Practice Assignment

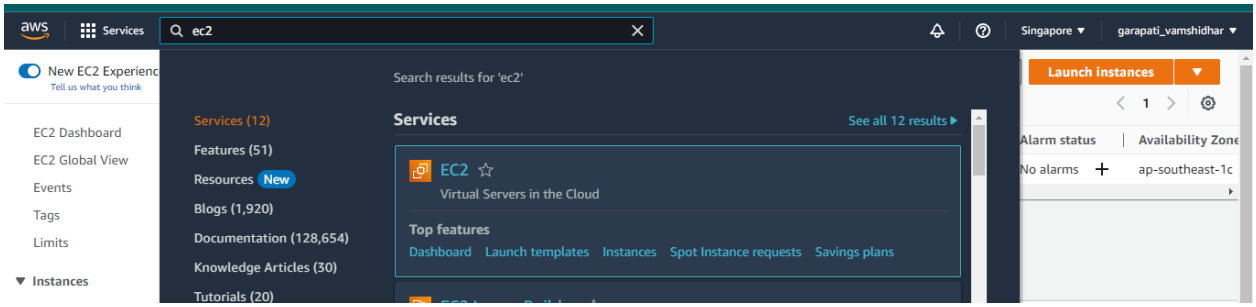
Q)Create an ec2 instance with the ubuntu operating system, set all the required parameters such as security groups and key pair, and also do SSH with git bash to the running instance.
Also, install NodeJS on top of the instance and check for the version of node to cross-check if NodeJS is installed successfully.

Also, configure the instance with an elastic ip to show the static public ip address.

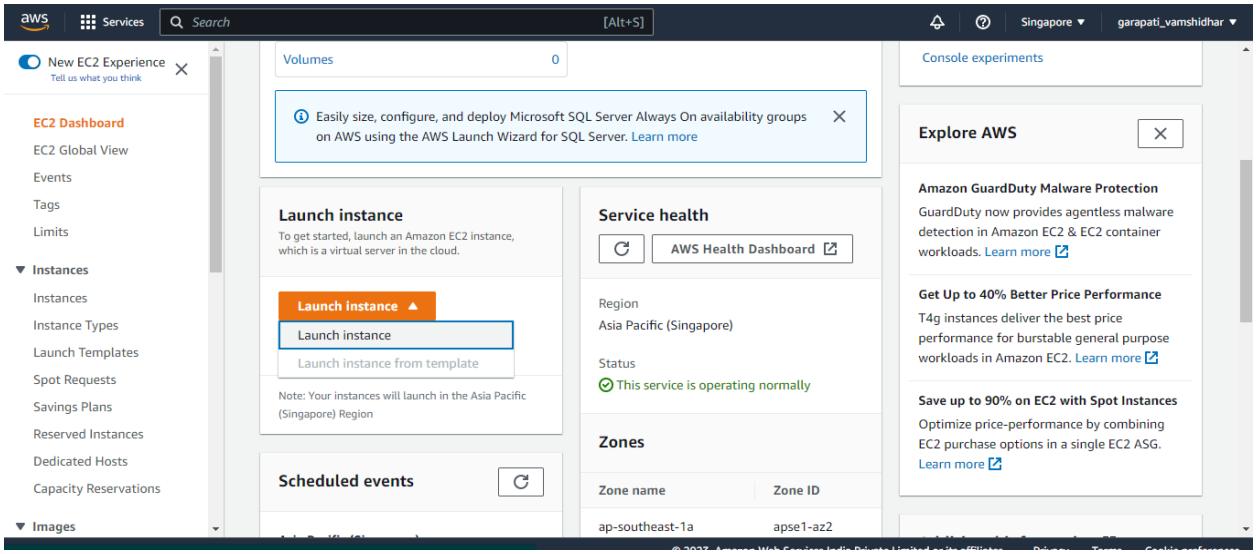
Also, create an S3 bucket and upload an object to it and show the object URL for reference.

Ans)

