

Amazon AWS Cloud Machine Assembly Tutorial for Mac OS using Bash

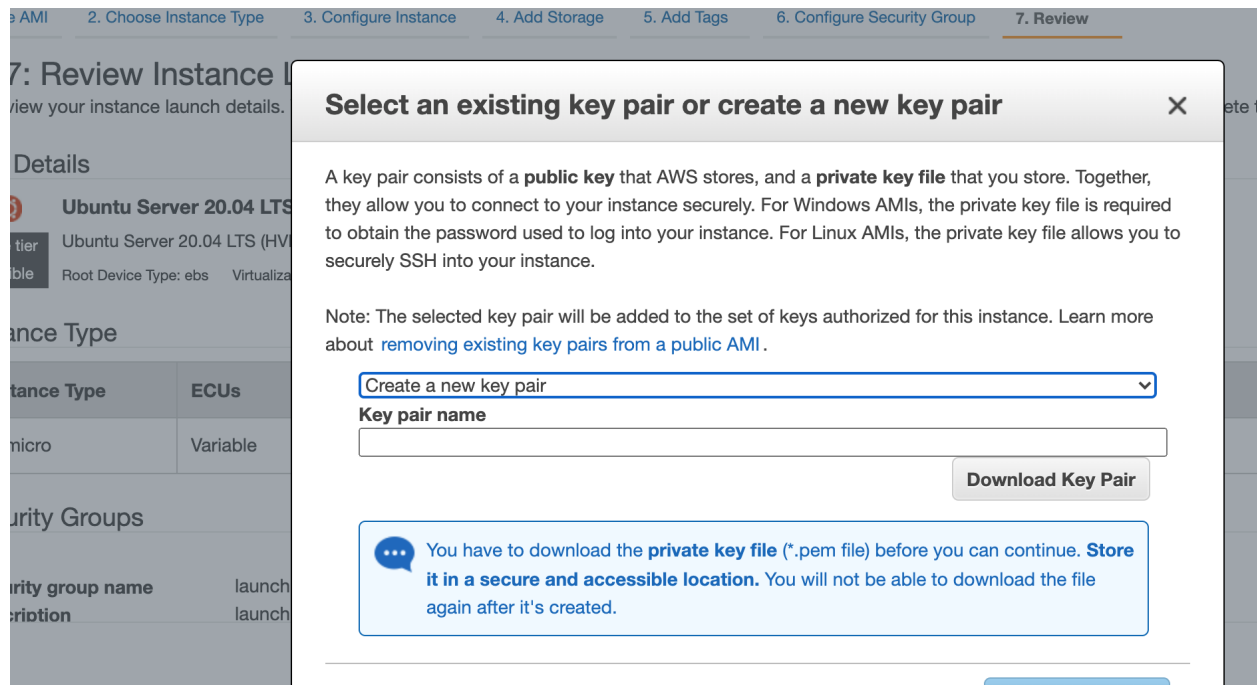
**** This tutorial will teach you how to assemble three virtual machines with users that can access each other.**

PART 1:

Step 1: make an AWS Account. This will require credit card information, but you will not be charged so long as you close down the virtual machines when you are not using them.

Step 2: Click on services, then EC2, then launch instance.

Step 3: Pick any machine that is ubuntu and also is eligible for free tier. Keep clicking the blue "launch" button until you reach this screen.



Step 4: Select "Create a new key pair" and name the key something you won't forget.

Step 5: Repeat steps 2-4 but for the last step, "choose existing key pair" and make two other running instances.

Step 6: Name your 3 machines, machine0, machine1, and machine2.

Congrats! You have made three virtual machines, now you have to figure out how to access each of them.

Part 2: Setting up users on your Mac

Step 7: set up a working directory using mkdir command. This is where you will be doing all your Amazon AWS work.

- for example: /users/your username/playaws

Step 8: Download and save keys to your virtual machines. The challenge of this project is saving, accessing each of your virtual machines with the keys.

Step 9: change the security settings of the key.

In terminal type the following command: `chmod 400 "key name"`

This makes your unix file only viewable to you.

Step 10:

make a vi file using the following command

```
vi m0.sh
```

A .sh file will run commands, unlike a normal vi file which acts as a text editor.

Once you open linux, type "i" so you can edit the vi file. In your m0.sh or machine 0 file type:

```
keydir=" current working directory"  
ssh -i "$keydir/"Key name".pem" ubuntu@insert IP address of your machine
```

Use this bash code as a sample for the 3 vi files you will be making:

m0.sh (file for your machine 0)

m1.sh (file for your machine 1)

m2.sh (file for your machine 2)

This is where labeling your machines on Amazon AWS comes in handy.

Type the command

sh m0.sh to run the unix file to enter your ubuntu machine0.

sh m1.sh to run the unix file to enter your ubuntu machine1

sh m2.sh to run the unix file to enter your ubuntu machine2

You will be able to enter these machines and run bash code there. Type "exit" to exit that virtual machine to return to your mac.

Every step type ll into the terminal to list all the objects in your directory to make sure you have everything set.

Security group, launch wizard