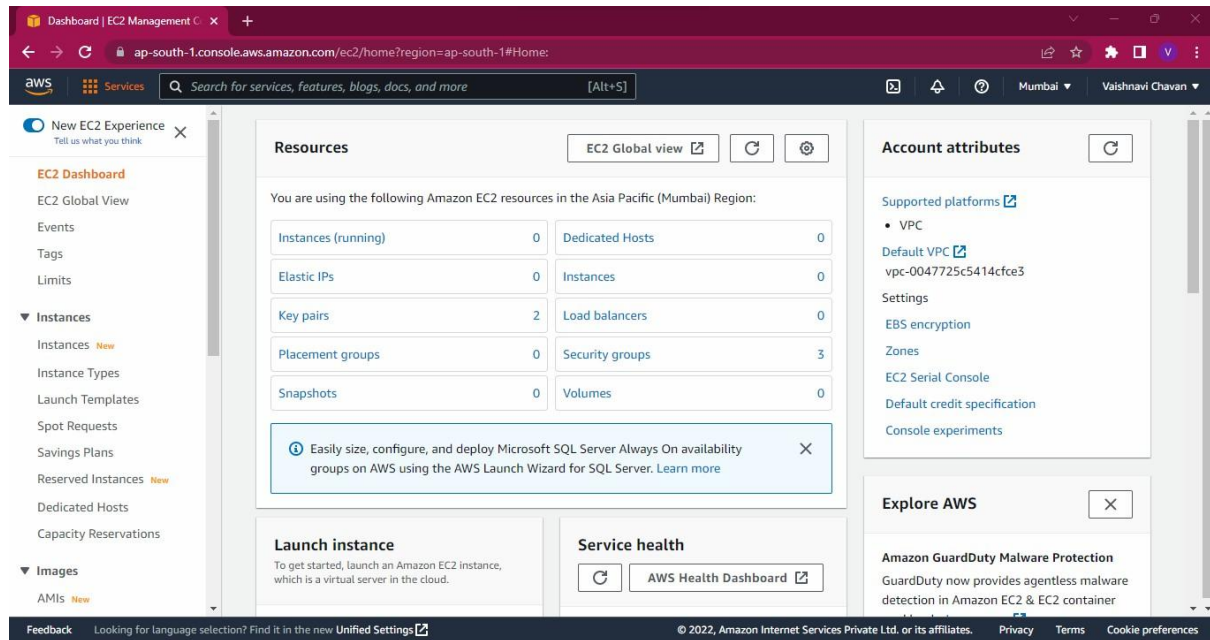
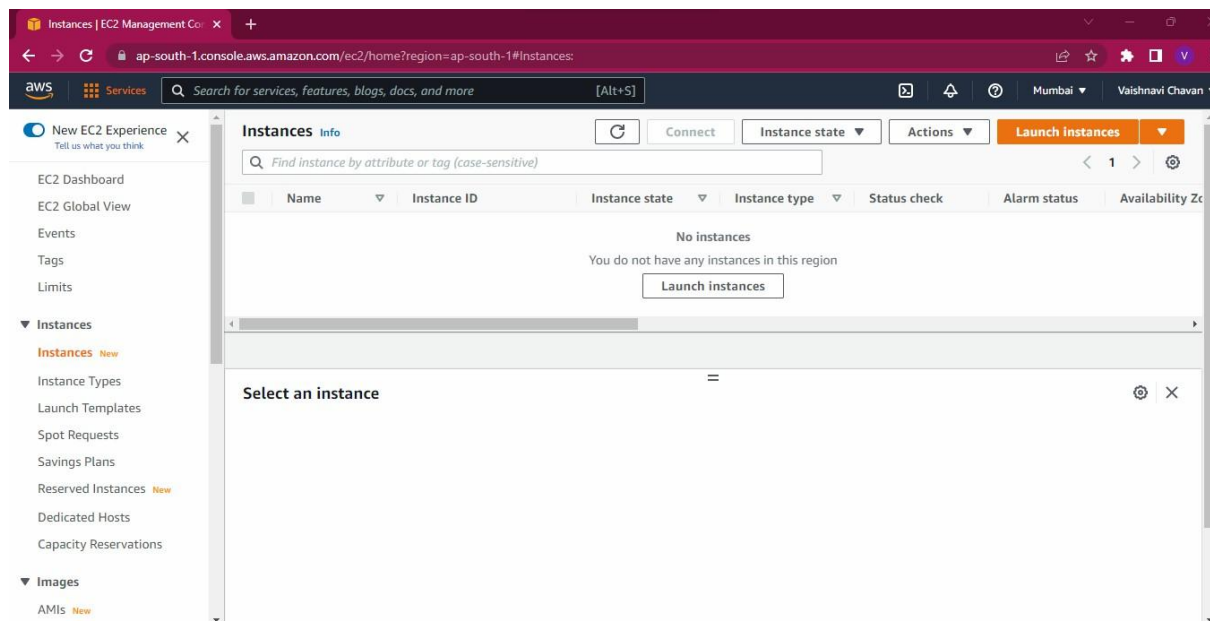


