Create EC2 Instance

In this page, we will explain the creation of the **EC2** instance in **AWS**

- **AWS EC2** : here we will create an **EC2** instance in **AWS** using **Red Hat Enterprise Image**
- **connection** : we will explain **ssh connection**

Objectives

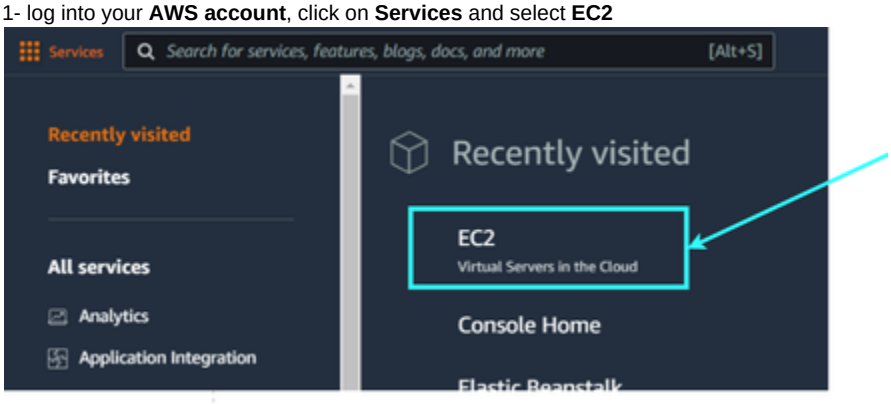
Facilitate the **EC2** instances creation in AWS.

Jobs we want to cover

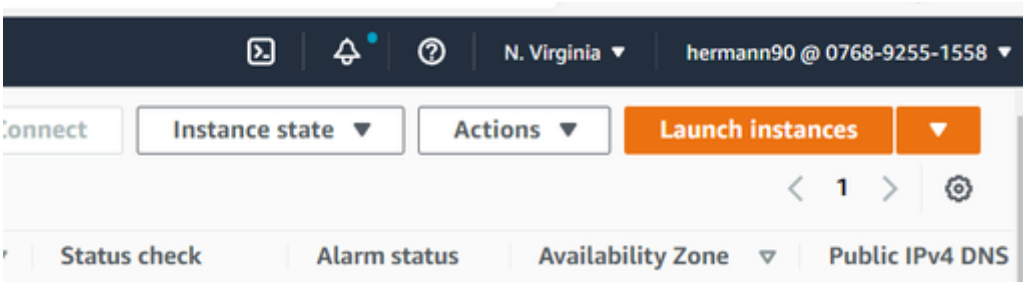
- When I am a DevOps engineer
- I want to quickly configure my EC2 instance

Step : create an **EC2** instance in **AWS** with the **Red Hat Enterprise** image

1- log into your **AWS account**, click on **Services** and select **EC2**

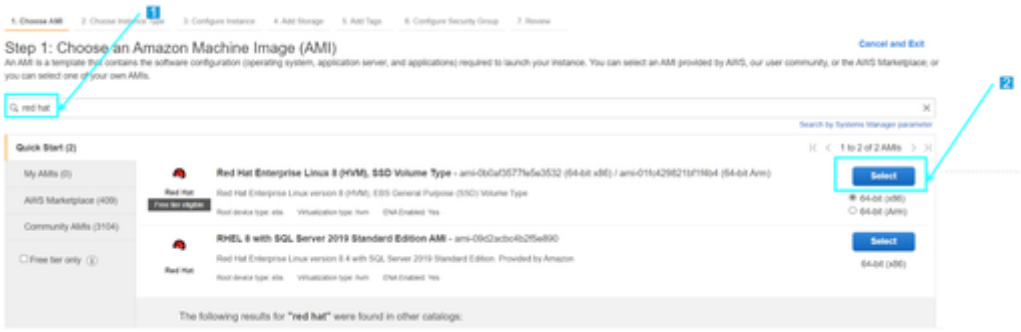


2- click on **Lunch instances** for begin Red Hat installation.

