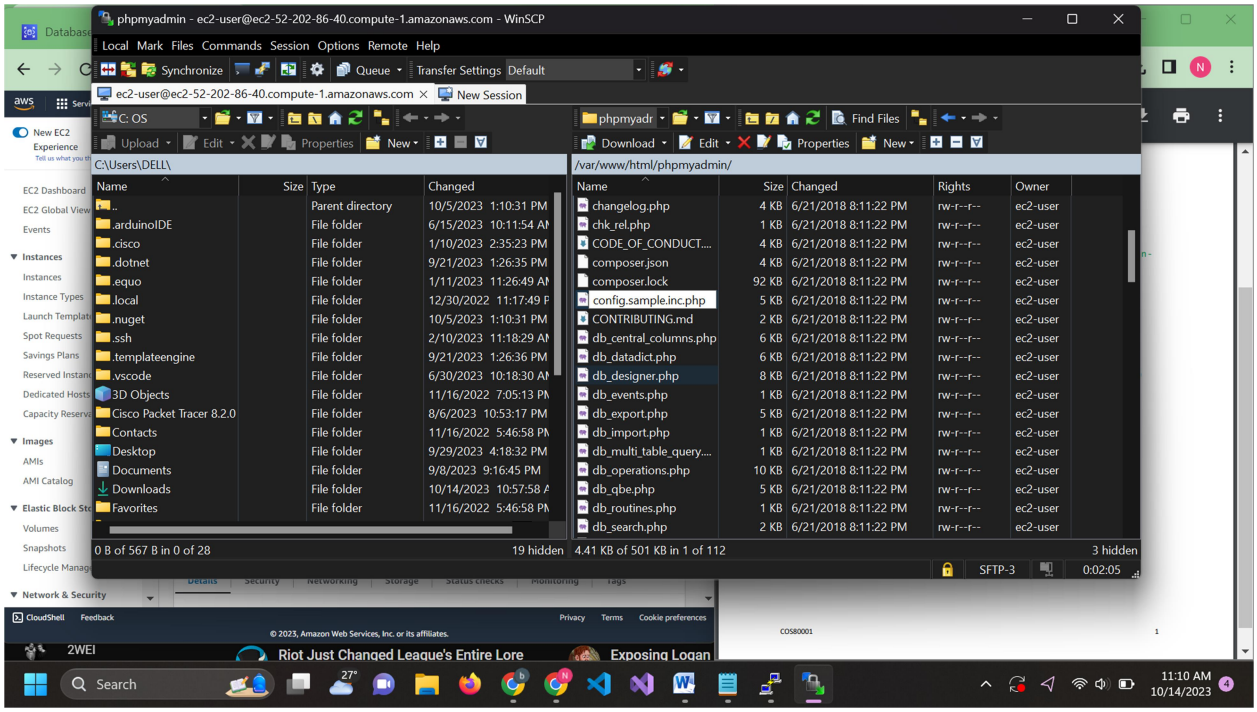
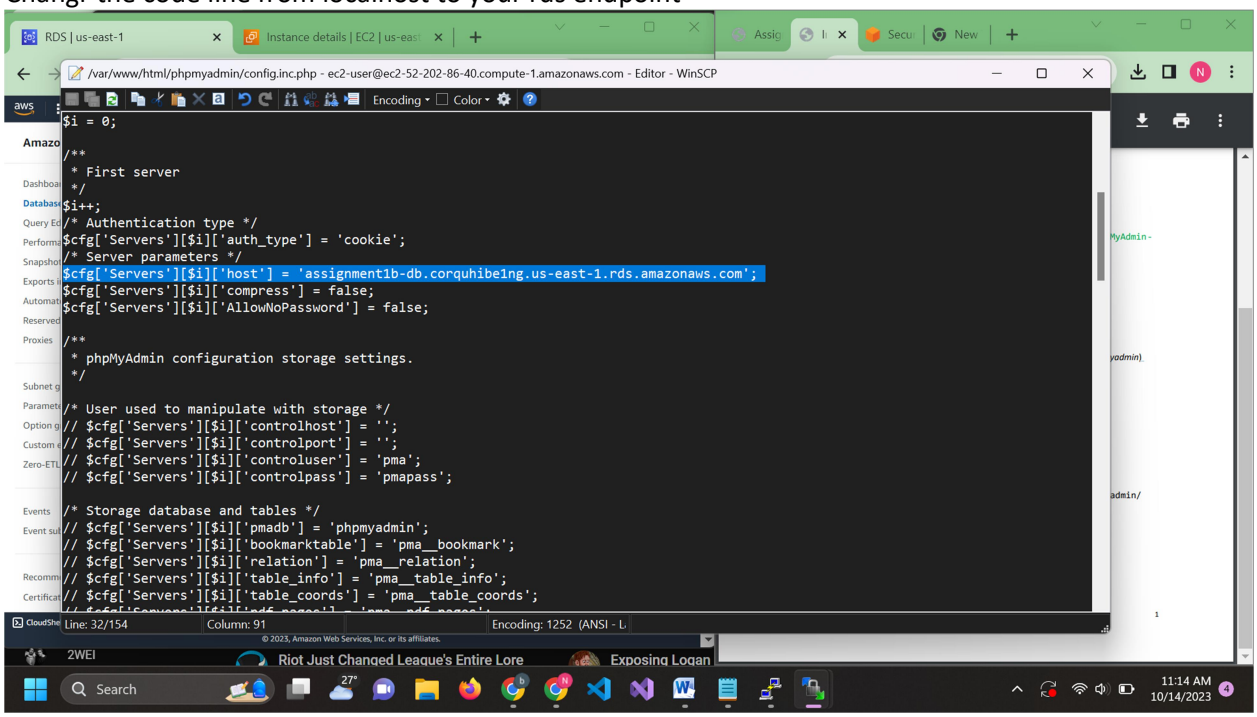


Changr the code line from localhost to your rds endpoint



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

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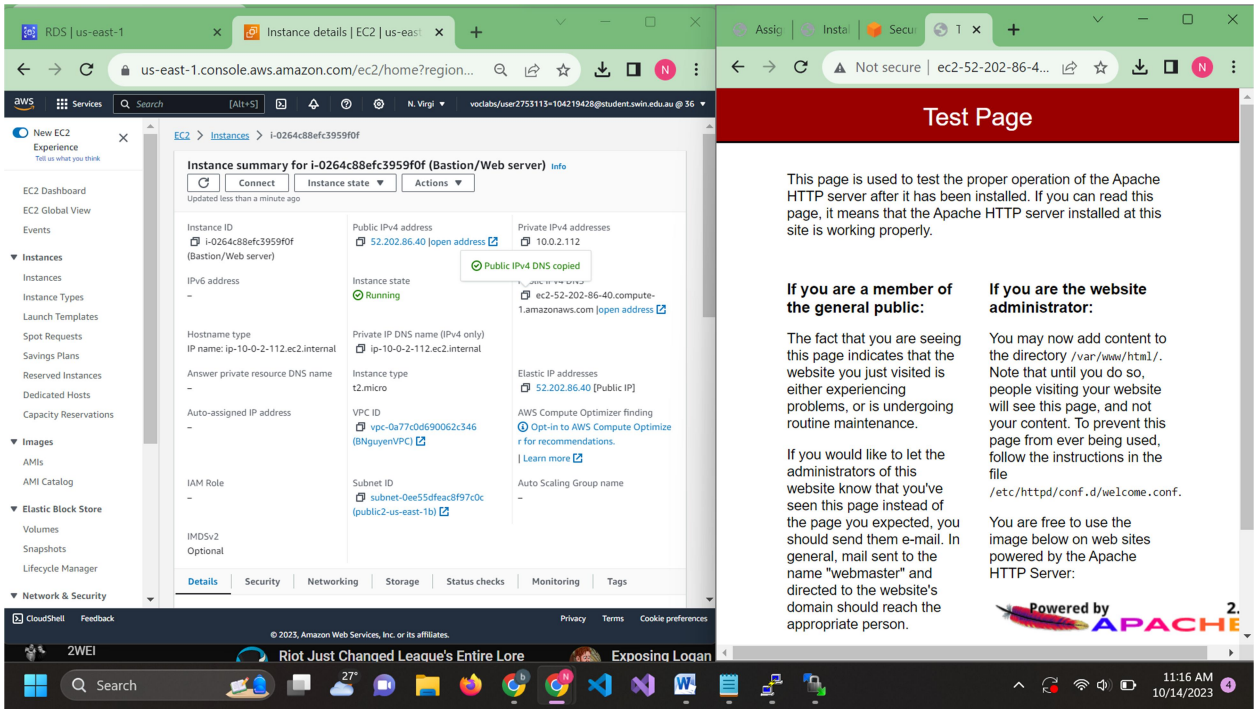
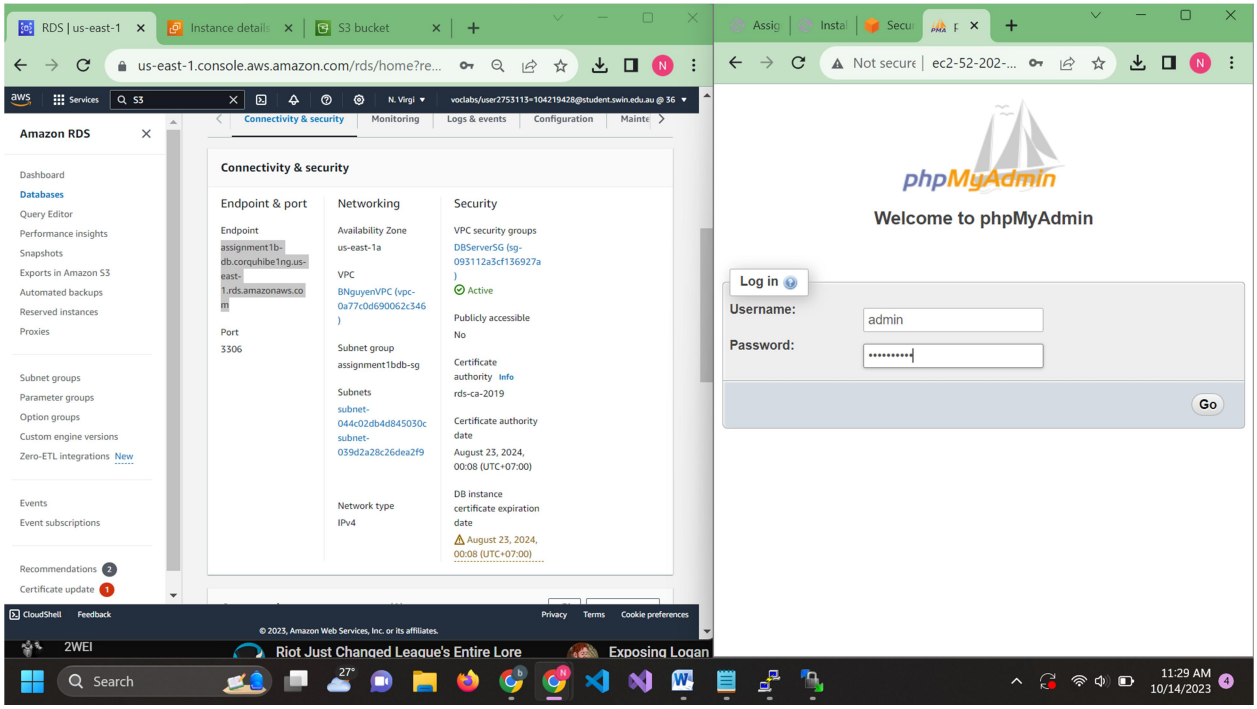