Aim: Create Amazon machine instance on EC2 using Amazon Linux image.

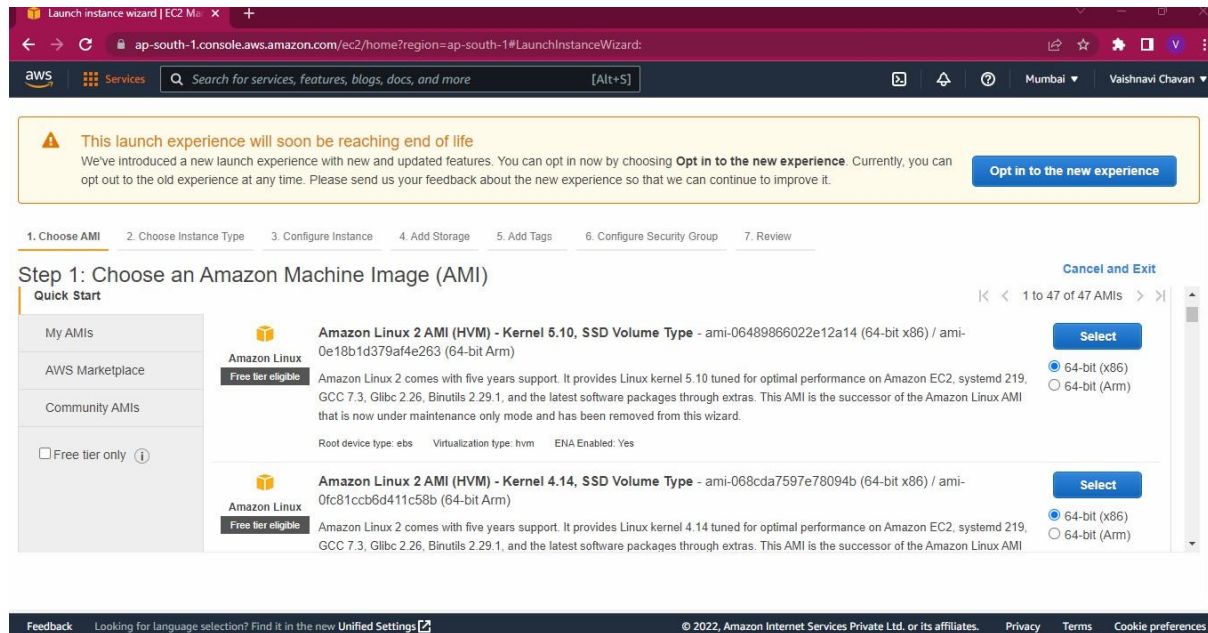
Step 1: To create instance on EC2, click on **EC2** then **Launch Instance**.