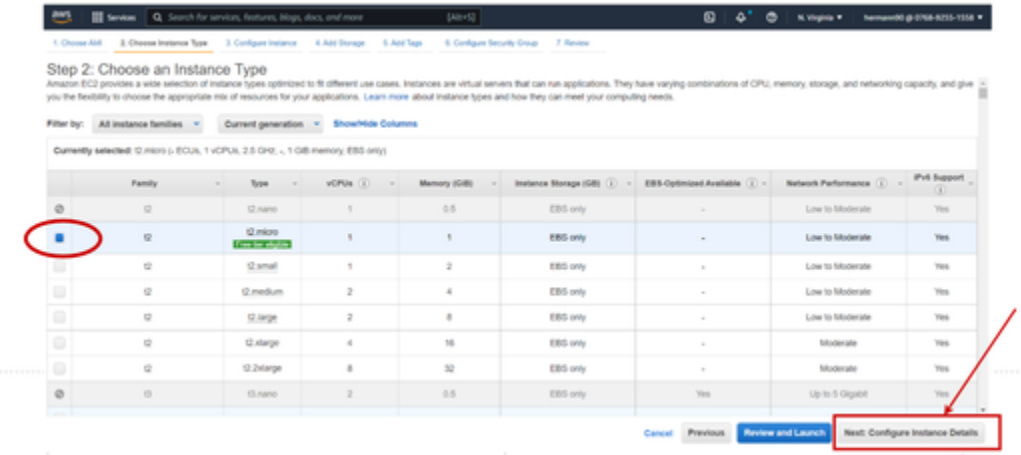


3- Here, let's perform these 2 actions :

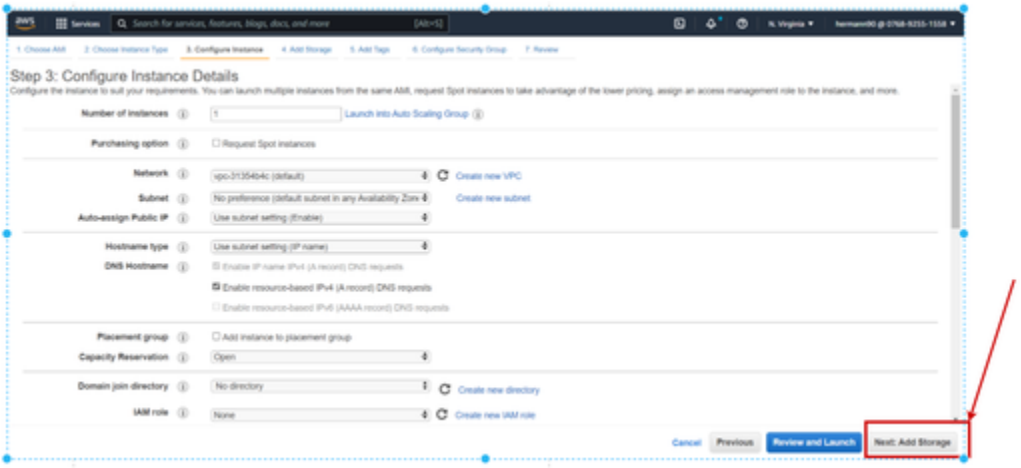
- **1-** enter **red hat** in the **search box** and then click enter to search for Red Hat OS available in AWS.
- **2-** - click on **Select** in 2 to choose Red Hat Enterprise Linux 8



