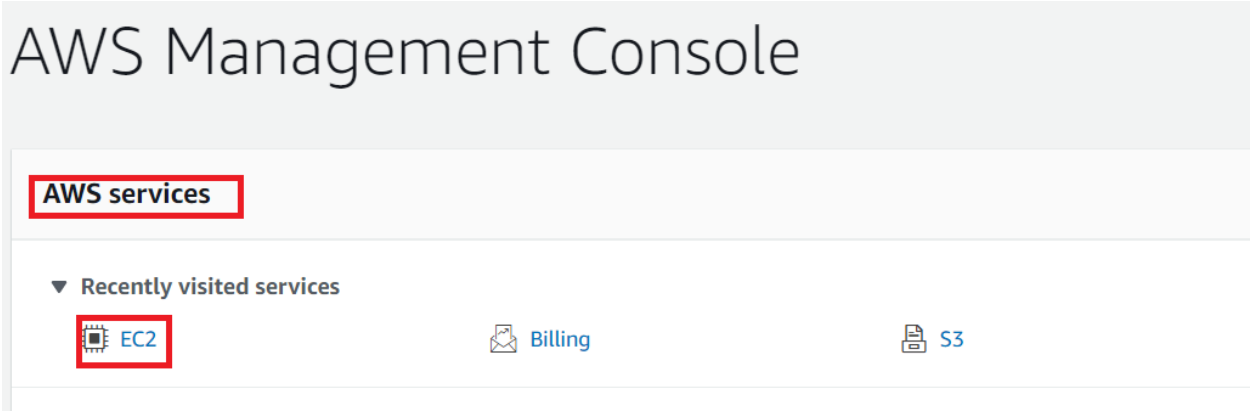
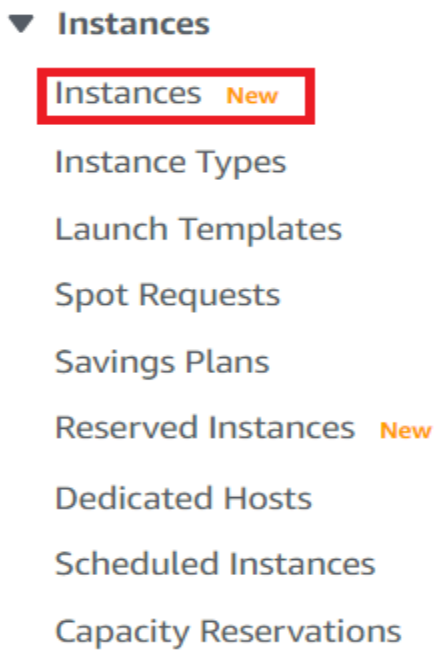
Creating Ubuntu Instance Over AWS

This document covers the steps to create an Ubuntu instance and, more importantly, opening **port no 8080** for Jenkins to work. So, login to AWS Management console and perform the following steps:

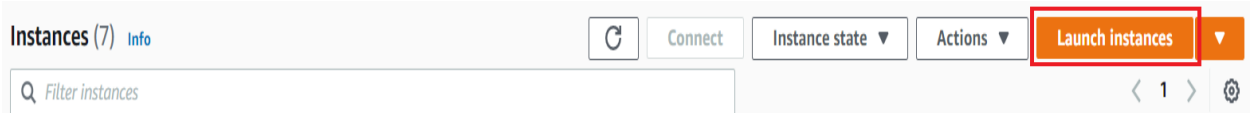
1. Select **EC2** in **AWS Services**.



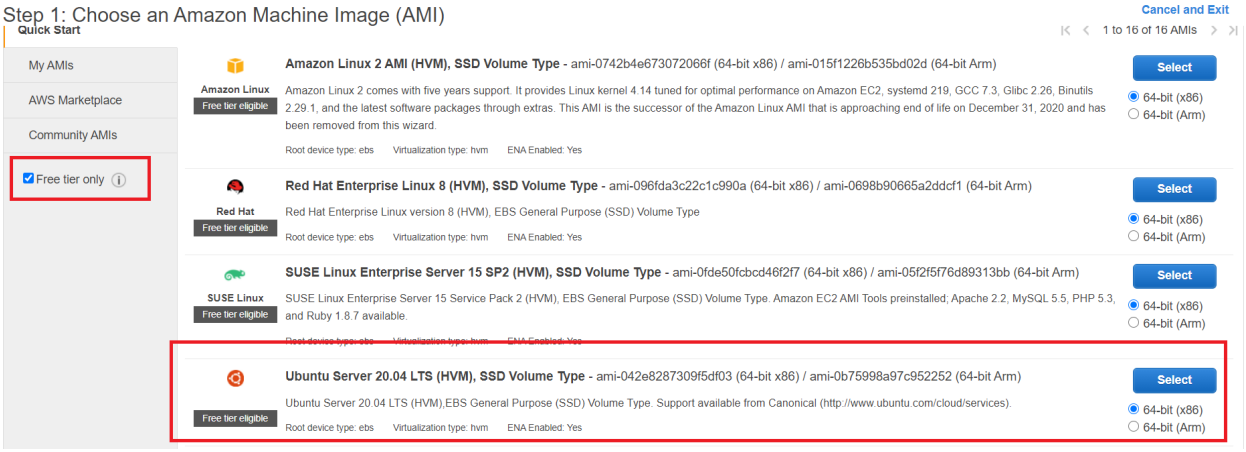
2. Then, select **Instances** from the left-side menu.



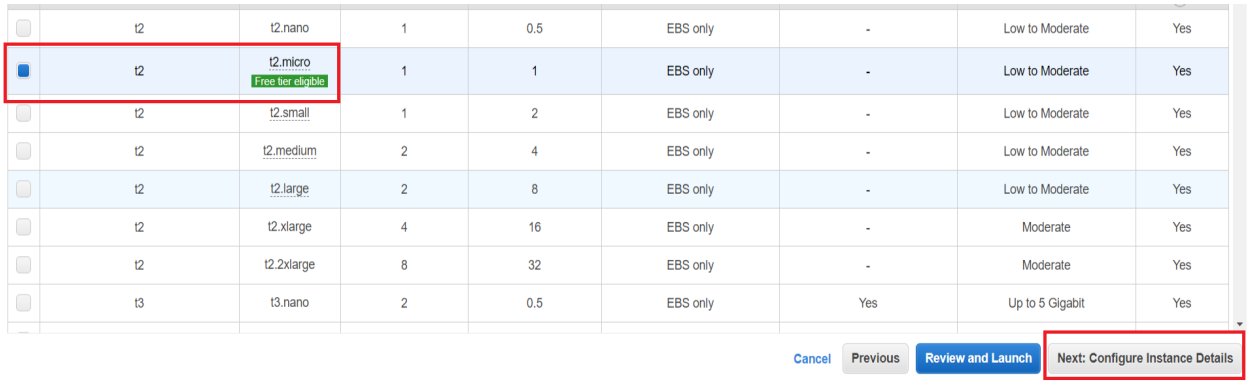
3. After that, click on **Launch Instances** present on the top right corner.