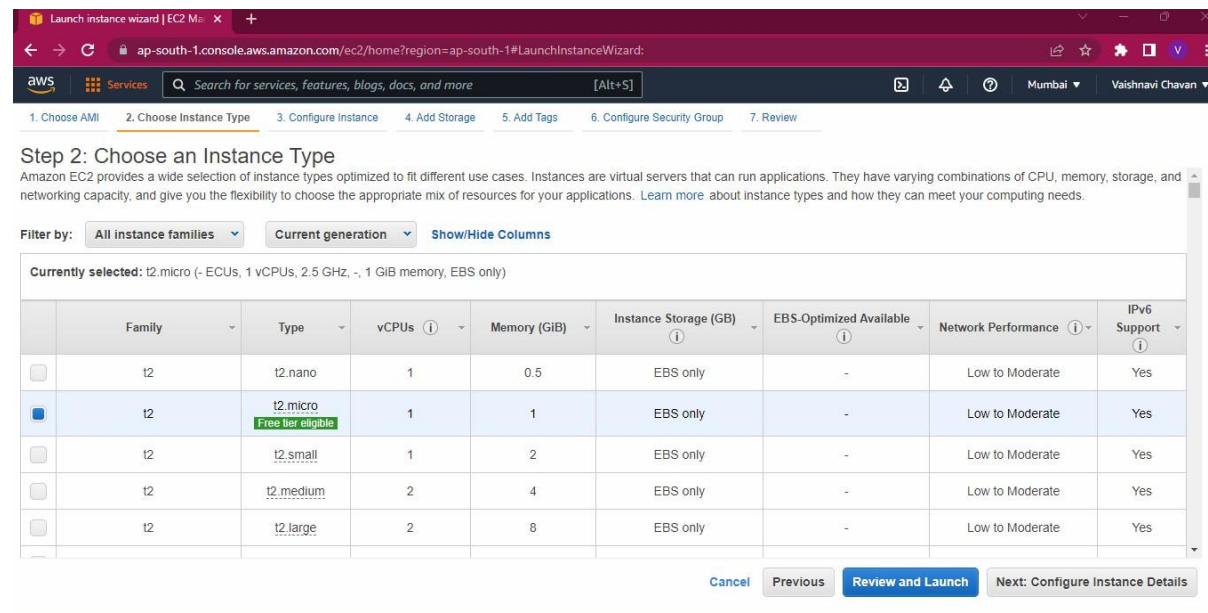
Step 2= In step 2 click on launch instances .



Step 3 = We have to opt in to the new experience and also choose an Amazon Machine Image (AMI). Choose free tier eligible Amazon Linux. Then click on select.



Step 4 = In step 4 Choose an Instance Type . Choose t2 micro free tier eligible then click on configure instance details.



Step 5= In step 5 we have to configure instance details. We have to select no of instances 2 then network ,subset ,hostname type, DNS hostname keep as it is there will be no any changes .Then click on Add Storage.

Launch instance wizard | EC2 M... x +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstanceWizard:

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 3: Configure Instance Details

Configure the instance to suit your requirements. You can launch multiple instances from the same AMI, request Spot instances to take advantage of the lower pricing, assign an access management role to the instance, and more.

Number of instances ⓘ 2 Launch into Auto Scaling Group ⓘ

You may want to consider launching these instances into an Auto Scaling Group to help you maintain application availability and for easy scaling in the future. [Learn how Auto Scaling can help your application stay healthy and cost effective.](#)

Purchasing option ⓘ ☐ Request Spot instances

Network ⓘ vpc-0047725c5414cfce3 (default) Create new VPC

Subnet ⓘ No preference (default subnet in any Availability Zone) Create new subnet

Auto-assign Public IP ⓘ Use subnet setting (Enable)

Hostname type ⓘ Use subnet setting (IP name)

DNS Hostname ⓘ ☒ Enable IP name IPv4 (A record) DNS requests

Cancel Previous Review and Launch Next: Add Storage

Feedback Looking for language selection? Find it in the new Unified Settings ⓘ

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Step 6= In step 6 our instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance or edit the settings of the root volume .You can also attach additional EBS volumes after launching an Instance. There will be no any changes in this tab. Click on Add tags.

Launch instance wizard | EC2 M... x +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstanceWizard:

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 4: Add Storage

Your instance will be launched with the following storage device settings. You can attach additional EBS volumes and instance store volumes to your instance, or edit the settings of the root volume. You can also attach additional EBS volumes after launching an instance, but not instance store volumes. [Learn more](#) about storage options in Amazon EC2.