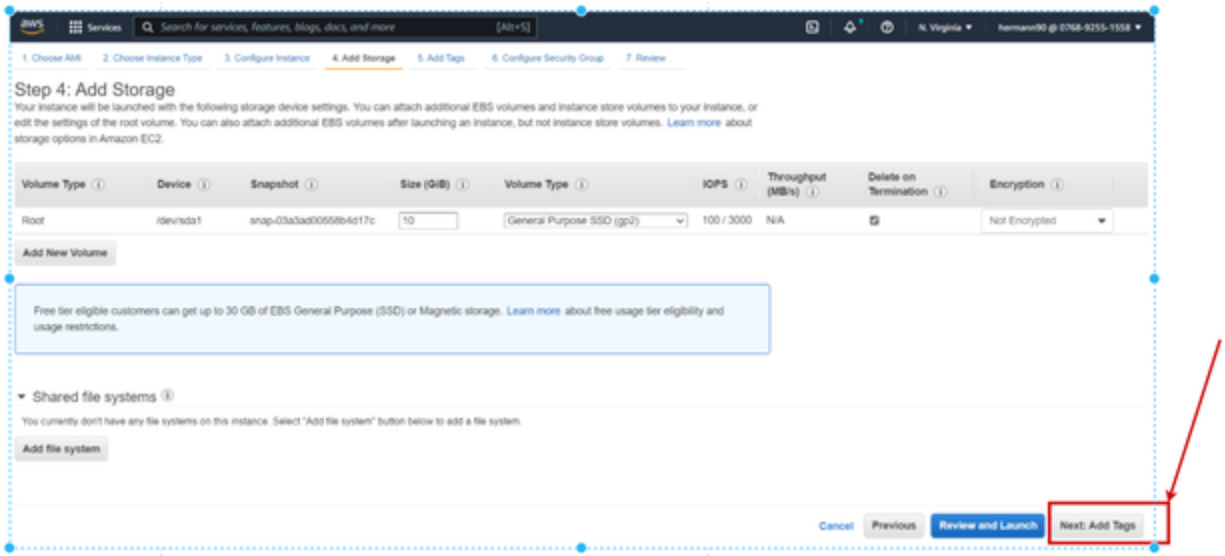
4- Make sure that the line that is mark **free trier eligible** is checked, then click on **Next : configuration Instance Details**



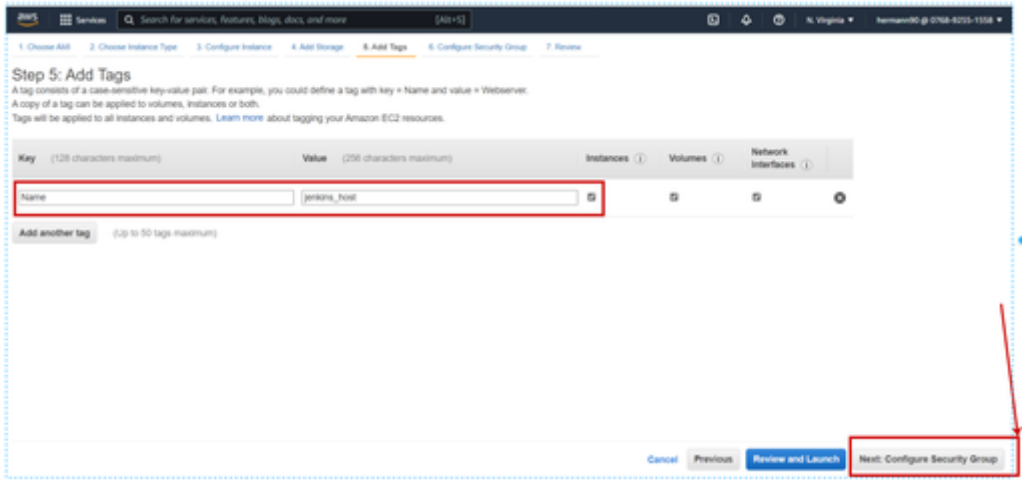
5- in the **Configure Instance Details** page, just click **Next: Add Storage**