Endpoint link with /phpmyadmin



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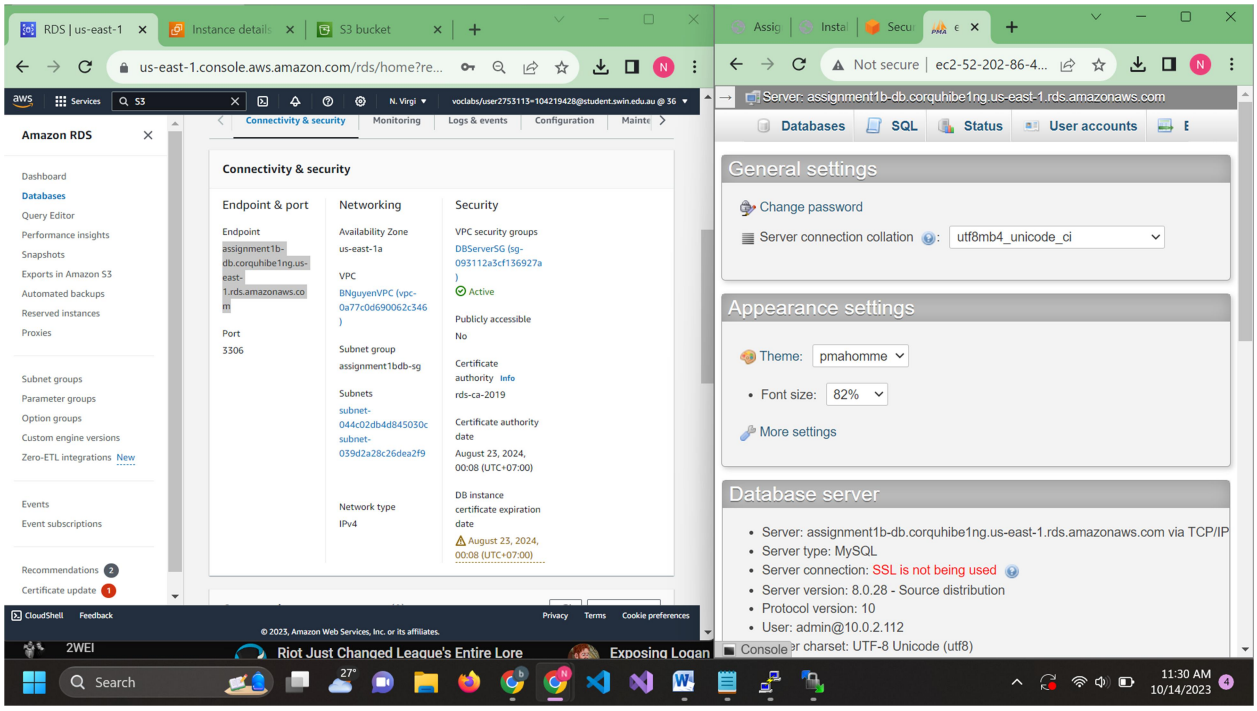

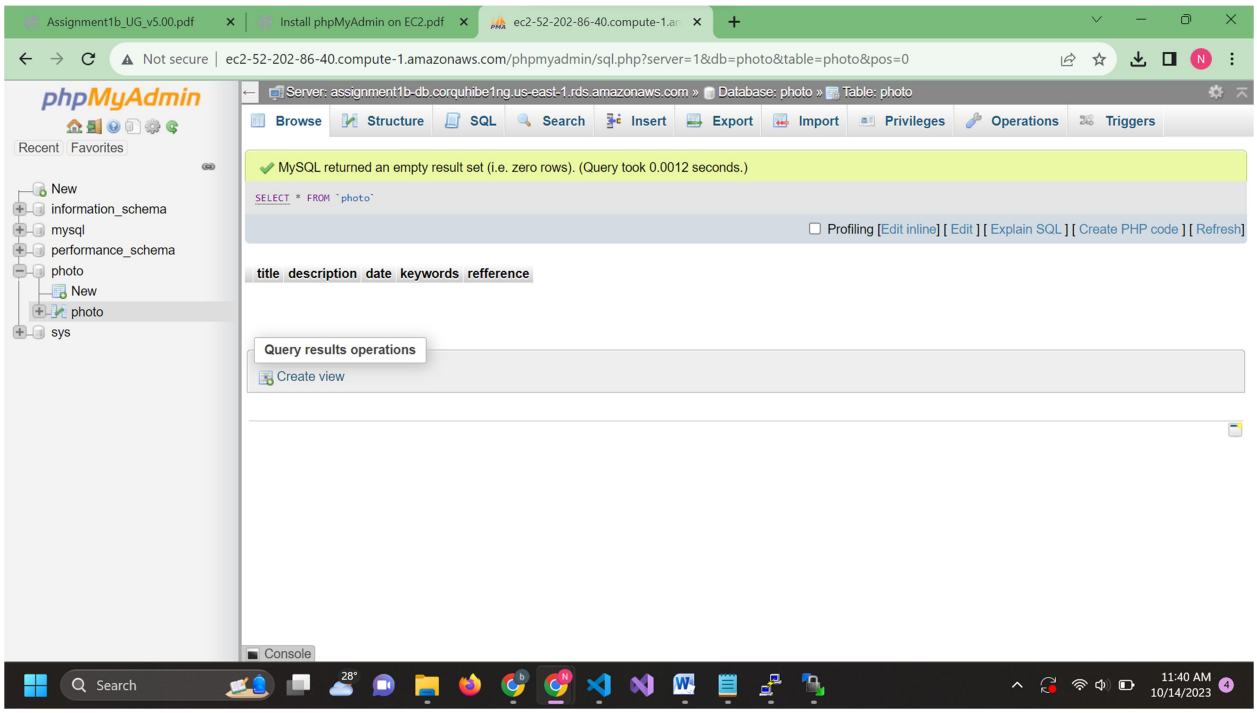

The table above is created using SQL command

Step 6: Create S3 bucket

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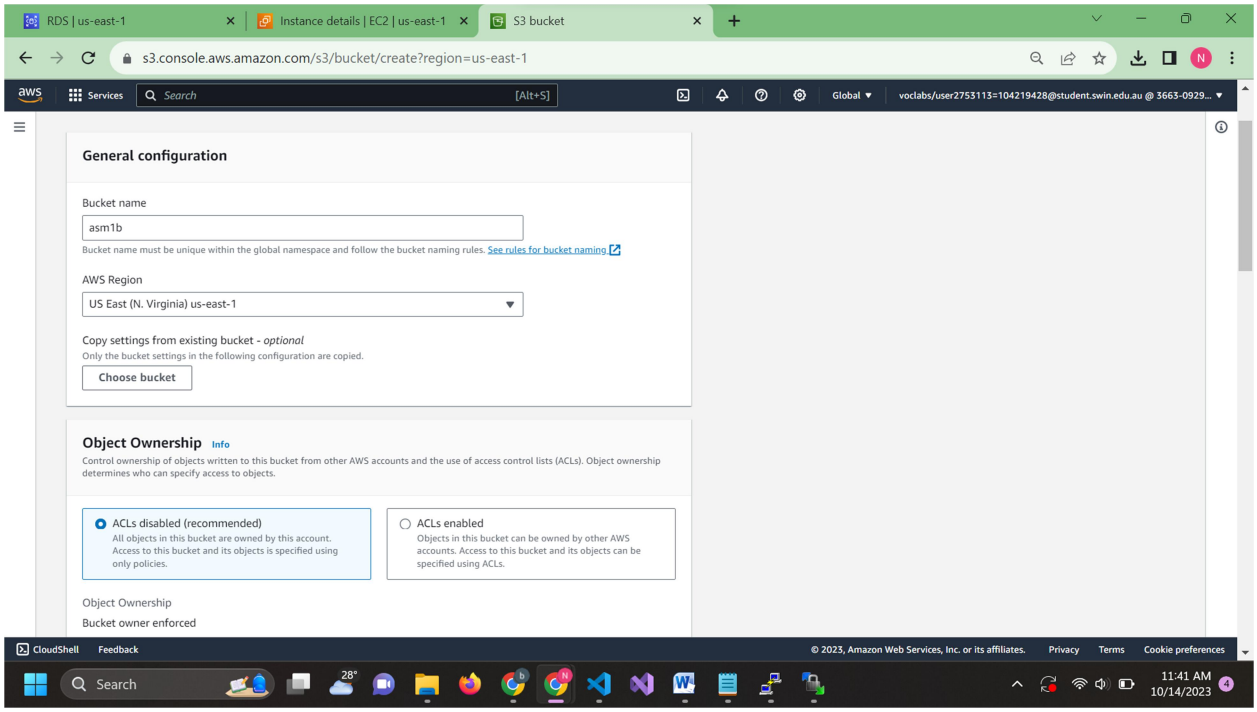

