

**CSD-4553**

**Cloud Computing**

**In Class Activity 2**

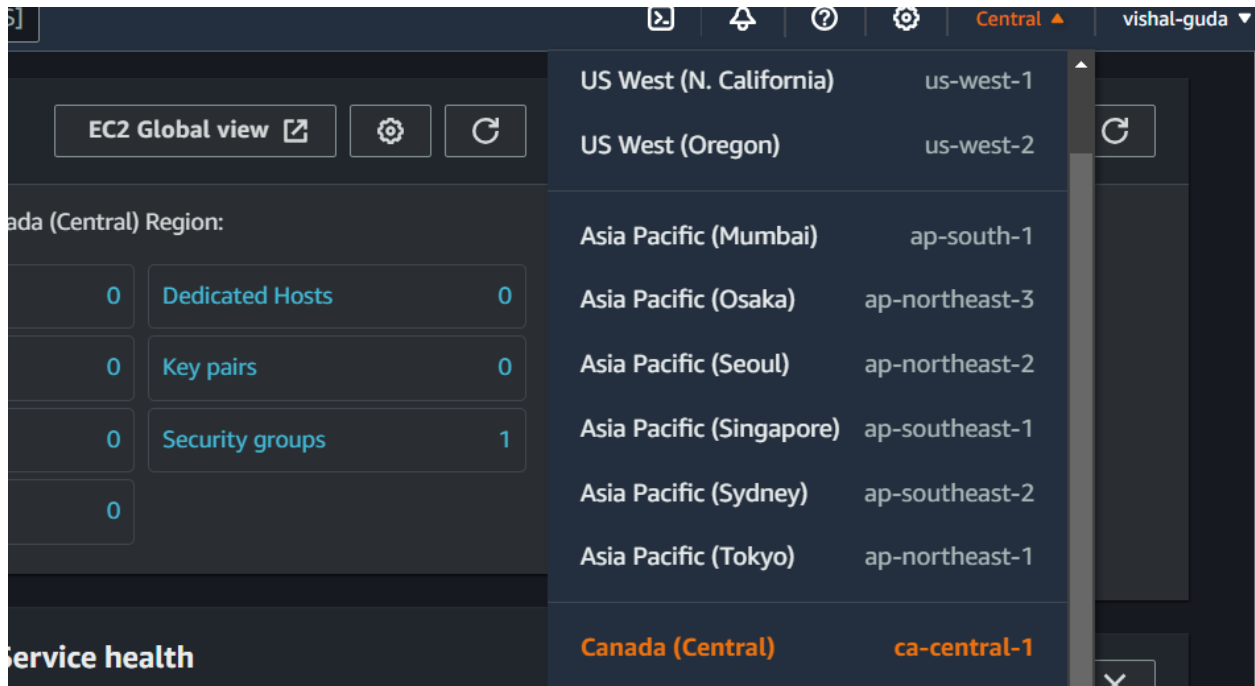
**EC2 Creation**

**FirstName : Vishal Reddy**

**LastName : Guda**