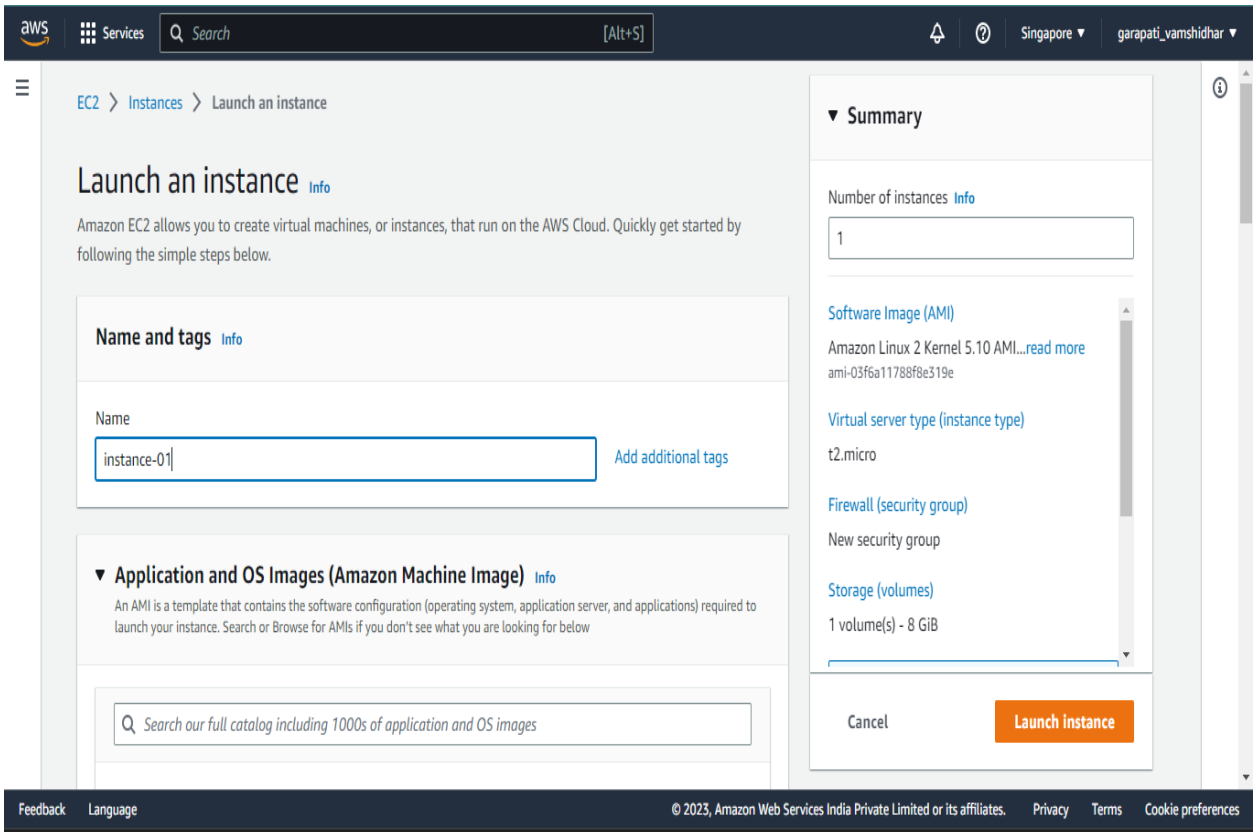
1.Go to services and select **EC2**.

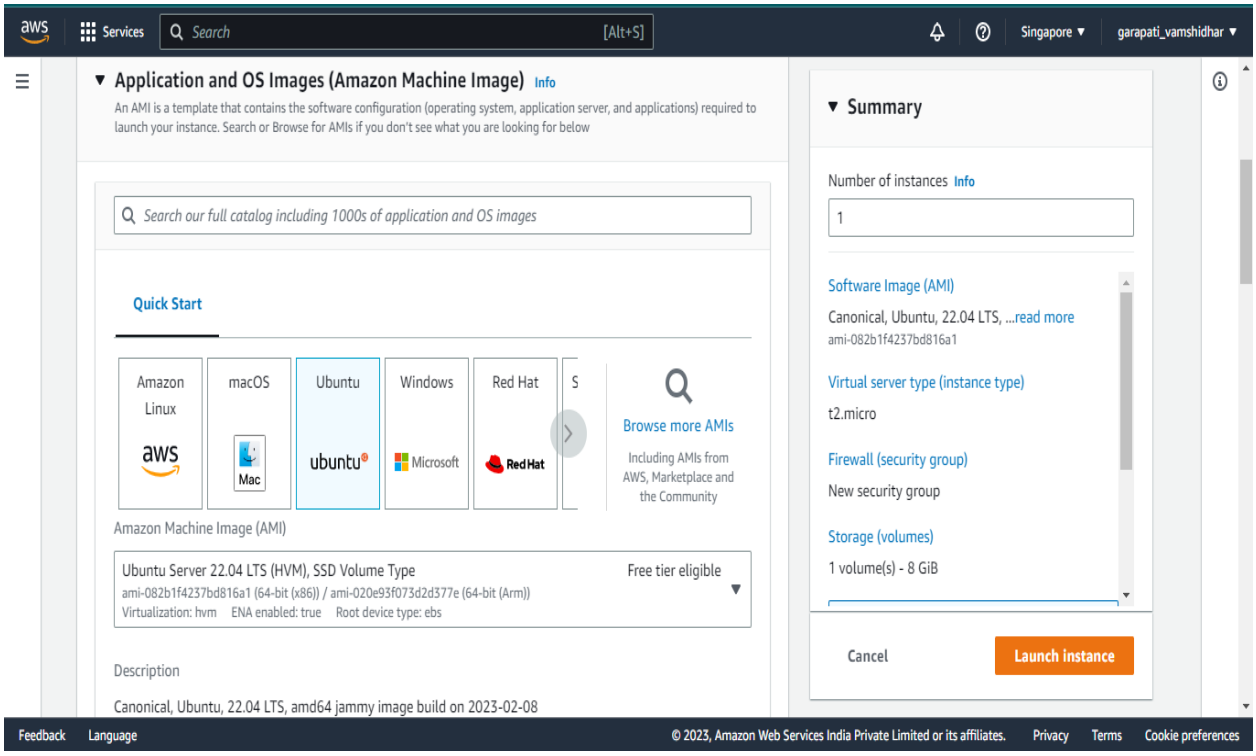


2.Now click on **launch instance**.