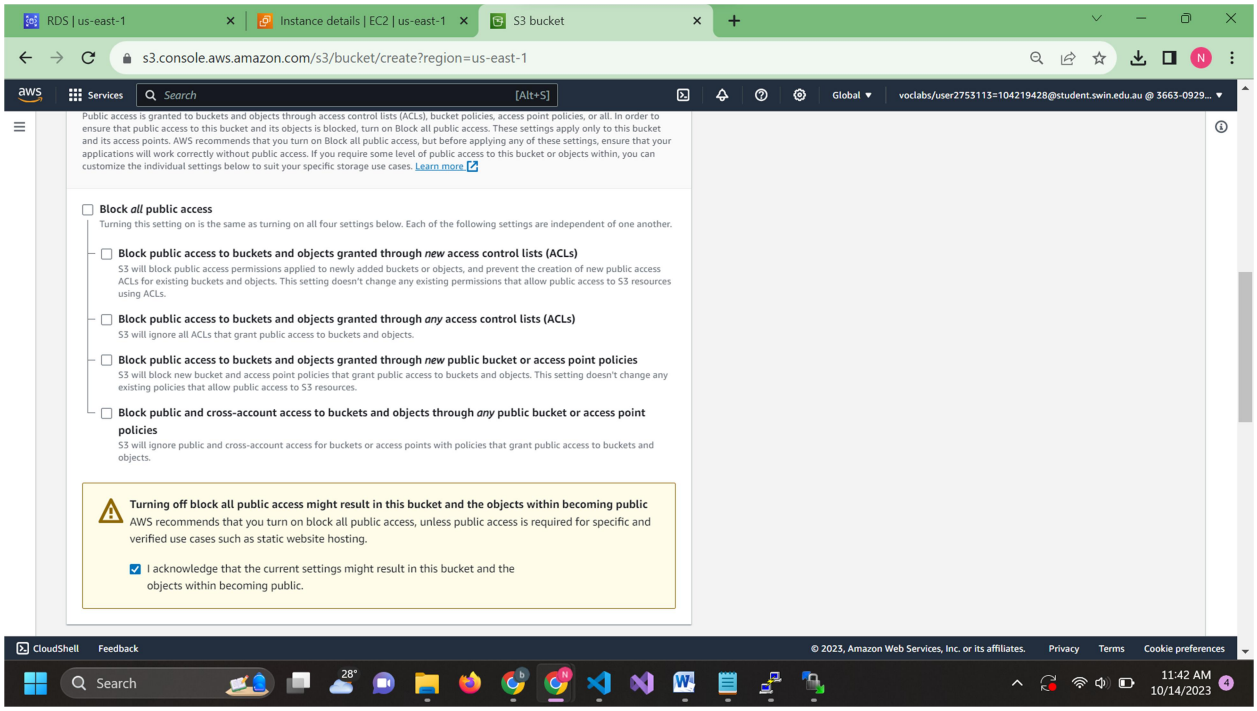

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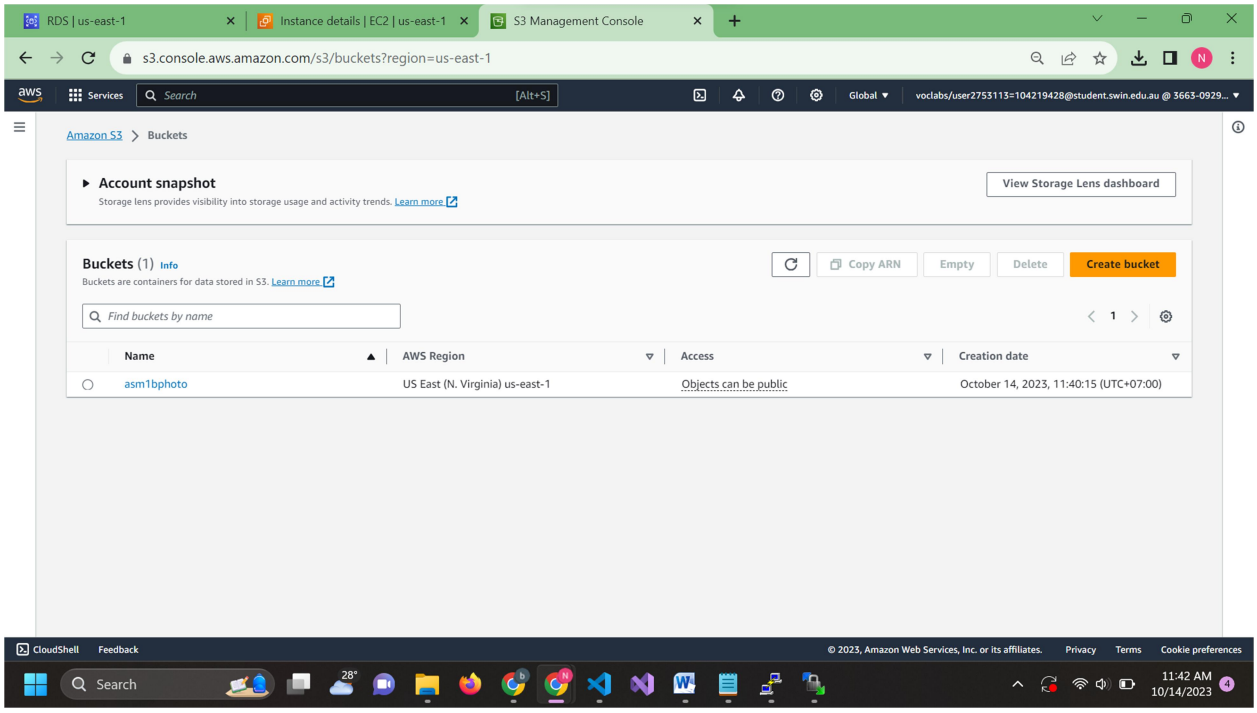
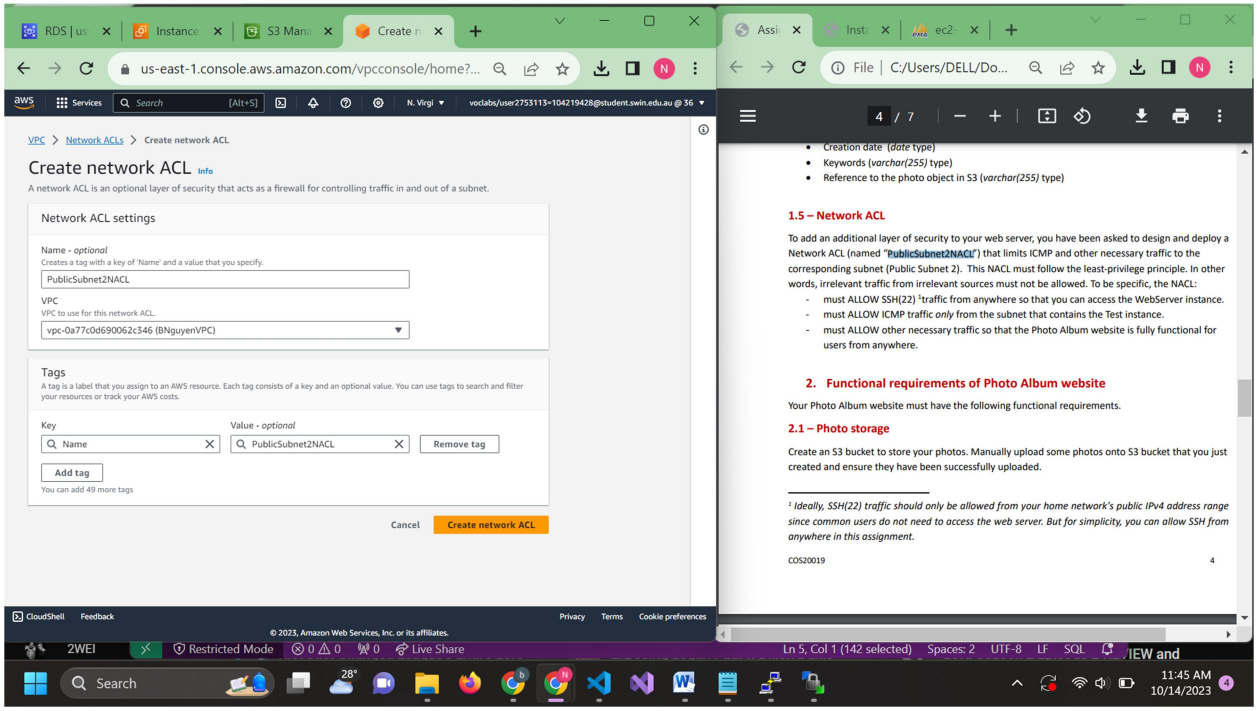