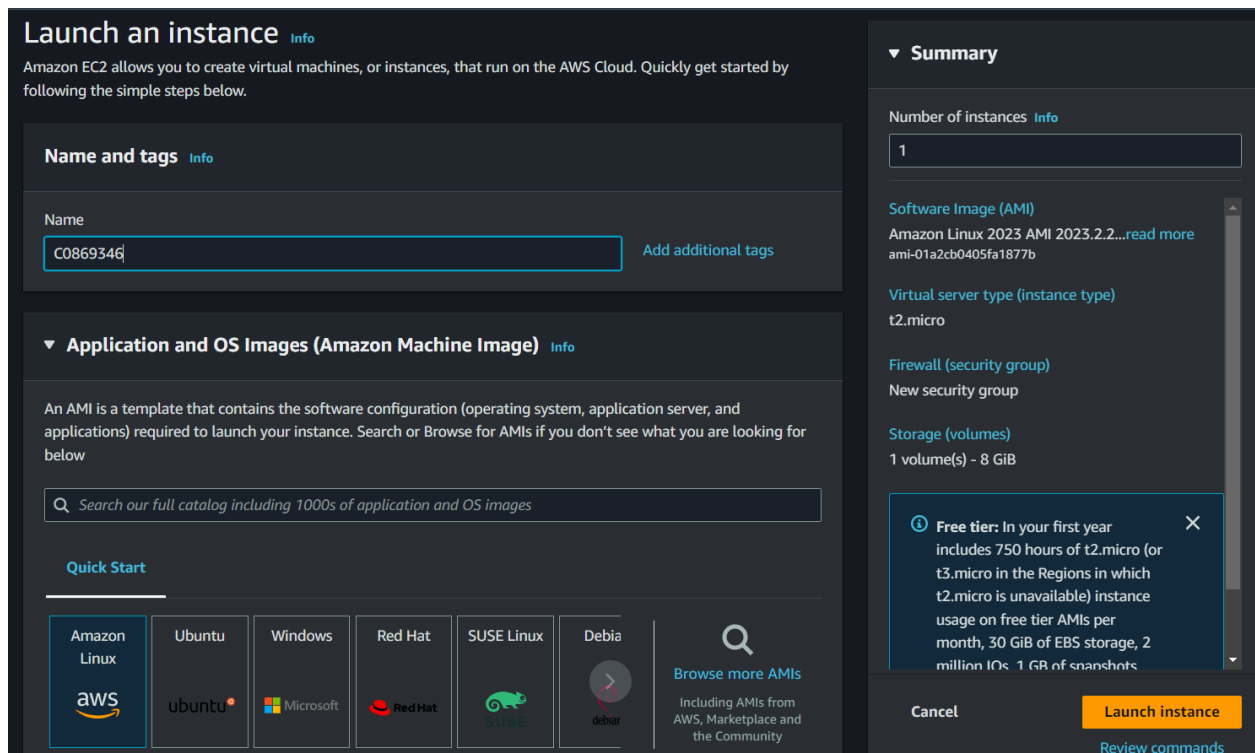
**Student ID : C0869346**

# 1. Selecting Region



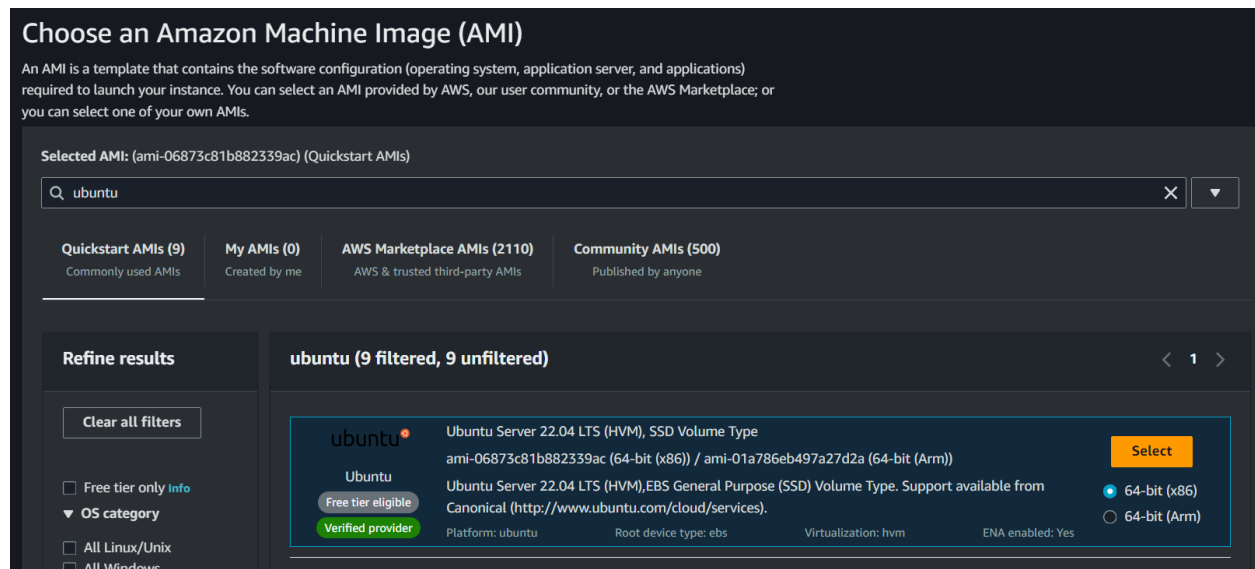
In the above we are selecting the region Canada Central