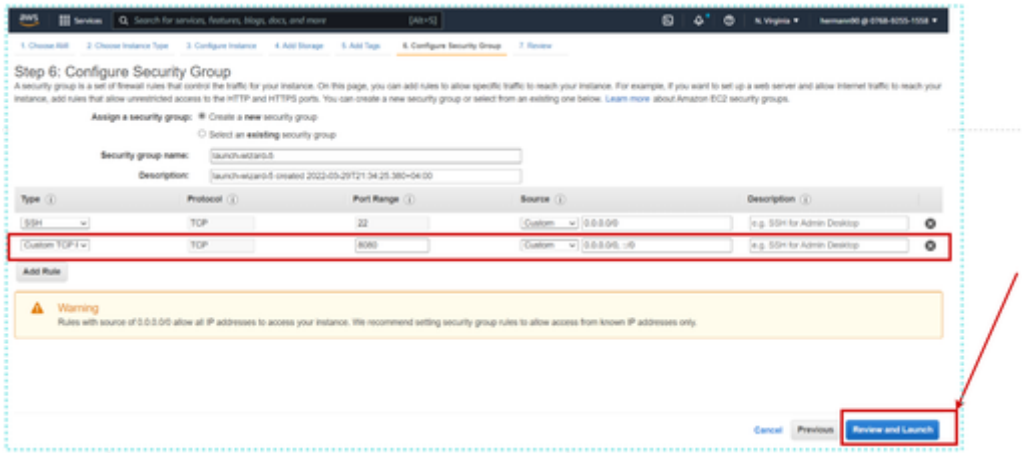
6- In this page too, nothing to add, just click on the **Next : Add Tags** button



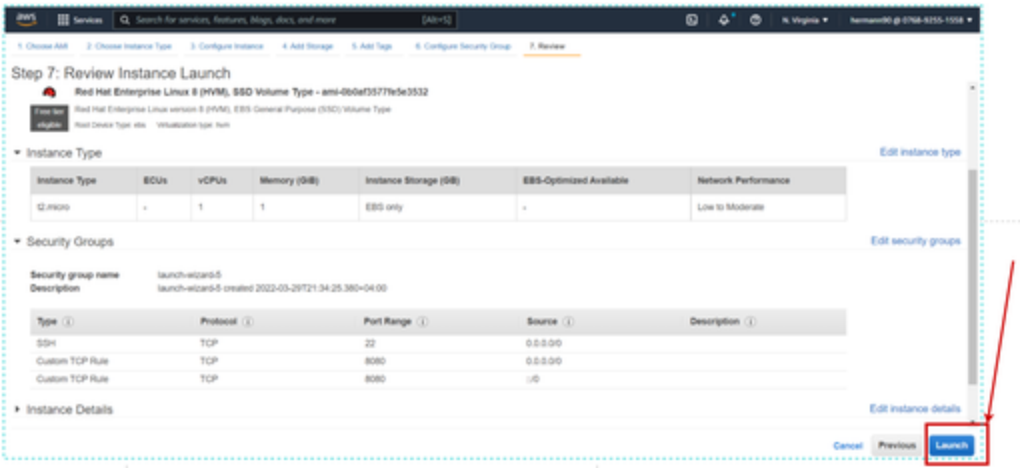
7- click on **Add tag**, then puts : key = **Name**, and value = **jenkins_host** the name of your server finally click on **Next: Config Security Group**



8- In the **security group**, we will add a rule to allow Jenkins to run on **Port 8080**. To do this, click on **Add Rules** to add this rule like in this following image, then click on **Review and Launch** button



9- Here is what we have as a summary of our configurations. Just click on **Launch** to start our instance.