Step 7: Create network ACLs



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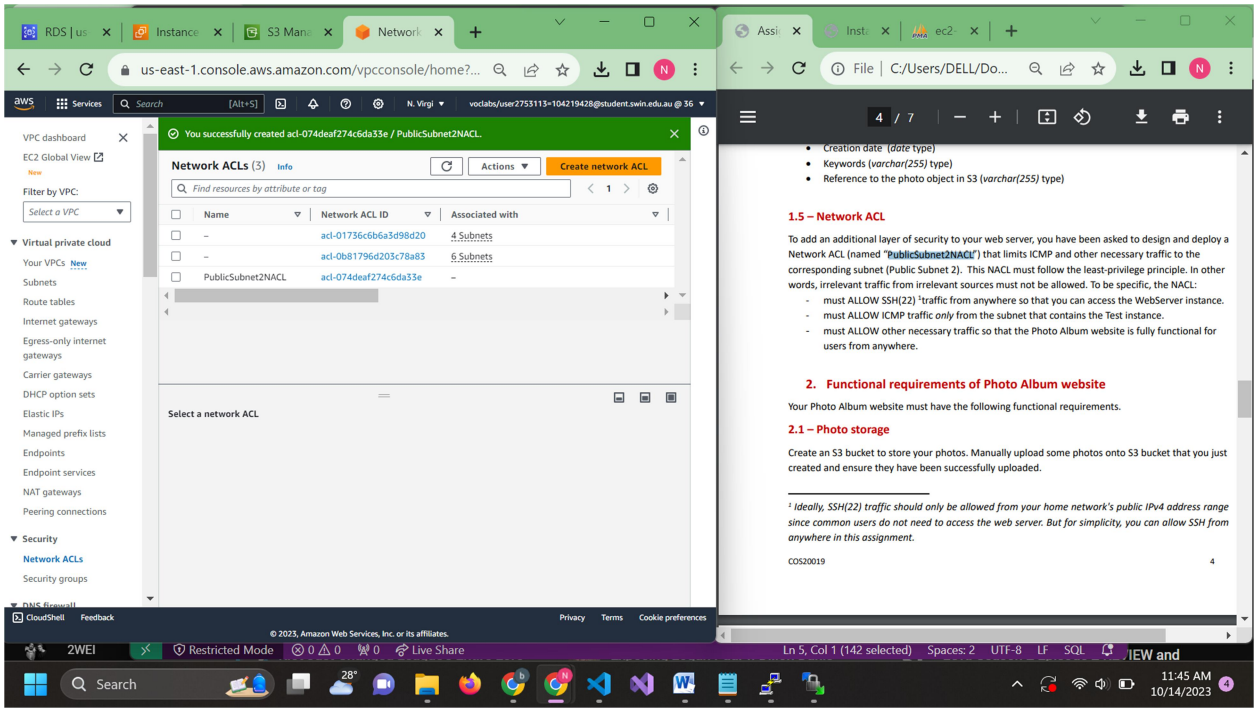
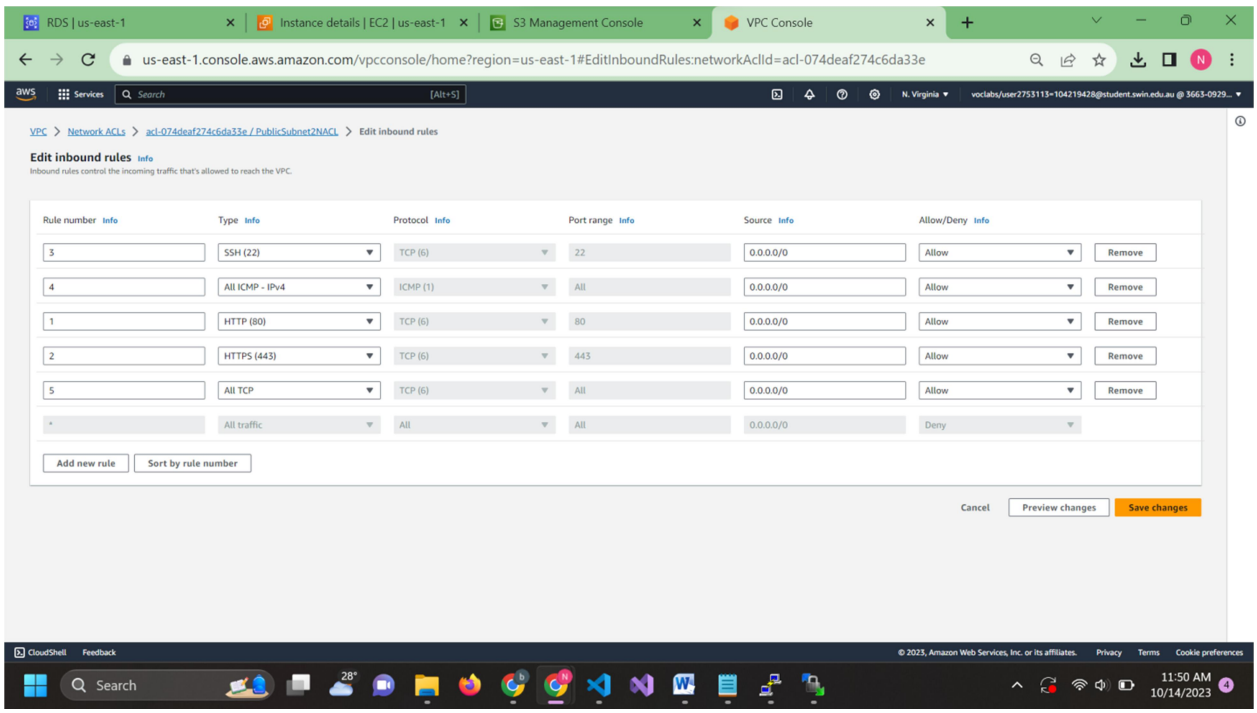
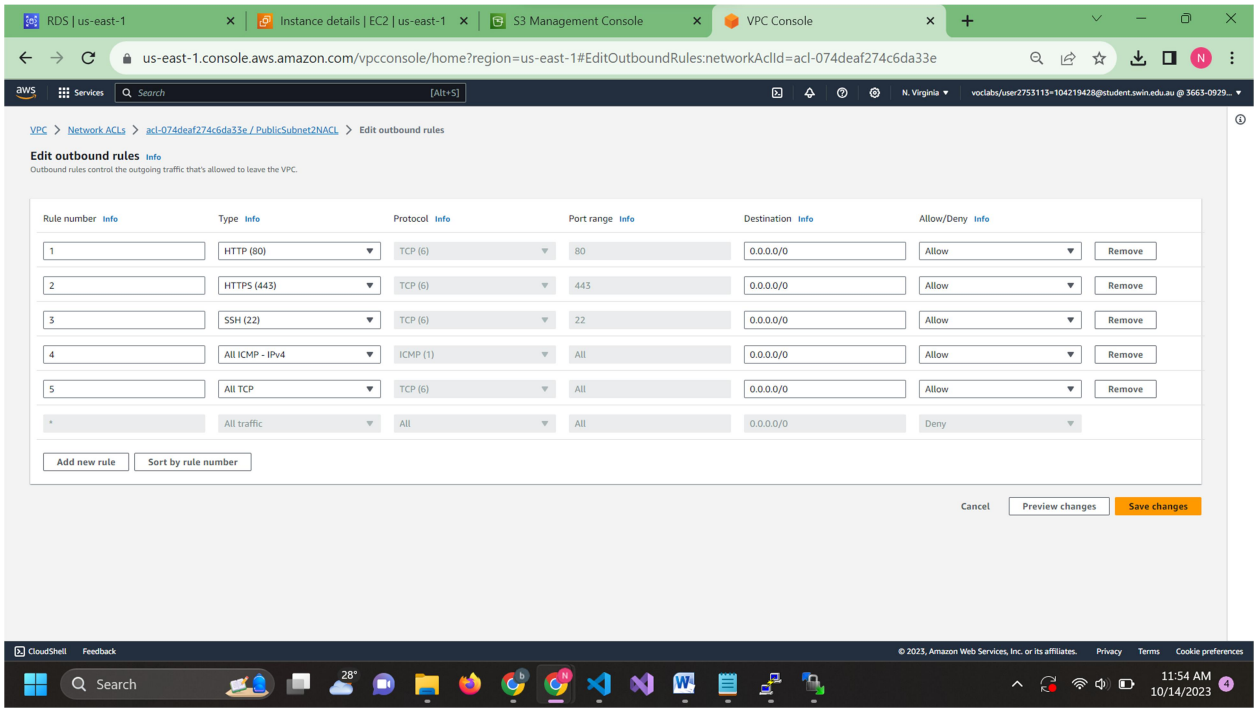


Choose the Network acl you created and go into action to edit inbound/outbound and subnet association so it can be access from anywhere