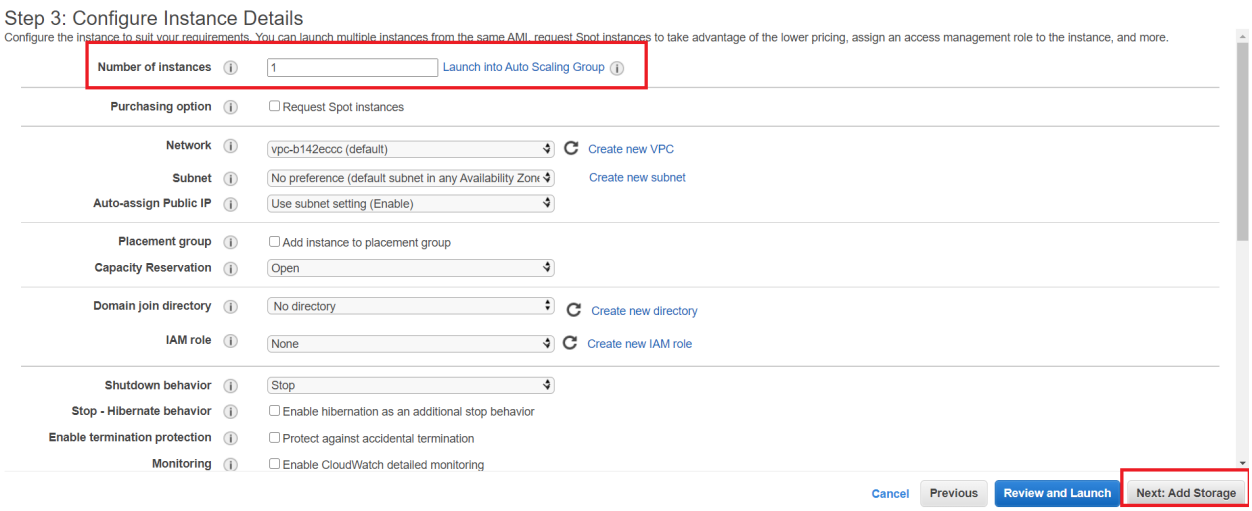
4. Thereafter, enable **Free Tier Only** from the left-side menu.
5. Then, select **Ubuntu Server 20.04 LTS** as shown below.



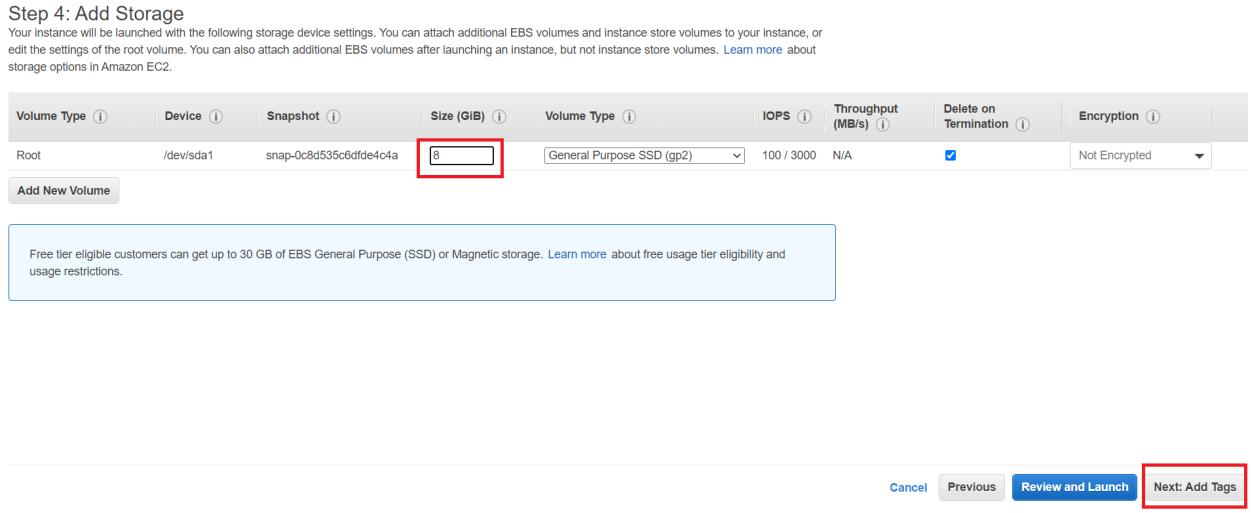
6. Now, in the instance type, let **t2.micro** get selected by default. After that select **Configure Instance Details**.



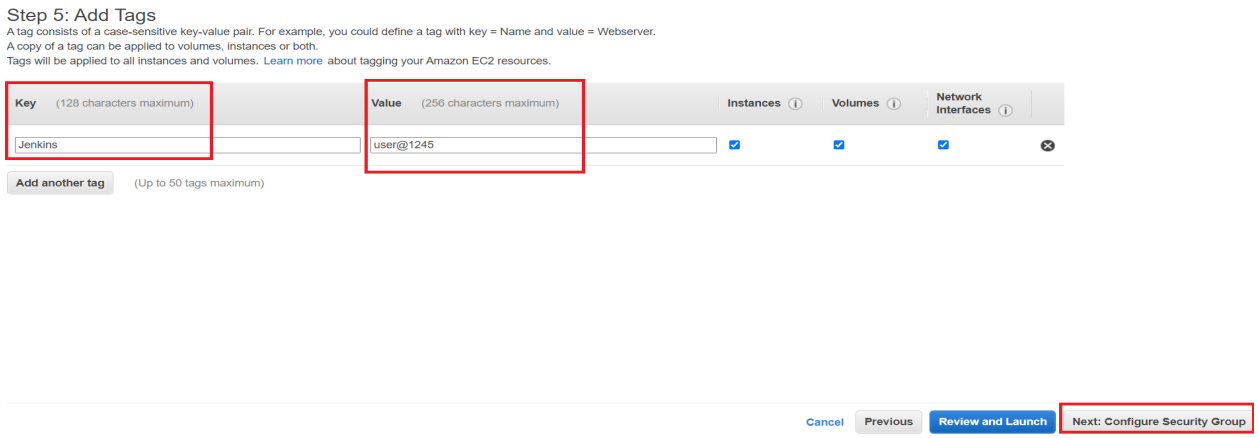
7. In the **Configure Instance Details**, let all parameters get selected by default. Then, click on **Add Storage**.



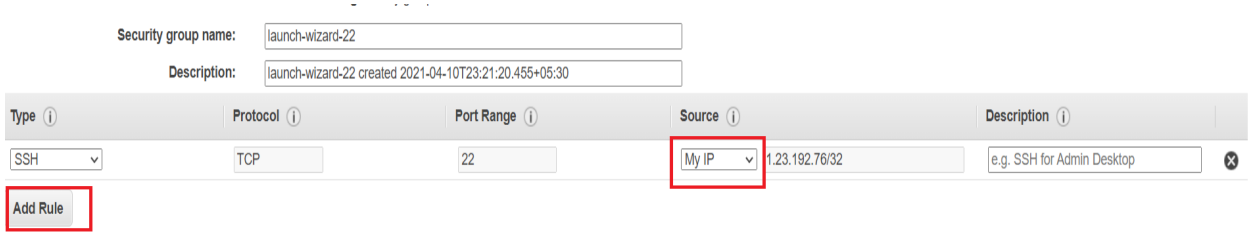
8. Then, in the **Add Storage**, let size be **8 (GIB)**. After that, select **Add tags**.



