

COS20019: Assignment 1a

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Task 1: Launch your own Linux EC2 Instance

1. Create my own Key Pair, configure the instance as required.

The screenshot shows the AWS Management Console interface for creating a new key pair. The top navigation bar includes the AWS logo, 'Services', a search bar, and the current region 'N. Virginia'. The breadcrumb trail indicates the path: EC2 > Key pairs > Create key pair. The main heading is 'Create key pair' with an 'Info' link. Below this, a 'Key pair' section explains that a key pair consists of a private key and a public key used for authentication. The form contains three main sections: 'Name' with a text input field labeled 'Enter key pair name' and a note that names can be up to 255 ASCII characters; 'Key pair type' with two radio button options, 'RSA' (which is selected) and 'ED25519'; and 'Private key file format' with two radio button options, '.pem' (for use with OpenSSH) and '.ppk' (for use with PuTTY, which is selected). The bottom of the console shows a 'CloudShell' icon, a 'Feedback' link, and a footer with copyright information for Amazon Web Services, Inc. (2024) and links to 'Privacy', 'Terms', and 'Cookie preferences'.

aws Services Search [Alt+S] VPC

EC2 > Key pairs > Create key pair

Create key pair [Info](#)

Key pair
A key pair, consisting of a private key and a public key, is a set of security credentials that you use to prove your identity when connecting to an instance.

Name

The name can include up to 255 ASCII characters. It can't include leading or trailing spaces.

Key pair type [Info](#)

☒ RSA ☐ ED25519

Private key file format

☐ .pem
For use with OpenSSH

☒ .ppk
For use with PuTTY

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Amazon Machine Image (AMI)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type

ami-0e54eba7c51c234f6 (64-bit (x86)) / ami-024e548e5cf8ed98b (64-bit (Arm))

Virtualization: hvm ENA enabled: true Root device type: ebs

Free tier eligible

Description

Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is now under maintenance only mode and has been removed from this wizard.

Summary

Number of instances

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more

ami-0e54eba7c51c234f6

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

1 volume(s) - 8 GiB

Cancel

Launch instance

Review commands

CloudShell

Feedback

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VPC

your instance.

Create security group

Select existing security group

Security group name - required

WebServer-SG

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

web server created for assignment 1

Inbound Security Group Rules

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

Type

ssh

Protocol

TCP

Port range

22

Source type

Anywhere

Source

0.0.0.0/0

Description - optional

e.g. SSH for admin desktop

Remove

Cancel

Launch instance

Review commands

The screenshot shows the AWS Management Console interface for launching an EC2 instance. The top navigation bar includes the AWS logo, 'Services' menu, a search bar, and the current region 'N. Virginia'. The user's account information is visible as 'voclabs/user3485657=104991221@student.swin.edu.au @ 4866-8500...'. The main content area is divided into two panels. The left panel, titled 'User data - optional', contains a text area with a Linux shell script for installing and configuring PHP and Apache. The right panel, titled 'Summary', displays the configuration details for the instance, including the number of instances (1), the software image (Amazon Linux 2 Kernel 5.10 AMI), the virtual server type (t2.micro), the firewall (New security group), and the storage (1 volume of 8 GiB). At the bottom of the right panel, there are 'Cancel' and 'Launch instance' buttons. A 'Review commands' link is also present. The bottom status bar shows 'CloudShell', 'Feedback', and copyright information for Amazon Web Services, Inc. or its affiliates.

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VPC

Select

User data - optional Info

Upload a file with your user data or enter it in the field.

Choose file

```
#!/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
sed -i "s/upload_max_filesize = 2M/upload_max_filesize = 10M/g" /etc/php.ini
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 COS80001. Installed PHP version: ' . phpversion() . '</h2>'; ?>" > /var/www/html/phpinfo.php
```

Summary

Number of instances Info

1

Software Image (AMI)

Amazon Linux 2 Kernel 5.10 AMI...read more

ami-0e54eba7c51c234f6

Virtual server type (instance type)

t2.micro

Firewall (security group)

New security group

Storage (volumes)