Volume Type ⓘ	Device ⓘ	Snapshot ⓘ	Size (GiB) ⓘ	Volume Type ⓘ	IOPS ⓘ	Throughput (MB/s) ⓘ	Delete on Termination ⓘ	Encryption ⓘ
Root	/dev/xvda	snap-0d45135e7634ebd6e	8	General Purpose SSD (gp2)	100 / 3000	N/A	<input checked="" type="checkbox"/>	Not Encrypt

Add New Volume

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage. [Learn more](#) about free usage tier eligibility and usage restrictions.

Shared file systems ⓘ

Cancel Previous Review and Launch Next: Add Tags

Feedback Looking for language selection? Find it in the new Unified Settings ⓘ

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Step 7= Click On Name of tag. Which are in middle. Then below window will open. A tag consist of a case sensitive key value pair.

Launch instance wizard | EC2 M... x +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstanceWizard:

aws Services Search for services, features, blogs, docs, and more [Alt+S]

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances (i)	Volumes (i)	Network Interfaces (i)
Name		<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>

[Add another tag](#) (Up to 50 tags maximum)

[Cancel](#) [Previous](#) [Review and Launch](#) [Next: Configure Security Group](#)

Step 8= In this step Add value e.g. linuxvaish2022. Then click on configure security group.

Launch instance wizard | EC2 M... x +

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstanceWizard:

aws Services Search for services, features, blogs, docs, and more [Alt+S]

1. Choose AMI 2. Choose Instance Type 3. Configure Instance 4. Add Storage 5. Add Tags 6. Configure Security Group 7. Review

Step 5: Add Tags

A tag consists of a case-sensitive key-value pair. For example, you could define a tag with key = Name and value = Webserver.
A copy of a tag can be applied to volumes, instances or both.
Tags will be applied to all instances and volumes. [Learn more](#) about tagging your Amazon EC2 resources.

Key (128 characters maximum)	Value (256 characters maximum)	Instances (i)
Name	linuxvaish2022	<input checked="" type="checkbox"/>

[Add another tag](#) (Up to 50 tags maximum)

Step 9 = A security group is a firewall rules that control the traffic for your instance. On this page you can add rules to allow specific traffic to reach your instance. For Linux you have select type SSH and for windows we have select type RDP. Keep protocol , port range , source as it is click on review and launch.

Step 6: Configure Security Group

A security group is a set of firewall rules that control the traffic for your instance. On this page, you can add rules to allow specific traffic to reach your instance. For example, if you want to set up a web server and allow Internet traffic to reach your instance, add rules that allow unrestricted access to the HTTP and HTTPS ports. You can create a new security group or select from an existing one below. [Learn more](#) about Amazon EC2 security groups.

Assign a security group: ☒ Create a new security group ☐ Select an existing security group

Security group name:

Description:

Type	Protocol	Port Range	Source	Description
SSH	TCP	22	Custom 0.0.0.0/0	e.g. SSH for Admin Desktop

[Add Rule](#)

Warning

Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

[Cancel](#) [Previous](#) [Review and Launch](#)

Step 10 = In this step just click on launch to launch the instance.

Step 7: Review Instance Launch

Please review your instance launch details. You can go back to edit changes for each section. Click **Launch** to assign a key pair to your instance and complete the launch process.

Improve your instances' security. Your security group, launch-wizard-3, is open to the world.

Your instances may be accessible from any IP address. We recommend that you update your security group rules to allow access from known IP addresses only. You can also open additional ports in your security group to facilitate access to the application or service you're running, e.g., HTTP (80) for web servers. [Edit security groups](#)

▼ **AMI Details** [Edit AMI](#)

Amazon Linux 2 AMI (HVM) - Kernel 5.10, SSD Volume Type - ami-0648986022e12a14

Free tier eligible Amazon Linux 2 comes with five years support. It provides Linux kernel 5.10 tuned for optimal performance on Amazon EC2, systemd 219, GCC 7.3, Glibc 2.26, Binutils 2.29.1, and the latest software packages through extras. This AMI is the successor of the Amazon Linux AMI that is n...