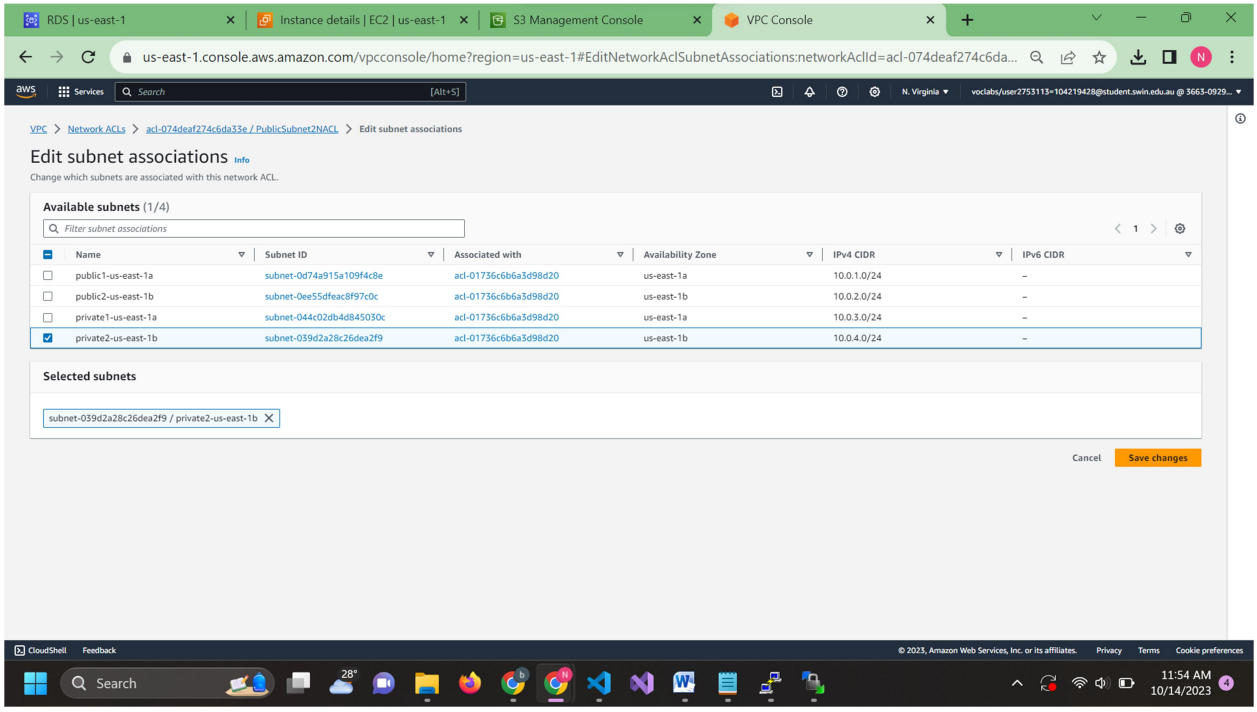
7.1: Inbound



7.2: Outbound



7.3: Subnet



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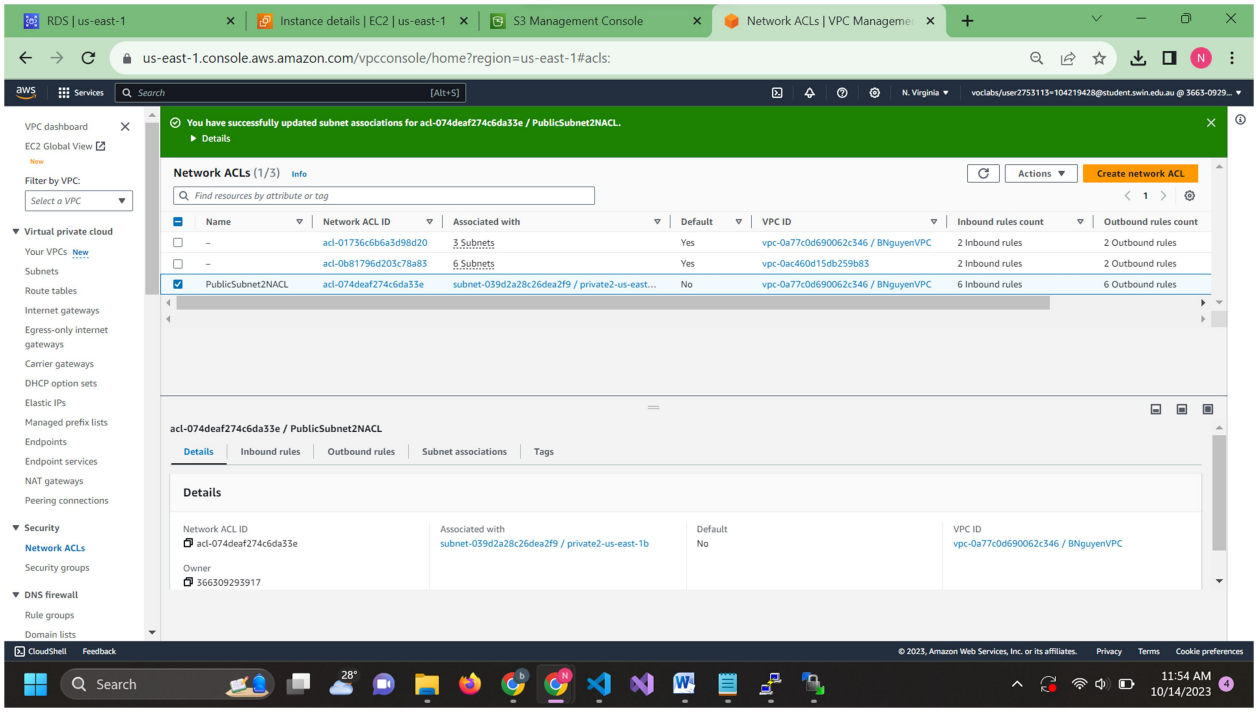
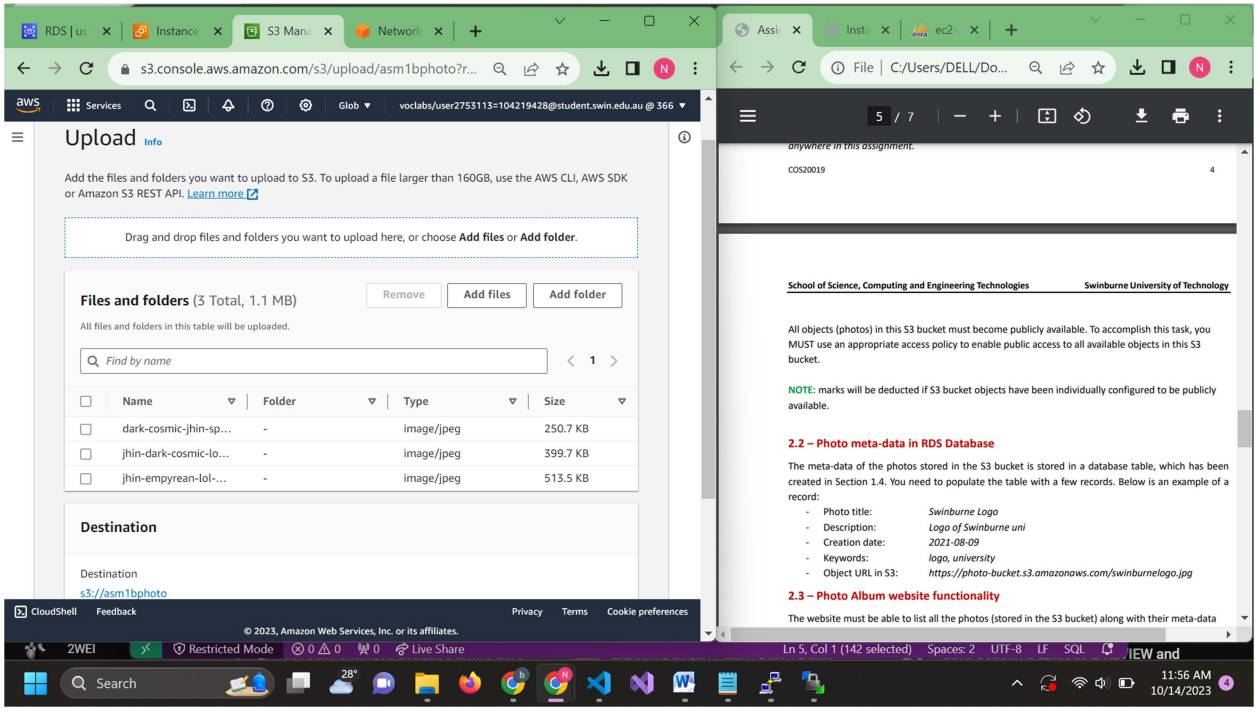


