# Experiment No - 02

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**Roll No.** : 67

Sem & Sec : 7<sup>th</sup> Sem - CSE [B]

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<u>Aim</u>: Demonstrate the Creation of Virtual Machine in the Public Cloud based on the given scenario.

# **Problem Statements:**

You are tasked with creating a new EC2 instance on Public Cloud (AWS) to host a web application. The application requires a Linux/Windows-based environment with 1 vCPUs, 1GB of RAM, and 30GB of storage. You also need to ensure that the instance is launched in a public subnet and has a public IP address.

#### Task 1:

Demonstrate the Scalability and Flexibility of VM Resources by modifying the hardware resources from 1 vCPUs, 1GB of RAM, and 30GB to 2 vCPUs, 4GB of RAM, and 30GB.

## Task 2:

Demonstrate that the created VM instance should be accessible via SSH/PUTTY for administration purposes.

#### Task 3:

Demonstrate the running of an Web application on the Public IP of the VM instance

(Ex: Apache Server)

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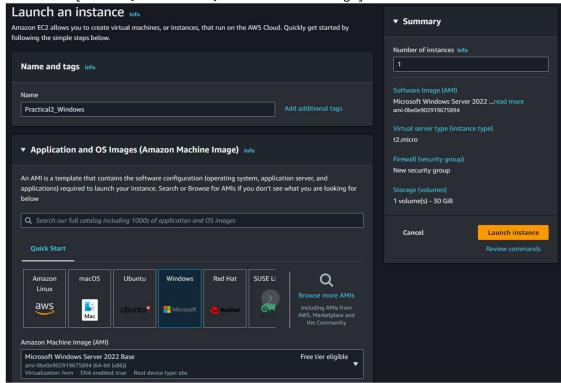
# Task 1 (Scalability and Flexibility of VM Resources)

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Step 1 -: Launch the AWS Learners Lab and open EC2 -> Instances -> Launch Instance

Step 2 -: Select the specified configurations

[1 vCPUs, 1GB of RAM, and 30GB of storage]

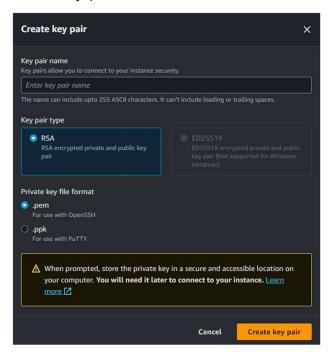




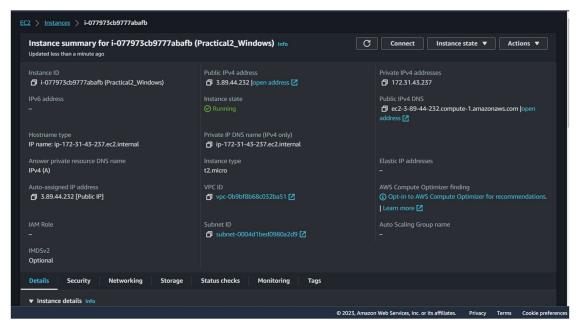
# Step 3 -: Configuring Key-Pair for connection to instance.

Click Create new key-pair

For Windows, we need to create key file format as .pem For Linux, we need to create key file format as .ppk Create key pair



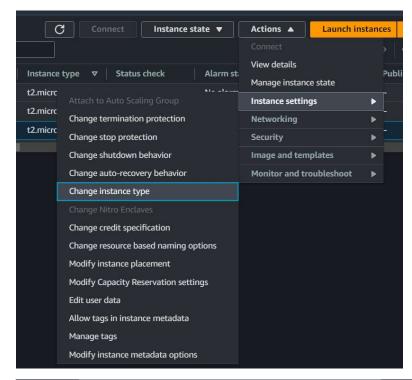
Then launch the instance.