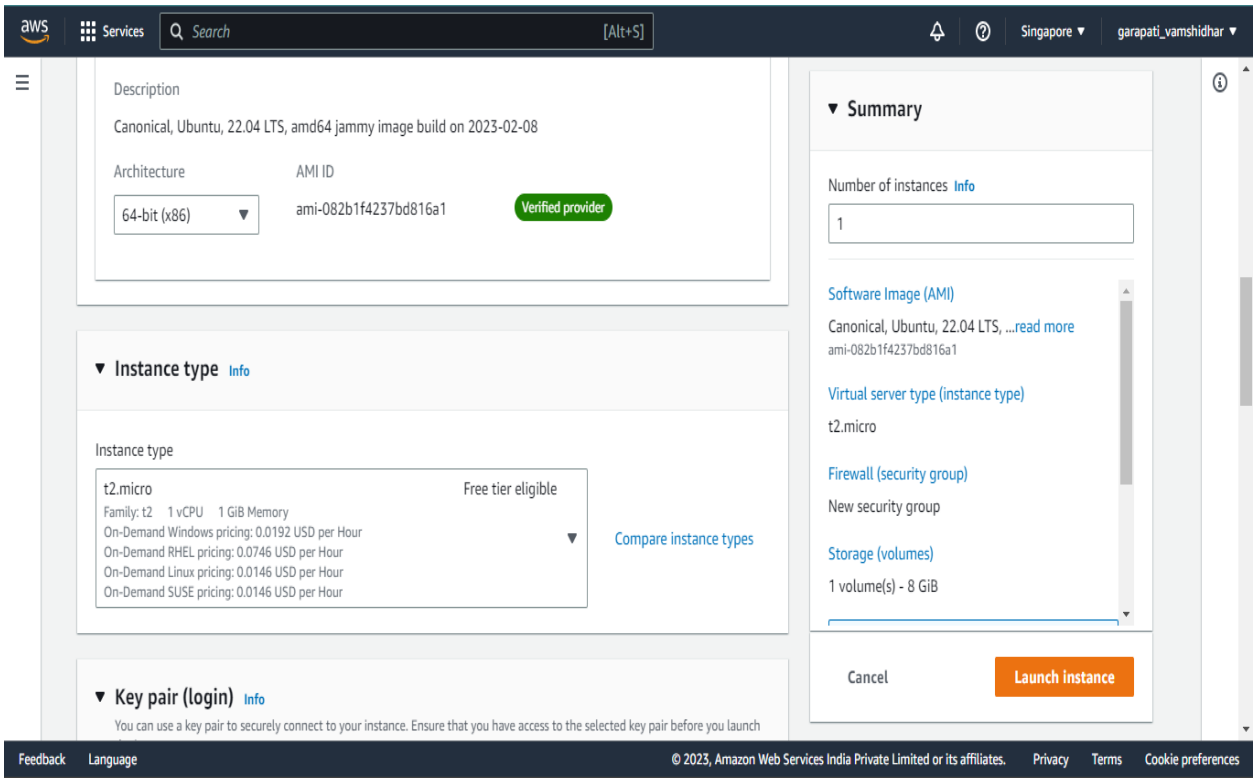


3.Name the instance and select the **Ubuntu AMI**.

