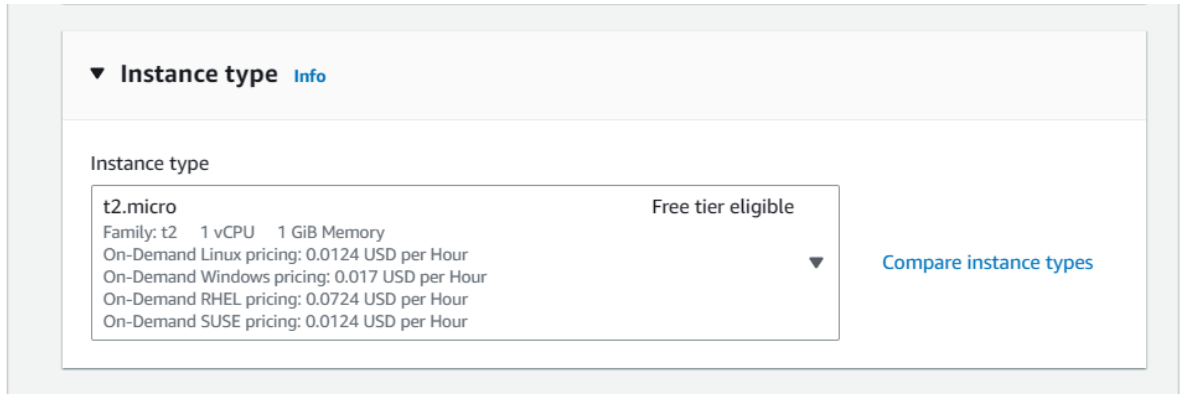**AWS Session 2**
Summary 16-02-2023

- From a user perspective, the main use of the operating system is to run the program
- If we want to run any program or application we need the operating system
- There is no way to interact with the operating system without the program
- For getting the operating system we need physical hardware (RAM, CPU, Network card, HD) and we need to install the operating system
- Different ways of installing the operating system
    - Bare metal
    - Cloud computing
    - Virtualization
    - Containerization