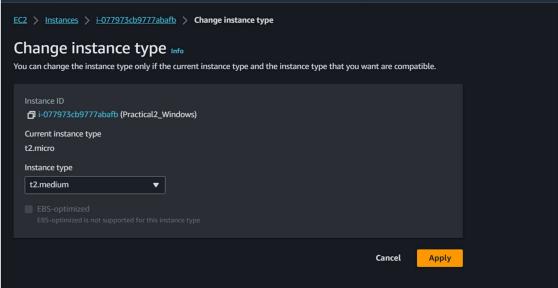


# Scaling and Flexible VM Resources

- i.Stop the running instance.
- ii. Change the instance type to t2. medium for specified configuration.

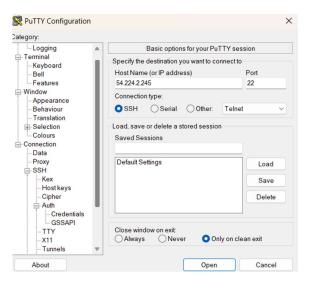
[2 vCPUs, 4GB of RAM, and 30GB]

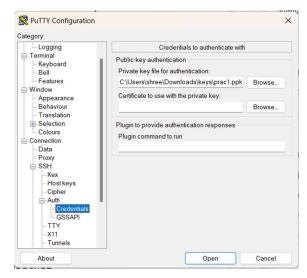




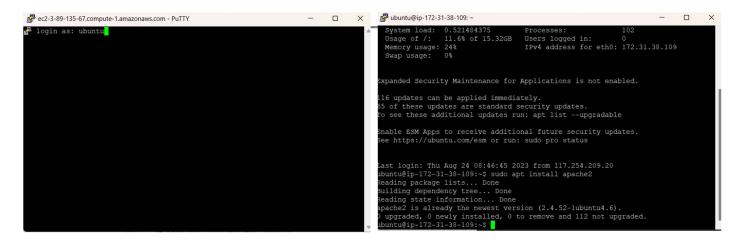
## **Connecting to Linux Instance:**

i. For connecting to the system you have to install the putty software After installing the software enter the public host ip in hostip section and in connection tab->SSH->Auth->credentials enter the key and click on open





ii. Enter the hostname in command line as ubuntu(the name that has been specified) and connect to the vm



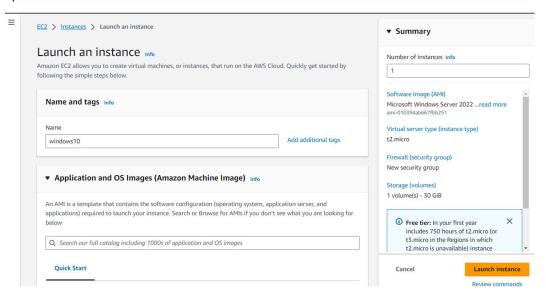
## Part B

Step1:login in your AWS academy learners lab and click on ec2 instance

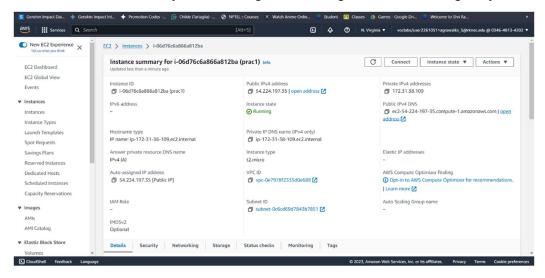
Step2:click on launch instance

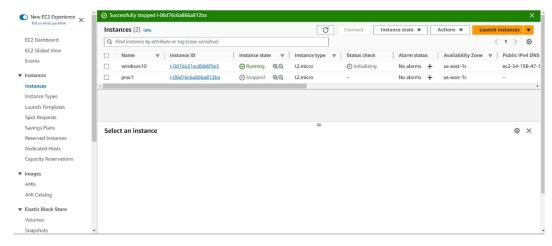
Step3: configure your instance according to your need here for example we have taken windows 7 OS with 2 GB ram 16 GB storage and 1 core then click on launch button

Note: create a access key for connecting to ec2 instance for windows make it in .pem



Note: after some time you can change the configuration according to your need





Step4: for connecting to the system click on connect button then decrypt the key that you download and click on connect and enter the key to connect