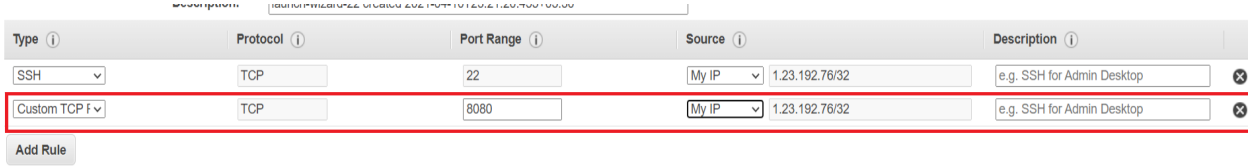
9. Then, in the Add Tags section, provide the Key and Value as shown in the image below. After that, click on the **Configure Security Group** option.



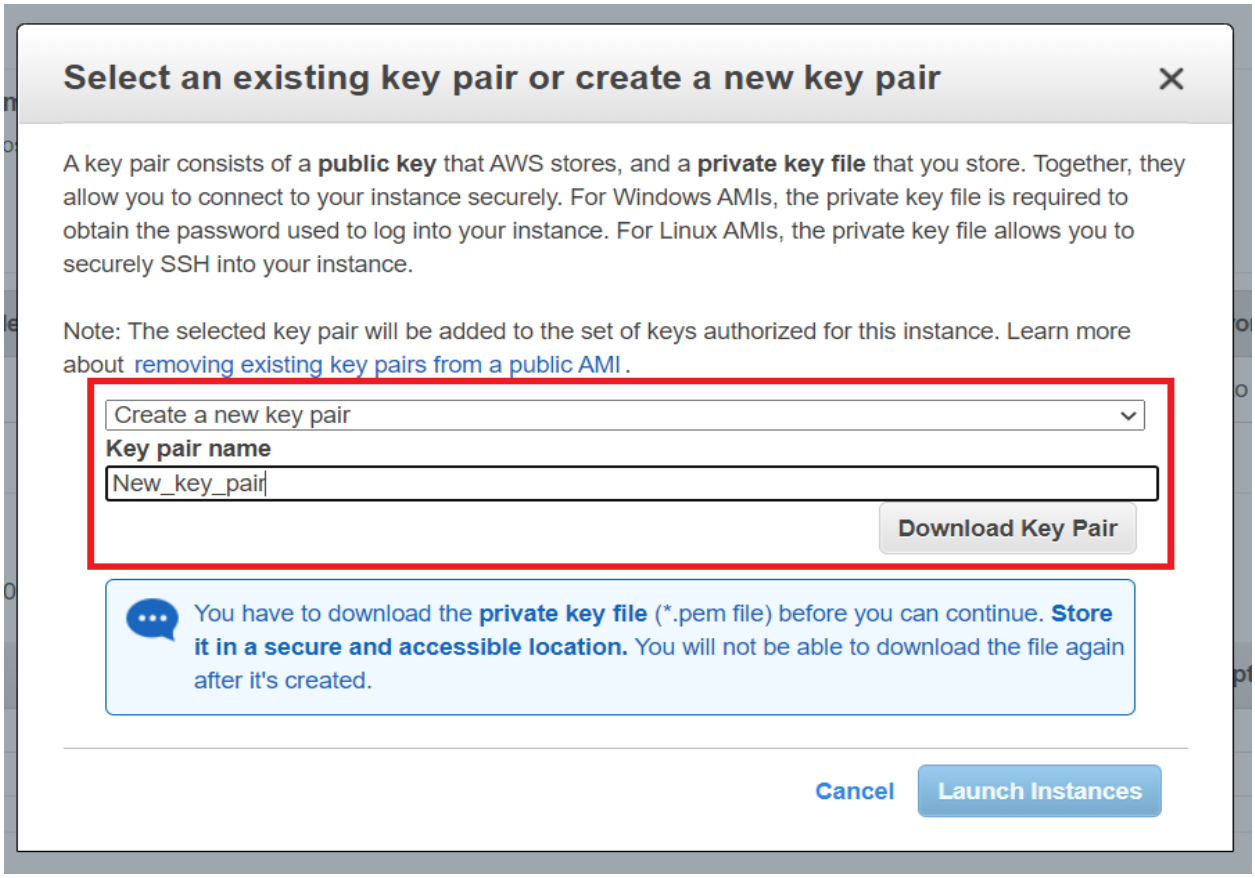
10. For SSH, select **My IP** in the **Source** section.
11. Here, click on **Add Rule**.



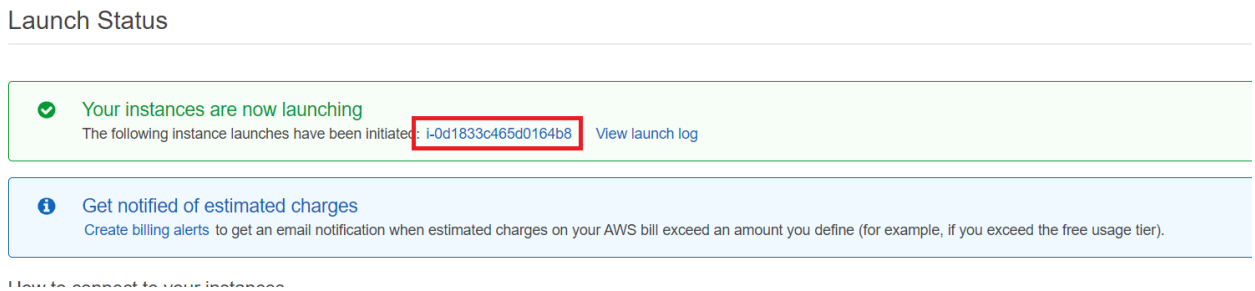
12. Next, in the **Type**, select **Custom TCP Rule**. In the Port range, enter 8080. Here, you are opening port no 8080 to access Jenkins via the browser.
13. After that, in the **Source**, select **My IP** for **Custom TCP Rule**.



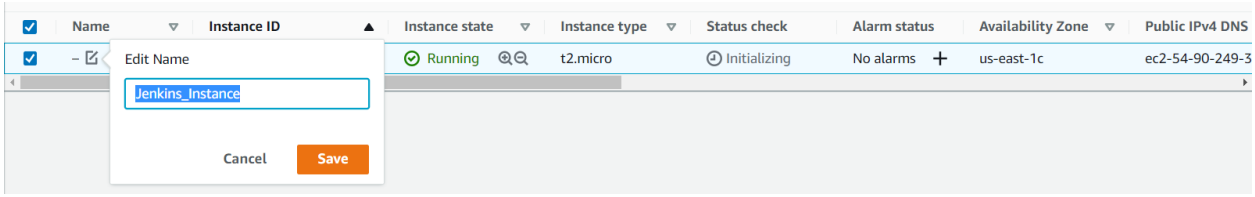
14. Then, click on the **Review and Launch** option.
15. Next, click on the **Launch** option.
16. After that, you will be asked to add a **Key pair**. You can select an existing key pair or create one as per your requirement. Here, you are creating a new key pair.
17. Then, click on the **Download Key Pair**.



