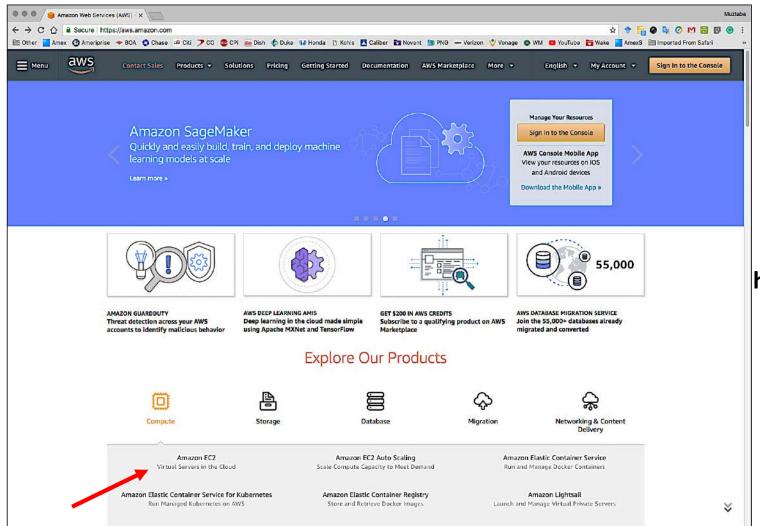
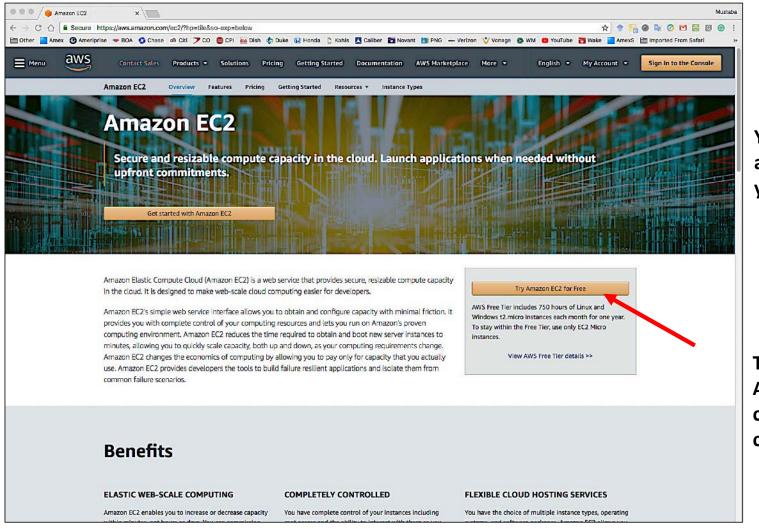
Amazon Web Services