# 2. Launching an Instance with CNumber



In the above instance we are naming our instance with CNumber. Launching an instance is the second section of creating the instance.

### 3. Choosing AMI



Choosing the ubuntu 22.04 for the operating system. This is the 3rd section i.e Amazon Machine Image

## 4. Network Settings

▼ Network settings Info

Edit

Network Info

vpc-078dba5966987ba8f

Subnet Info

No preference (Default subnet in any availability zone)

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

We'll create a new security group called 'launch-wizard-2' with the following rules:

☒ Allow SSH traffic from

Helps you connect to your instance

Anywhere  
0.0.0.0/0 ▼

☒ Allow HTTPS traffic from the internet

To set up an endpoint, for example when creating a web server

☒ Allow HTTP traffic from the internet

To set up an endpoint, for example when creating a web server

⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

×

Next is network settings. Enable all the above 3 check boxes

## 5. Creating a new Key Pair

## Create key pair

Key pair name

Key pairs allow you to connect to your instance securely.

vishal-keypair-1

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

Key pair type



☒ RSA  
RSA encrypted private and public key pair

☐ ED25519  
ED25519 encrypted private and public key pair

Private key file format

☒ .pem  
For use with OpenSSH

☐ .ppk  
For use with PuTTY

 When prompted, store the private key in a secure and accessible location on your computer. **You will need it later to connect to your instance.** [Learn more](#) 

Cancel

Create key pair

Name a key pair with any name. Keep the configurations to default.

## 6. Instance Created

	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IP
<input type="checkbox"/>	C0869346	i-05e4b9f02a7393e05	Pending	t2.micro	-	No alarms	ca-central-1a	ec2-3

The above image shows that an instance is created with the number.

## 7. Connect to Instance

EC2 > Instances > i-05e4b9f02a7393e05 > Connect to instance

### Connect to instance Info

Connect to your instance i-05e4b9f02a7393e05 (C0869346) using any of these options

EC2 Instance Connect

Session Manager

SSH client

EC2 serial console

Instance ID

i-05e4b9f02a7393e05 (C0869346)

Connection Type

☒ **Connect using EC2 Instance Connect**  
 Connect using the EC2 Instance Connect browser-based client, with a public IPv4 address.

☐ **Connect using EC2 Instance Connect Endpoint**  
 Connect using the EC2 Instance Connect browser-based client, with a private IPv4 address and a VPC endpoint.

Public IP address

3.96.216.110

User name

Enter the user name defined in the AMI used to launch the instance. If you didn't define a custom user name, use the default user name, ubuntu.