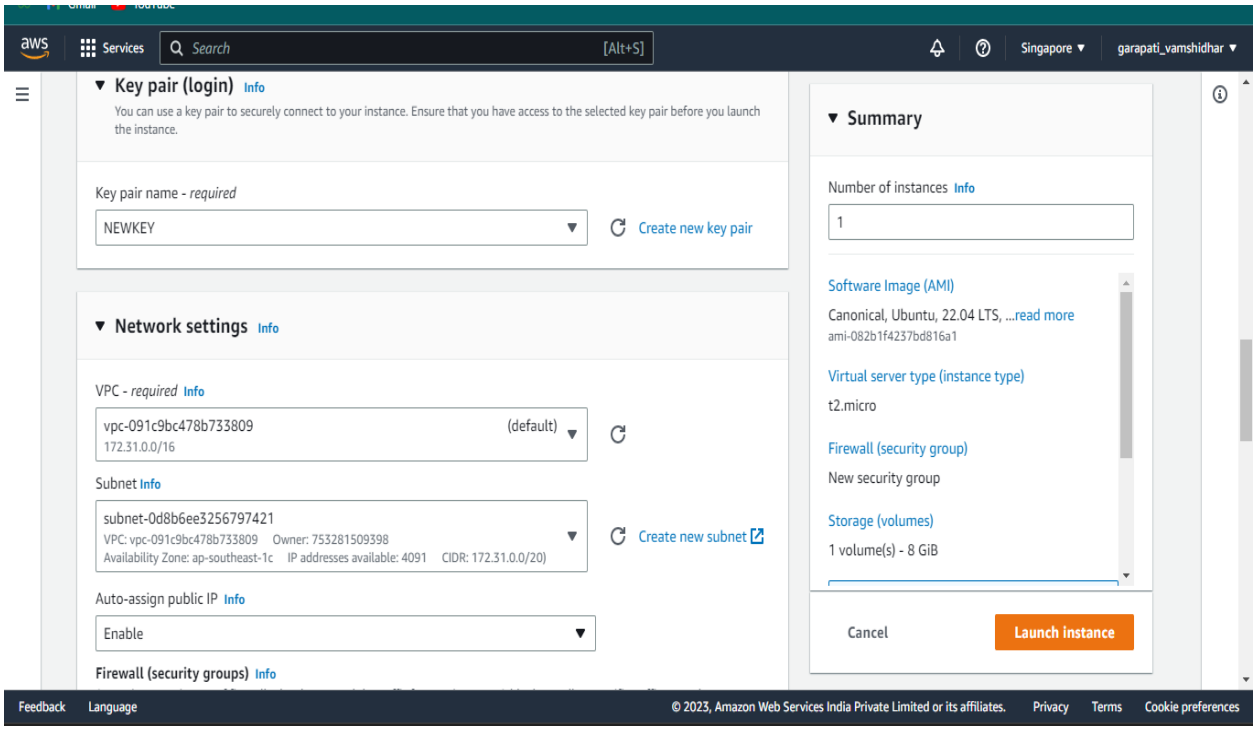


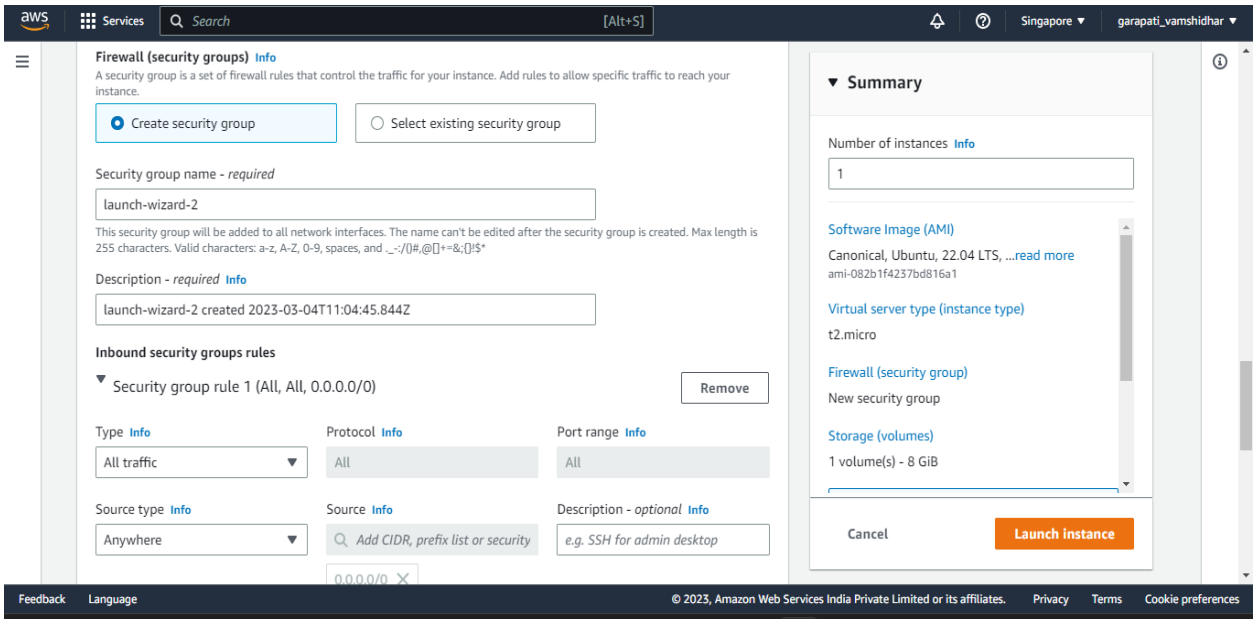


4.Select the instance type **t2.micro** as it is an free tier.