Tutorial

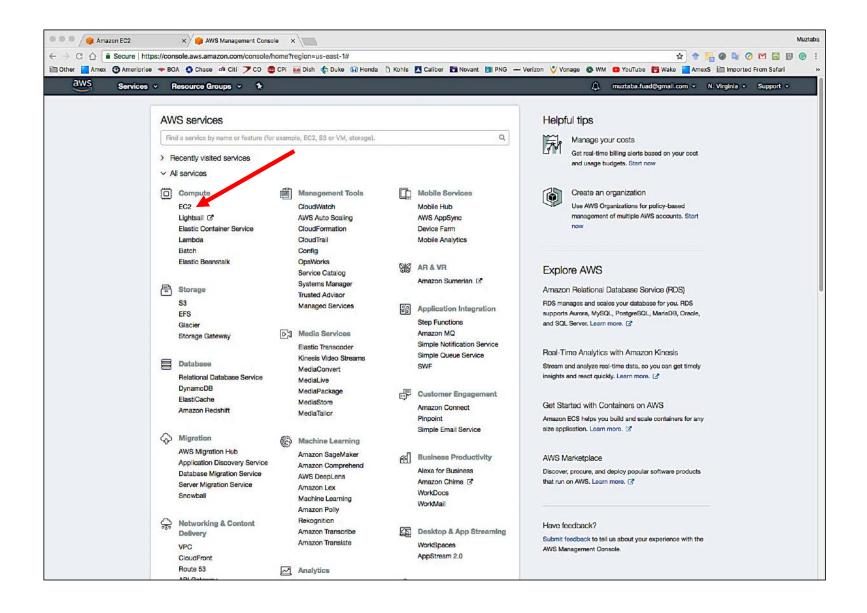


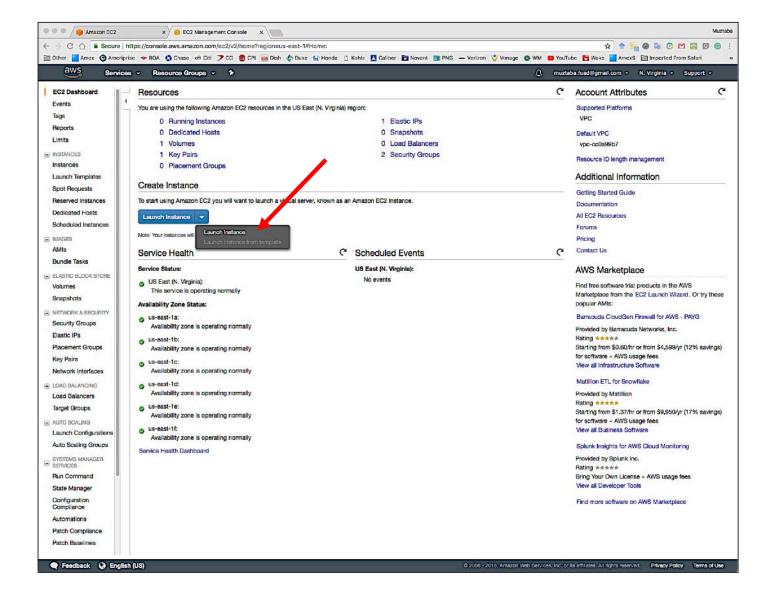
Visit https://aws.amazon.com

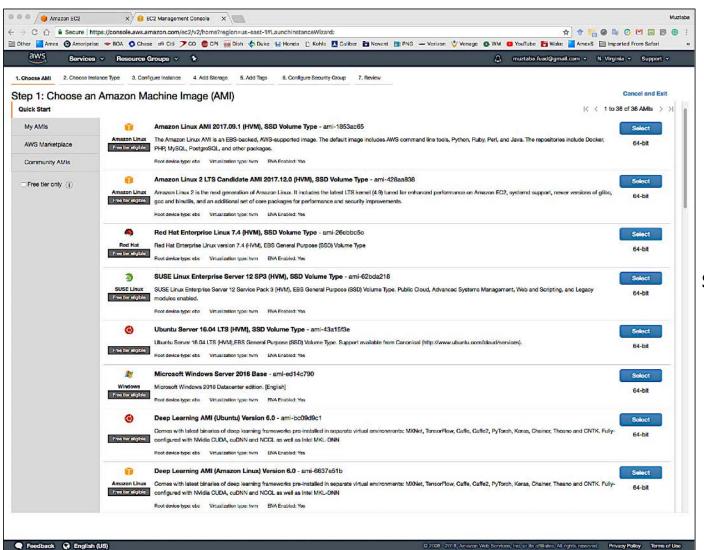


You need to create a new amazon account or can use your existing

To verify your identity, Amazon will ask for your credit card. It will not charge you.