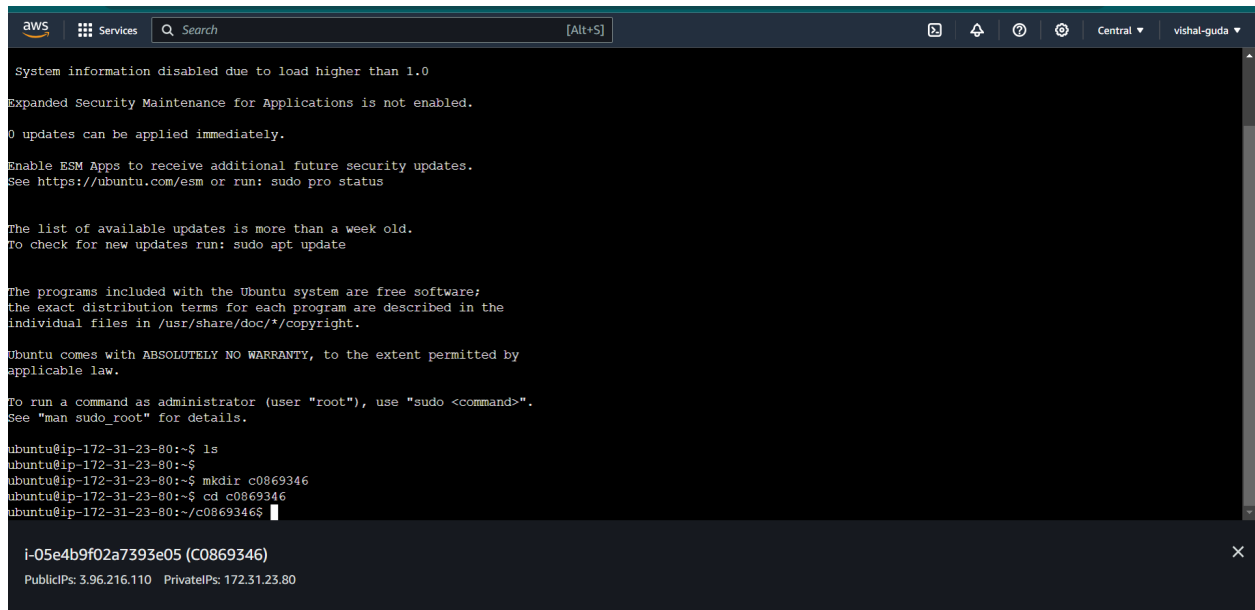
**Note:** In most cases, the default user name, ubuntu, is correct. However, read your AMI usage instructions to check if the AMI owner has changed the default AMI user name.

Cancel

Connect

The above image shows a dialog box to connect to the instance

## 8. Creating a Directory in ubuntu



The screenshot shows an AWS CloudShell terminal window. The top bar includes the AWS logo, a 'Services' menu, a search bar, and a '[Alt+S]' shortcut. The terminal output displays Ubuntu system information, including a warning about system information being disabled due to load, a message about Expanded Security Maintenance for Applications not being enabled, and instructions on how to enable ESM Apps. It also shows the list of available updates and the programs included with the Ubuntu system. The user then runs the command 'ls', followed by 'mkdir c0869346', and 'cd c0869346'. The terminal prompt changes to '~/.c0869346\$'. The bottom bar shows the instance ID 'i-05e4b9f02a7393e05 (C0869346)' and the public and private IP addresses: 'PublicIPs: 3.96.216.110 PrivateIPs: 172.31.23.80'.

```
aws Services Search [Alt+S] Central vishal-guda

System information disabled due to load higher than 1.0
Expanded Security Maintenance for Applications is not enabled.
0 updates can be applied immediately.
Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

The list of available updates is more than a week old.
To check for new updates run: sudo apt update

The programs included with the Ubuntu system are free software;
the exact distribution terms for each program are described in the
individual files in /usr/share/doc/*/copyright.

Ubuntu comes with ABSOLUTELY NO WARRANTY, to the extent permitted by
applicable law.

To run a command as administrator (user "root"), use "sudo <command>".
See "man sudo_root" for details.

ubuntu@ip-172-31-23-80:~$ ls
ubuntu@ip-172-31-23-80:~$
ubuntu@ip-172-31-23-80:~$ mkdir c0869346
ubuntu@ip-172-31-23-80:~$ cd c0869346
ubuntu@ip-172-31-23-80:~/c0869346$

i-05e4b9f02a7393e05 (C0869346)
PublicIPs: 3.96.216.110 PrivateIPs: 172.31.23.80
```

When the Ubuntu is loaded we can create a directory named with cnumber. And changing the directory to the created folder.