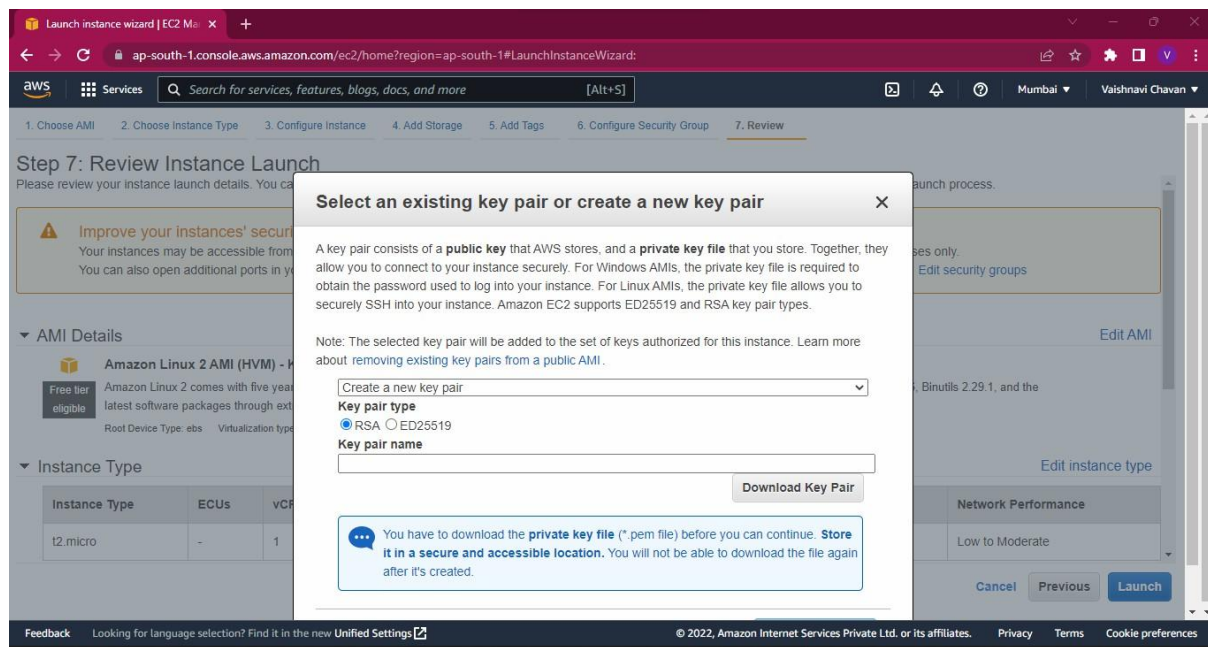
Root Device Type: ebs Virtualization type: hvm

▼ **Instance Type** [Edit instance type](#)

