AMAZON EC2

Elastic Compute Cloud

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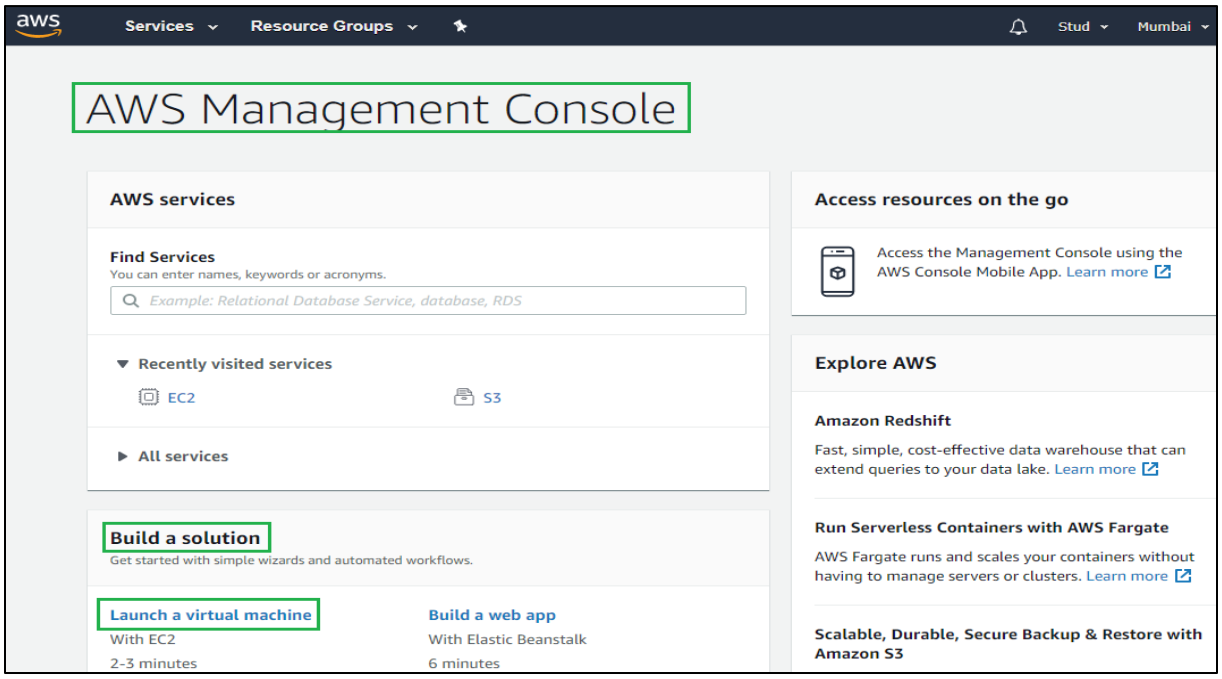
Amazon Web Services: - is a Public Cloud used worldwide most comprehensive and broadly adopted. AWS provides n number of services based on the Project/Customer needs.