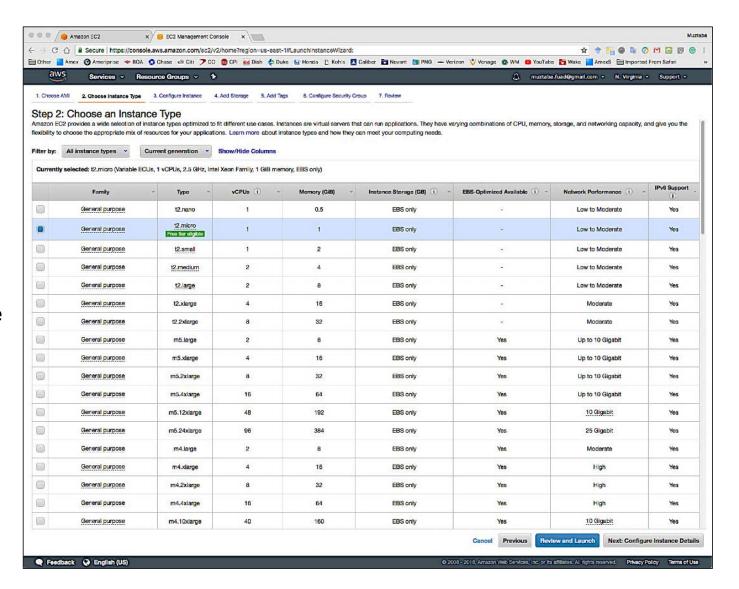


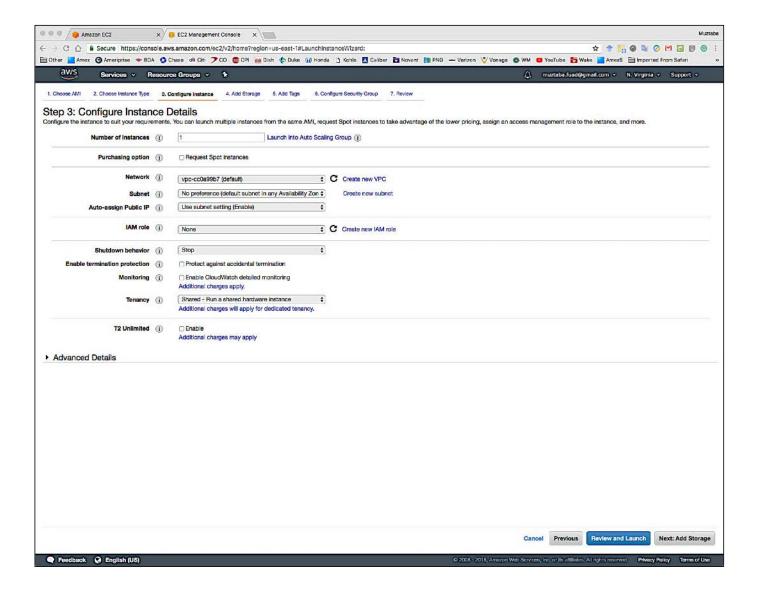




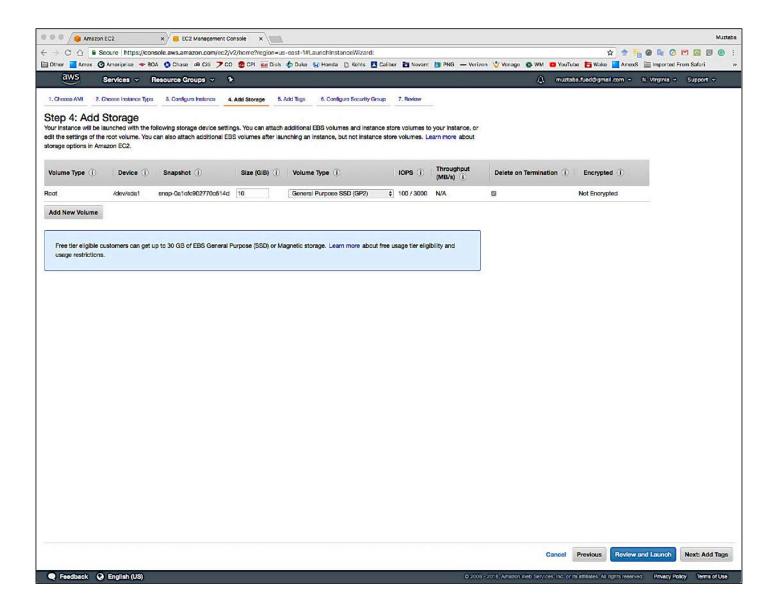
Select a free Linux machine

Select a free tier eligible type

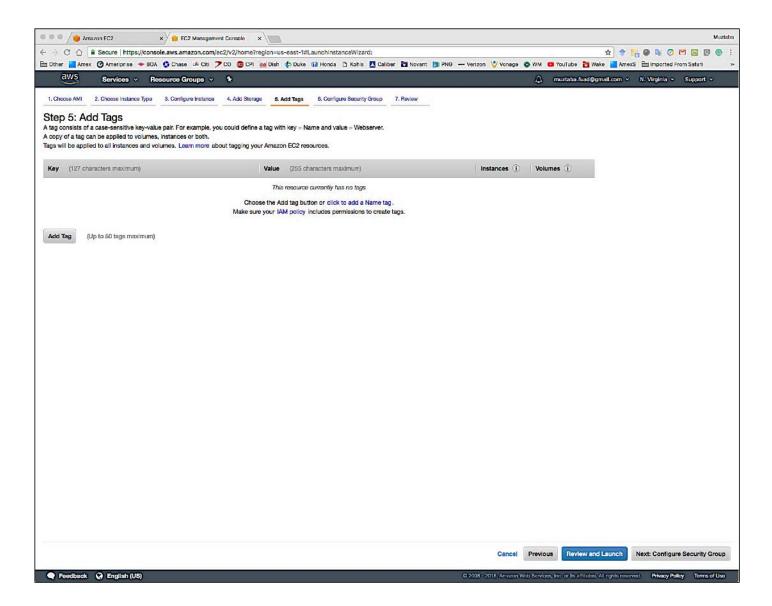




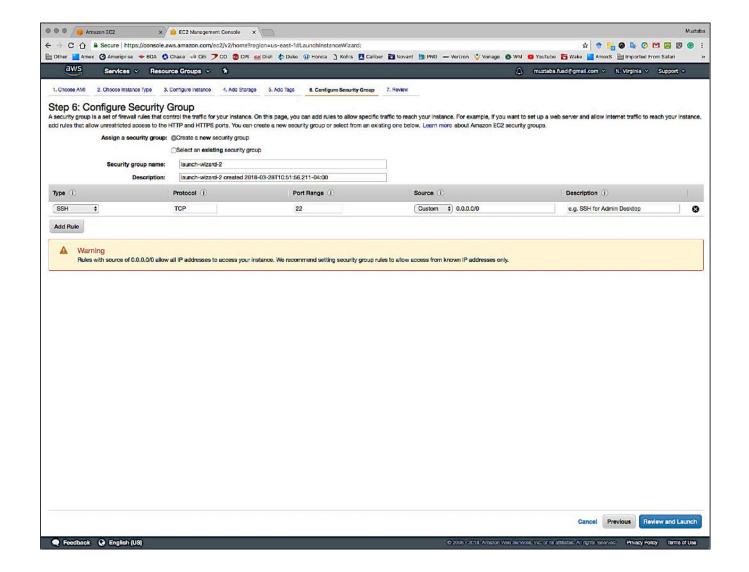
Press Next

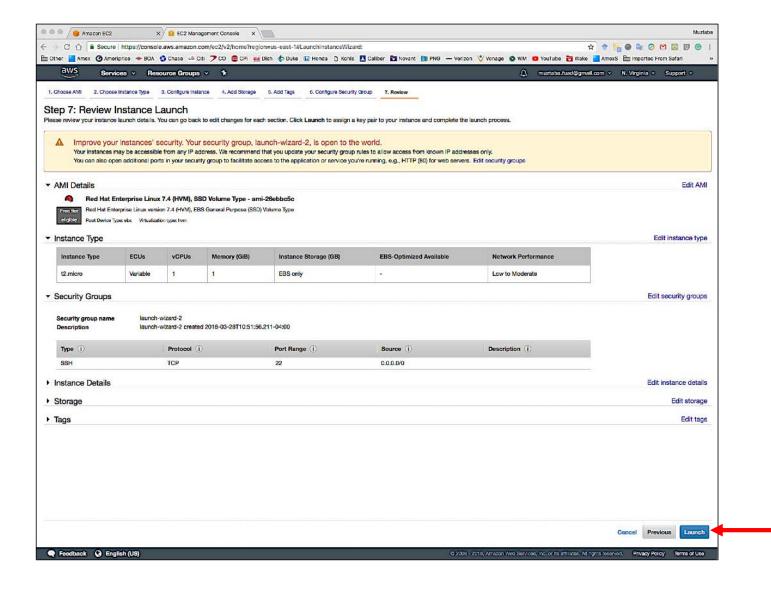


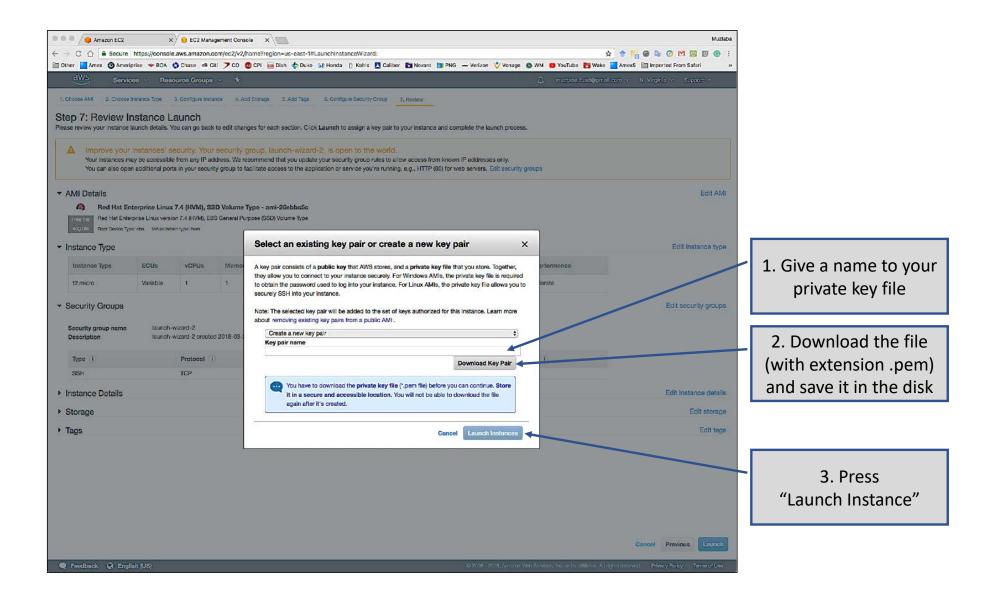
Press Next

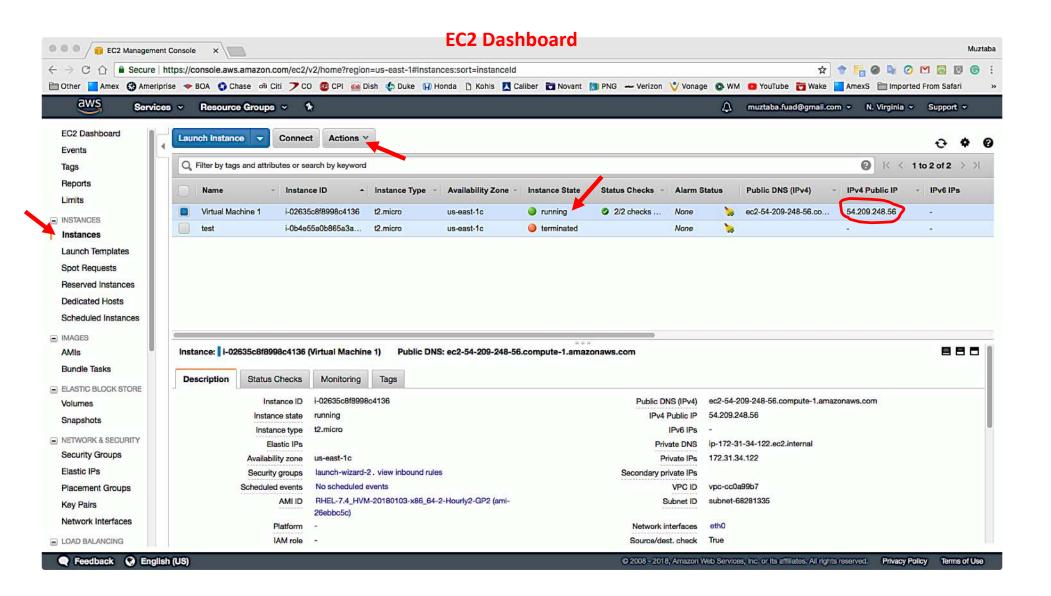


Press Next

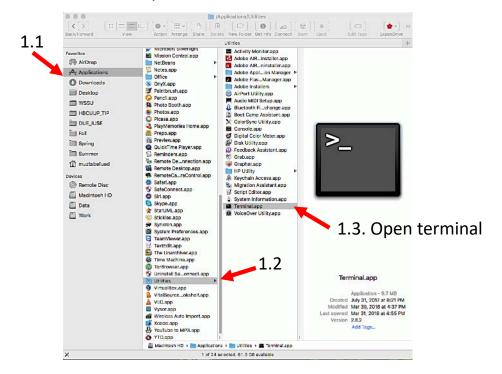




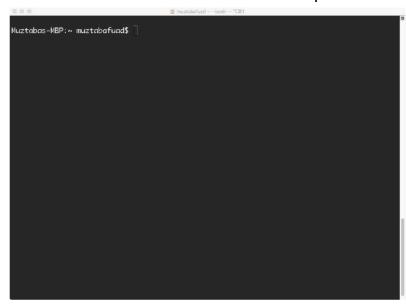




1. Open a finder window