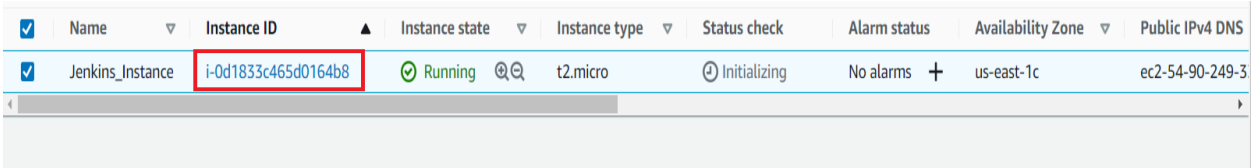
18. Once your key pair is downloaded, click on **Launch Instances**.
19. After that, click on your instance to go to the Instance dashboard.



20. Here, you can see your instance running. After that, provide a name to your instance and then click on **Save**.

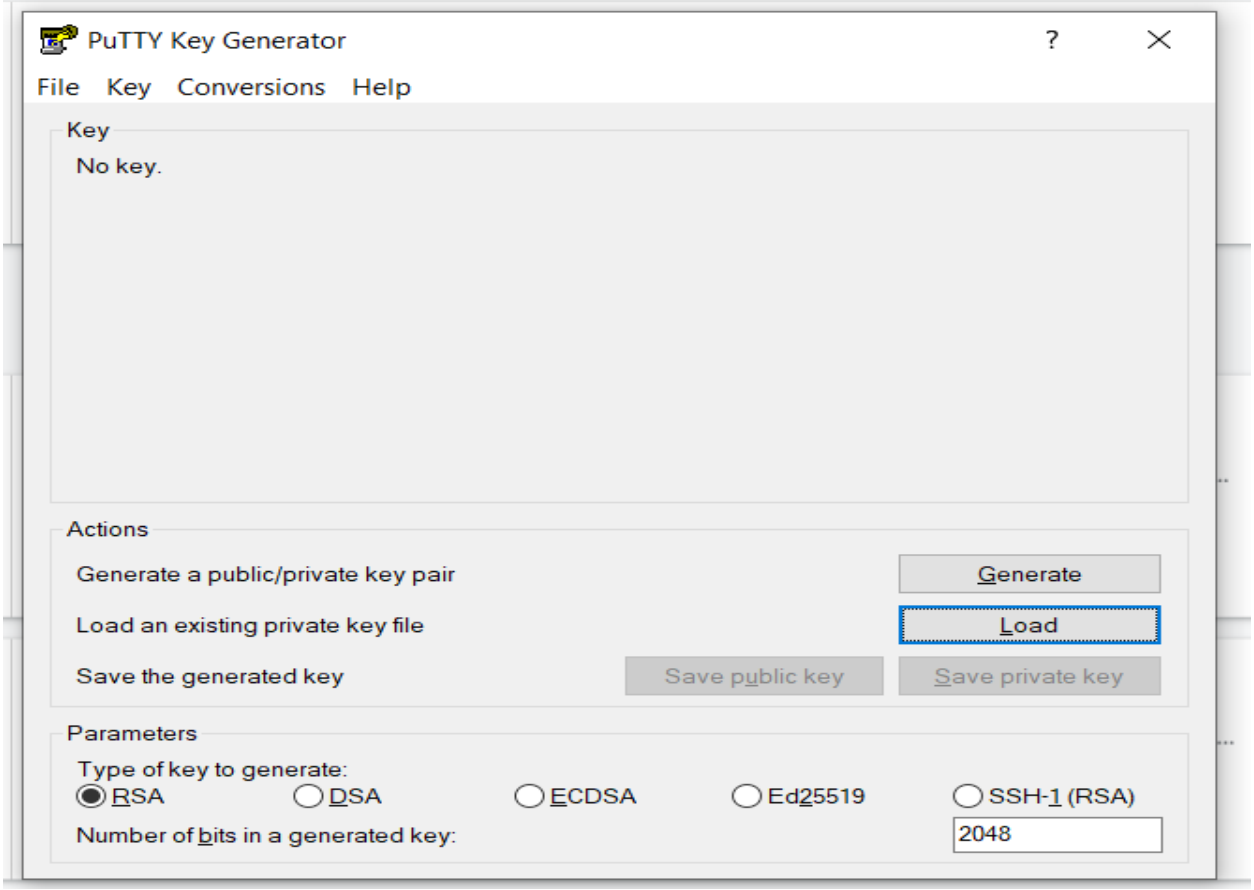


21. Now, click on your **Instance Id** to go to your Instance dashboard.

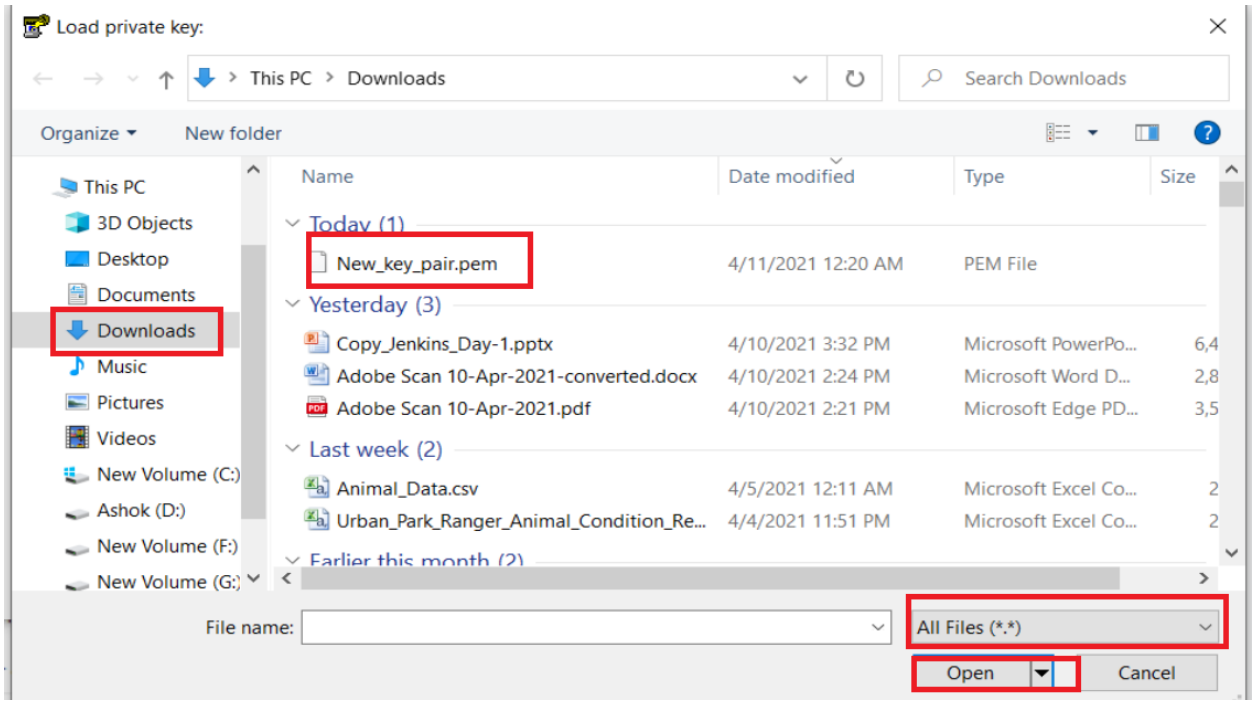


22. Now, to connect to your instance, you require the .ppk file in Windows. Therefore, open the **Puttygen** app on your system. Linux and Mac users can directly SSH into their instance.