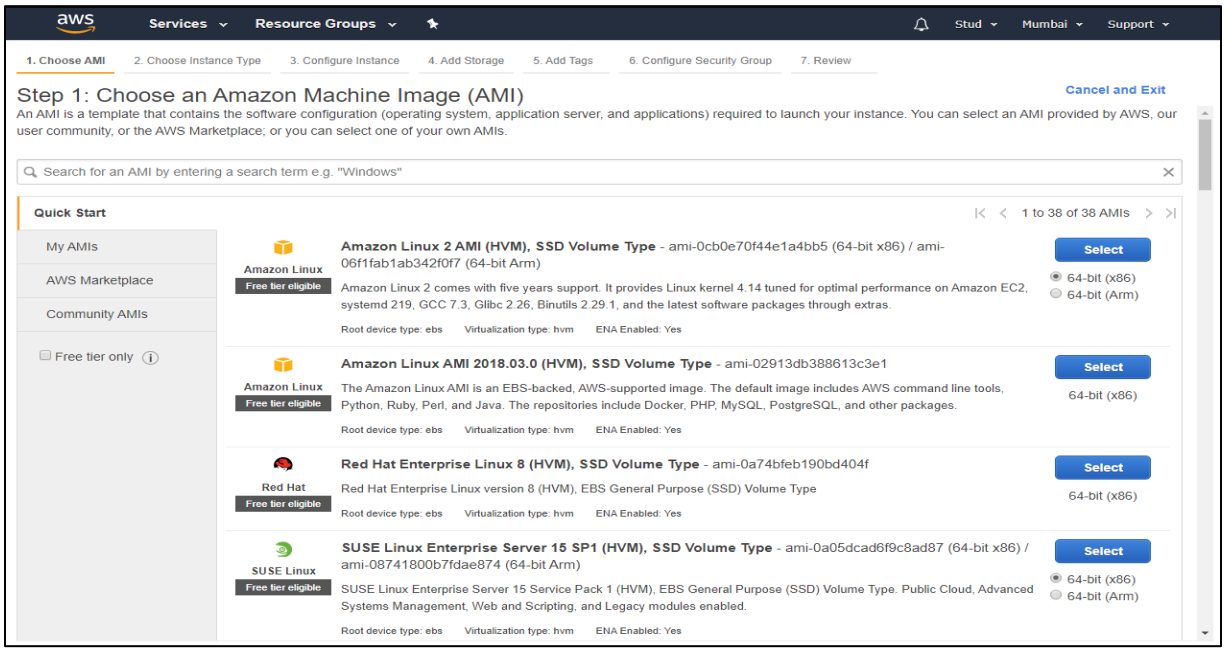
AWS EC2: - Amazon EC2 "**Elastic Compute Cloud**" provide scalable computing capacity. It is mainly used to create Instance/VM. The hardware resource are configured during the creation of the instance.

AWS EC2 Instance Creation: - Instance are noting but creation of VM and only Server are created. The Steps mention below describe how to create an instance steps by steps,

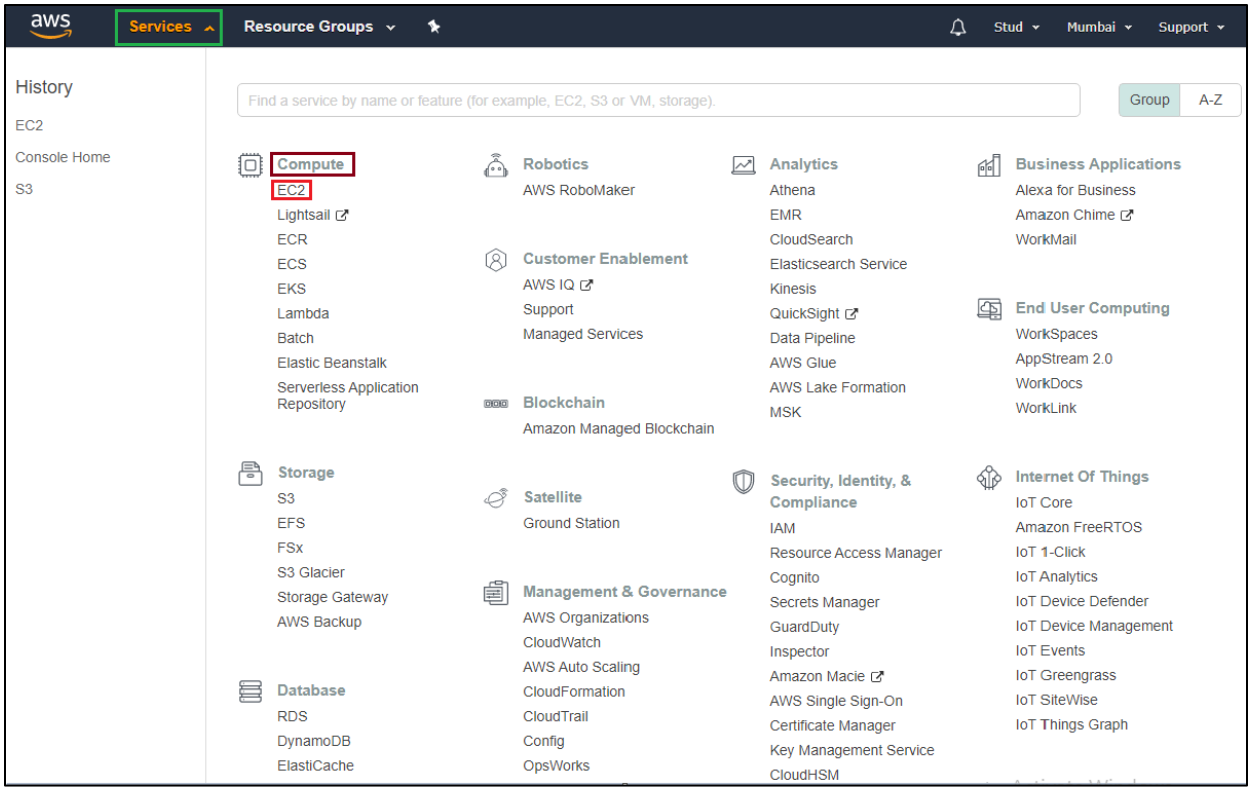
1. Login into your AWS Account and to create a AMI there are two ways to select to do it and the following steps are mention below
2. Single step to select and create a AMI
   a. In AWS Management Console search for the title named **Build a solution** and select **Launch a Virtual Machine**