2. A new terminal window will open



3. Copy your .pem file from where you saved before to the current folder

```
Type in your terminal window:

cp [path to your .pem file] [.]

Here is an example:

cp Downloads/vm1.pem .
```

You can also use Finder window to copy the file

4. Change the permission of the .pem file

Type in your terminal window:

chmod 600 [name of your .pem file]

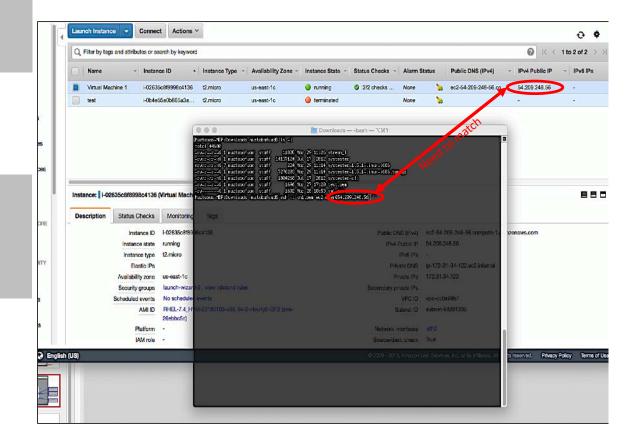
Here is an example:

chmod 600 vm1.pem

5. Now login to your AWS instance

Type in your terminal window:
ssh -i [name of your .pem file] ec2-user@[ip
address of your instance]
Here is an example:
ssh -i vm1.pem ec2-user@54.209.248.56

Type yes if your are prompted



- 6. Do the following:
 - 6.1 Download the 2 benchmarking software systester-cli and phoronix.tar.gz from Canvas.
 - 6.2 Open another terminal window by selecting the terminal window and then clicking the menu "Shell" and clicking on "New Tab".
 - 6.3 Change to the folder where you saved the above two files in step 6.1 by using the following command
 - cd [path to the folder where you saved the files]

So for example:

cd /muztabafuad/Downloads

6.4 Now use the following command 2 times to upload the 2 files that you downloaded in step 6.1 into your cloud instance

scp —i [path to your .pem file] [systester-cli or phoronix.tar.gz] ec2-user@ip address of your instance]

So for example:

scp -i vm1.pem systester-cli ec2-user@ 54.209.248.56:~

- 7. Now you are ready to run the two benchmark software on your instance.
 - 7.1 Go back to the terminal window of Step 5 by clicking the corresponding terminal tab.
 - 7.2 Type in **Is -I** and see whether you can find the two files that you have uploaded

