Module 4: Ansible on Cloud

Demo Document - 2

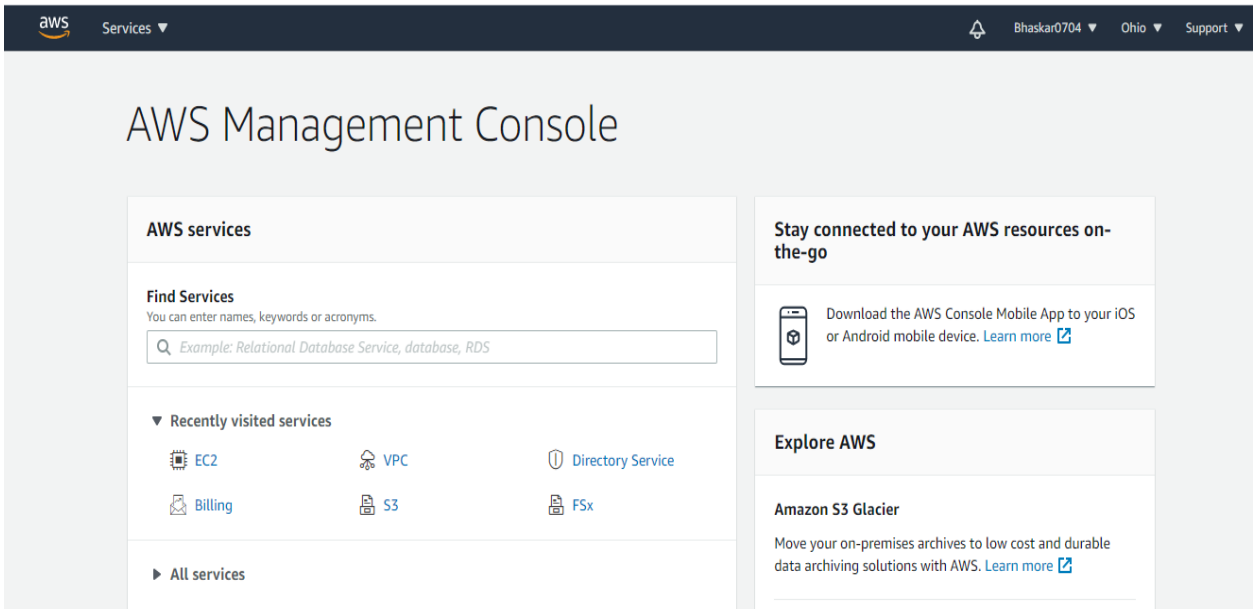
Demo: Configuration of Ansible on EC2 Amazon Linux EC2.

Problem Statement:

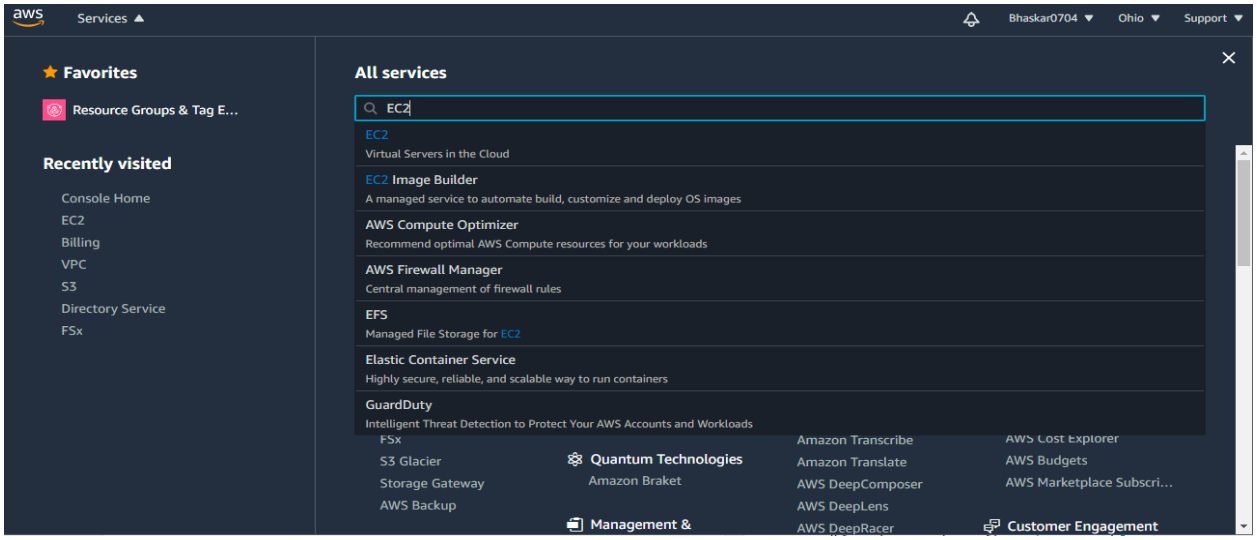
Part 1 – How to create and launch Amazon Linux EC2 Host.