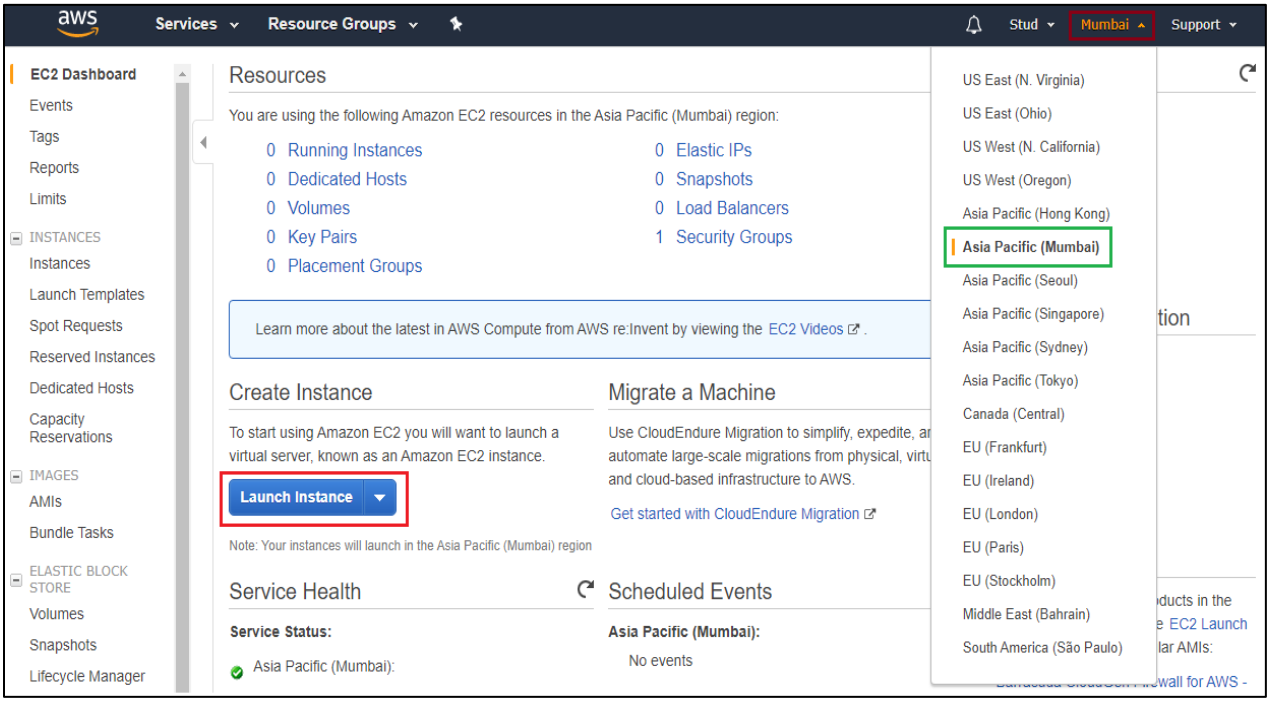
   b. It will directly open AMI Page where locate and list number of Server OS



