

CI/CD: Cloud Computing

Task #4

Steps of setup and essentials of AWS EC2:

Step 1: Log Into Your AWS Account

- Log into the AWS Console and set up your root account. If you don't already have an account, you will be prompted to create one.
- With the AWS free tier, you can get 750 hours/month of select EC2 instances for free.

Step 2: Launch Your Instance

- Identify which type of instance type is best for your workload.
- For first instance, AWS recommend a low cost, general purpose instance type: t2.micro, and Amazon Machine Image (AMI): Amazon Linux 2 AMI, which are both free-tier eligible.
- Open the Amazon EC2 dashboard and choose "Launch Instance" to create a virtual machine.

Step 3: Configure Your Instance

Here are guidelines when setting up your first instance:

- *Security group*: Create your own firewall rules or select the default VPC security group.
- *Storage*: EC2 offers both magnetic disk and SSD storage.
- Choose "Launch Instances" to complete the set up.

Note: We have to download the key pair here for later use. It cannot be downloaded later.

Step 4: Connect to Your Instance

After launching your instances, you can connect to it and use it the way you'd use a computer sitting in front of you. There are several ways to connect to the console depending on the operating system. It is better using EC2 Instance connect, through browser based client.

- Select the EC2 instance you choose "Connect".
- Select "EC2 Instance Connect."
- Choose "Connect". A windows opens, and you are connected to your instance.

Step 5: Terminate Your Instance

- Amazon EC2 is free to start, but it is important that you terminate your instances to prevent additional charges.
- The EC2 instance and data associated will be deleted.
- Select the EC2 instance, choose "Actions", select "Instance State" and "Terminate".

These are the steps that I preferred to use while creating an AWS EC2 instance.