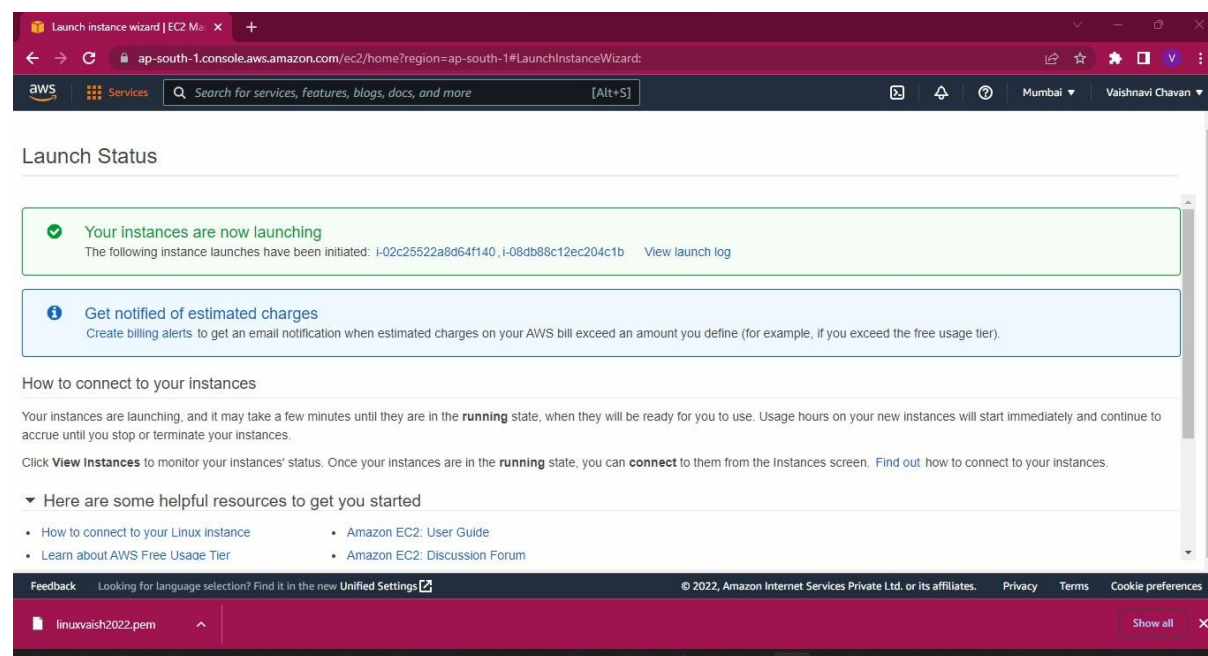
Instance Type	ECUs	vCPUs	Memory (GiB)	Instance Storage (GB)	EBS-Optimized Available	Network Performance
t2.micro	-	1	1	EBS only	-	Low to Moderate

[Cancel](#) [Previous](#) [Launch](#)

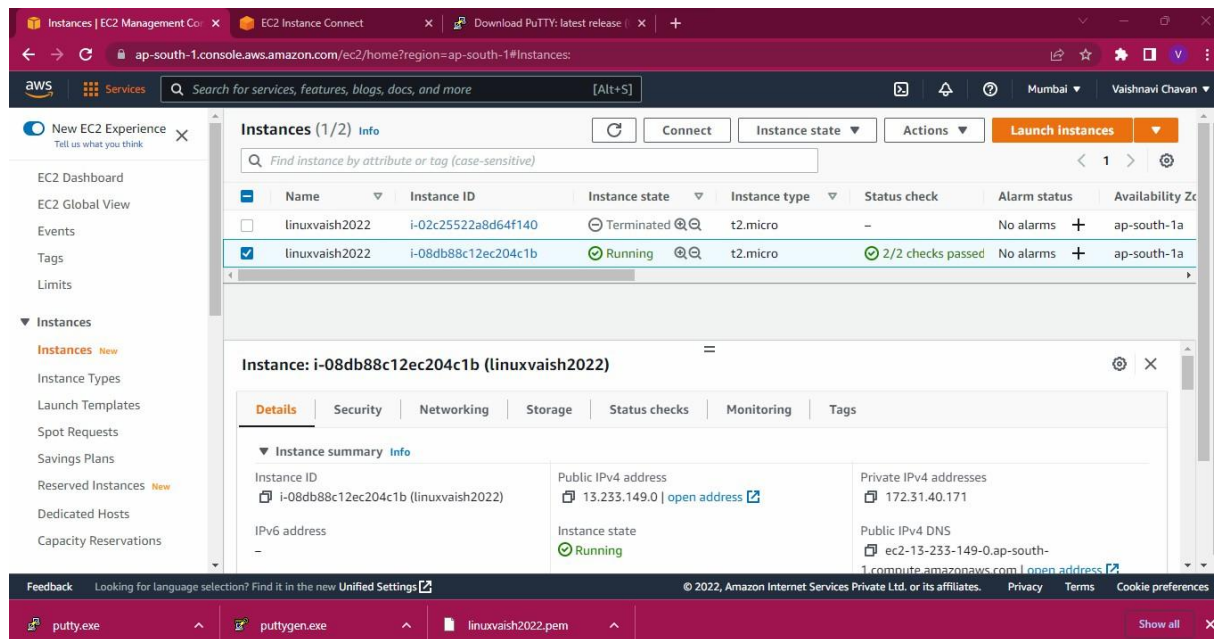
Step 11= In this step select an existing key pair or create a new key pair. Then type key pair name. Download key pair for e.g. linuxvaish2022.pem file we can download here. Then click on launch.



