

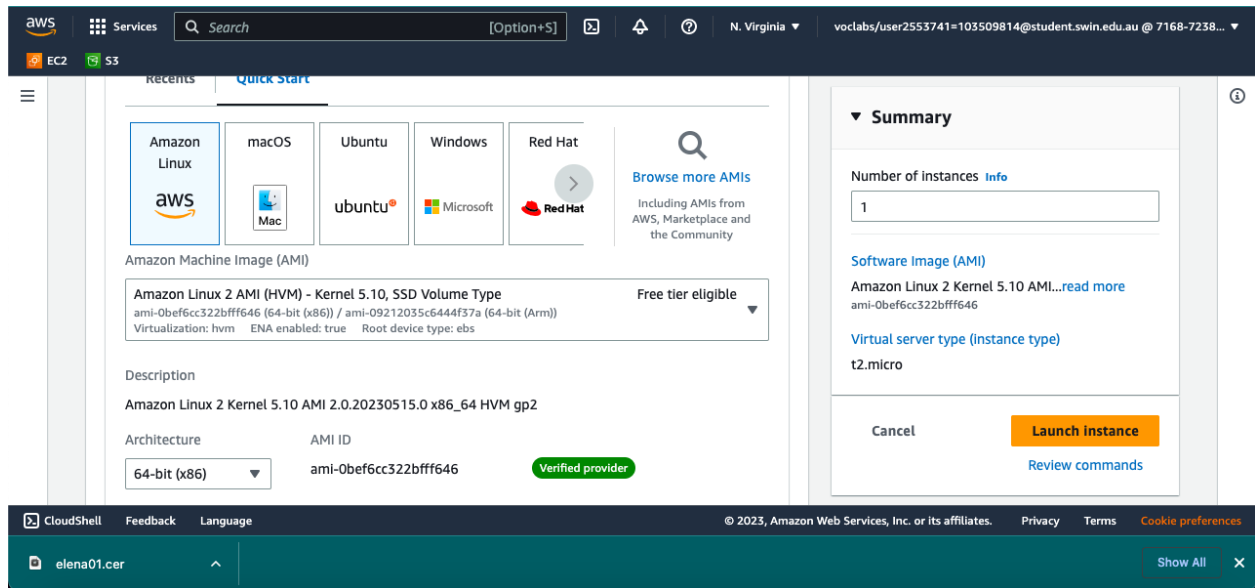
ASSIGNMENT 1A

Name: Le Ngoc An Thu

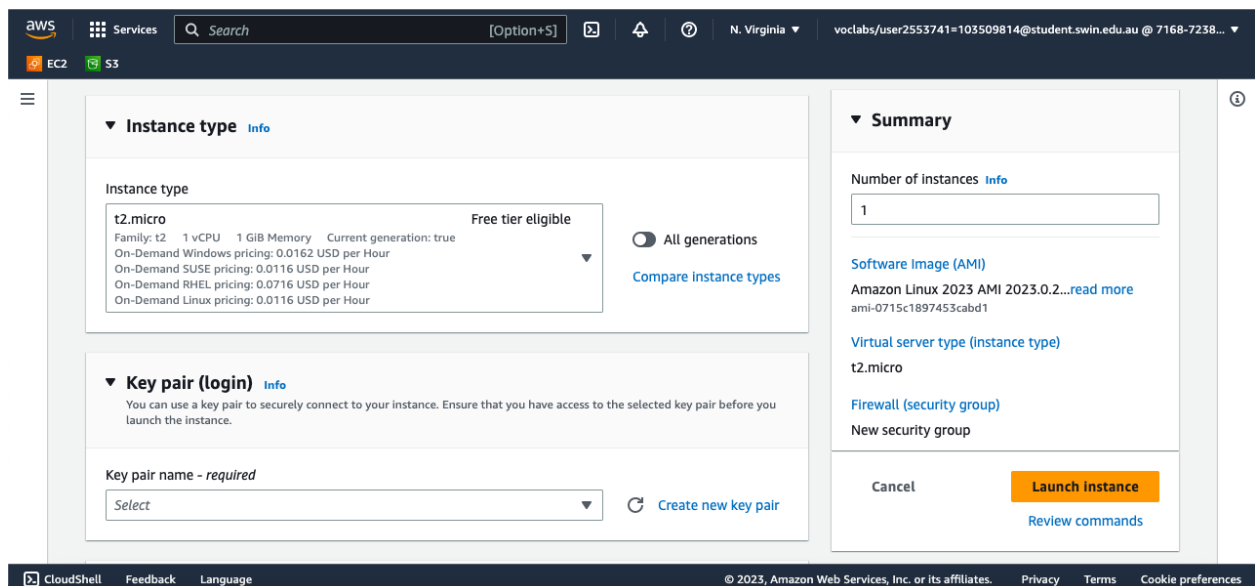
TASK 1 – Launch your own Linux EC2 instance

Before launching an EC2 instance, a key pair is required for logging in to your instance in the future. For more details, see Remote Access to an EC2.pdf file. Then launch an EC2 instance from the AWS management console in US East (N. Virginia) us-east-1 region. It must have the following properties:

- Amazon Machine Image: Amazon Linux 2 AMI (HVM), SSD Volume Type



- Instance type: t2.micro



- Advanced Details – User data: Use the script in Auto Setup EC2 with script.pdf file to

aws

Services

Search

[Option+S]

📧

🔔

🔄

N. Virginia

voclabs/user2553741=103509814@student.swin.edu.au @ 7168-7238...