Steps

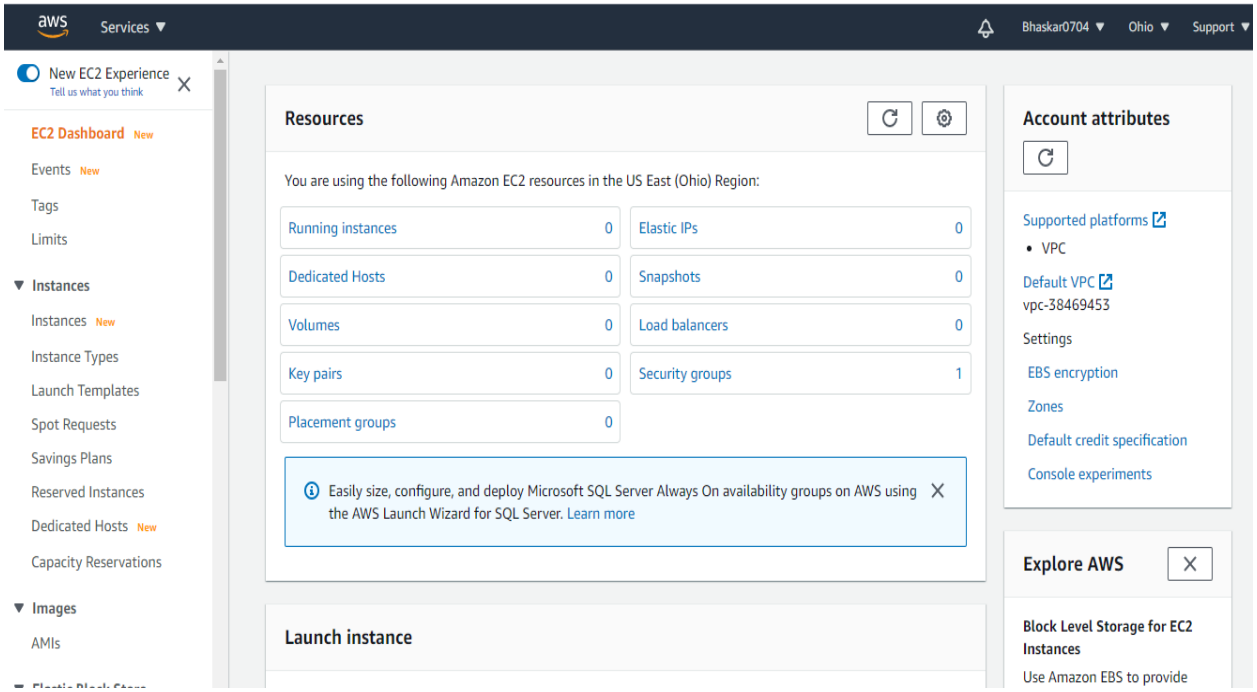
1. Login to **AWS** console using URL - http://aws.amazon.com/ with your USER ID and Password and select **'Ohio' region (us-east-2**) from the list.



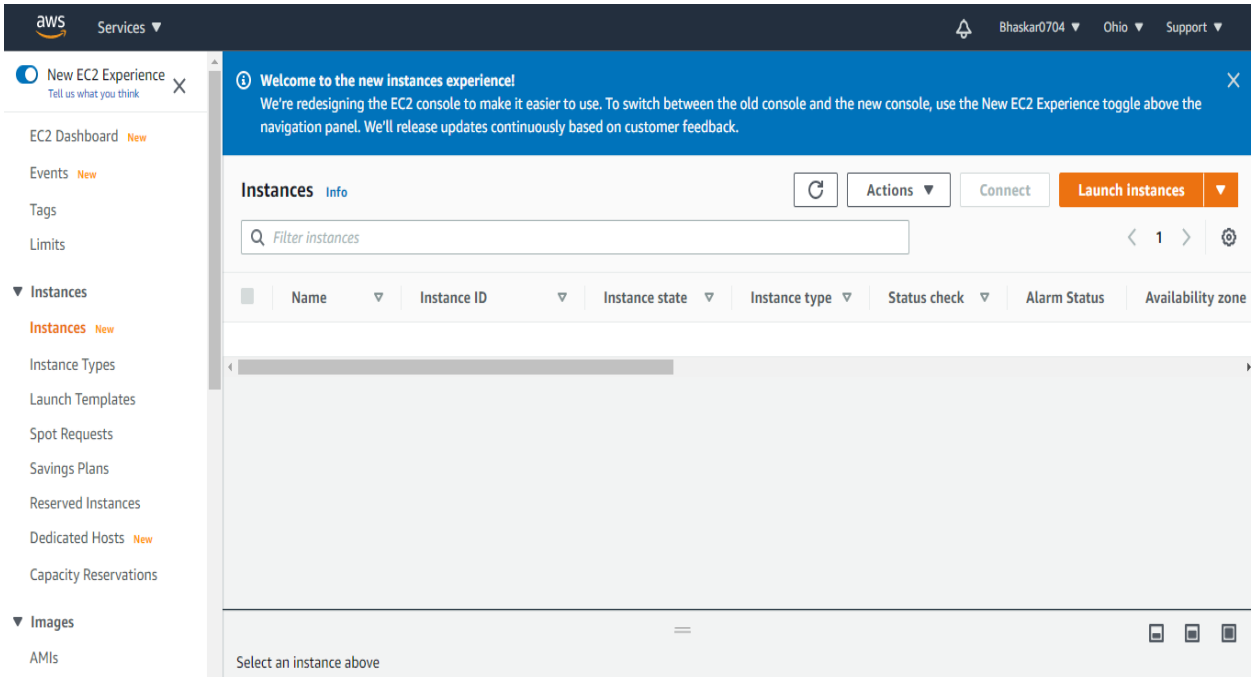
2. Search for "**EC2**" service in Services panel and select it.