3. It a three steps method and they are mention below,
   a. Search and select the **Services** option present above in the left side of the page and it will expand to open the list of service available. Search and select the **Compute Category** in it select **EC2** it will open a new page known as **EC2 Instance Dashboard** where you overview and track the previously created AMI's.

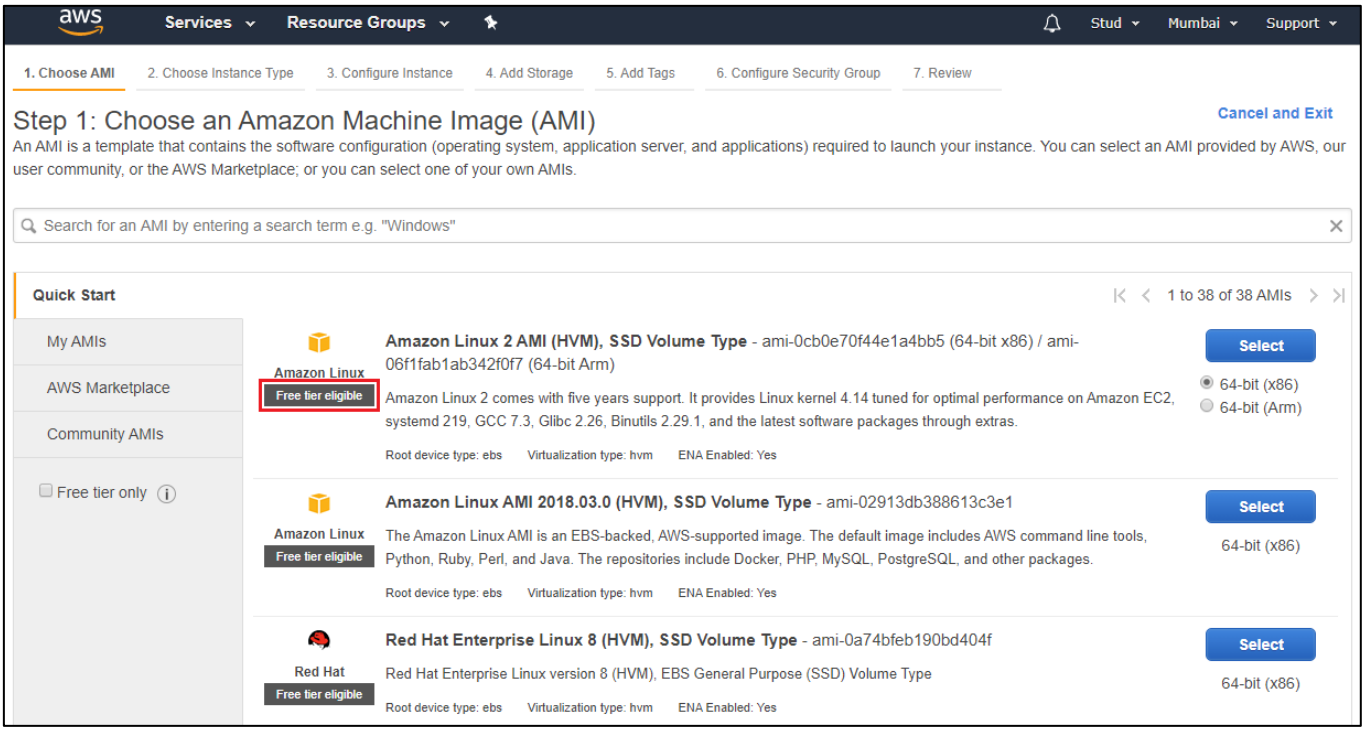


   b. Select the **Launch Instance** button it will open a new page and list of Server AMI OS in Amazon will be presented.