- 8. To Run Systester, write the following command on the terminal: ./systester-cli
- 9. To run Phoronix for the first time, write the following commands in sequence:
 - 9.1. tar -xvzf phoronix.tar.gz
 - 9.2 cd phoronix
 - 9.3 sudo yum groupinstall "Development Tools"
 - 9.2 sudo yum install php-cli php-xml
 - 9.3 sudo ./phoronix-test-suite force-install iozone
 - 9.4 ./phoronix-test-suite benchmark iozone

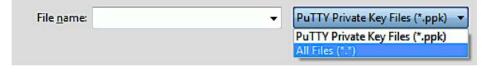
Select the corresponding parameters once you run Phoronix

9.5 Subsequent run of phoronix should be only step 9.4

- 1. Download Putty from https://the.earth.li/~sgtatham/putty/latest/w64/putty-64bit-0.70-installer.msi and install it in your computer.
- 2. Locate your .pem file and convert it to be used with Putty
 - 2.1. Run PuttyGen by choosing All Programs>Putty>PuttyGen
 - 2.2 Under Type of key to generate, choose RSA.

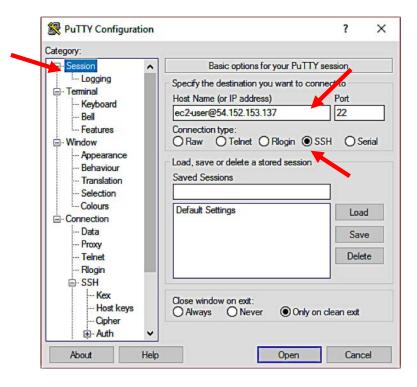


3. Choose **Load**. By default, PuttyGen displays only files with the extension **.ppk**. To locate your **.pem** file, select the option to display files of all types.

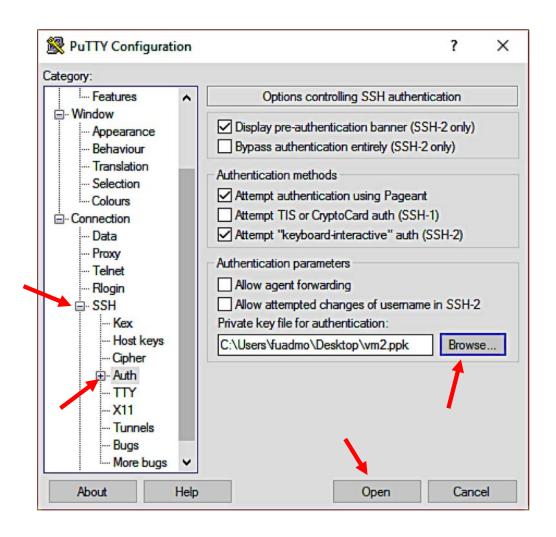


- 4. Select your **.pem** file, and then choose Open. Choose **OK** to dismiss any confirmation dialog box.
 - 4.1 Choose Save private key to save the key in the format that PuTTY can use (has .ppk extension).
 - 4.2 PuttyGen displays a warning about saving the key without a passphrase. Choose Yes.

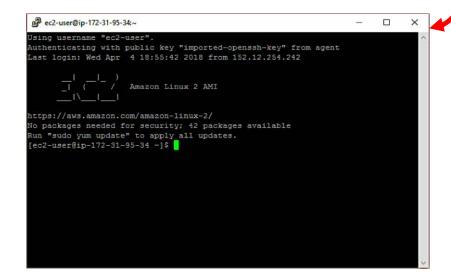
- 5. Start PuTTY (from the Start menu, choose All Programs > PuTTY > PuTTY).
 - 5.1 In the Category pane, choose **Session** and complete the following fields:
 - 5.2 In the **Host Name box**, enter user name @ ip address of your instance
 - 5.3 Under Connection type, choose SSH



- 6. In the Category pane, expand **Connection**, expand **SSH**, and then choose **Auth**.
 - 6.1 Choose Browse and Select the .ppk file that you generated for your key pair, and then choose Open.
 - 6.2 Choose **Open** to start the PuTTY session.