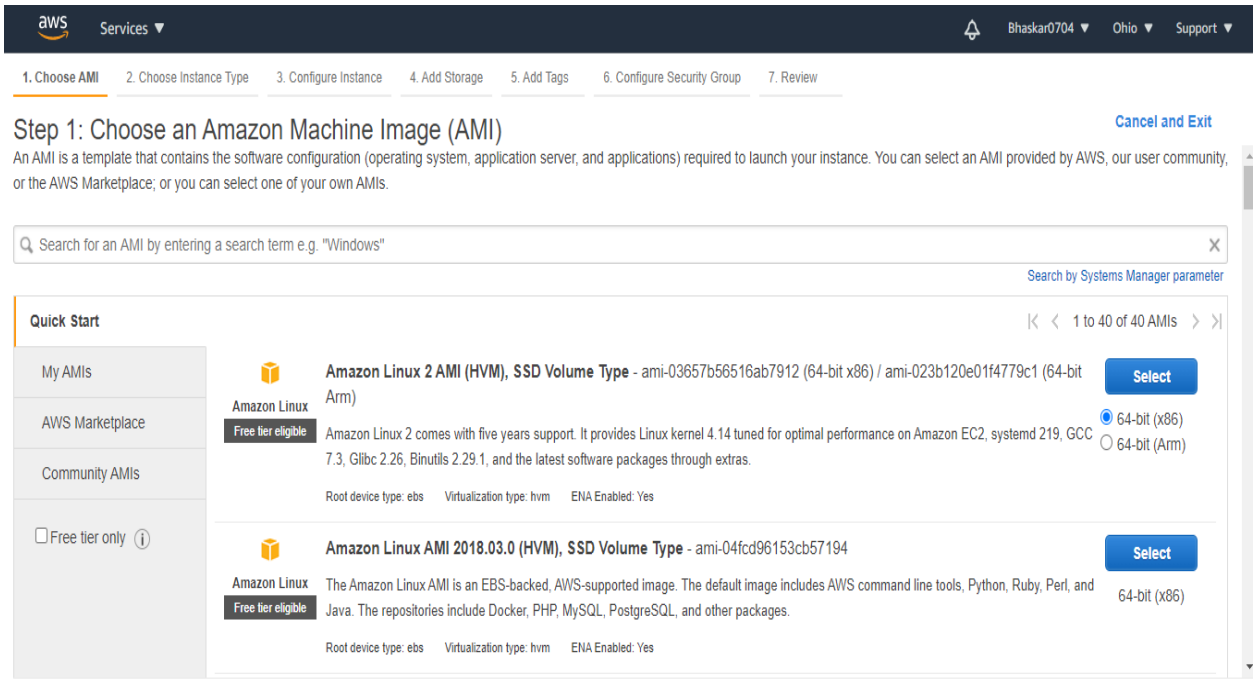
3. You will be navigated to EC2 Home page. Click on '**Instances'** from EC2 Dashboard item list.



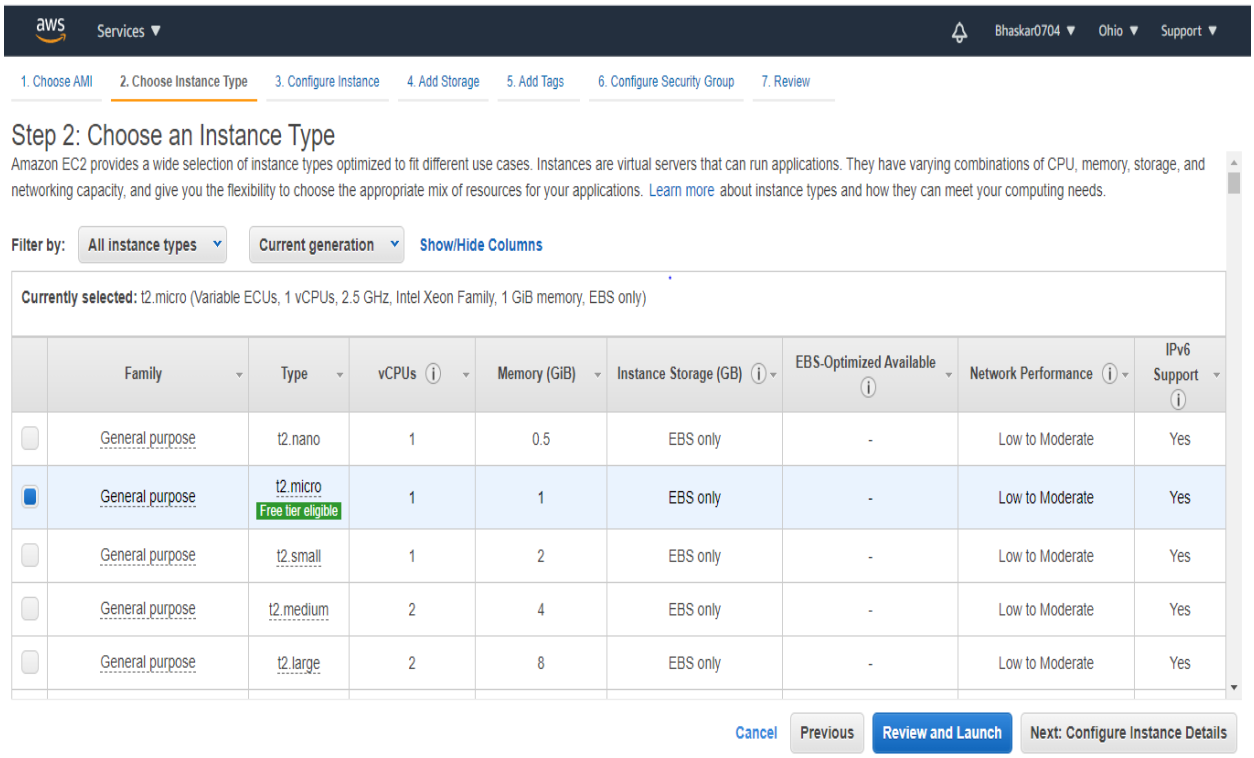
4. You are now on EC2 Instance home page, click on **'Launch Instance'** .