Step 8: upload photo into your S3 bucket



8.2: Edit bucket policy

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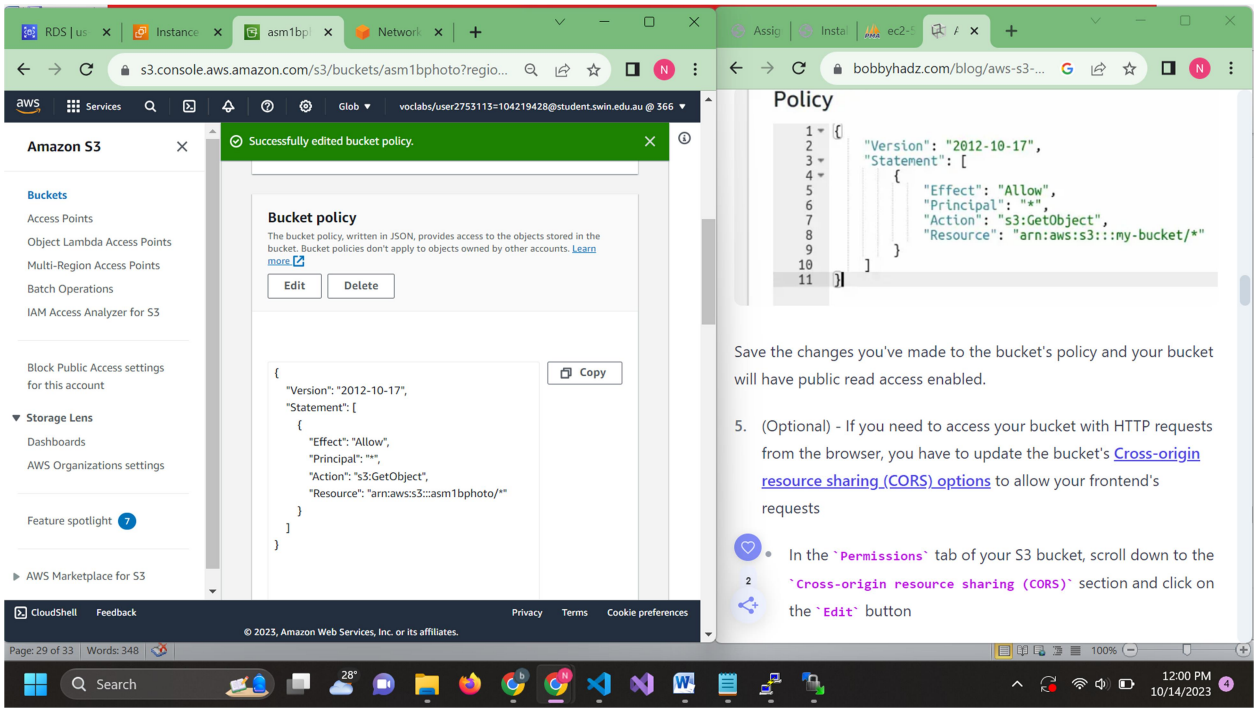
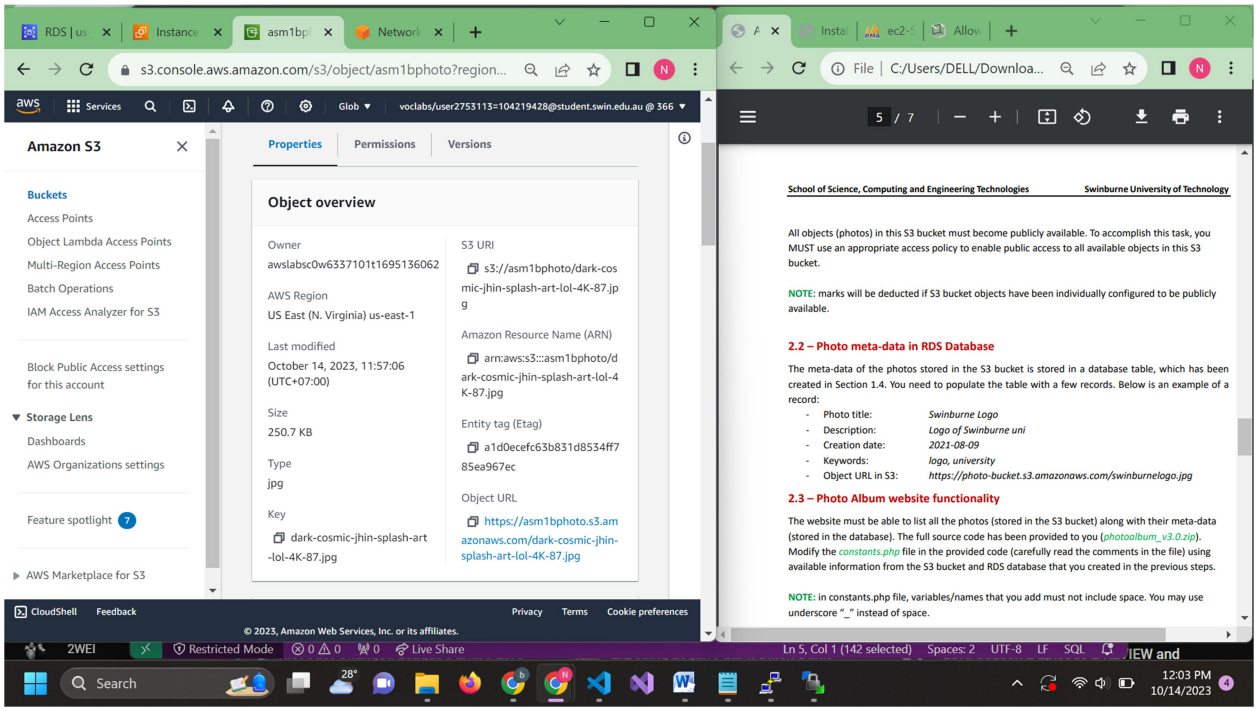


Step 9: Put your photo into the database to test it

9.1 copy photo url

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



Insert it into the table in your database using sql

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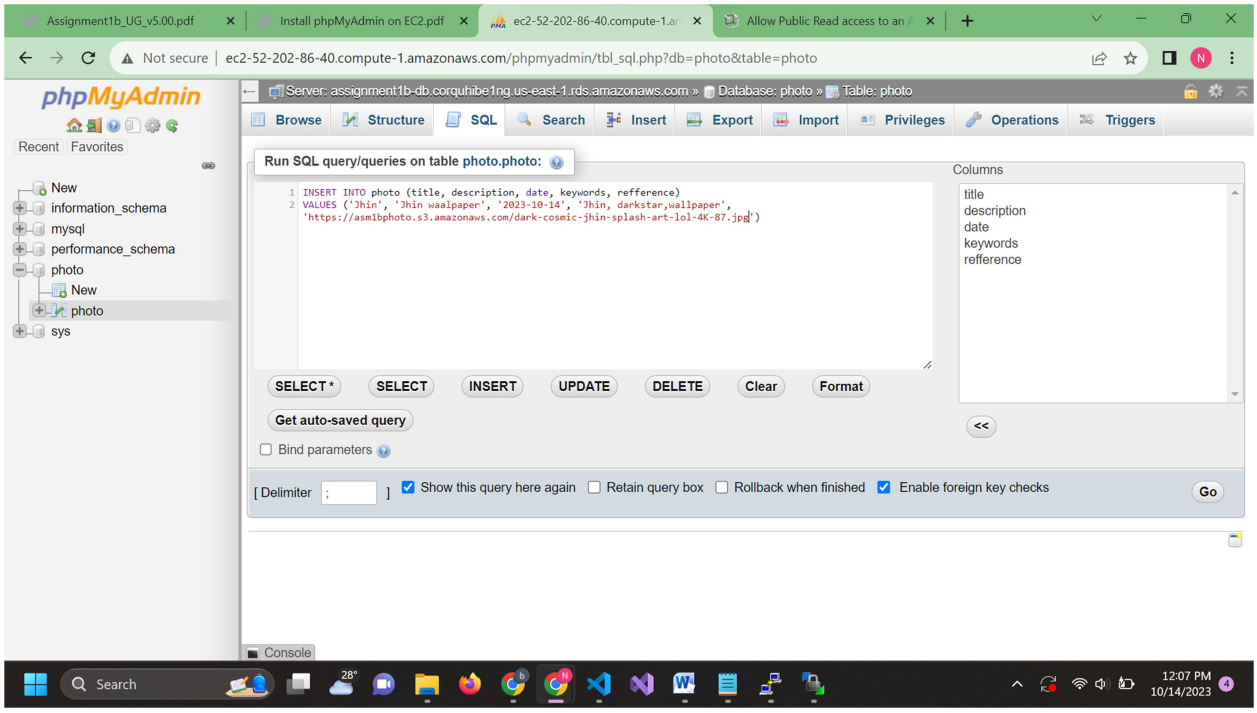