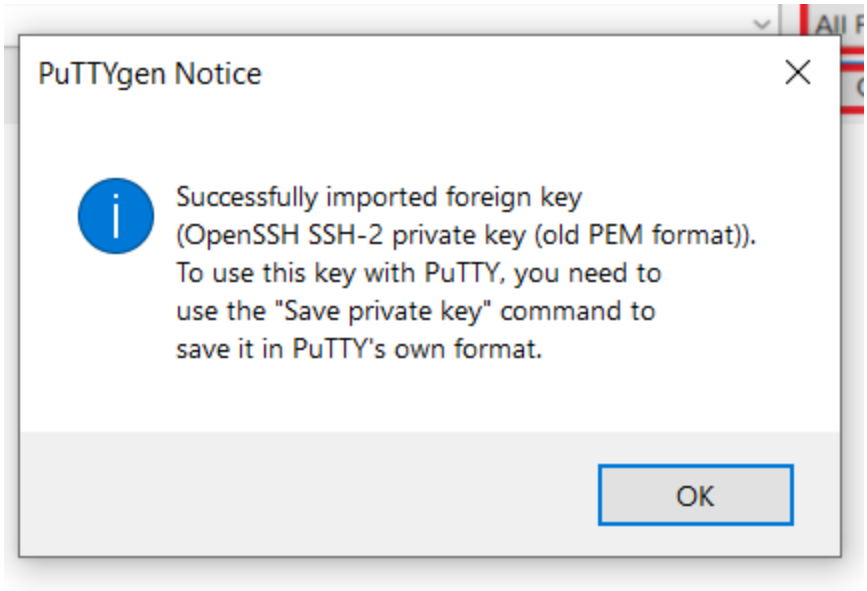
23. Then, click on **Load**.



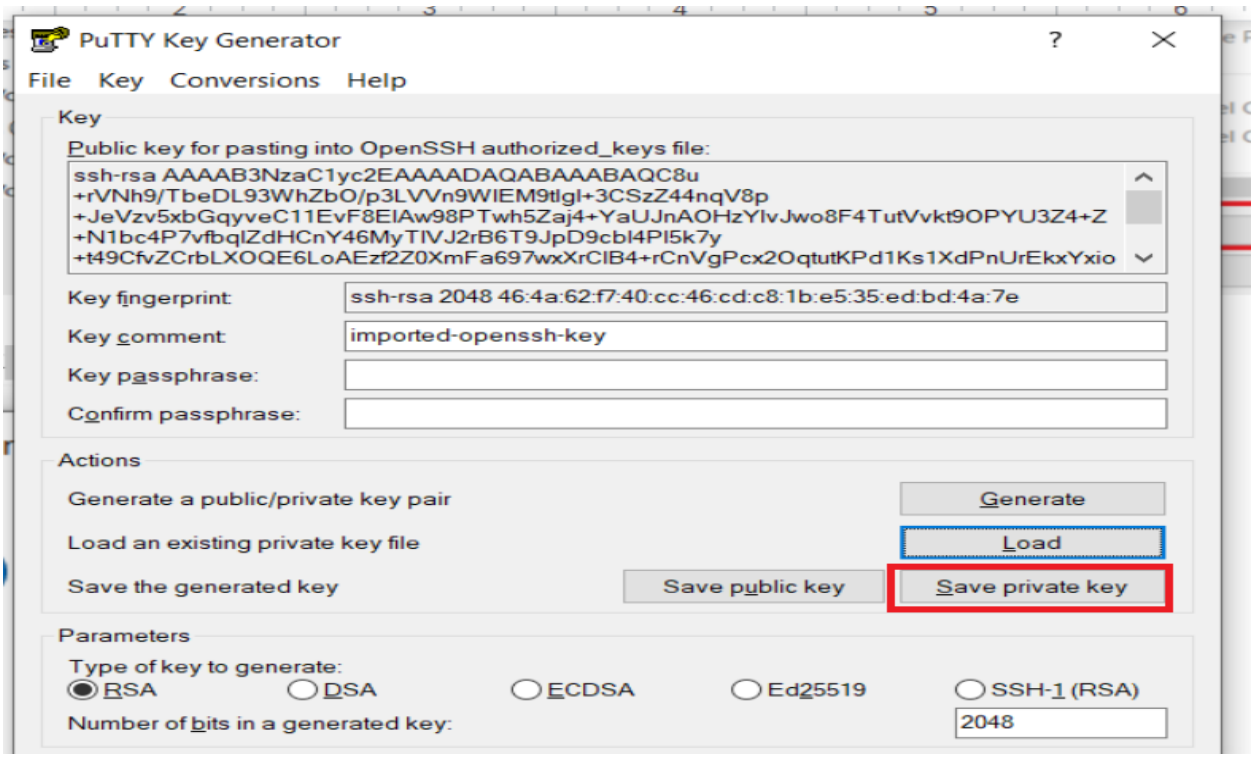
24. After that, go to the **Download** section and select **All files(*.*)** as shown. Then, select your **.pem file** and click on **open**.



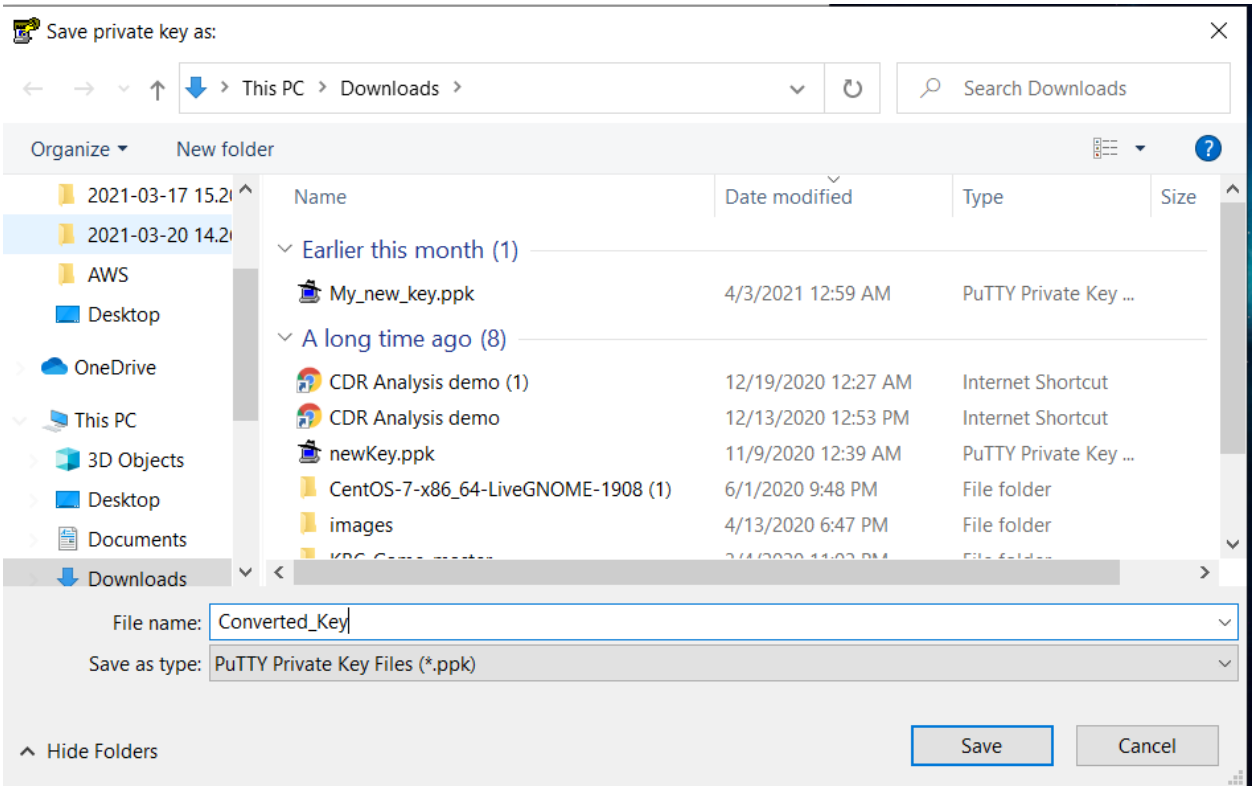
25. Click **OK**.