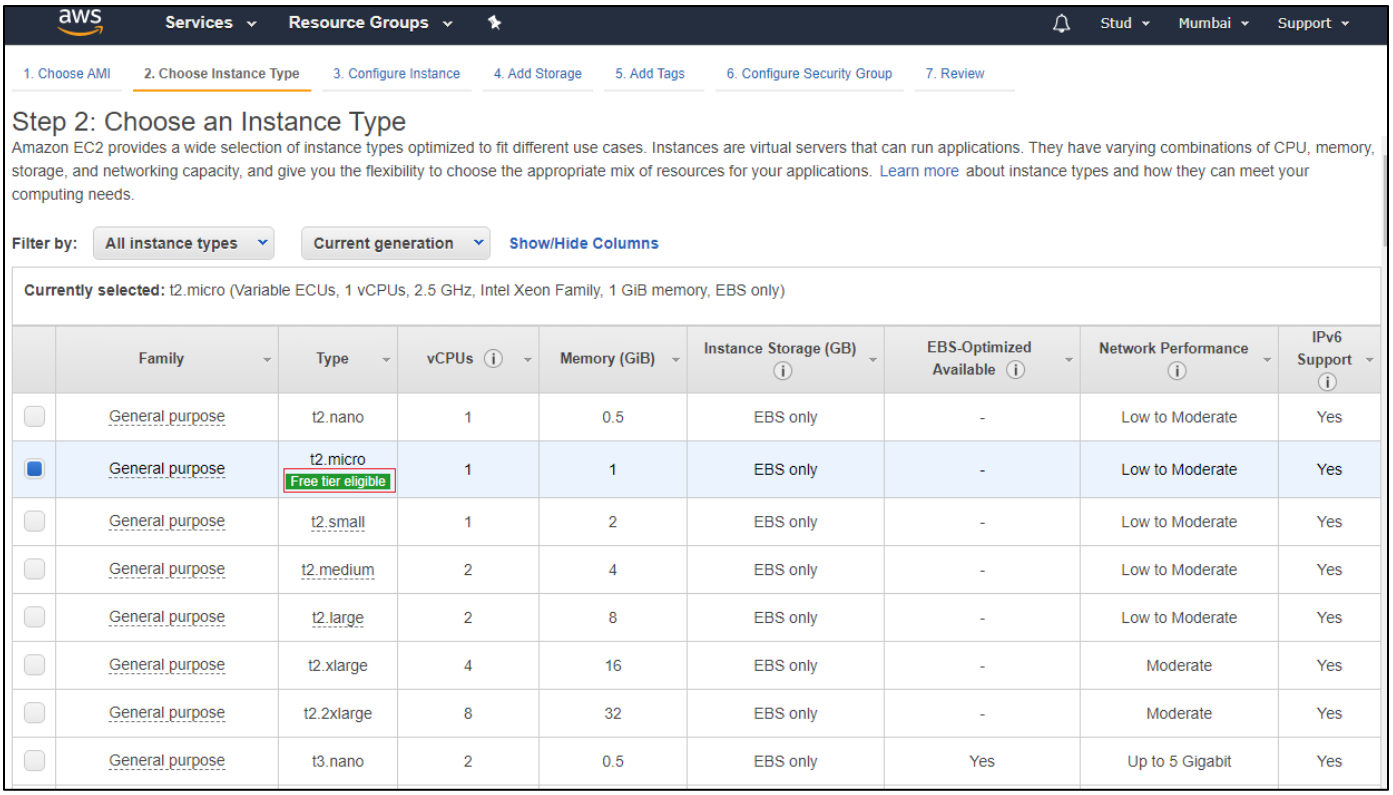


   c. On the top Right side Region **"Mumbai"** selection is available and any region can be selected based on your location and in these region some features change but other's remain the same.