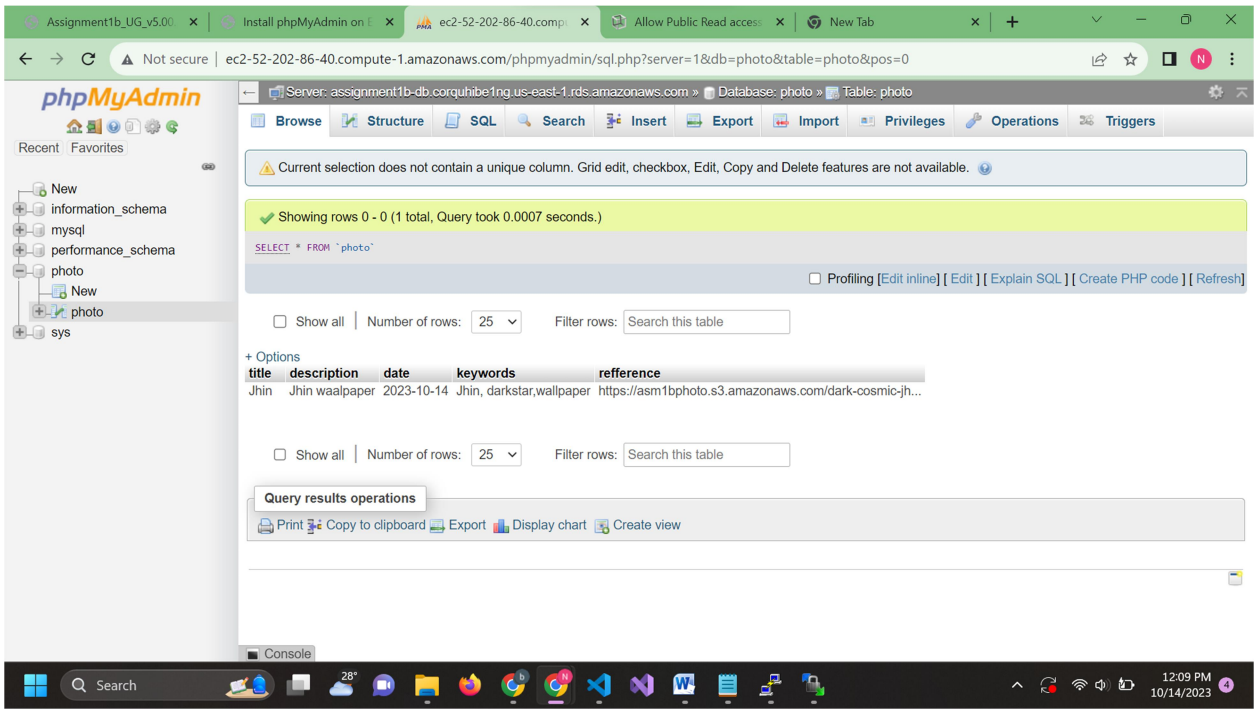

Edit constant.php

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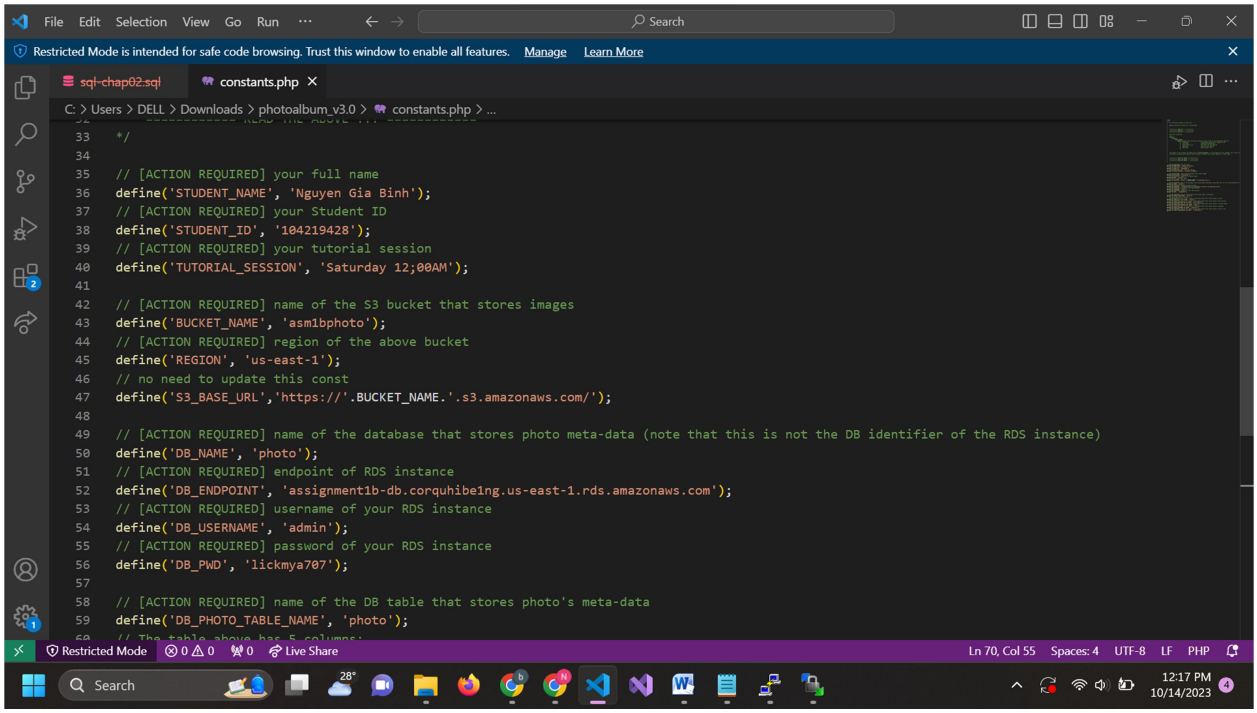