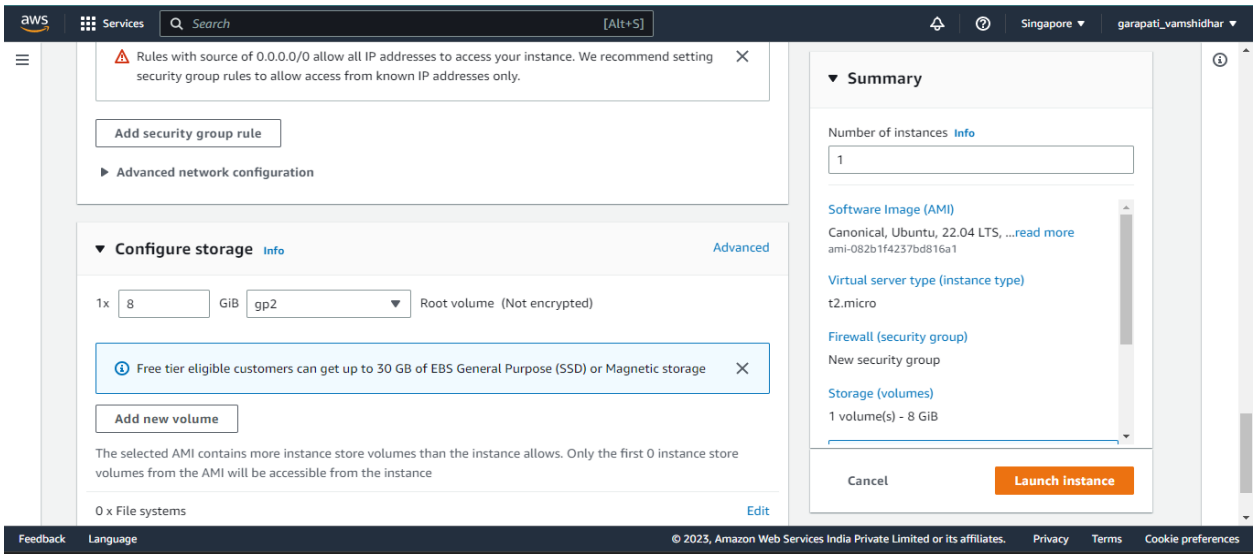


5.Select the **key pair** if exists or else create a new key pair. Now select **VPC,subnets** and also **security groups**.

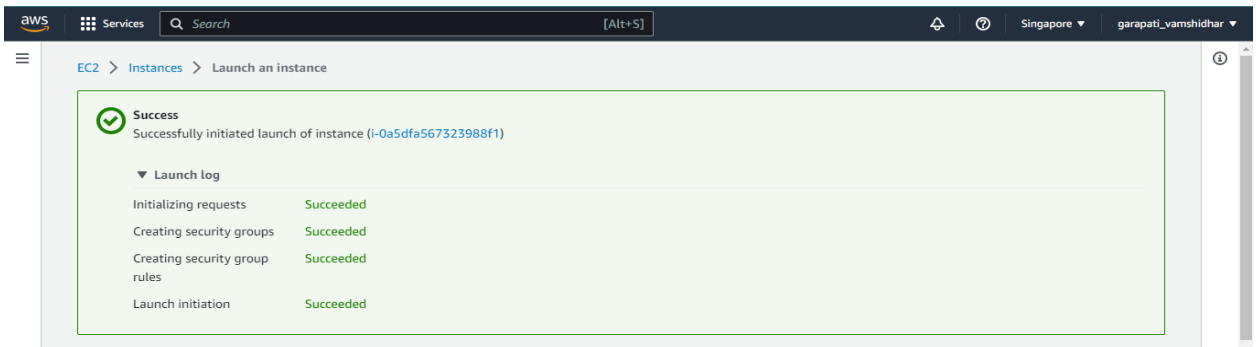




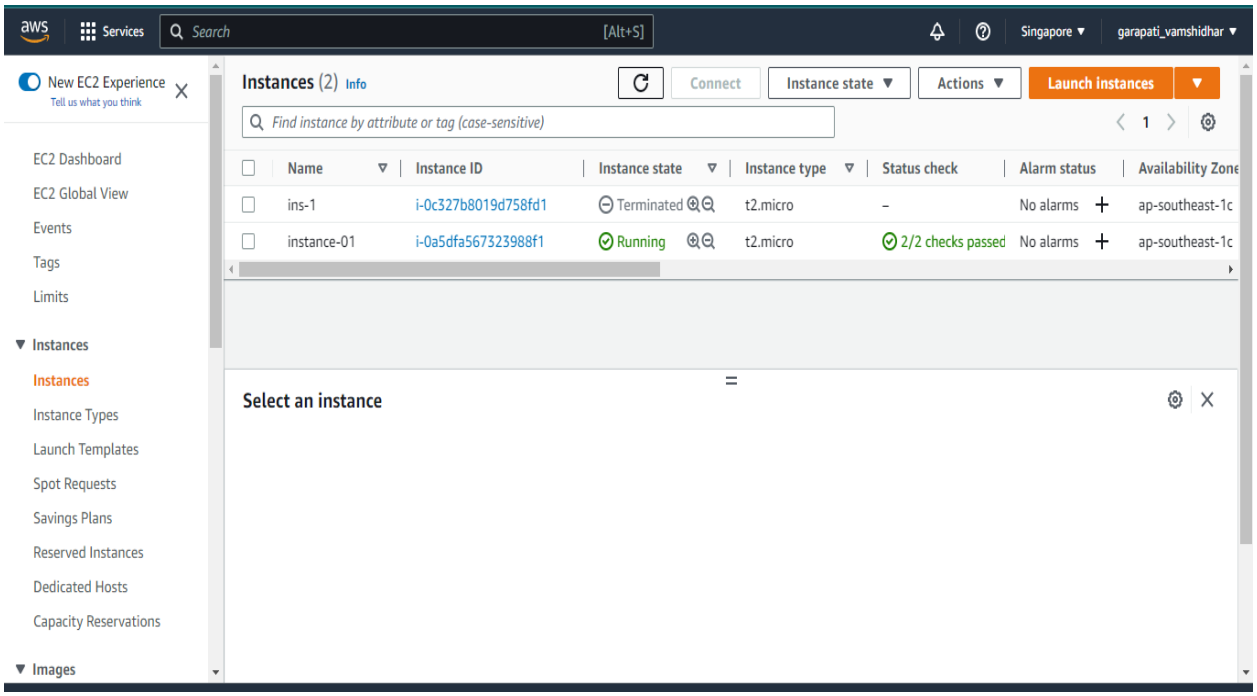
6.Select the required storage and click on **launch instance**.