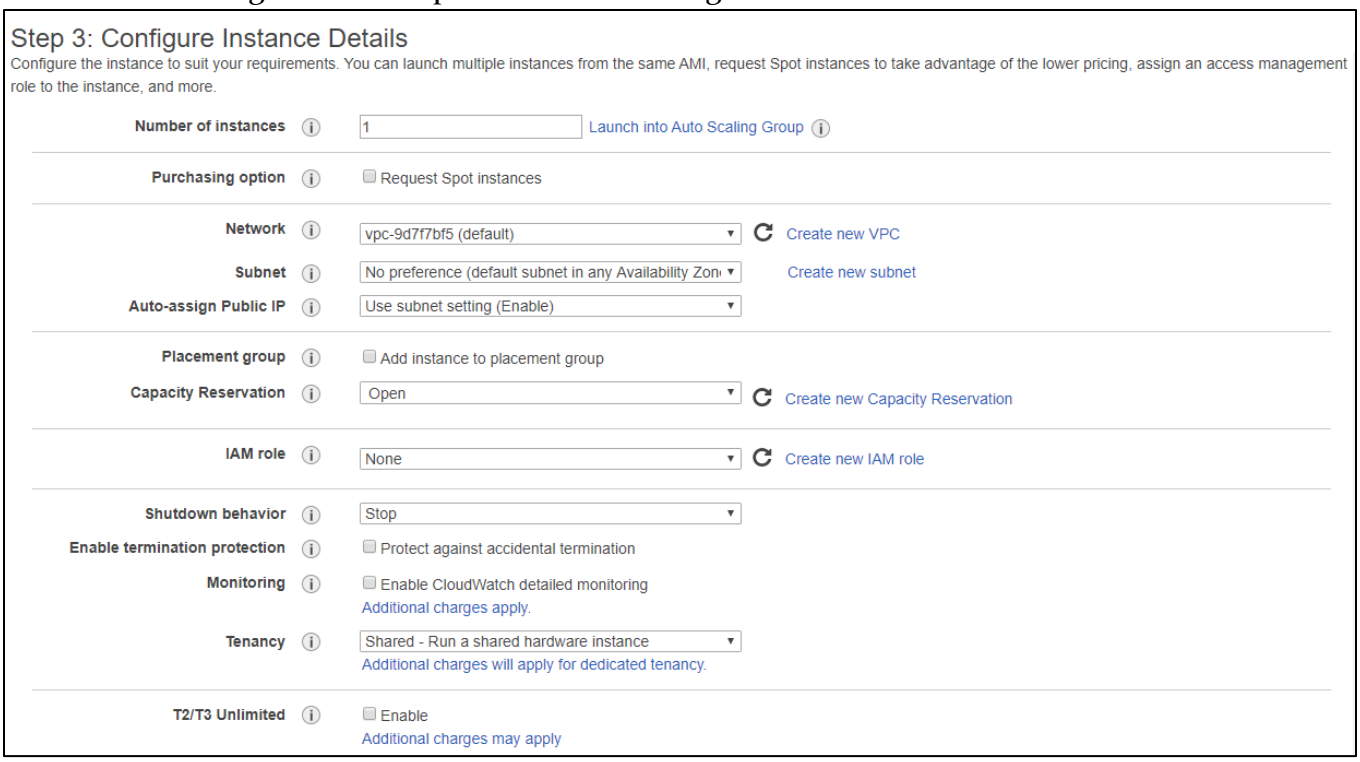
4. Click select to create a new Instance. If you want to use free Instance the select the once labeled **FREE TIER ELIGIBLE**