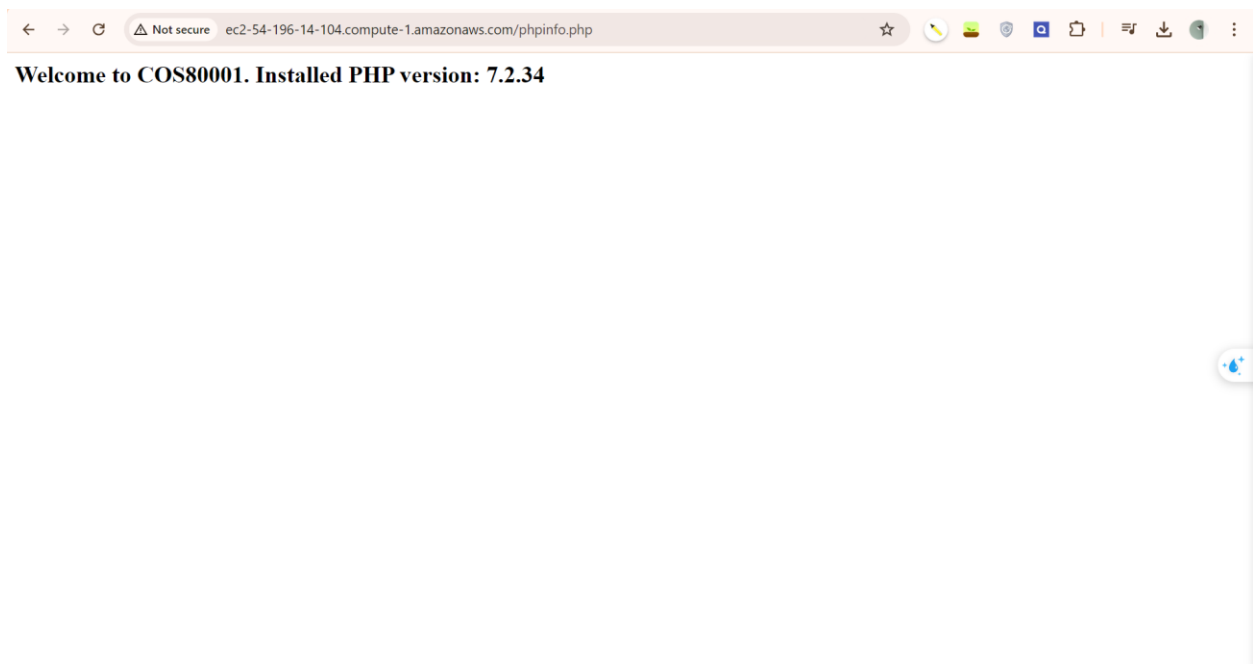
1 volume(s) - 8 GiB

Cancel Launch instance

Review commands

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2. EC2, PHP and Apache have been configured correctly.

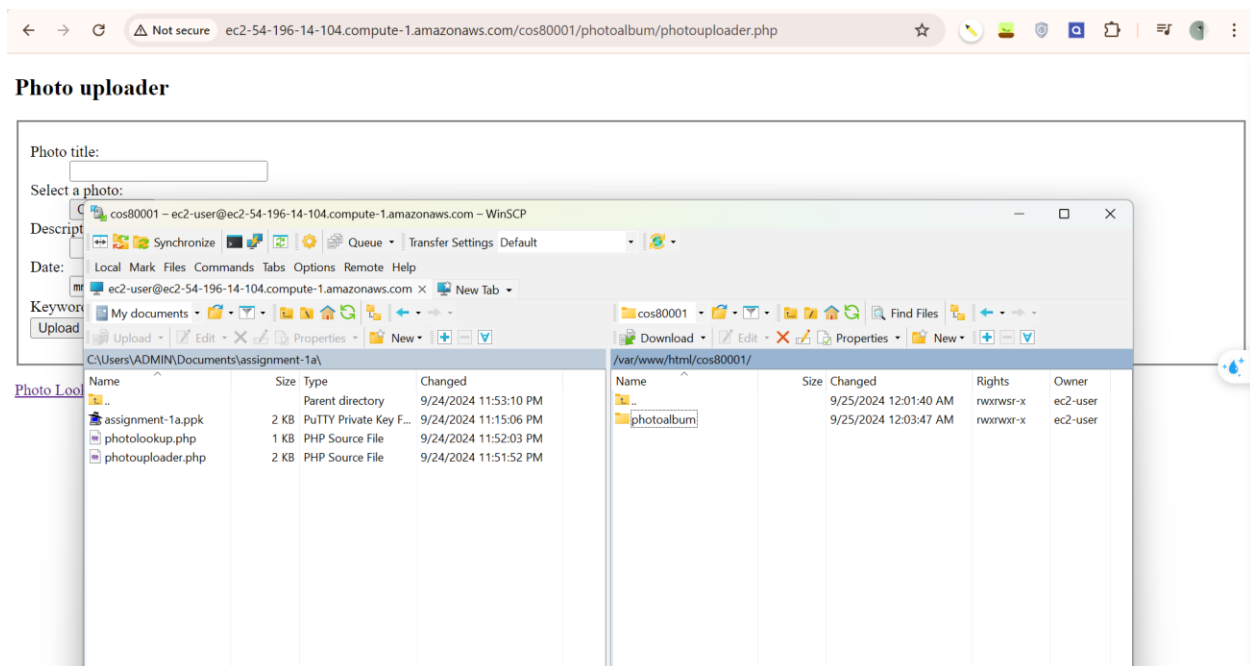


Task 2: Create a PHP website (photo album)

3. SSH into my instance successfully.

[illegible]

4. Transfer PHP file into WinSCP successfully with the directory as required.



5. The website is now accessible.