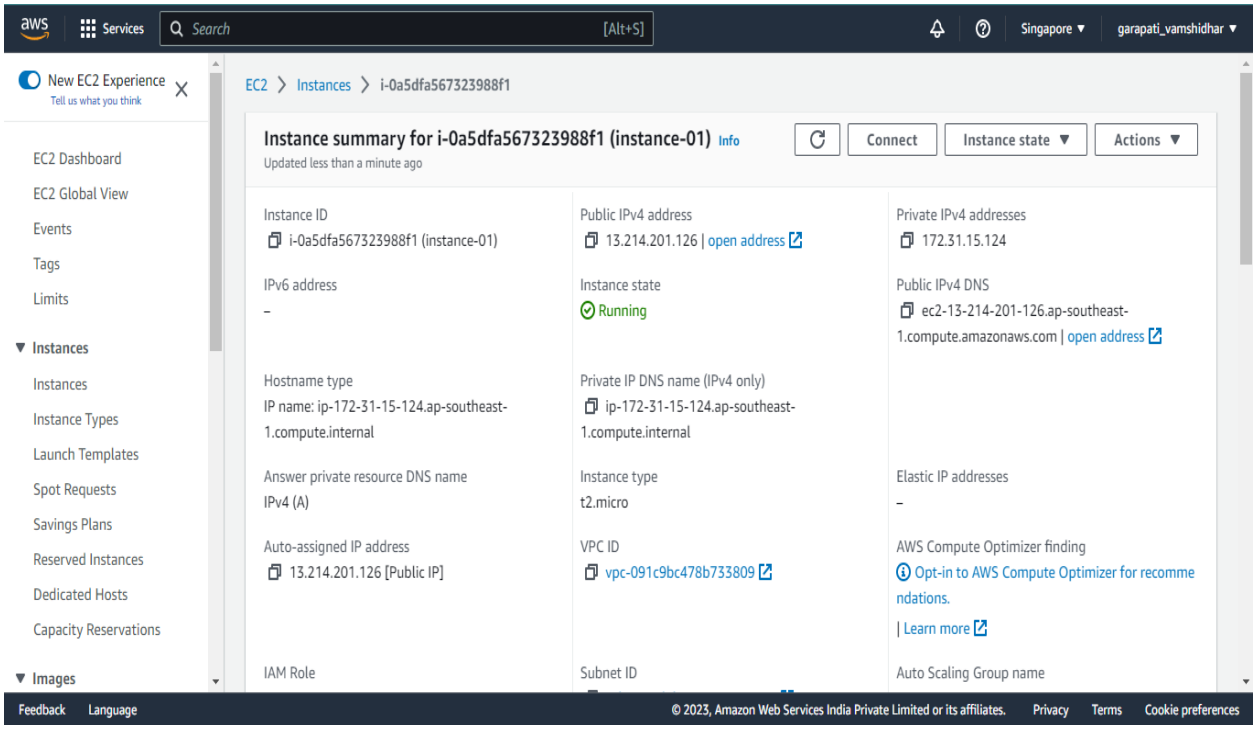
*The **launch log** will be as shown below.