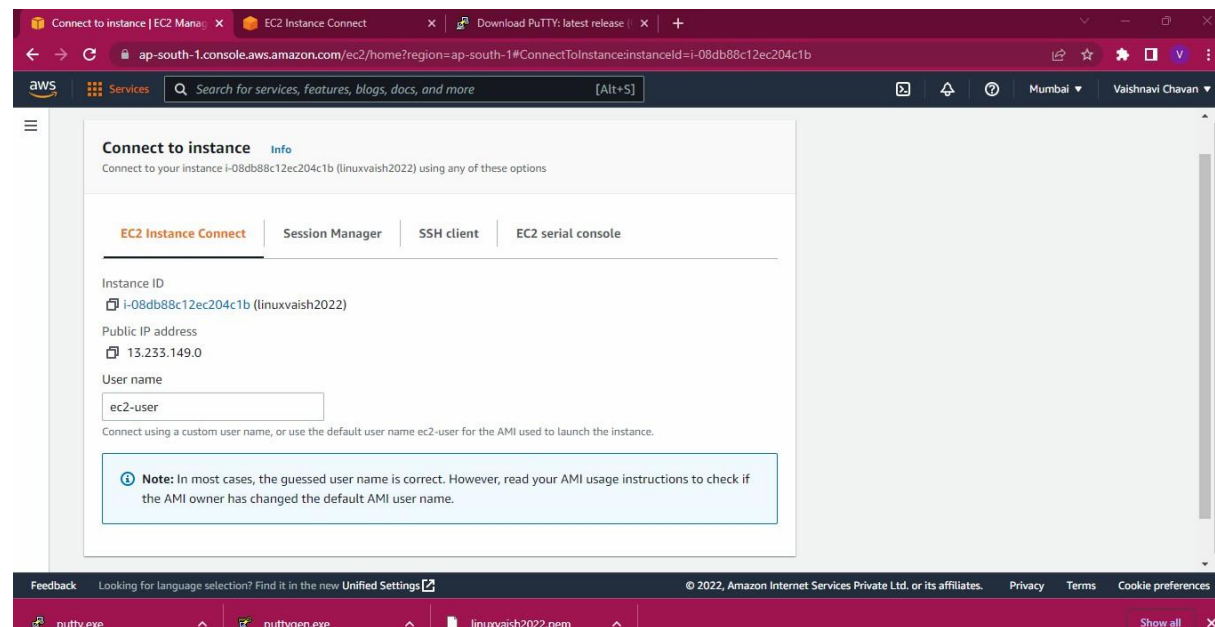
Step 12= In this step your instances are now launching then go to the view instances. Then we are came to the home page where our instances are created.



Step 13= Select instances on clicking checkbox. Then click on connect .



Step 14= We have to choose EC2 instance connect then connect. When we select SSH client then download Putty exe. Or Puttygen.exe then click on Putty exe. Then copy path and select type SSH inside it click Auth then browse and select save private key path and then open. Then open Puttygen exe file and load pem file here and save private save which will help in puttyexe file.



Connect to instance | EC2 Manag...

EC2 Instance Connect

Download PuTTY: latest release |

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?connType=standard&instanceId=i-08db88c12ec204c1b&osUser=ec2-user®ion=ap-south-1&...

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[Alt+S]

Mumbai

Vaishnavi Chavan

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/

4 package(s) needed for security, out of 11 available

Run "sudo yum update" to apply all updates.

[ec2-user@ip-172-31-40-171 ~]\$

i-08db88c12ec204c1b (linuxvaish2022)

PublicIPs: 13.233.149.0 PrivateIPs: 172.31.40.171

Feedback

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putty.exe

puttygen.exe

linuxvaish2022.pem

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