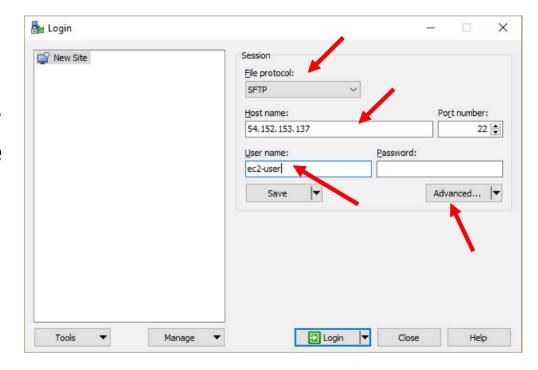


- If this is the first time you have connected to this instance, Putty displays a security alert dialog box that asks whether you trust the host you are connecting to.
- Choose Yes. A window opens and you are connected to your instance.



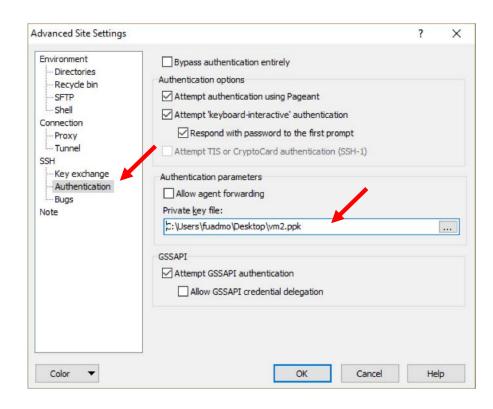


- 7. Download the 2 benchmarking software systester-cli and phoronix.tar.gz from Canvas.
- 8. Download and install WinSCP from http://winscp.net/eng/download.php. For most users, the default installation options are OK.
- 9. Start WinSCP.
- 10. At the WinSCP login screen, for **Host name**, enter the IP address of your instance and for **User Name** enter *ec2-user*. **File Protocol** should be *SFTP*.
- 11. Now click Advanced.

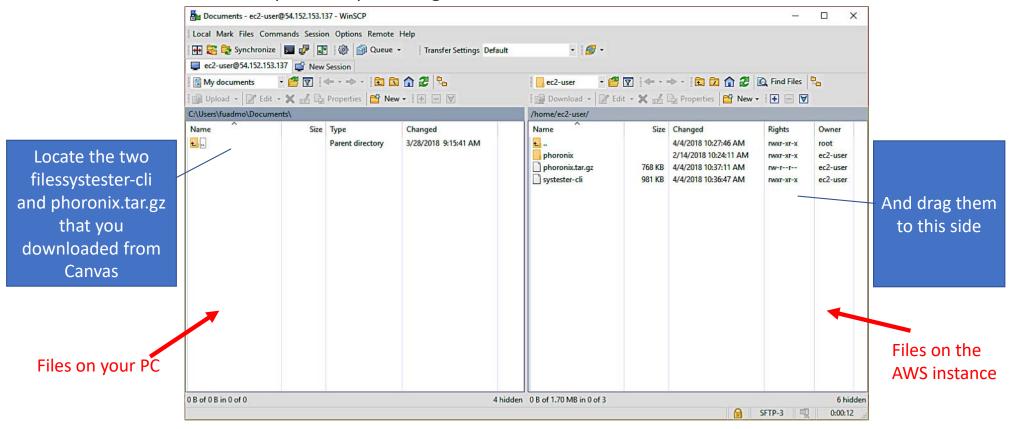


- 12. Click Authentication and under Private key file, browse for the converted .ppk file and select the file.
- 13. Now press OK.
- 14. WinSCP might show you a warning; just press **Yes**.





After the connection is established, in the connection window your Linux instance is on the right and your local machine is on the left. You can drag and drop files directly into the remote file system from your local machine. For more information on WinSCP, see the project documentation at http://winscp.net/eng/docs/start.



• The rest of the steps are similar to steps 8 and 9 for macs.

Important: Once you're done experimenting with the AWS instance, DO NOT forget to stop the instance. You can always login, go to the EC2 dashboard and start the instance later.