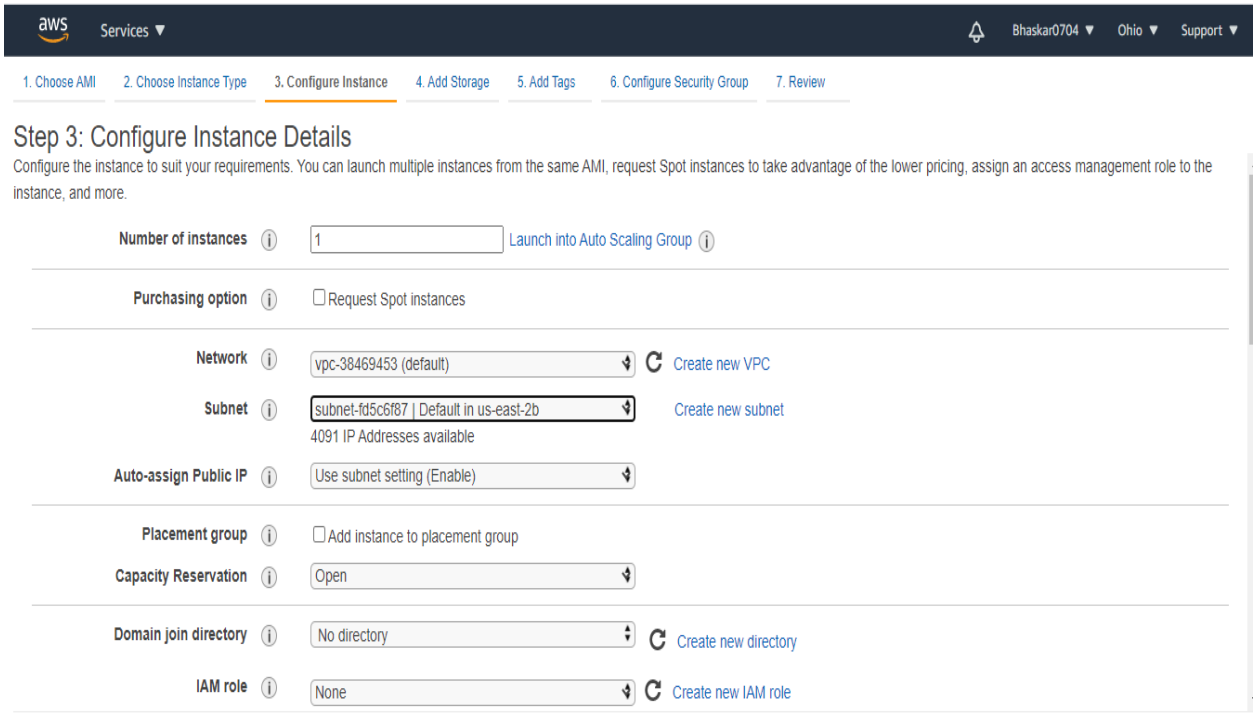
5. Select **'Amazon Linux 2 AMI (HVM)'** image from the AWS AMI options.



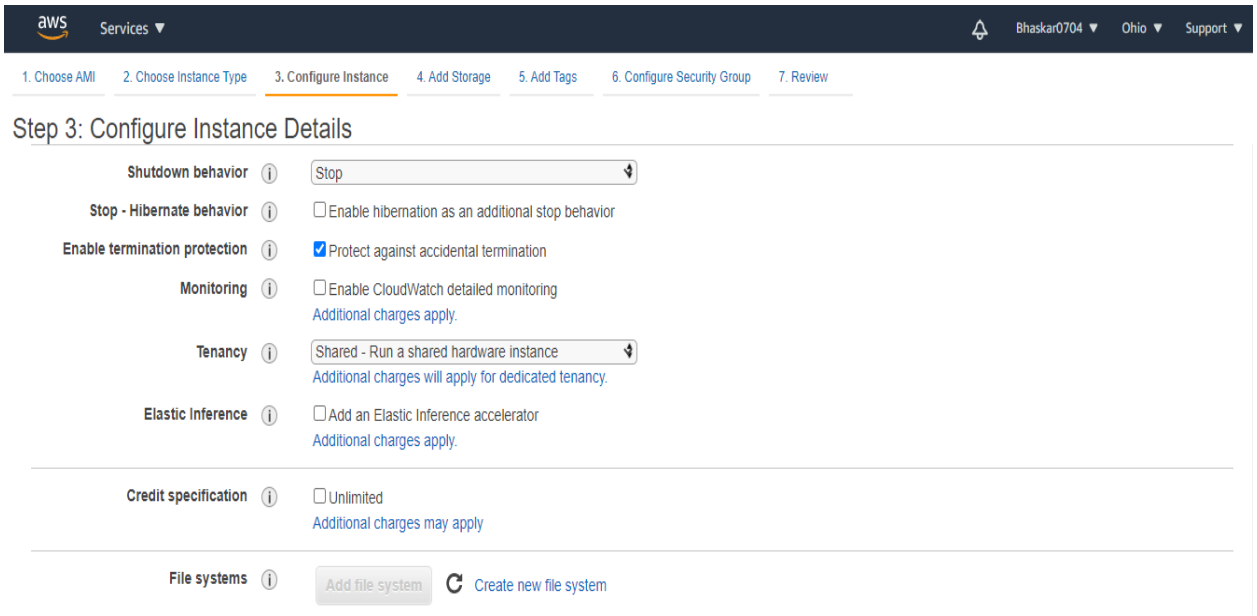
6. Select **'t2.micro'** instance type from the listed options and click **NEXT**.