- When you launch OS in the cloud it is also known as an instance. Running an instance is similar to having your own machine run on the cloud. There are various types of instances available in AWS CLOUD the most famous type of instance freely available after logging in AWS account is EC2 Instance.
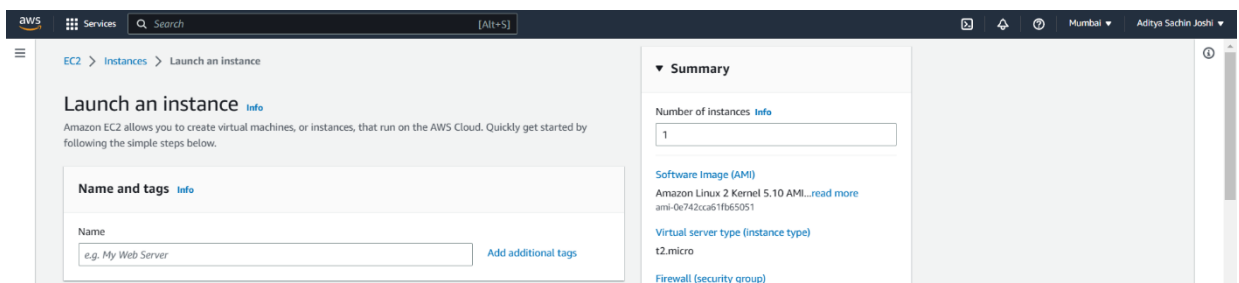
- For installing the OS the minimum requirement is to have a bootable image. AWS provides AMIs (Amazon Machine Images).AMIs contain thousands of images. When you start the instance it pulls the image from AMI.
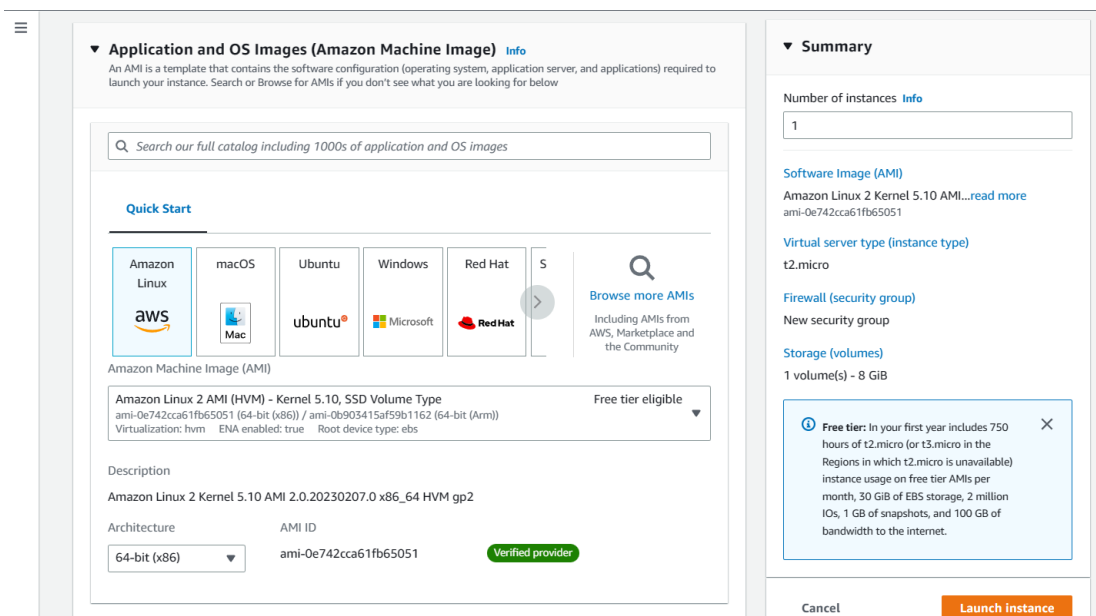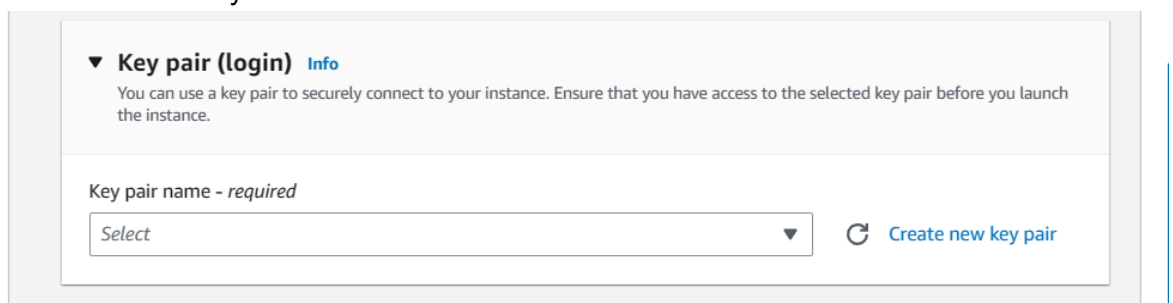
- When you log into your AWS account you can select a particular instance according to the need of the company or organization (For eg:- t2.nano, t2.small, c5.9xlarge, etc.). t2.micro is the free instance given by AWS they won't charge for this instance.

▼ **Instance type** Info

Instance type

t2.micro	Free tier eligible
Family: t2 1 vCPU 1 GiB Memory	
On-Demand Linux pricing: 0.0124 USD per Hour	
On-Demand Windows pricing: 0.017 USD per Hour	
On-Demand RHEL pricing: 0.0724 USD per Hour	
On-Demand SUSE pricing: 0.0124 USD per Hour	

▼ Compare instance types

- Whenever we launch any OS we need the password to log in. Here we use a key instead of a password, if you don't have a key you can't log in.
  There are two types of keys:-
    - Public Key
    - Private Key

▼ **Key pair (login)** Info
You can use a key pair to securely connect to your instance. Ensure that you have access to the selected key pair before you launch the instance.

Key pair name - *required*

Select ▼   C Create new key pair

- Recently AWS launched a data center in Hyderabad in 2022. In which they have invested $4.4bn.