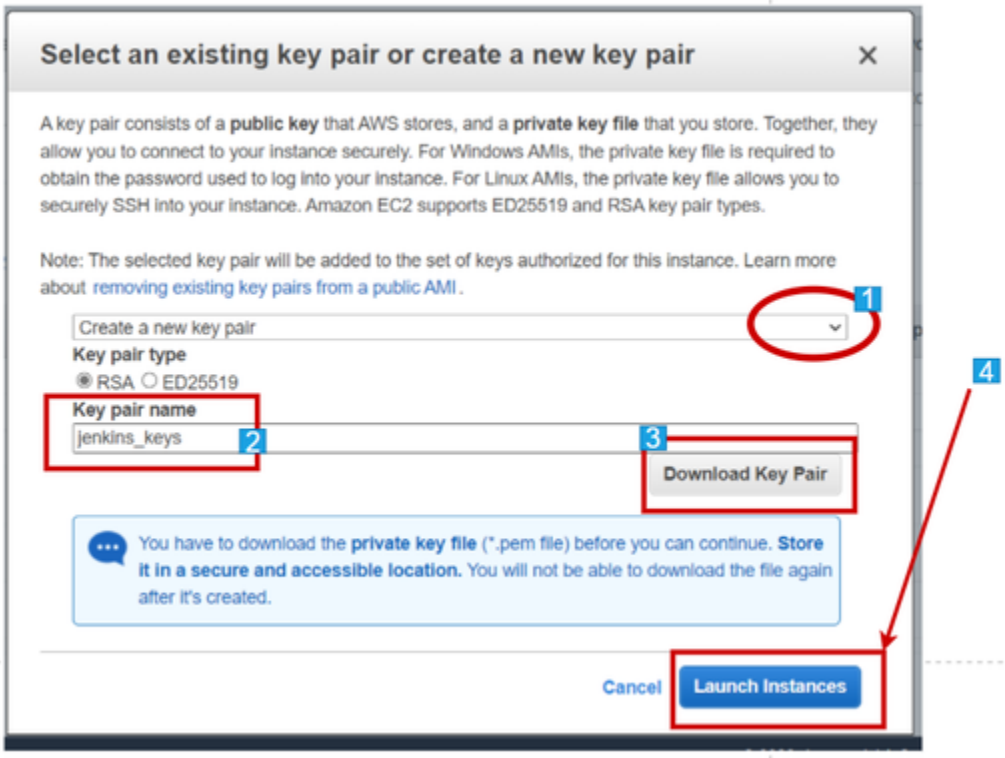
10- after clicking on **launch**, a window appears :

a- In this window we will select in 1 **create a new key pair**,

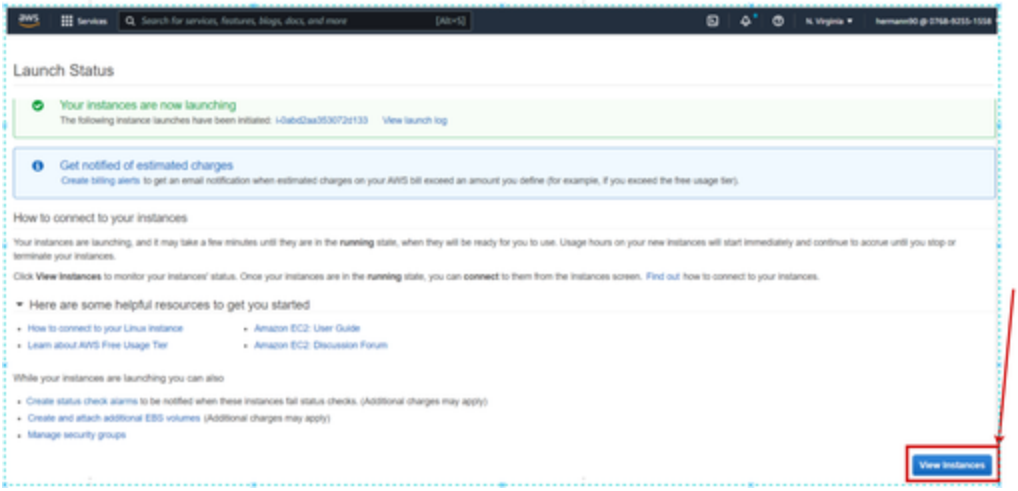
b- in 2, enter a name for this key (here, **jenkins_keys**).

c- In 3, click on **Download Key Pair** to register this key in our machine,

d- then in 4, click on the button **Launch Instances**.