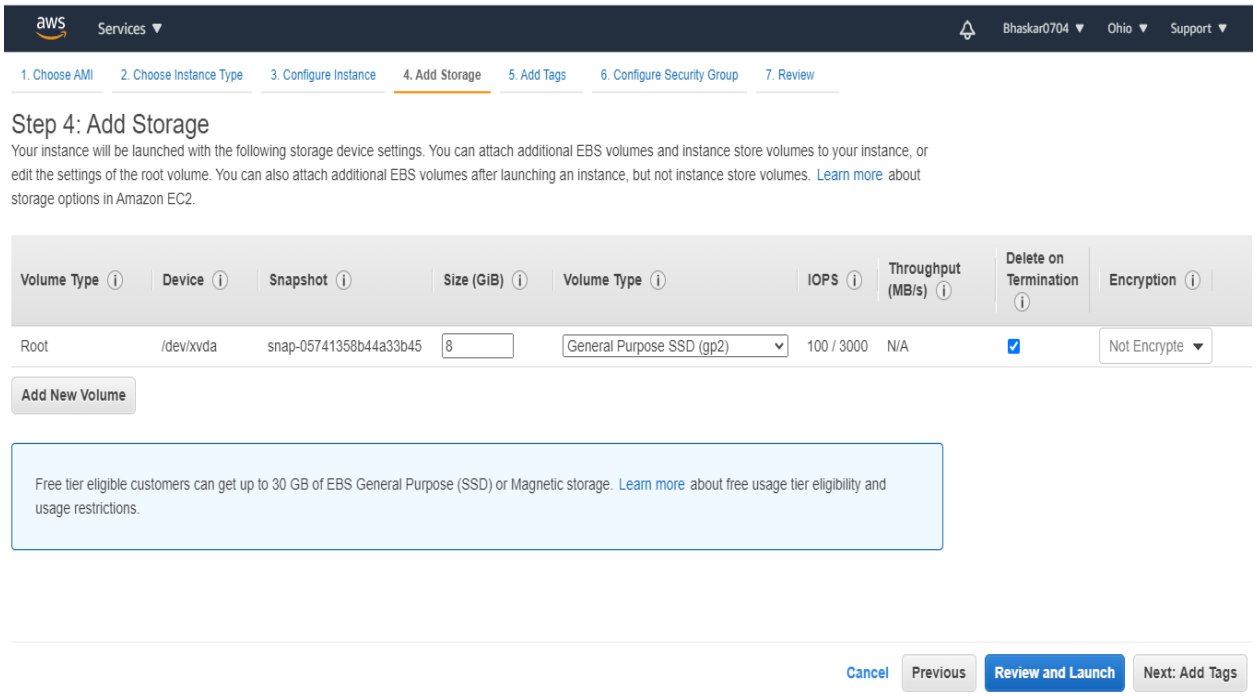
7. Fill the **Instance configuration details** as mentioned in screenshot.



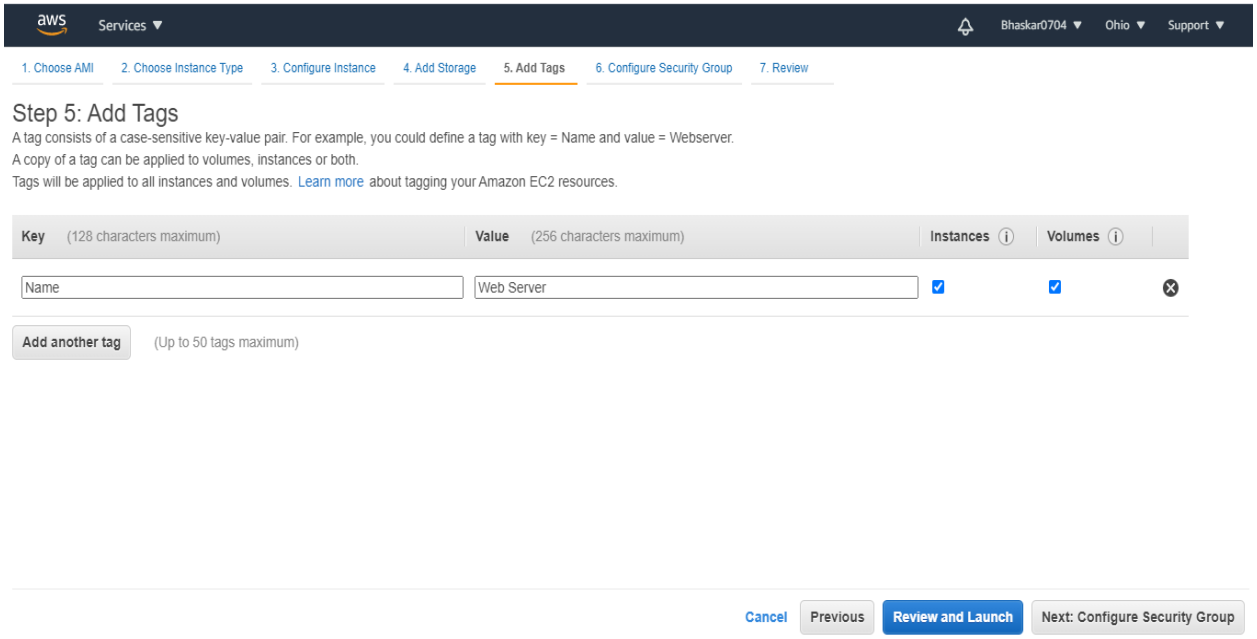
8. Complete the remaining Instance configuration details as mentioned in screenshot and click on **NEXT** button.



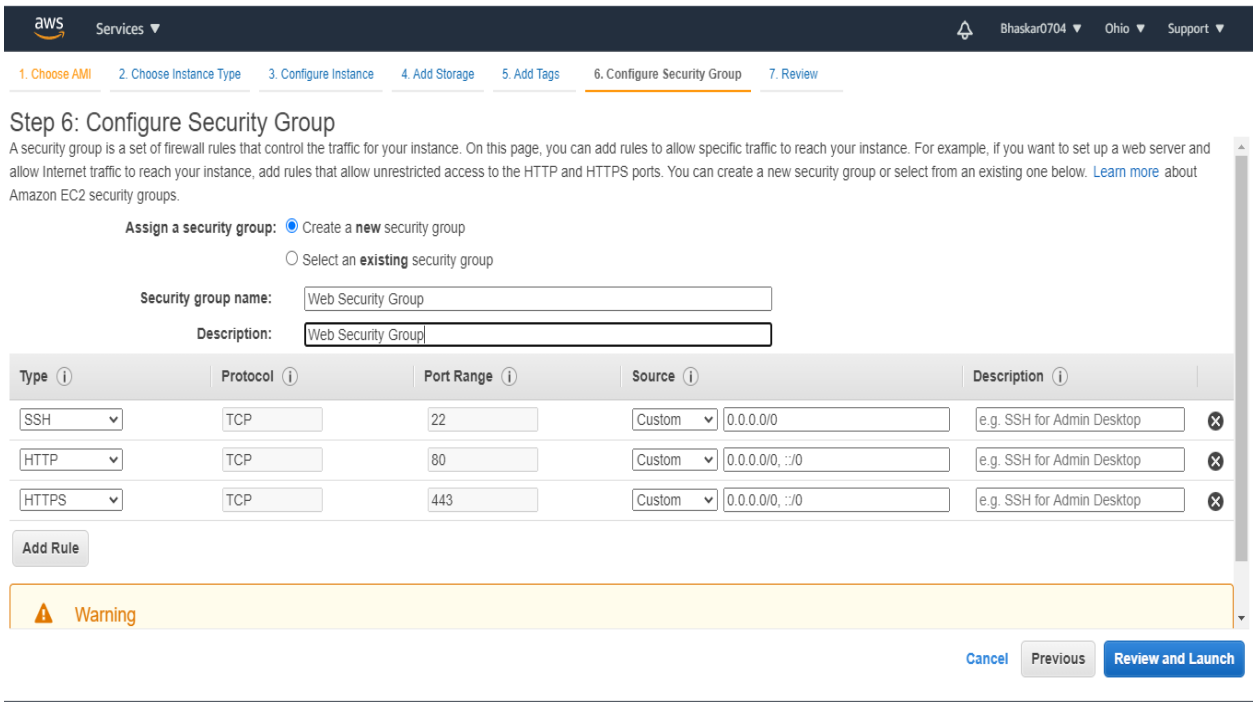
9. Now add '**Storage'** for your EC2 Instance and click '**NEXT'**.