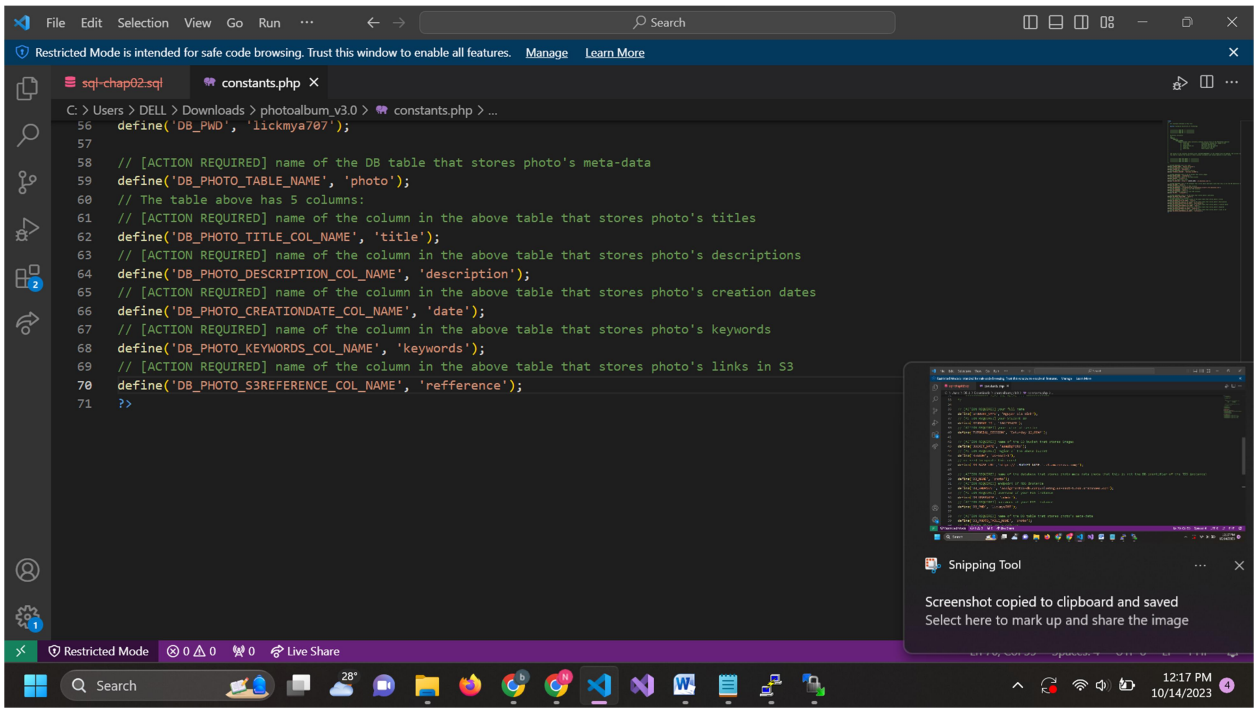

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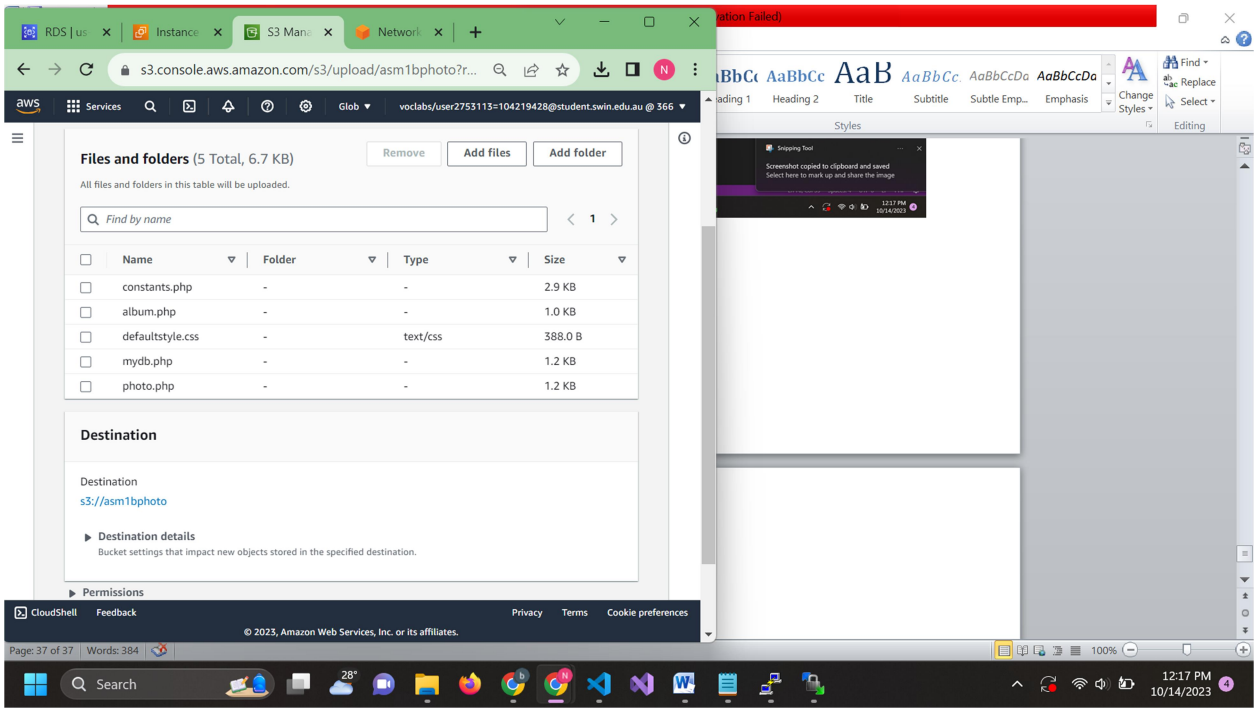
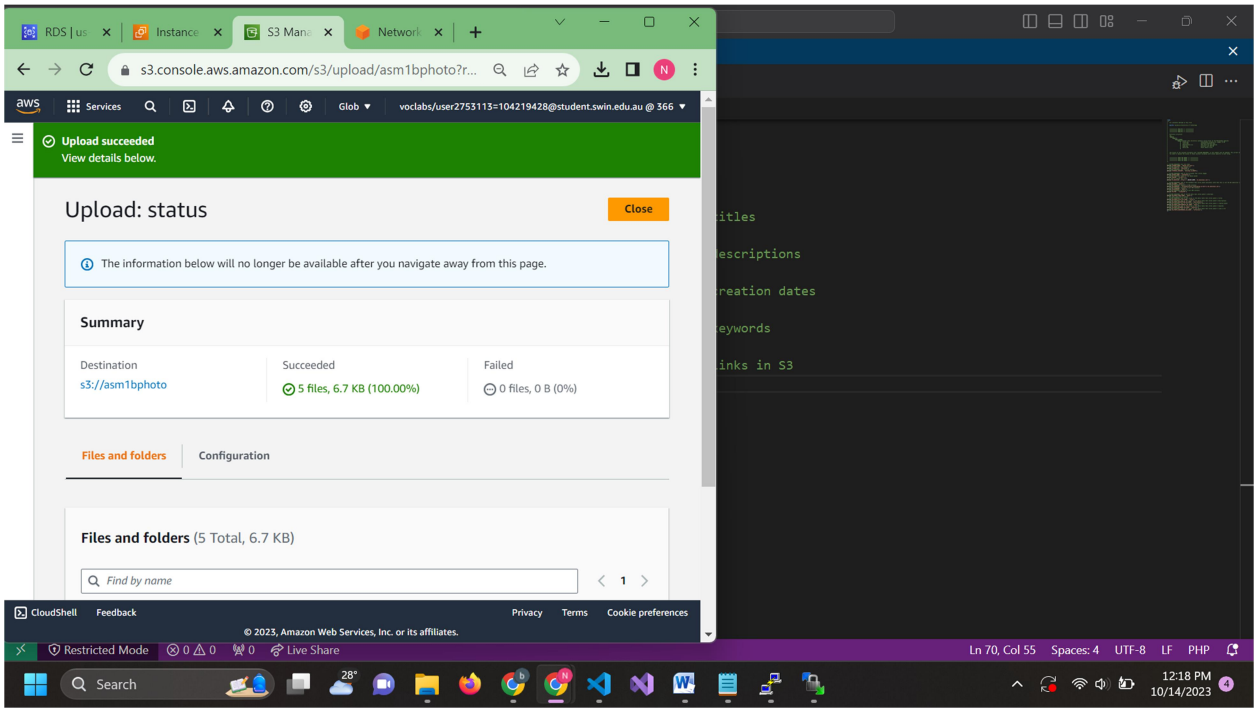
Upload file to your bucket





Upload the files into the directory in WinSCP

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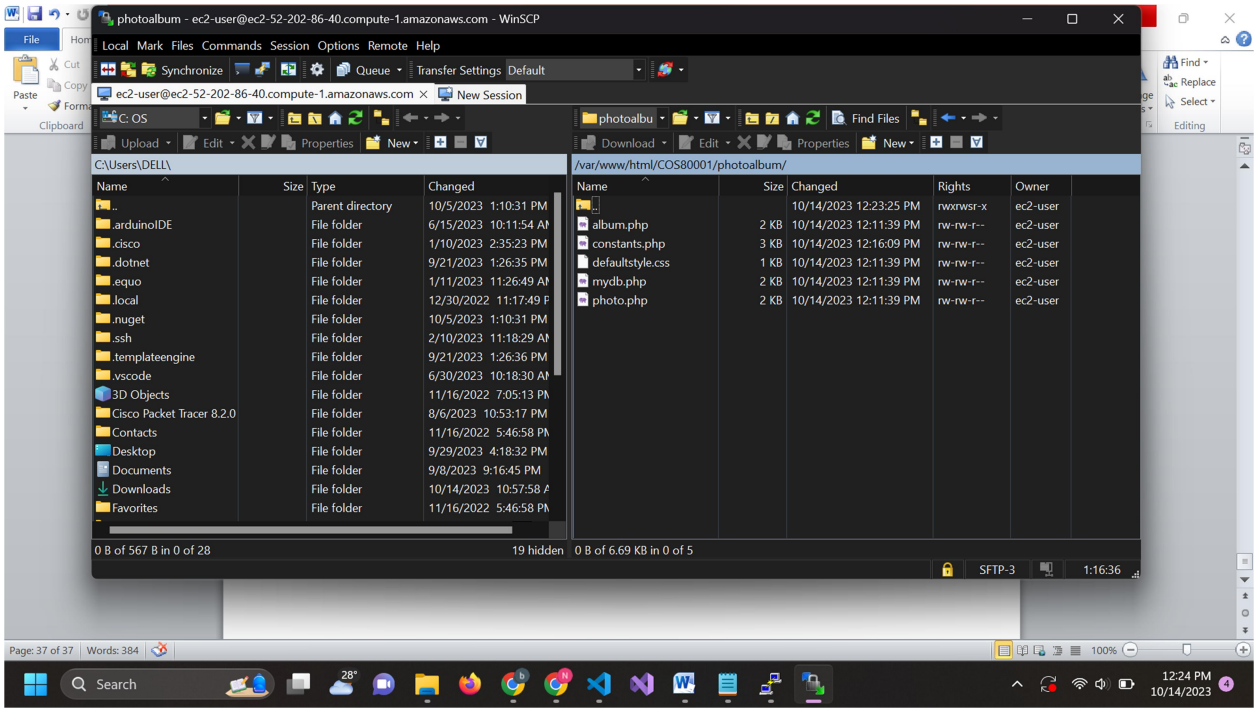
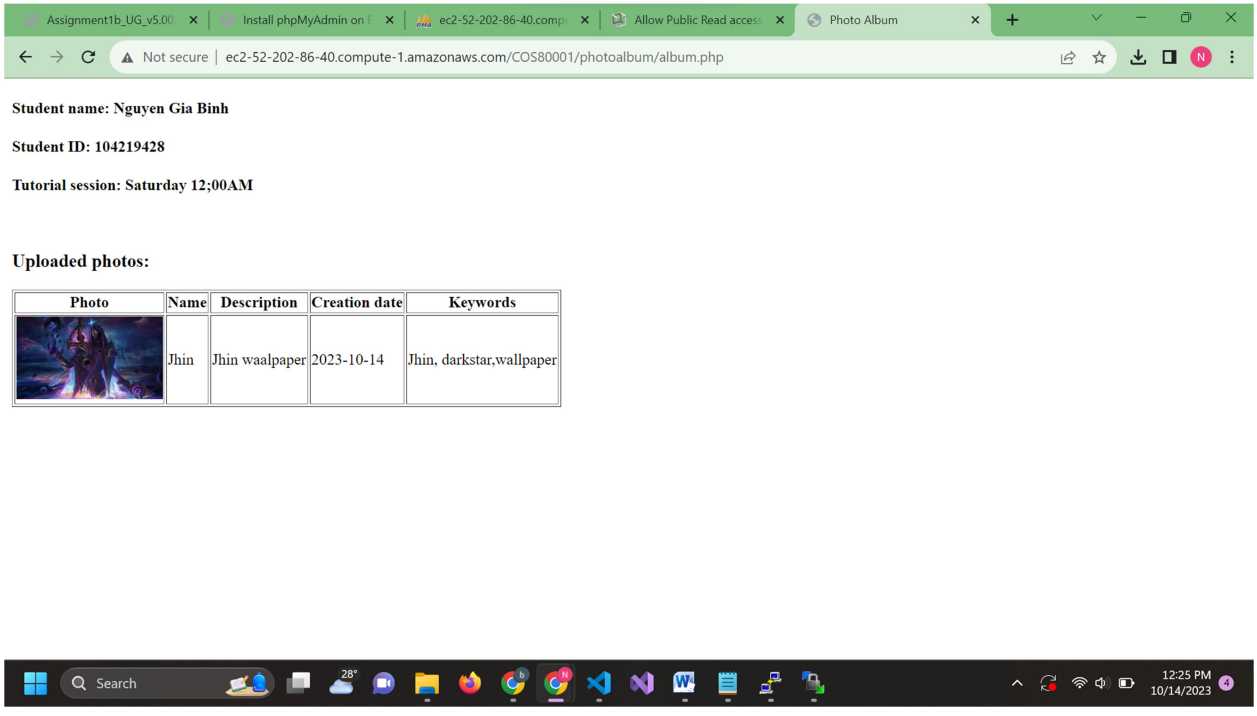


Access it in your local brower using Bastion public DNS

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 same Elastic IP and ping Testinstance using it private Ipv4)