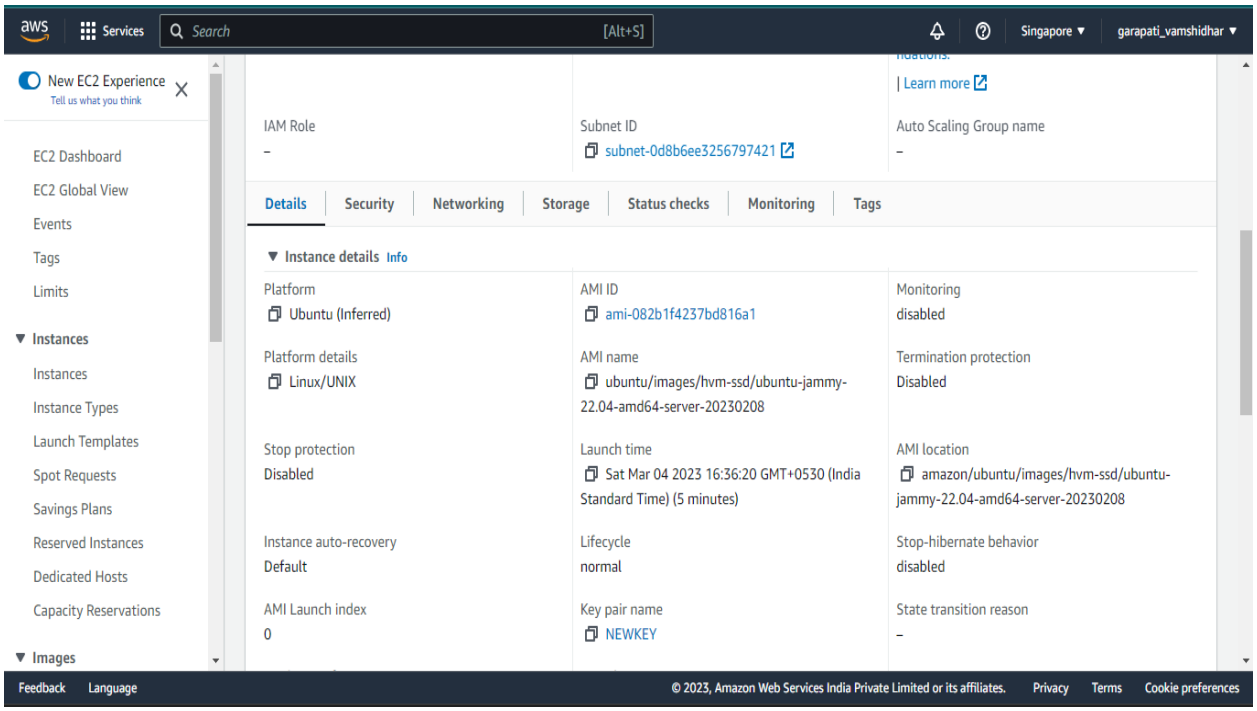


*We can the instance that are running.

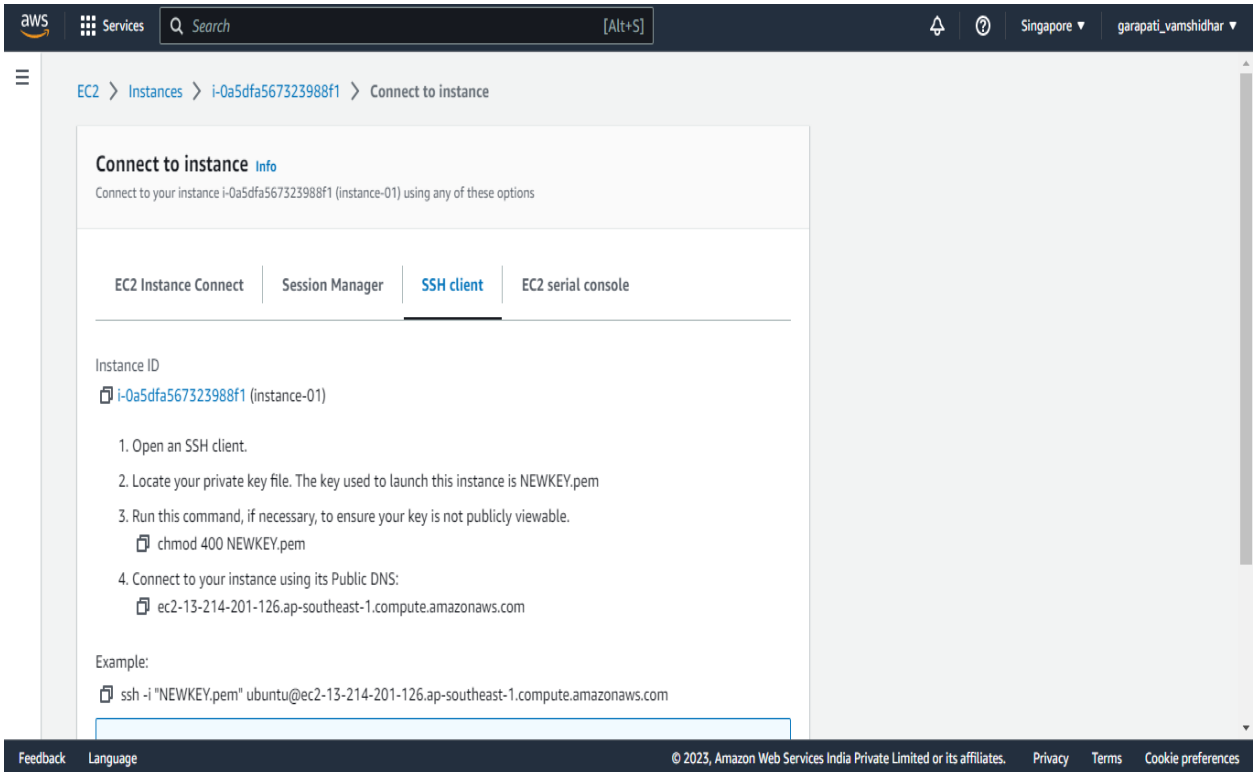


*The below screenshot is the **summary of the instance**.