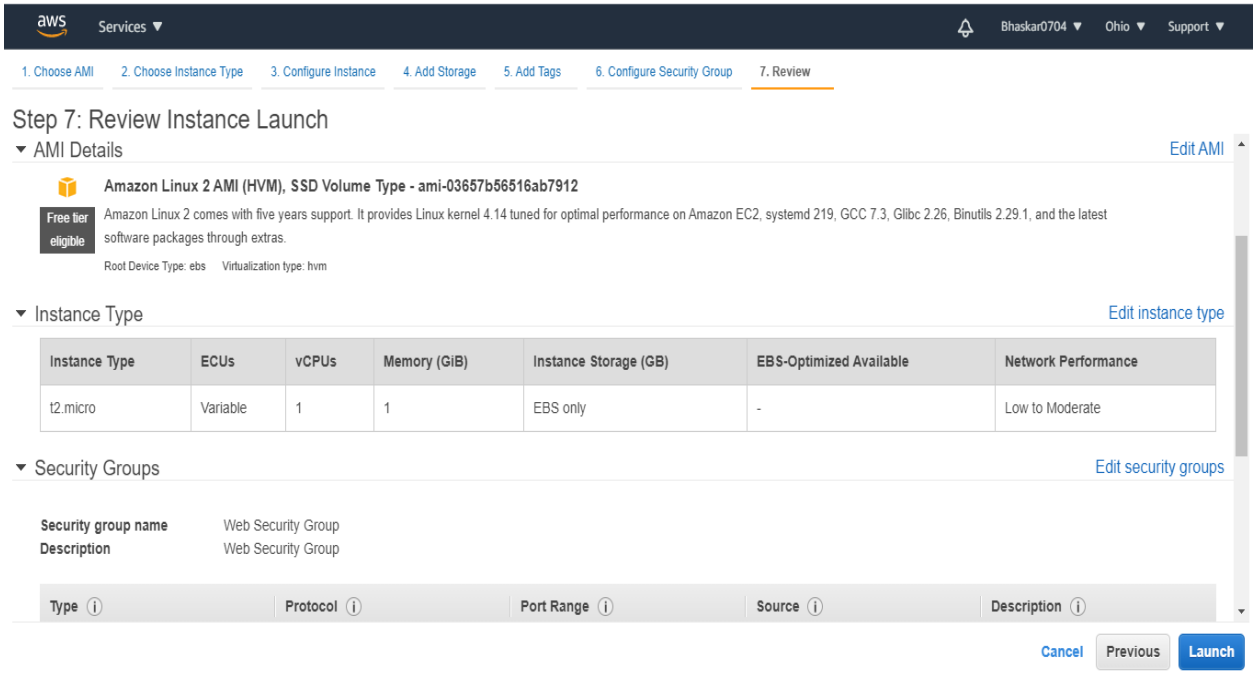
10. Add '**Tags'** to your EC2 Instance and click '**NEXT'**.



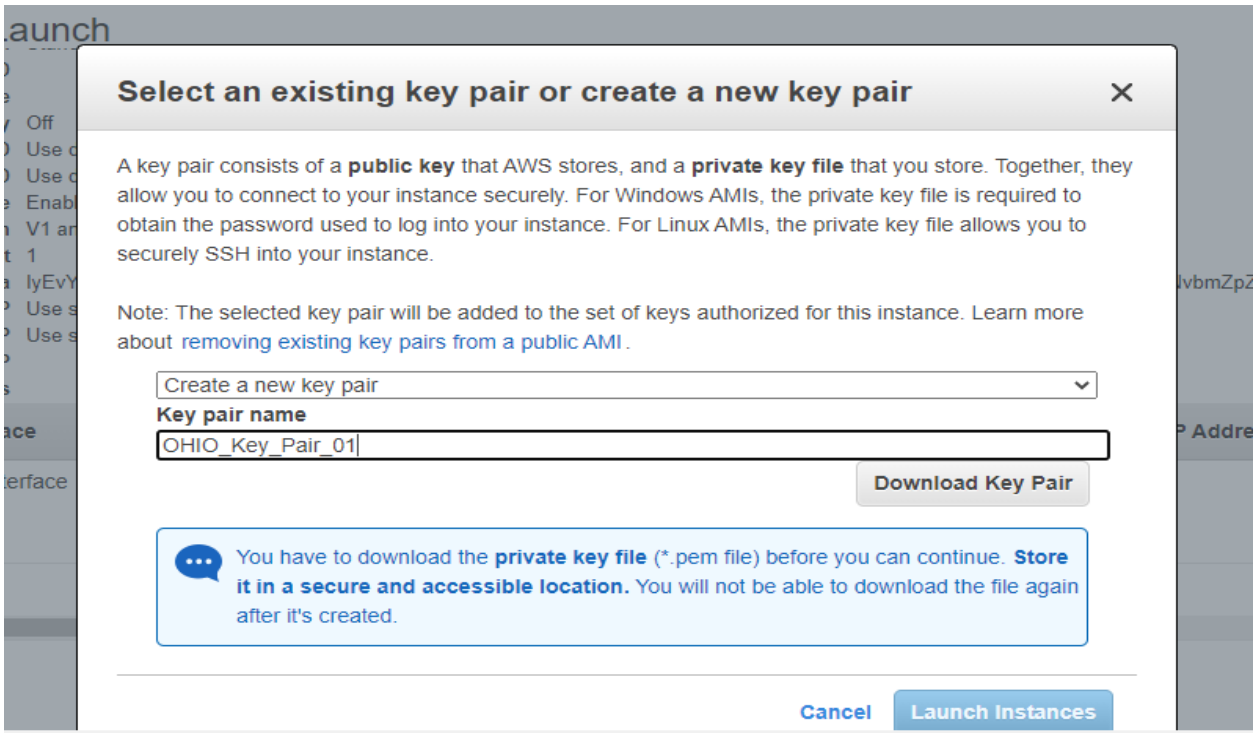
11. Create new '**Security group**' for you EC2 Instance. Provide security group name, description and Add **SSH, HTTP** and **HTTPS** rules and click on **'Review and Launch**' button.