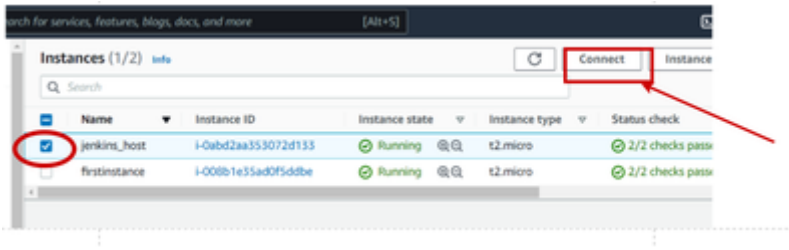
11- everything went well, you just have to click on **View instances**, to see our instances



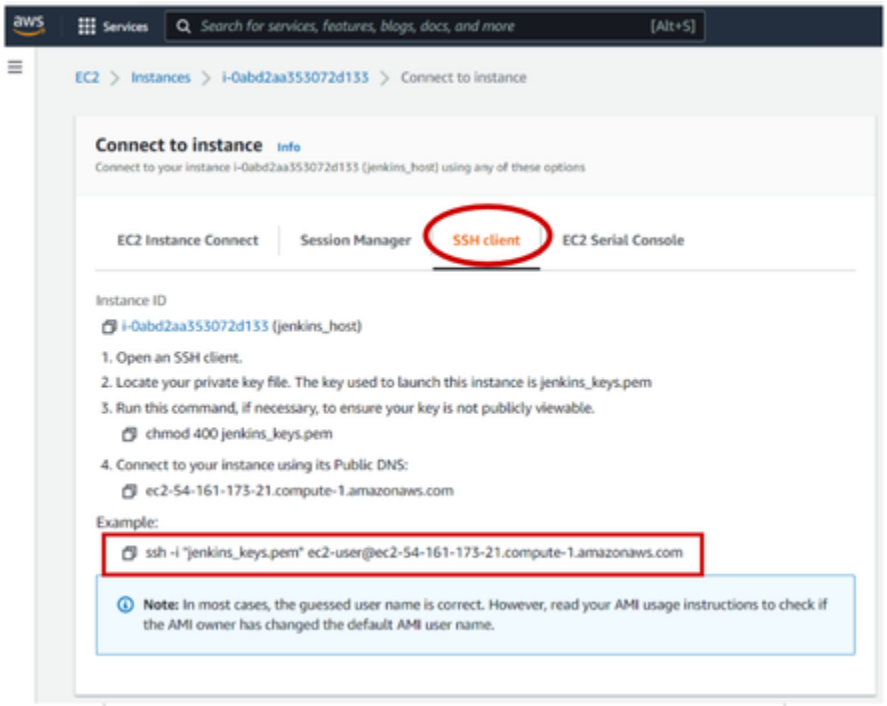
In this step, your EC2 instance are create 😎

12- ssh connections to the EC2 instance :

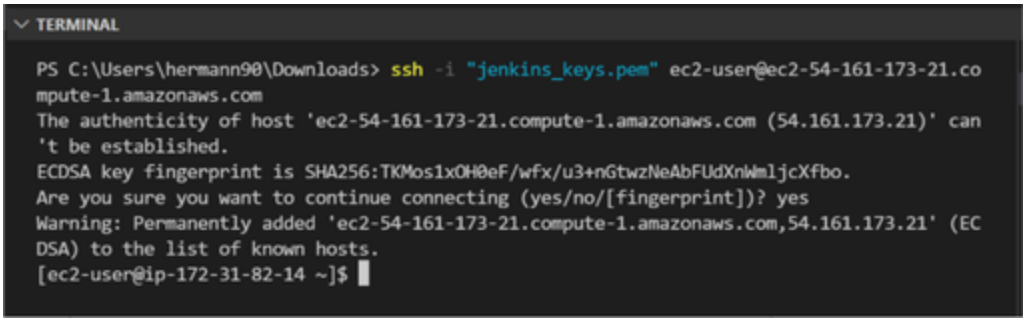
- for ssh connection to our server, the first step is to **select this instance**, then click on **connect**



- in the window that appears, make sure that **ssh client** is selected.
- then copy the line that is in the **red rectangle**.



- open the terminal, then make sure that you are in the folder where the key you downloaded is located. usually, it is in the **Download** folde r.
- in the download folder of your machine, open the terminal, then paste this command, then hit **enter**.



Congratulations on setting up an EC2 instance in AWS using the Red Hat Enterprise image 💣🔥