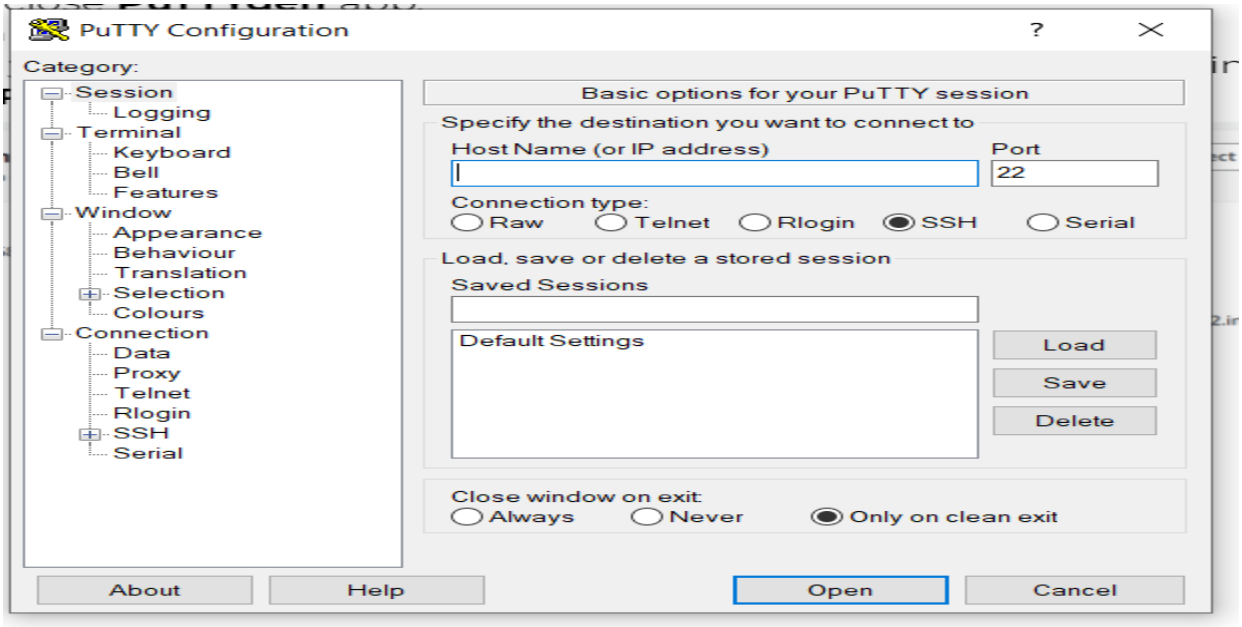
26. Then, click on **Save Private Key**.



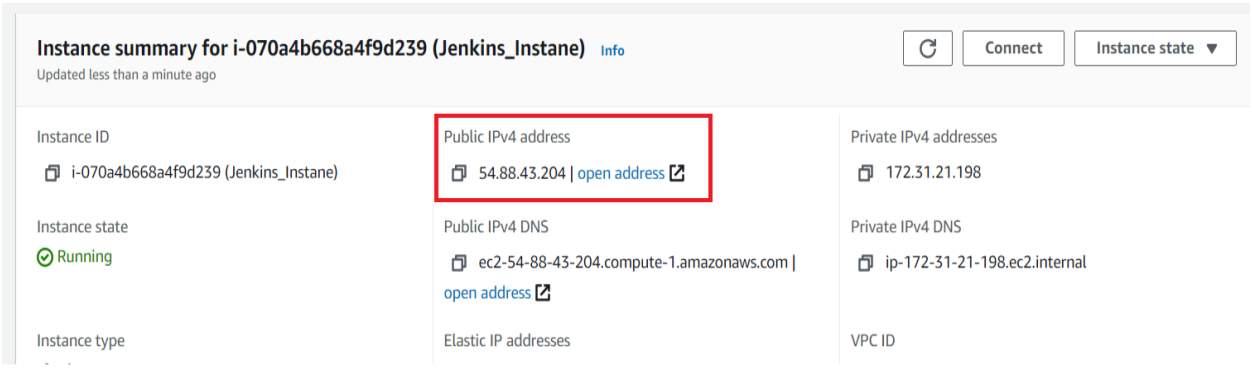
27. Next, you will get a warning. Click **OK** and continue.
28. Then, enter a file name you want to give and click on **Save**.