EC2

S3

☰

User data - optional [Info](#)

Enter user data in the field.

```
#!/bin/bash
yum update -y
amazon-linux-extras install -y lamp-mariadb10.2-php7.2 php7.2
service httpd start
yum install -y httpd mariadb-server php-mbstring php-xml
systemctl start httpd
systemctl enable httpd
usermod -a -G apache ec2-user
chown -R ec2-user:apache /var/www
chmod 2775 /var/www
find /var/www -type d -exec sudo chmod 2775 {} \;
find /var/www -type f -exec sudo chmod 0664 {} \;
echo "<?php echo 'h2>Welcome to COS20019. Installed PHP version: ' .
phpversion() . '</h2>';
?>" > /var/www/html/phpinfo.php
```

☐ User data has already been base64 encoded

▼ Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2023 AMI 2023.0.2...[read more](#)

ami-0715c1897453cabd1

Virtual server type (Instance type)

t2.micro

Firewall (security group)

New security group

Cancel

Launch Instance

[Review commands](#)

CloudShell

Feedback

Language

© 2023, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

Cookie preferences

- Services

Search

[Option+S]

N. Virginia

voclabs/user2553741=103509814@student.swin.edu.au @ 7168-7238...

EC2

S3

Auto-assign public IP [Info](#)

Enable

Firewall (security groups) [Info](#)

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group

Select existing security group

Security group name - required

elenaancom

This security group will be added to all network interfaces. The name can't be edited after the security group is created. Max length is 255 characters. Valid characters: a-z, A-Z, 0-9, spaces, and _-./#,@!+=&:[]\$*

Description - required [Info](#)

launch-wizard-2 created 2023-06-02T07:11:23.109Z

Inbound security groups rules

Security group rule 1 (TCP, 22, 0.0.0.0/0)

Remove

Summary

Number of instances [Info](#)

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...[read more](#)

ami-0bef6cc322bfff646

Virtual server type (instance type)

t2.micro

Cancel

Launch instance

[Review commands](#)

CloudShell

Feedback

Language

© 2023, Amazon Web Services, Inc. or its affiliates.

Privacy

Terms

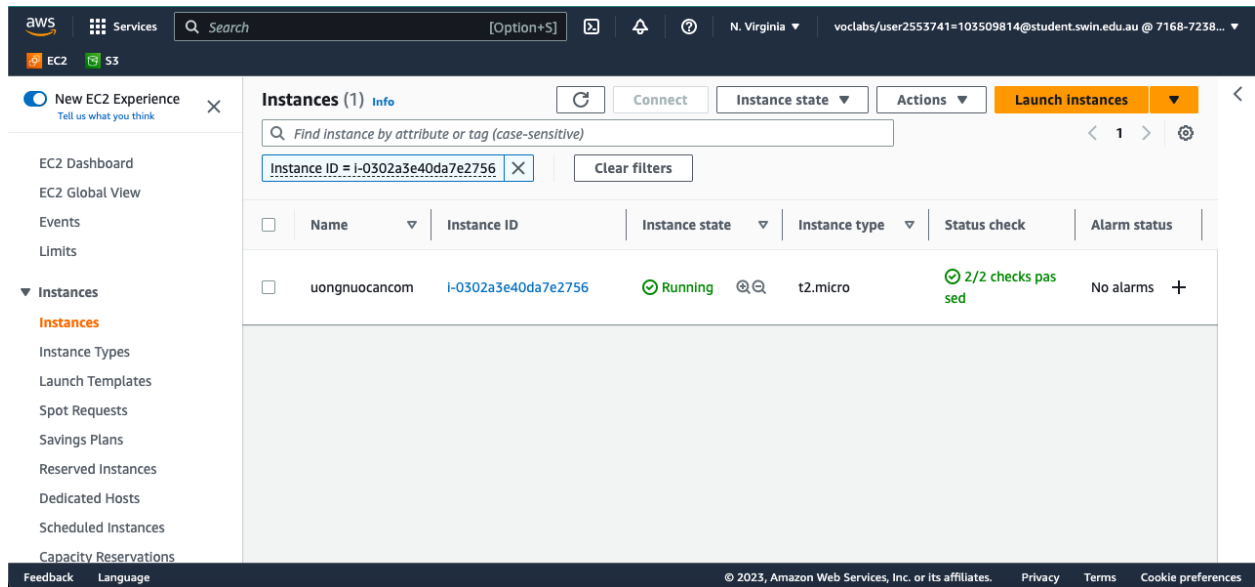
Cookie preferences

elena01.cer

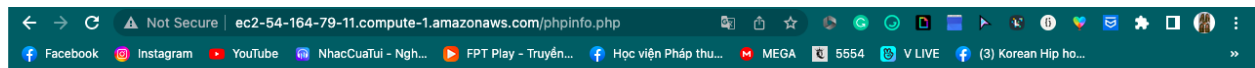
Show All

Note: In this introductory assignment you will create an EC2 Web server in the default VPC. In general, the default VPC is suitable only for experimental / toy deployments, and its use is considered bad practice for production resources. In the next assignments, you will create your own secure VPC. Allow a few minutes for the instance to launch and execute the commands in the above script, the Instance State and Status Check should change to 'running' and '2/2 checks

passed', respectively.