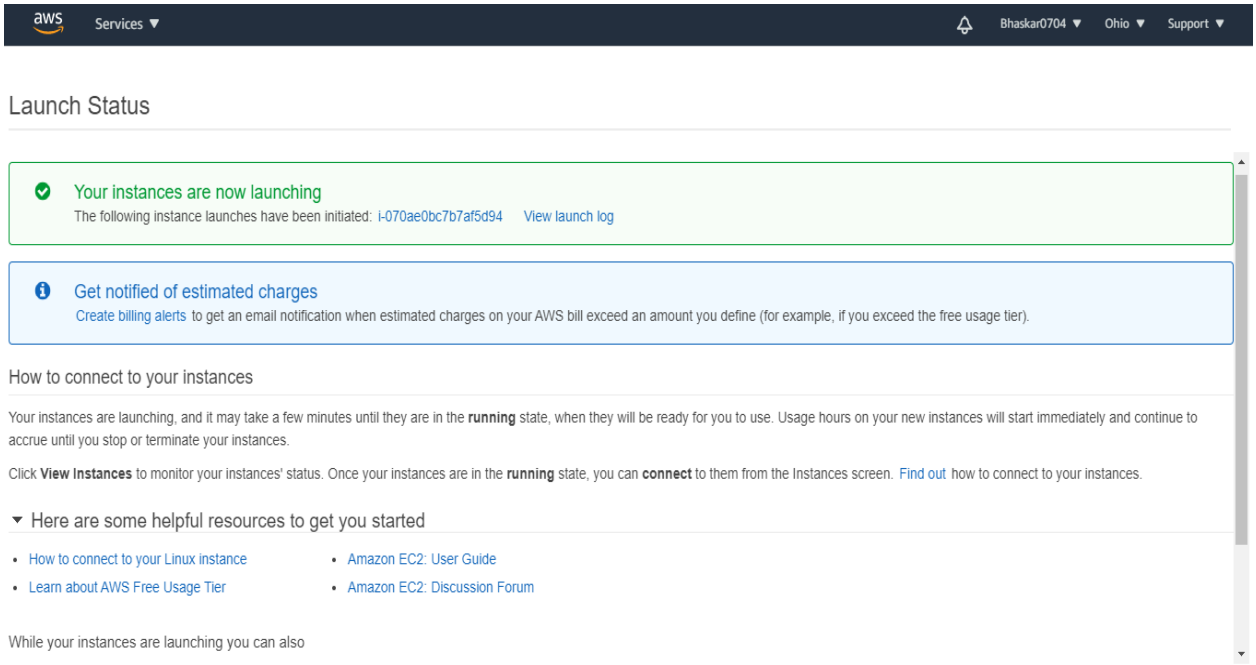
12. Review the Instance details and click on '**Launch**' Button.



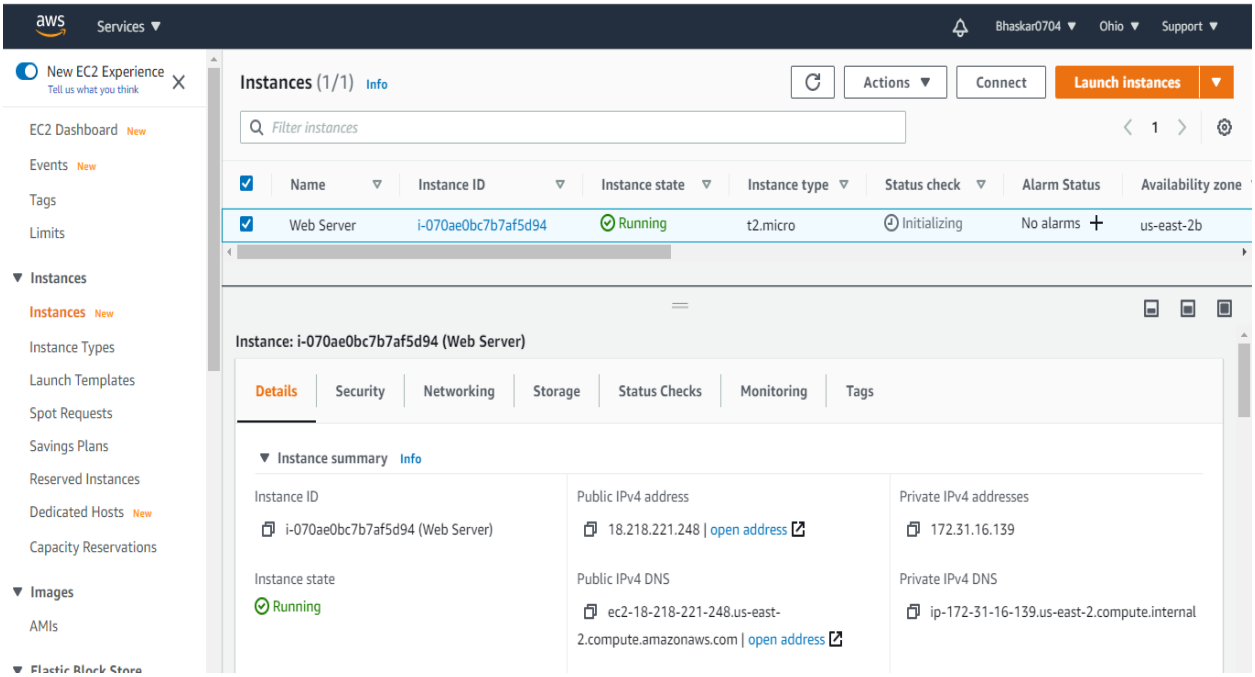
13. Create a new **Key pair** and provide Key pair name. Then **download** the Key Pair and click on '**Launch Instances**' Button.