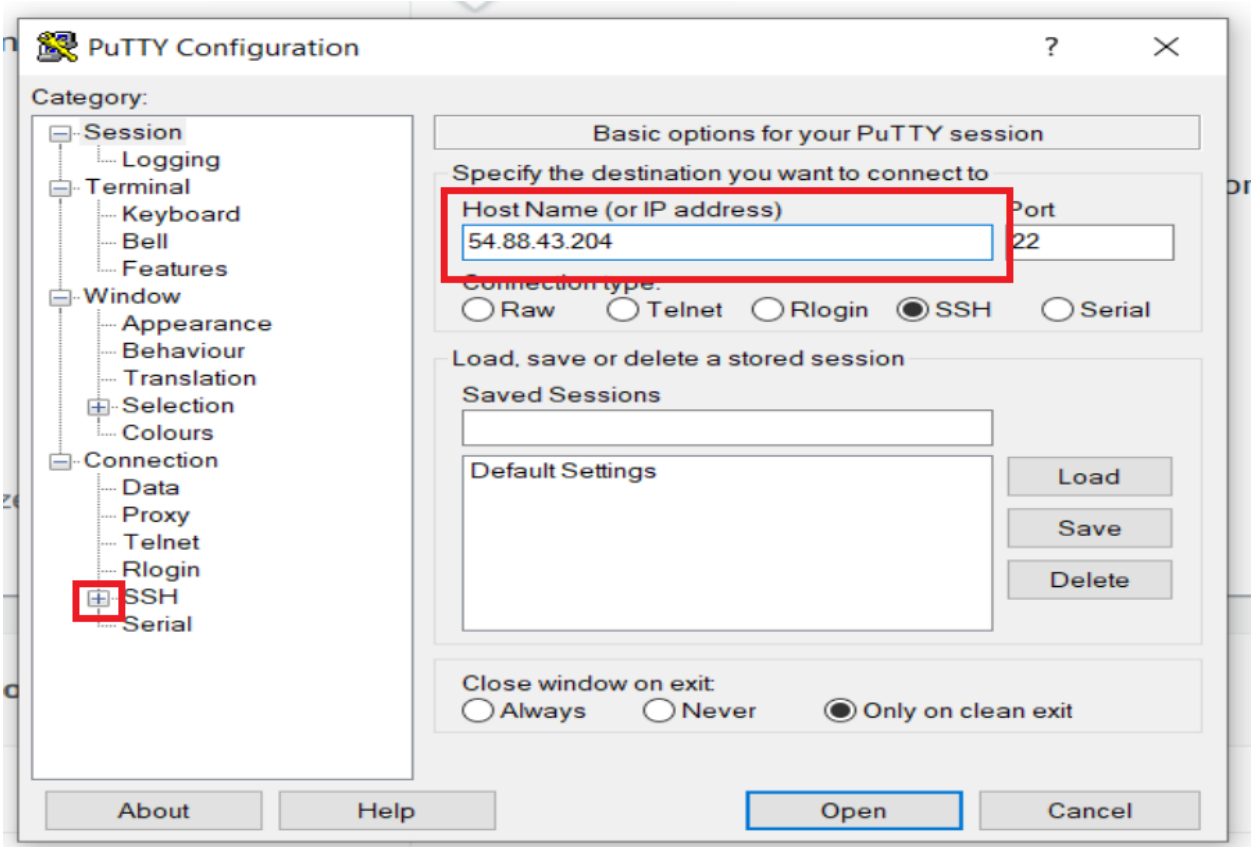
29. After that, close the **PuTTYgen** app.
30. Now, open the **PuTTY** app.



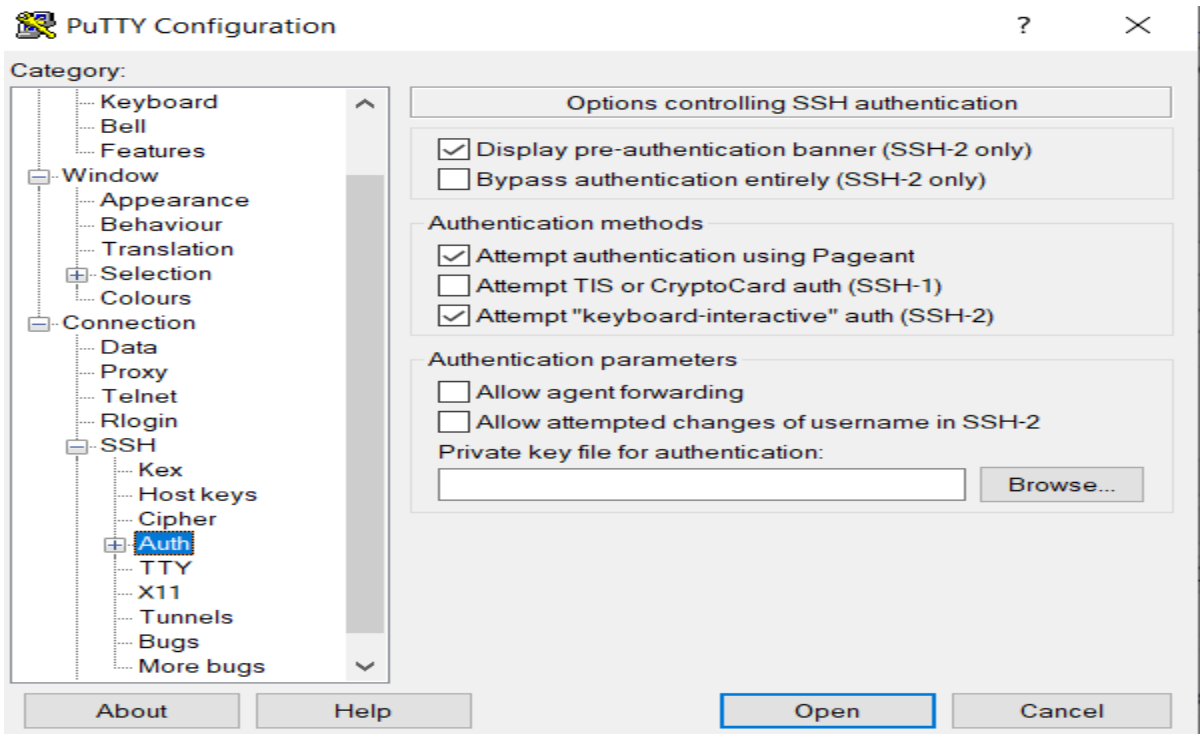
31. After that, you will be required to enter your **Hostname.** So, go to your instance and copy **Public IPv4 Address**.



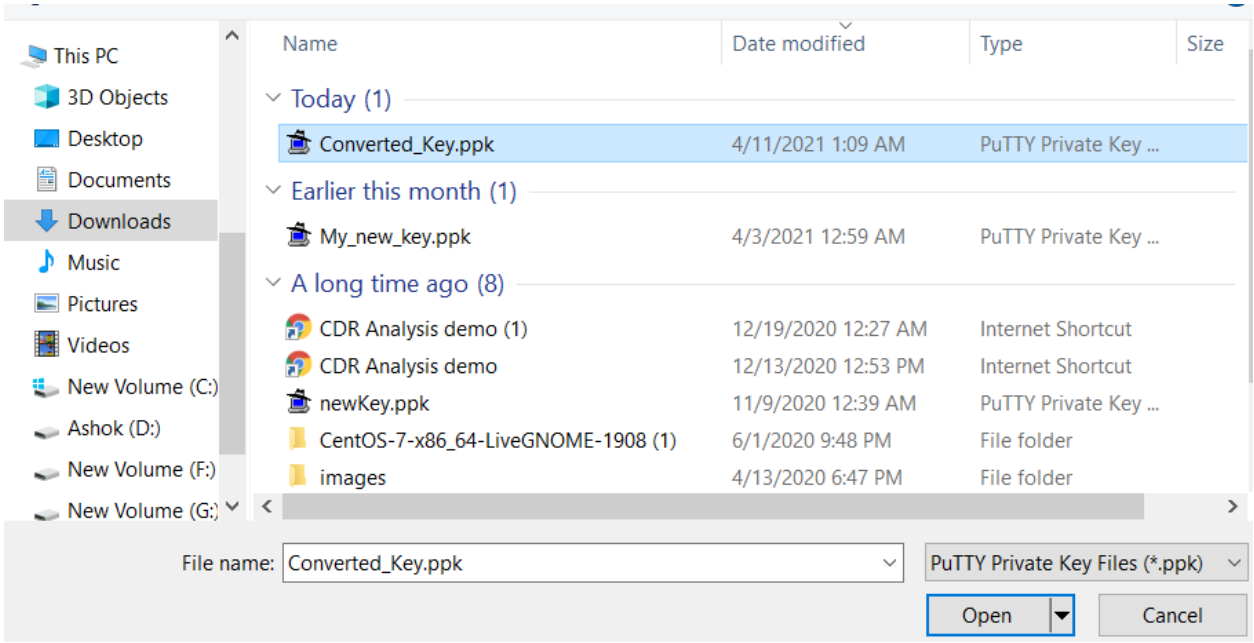
32. Then, come back to your PuTTY app and paste the **Public IPv4** address that you copied.
33. Click on **SSH**.