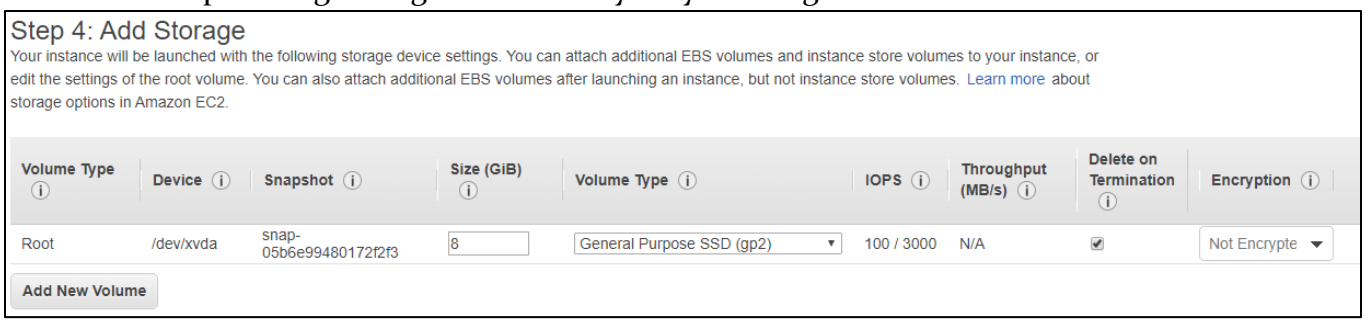
5. Select the processor based on your need if you required for free then select Free Tier Eligible



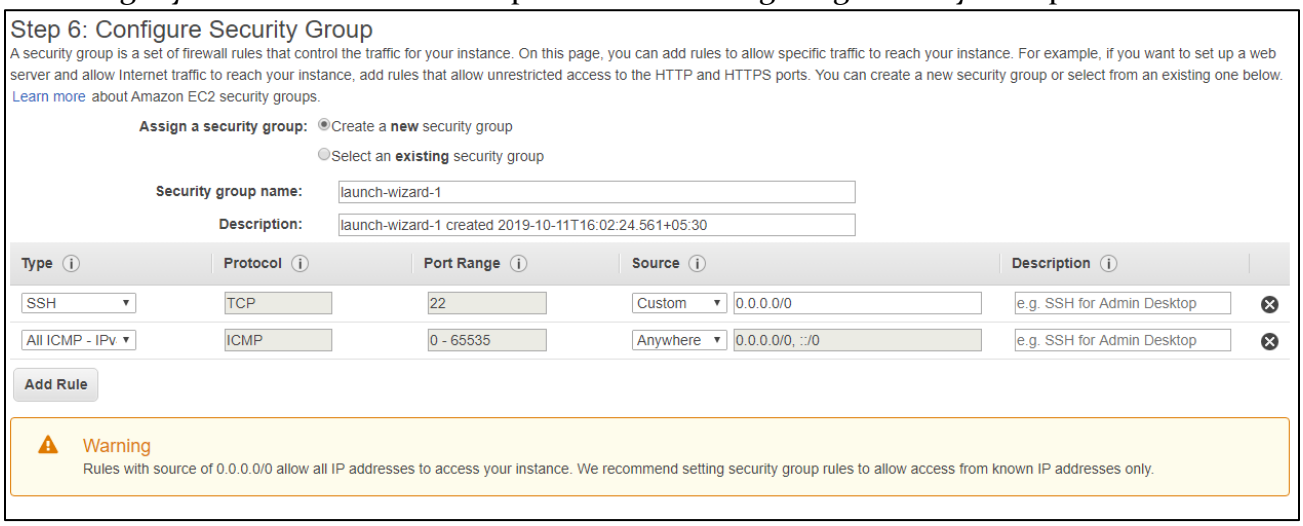
6. On the next Configuration setup it will ask to configure Instance details



7. In the next step Adding Storage and basically only 8GB is given



8. Add a tag if you want and in next step we will be Configuring Security Group



9. To make it accessible we need to add a new Rule by selecting Add Rule and select ALL ICMP- IPV4 later the Source type is anywhere. So it can be accessed by anywhere.

10. Once all the configuration has been completed we can reviews and Launch it. During the Launch it will ask for Key Pair and with it only we can access the Instance. A Key is a Password for the Instance and it needs to be created then select Launch Instance