14. Now you can see your launch status. Scroll down and click on **'View Instance'** Button.



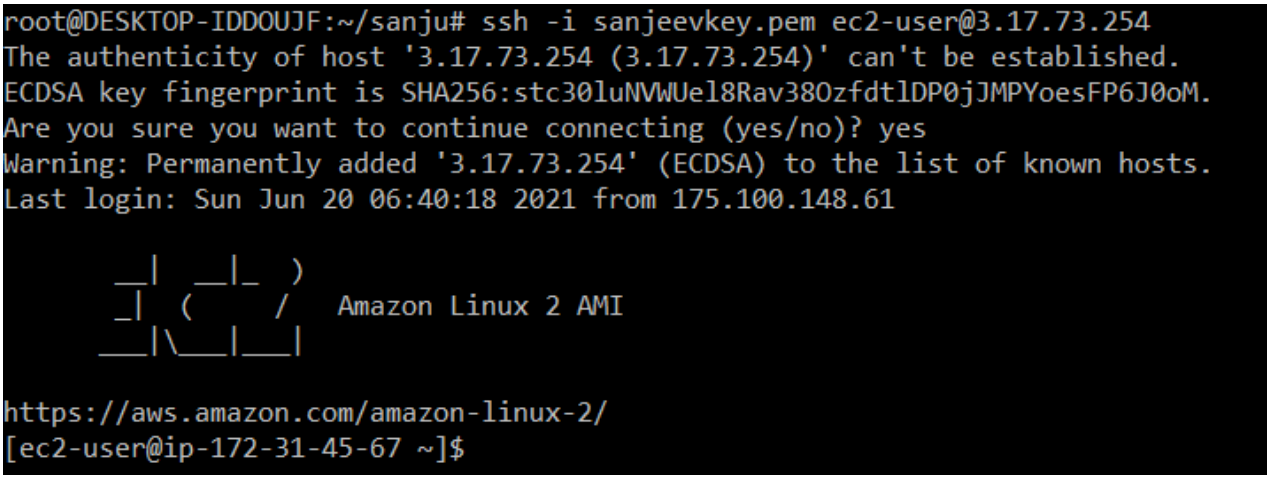
15. After few seconds you will see your **EC2 Linux machine** will be up and running. Scroll down to see Instance Details.



Part 2 - Install Ansible on Amazon Linux EC2 Host.

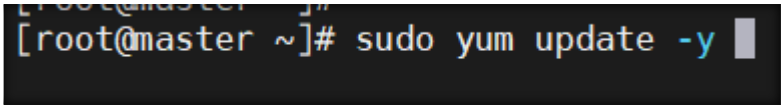
Steps

1. Login to Amazon Linux EC2 which you have recently created using you public and private key .



2. Amazon Linux EC2 repository is updated with latest updates as shown below.

yum update -y



3. EPEL repository is downloaded as shown below. It is used to install ansible in further steps.

wget https://dl.fedoraproject.org/pub/epel/epel-release-latest-7.noarch.rpm

4. EPEL repos downloaded in the above step are installed as shown below.

yum install epel-release-latest-7.noarch.rpm

```
root@DESKTOP-IDDOUJF:~# yum install epel-release-latest-7.noarch.rpm
```

5. Install the below dependency packages using the below command.

yum install python python-devel python-pip openssl ansible -y

```
[root@master ~]# sudo yum install python python-devel python-pip openssl ansible -y
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
231 packages excluded due to repository priority protections
Package python-2.7.18-1.amzn2.0.3.x86_64 already installed and latest version
Package python-devel-2.7.18-1.amzn2.0.3.x86_64 already installed and latest version
Package python2-pip-20.2.2-1.amzn2.0.2.noarch already installed and latest version
Package 1:openssl-1.0.2k-19.amzn2.0.6.x86_64 already installed and latest version
```

6. Using amazon-Linux extras ansible is installed as shown below.

amazon-linux-extras install ansible2

```
[root@master ~]# amazon-linux-extras install ansible2
Installing ansible
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
Cleaning repos: amzn2-core amzn2extra-ansible2 amzn2extra-docker epel
24 metadata files removed
8 sqlite files removed
0 metadata files removed
Loaded plugins: extras_suggestions, langpacks, priorities, update-motd
amzn2-core
amzn2extra-ansible2
amzn2extra-docker
epel/x86_64/metalink
epel
(1/10): amzn2-core/2/x86_64/group_gz
```

7. Ansible version installed is verified using the below command.

ansible --version

```
[root@master ~]# ansible --version
ansible 2.9.21
  config file = /etc/ansible/ansible.cfg
  configured module search path = [u'/root/.ansible/plugin
  ansible python module location = /usr/lib/python2.7/site
  executable location = /usr/bin/ansible
  python version = 2.7.18 (default, Feb 18 2021, 06:07:59)
[root@master ~]#
```