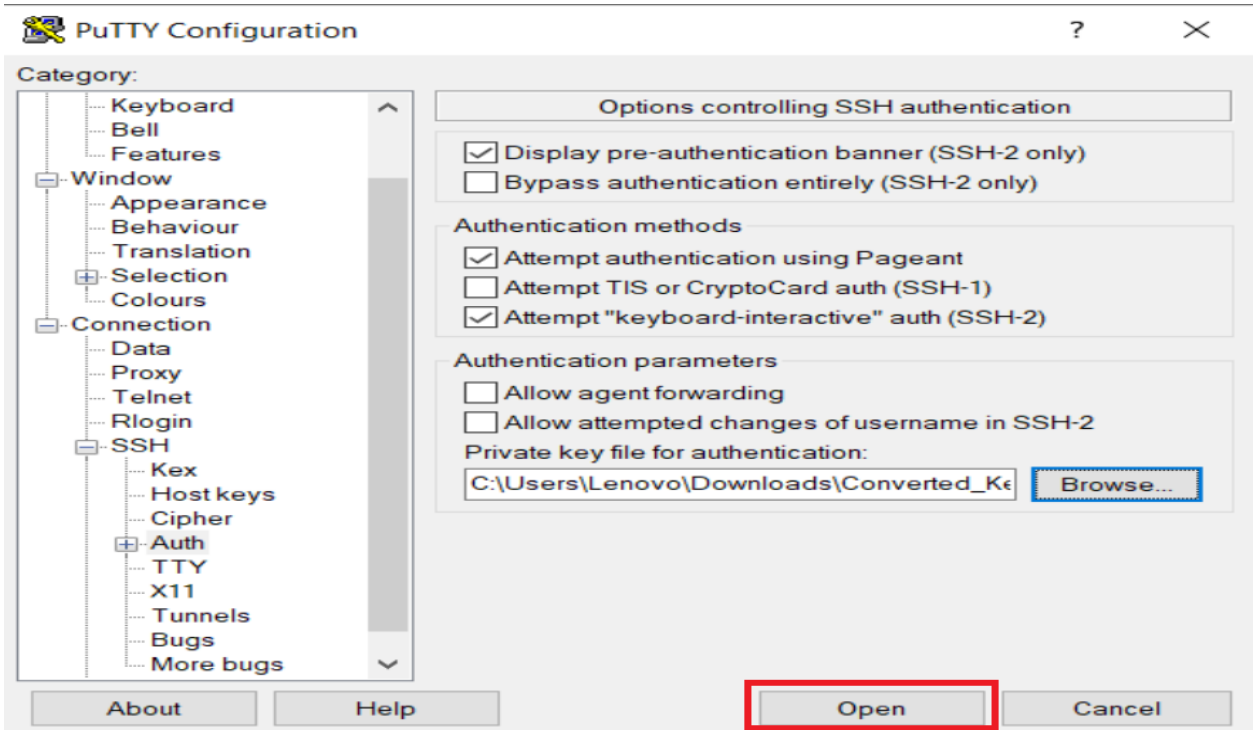
34. Then, select **Auth**. After that, you need to load the **.ppk** that we generated**.**



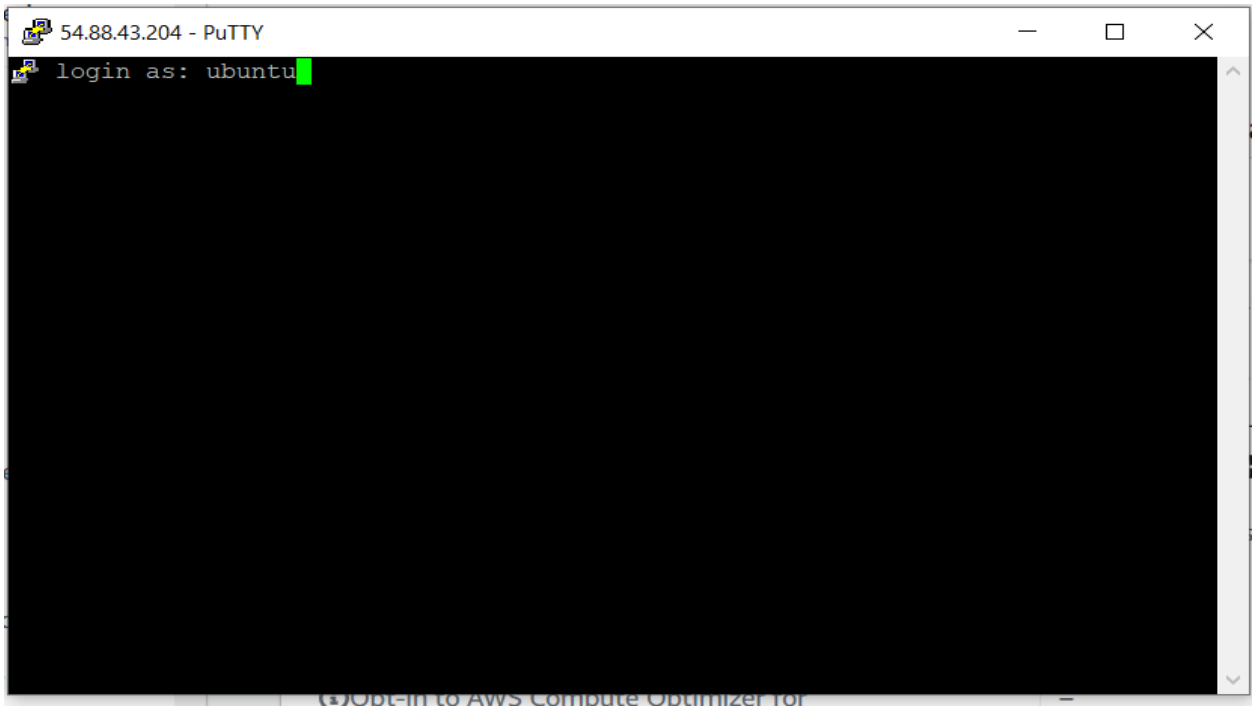
35. Click on **Browse** as shown in the above figure.
36. Then, select the key and click on **Open**.



37. Once your key is loaded, click on **Open**.



38. Next, you will get a **PuTTY security alert** warning. Select **yes**.
39. Now, you will be asked to **login as**, so, you must enter **ubuntu**.



40. Once you hit enter, you will get logged in to your machine as shown here.