After that, visit <http://your.public.dns.amazonaws.com/phpinfo.php>, if you see a welcome page, it means the EC2 instance, PHP, and Apache server have been installed correctly.



Welcome to COS80001. Installed PHP version: 7.2.34

NOTE: Due to the pay-as-you-go pricing, the longer your instances run the more you pay. You are advised to stop the instances after each working session to save cost.

TASK 2 – Create a PHP website (Photo Album)

Create two PHP web pages (photouploader.php and photolookup.php) with user interfaces as illustrated in Figures 1 & 2. Feel free to individualise/style the web page as you wish.

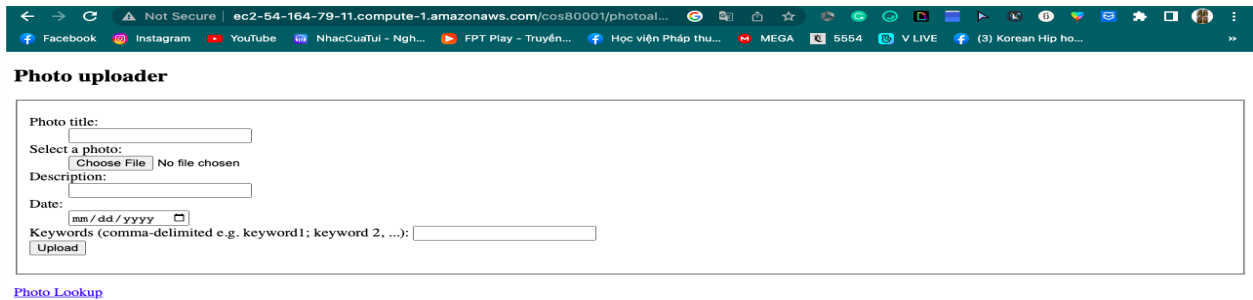


Figure 1 - Photo uploader page (photouploader.php). The “Photo Lookup” hyperlink at the bottom should link to photolookup.php

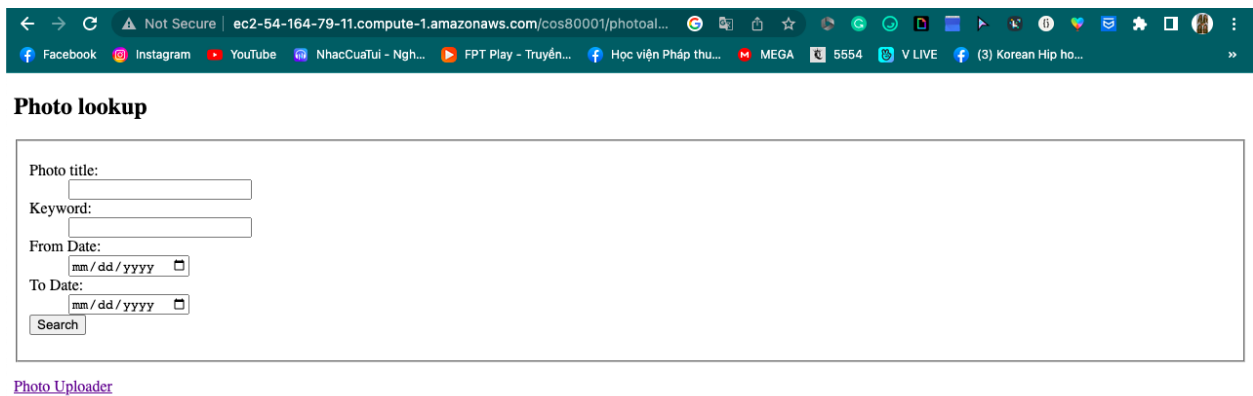


Figure 2 - Photo lookup page (photolookup.php). The “Photo Uploader” hyperlink at the bottom should link to photouploader.php

The directory structure of your website is described below. You can create additional HTML, CSS, PHP, JavaScript files if needed. The Apache HTTP server serves files located in a directory called Apache document root (/var/www/html); the cos80001 folder must be in the Apache document root folder. Follow the instructions in Remote Access to an EC2.pdf file to learn how to transfer files to a Linux EC2 instance.

NOTE: File and directory names in Linux are case sensitive.

NOTE: You are not required to implement the actual functionalities of the website at this stage. After having the website deployed on the Apache server on your instance, your web page should be accessible from anywhere on the Internet via this URL: <http://your.public.dns.amazonaws.com/cos80001/photoalbum/photouploader.php>

You should try accessing your website from different devices/networks/browsers to make sure it works correctly.