This tutorial is instructions for AWS setup. You will learn how to create an AWS account and create an EC2 instance.

**Software Tools:**
1. SHH(Windows): putty
2. SFTP(Windows): WinSCP-5.19
3. SSH(MacOS): terminal(builtin)
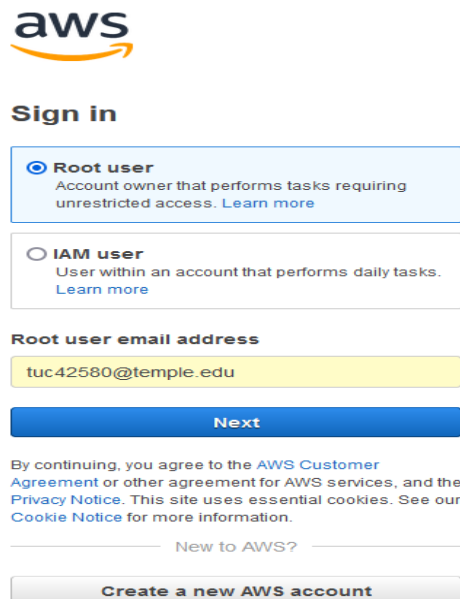4. SFTP(MacOS): FileZilla

**Account Creation:**
The software tools are used to access your EC2 server and allow you to upload files for testing in the future. Before your start playing with AWS, you need to set up your account. The link below gives you hands-on instructions on how to create and set up your account.
https://aws.amazon.com/getting-started/guides/setup-environment/module-one/

As our professor mentioned in class, you should choose the AWS free tier for 12 months of free trials. This will allow you to access the service on AWS free such as creating an EC2 instance. And please **stop your instance** when you don't use it! Otherwise, your free credit will run out, and it will charge you when you are out of free credit.
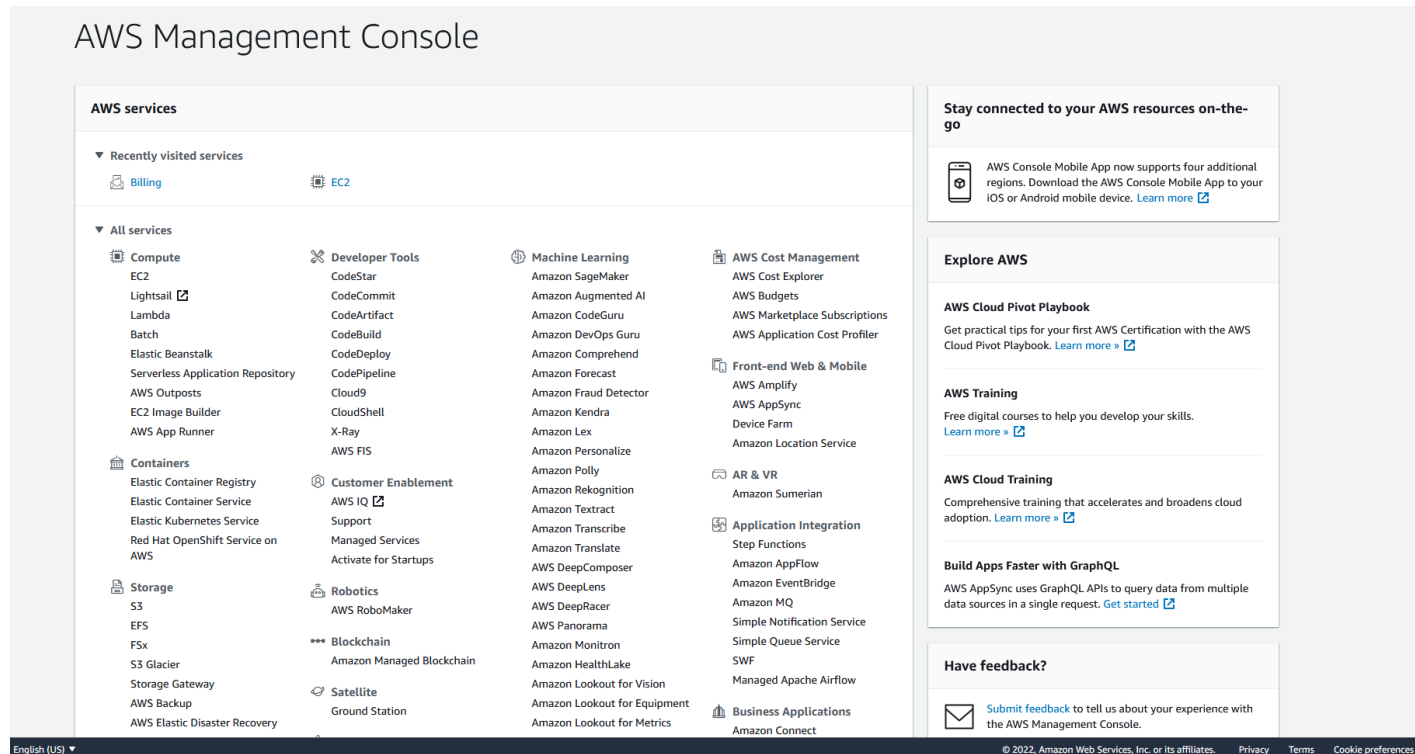
After you successfully set up your AWS account, you should see the page below.

**EC2 Instance Setup:**

You should sign in as a root user and you can log in with your email address. After login, you should go to AWS Management Console to prepare to create your EC2 instance. The page should be like below:



Then you should click EC2 to start to deploy your instance. I recommend choosing the Amazon Linux2 AMI server. The advantage is that the instance will have python 2.7 installed in the environment. The system is Centos-based.

To set up the EC2, please check the link below:

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/get-set-up-for-amazon-ec2.html

As a reminder, please save your **private key file** on your computer properly and do not delete it. You will need it when you want to access and manage your instance from putty or other SSH access software. And this private key can only be saved once for each account.

After EC2 is set up, you need to get start your instance and launch it. Check the link below to know how to start your EC2 instance.

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/EC2_GetStarted.html

At last, after your EC2 instance is started, you can access your instance by using Putty and Winscp if you are using Windows OS. Check the link below to know how to use Putty to connect to your instance and play with it.

https://docs.aws.amazon.com/AWSEC2/latest/UserGuide/putty.html

**Note:** When everything is done, you can exit from Putty and Winscp. Don't forget to stop your instance and make sure it stops running.