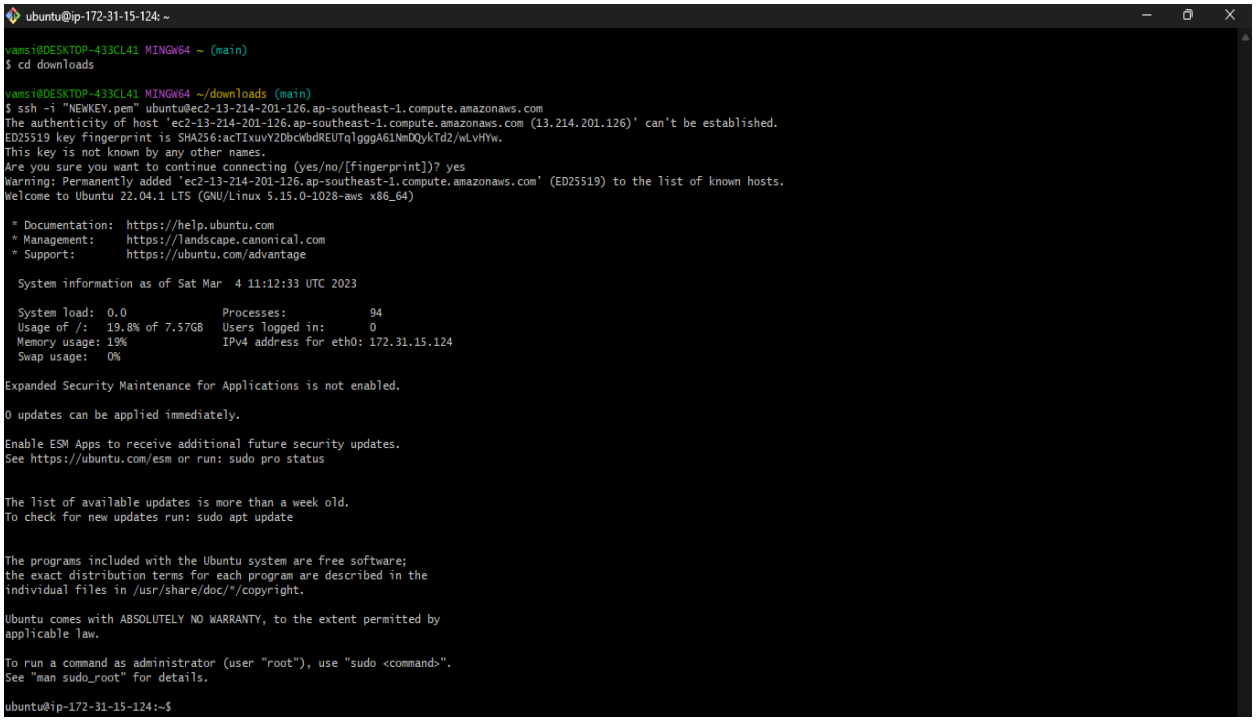




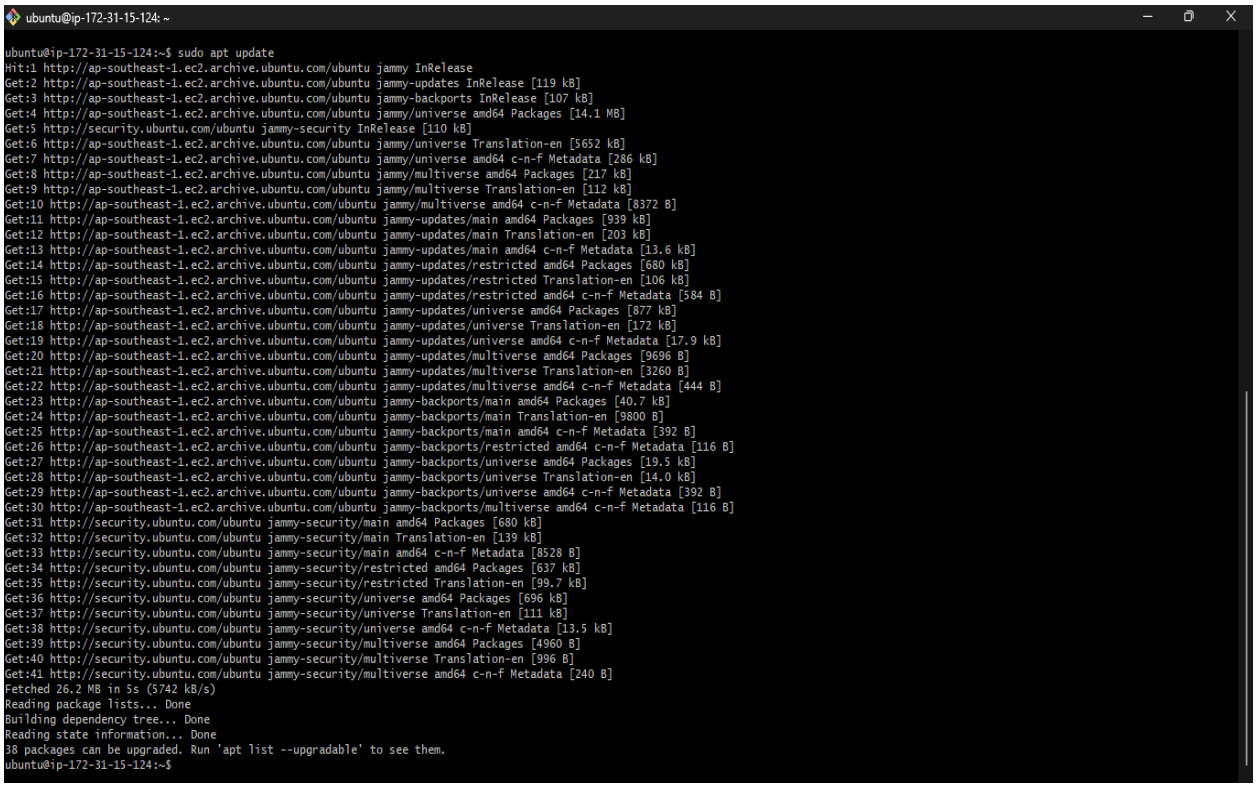
7.Now click on connect and select **SSH client** and copy the command which is displayed in the example.



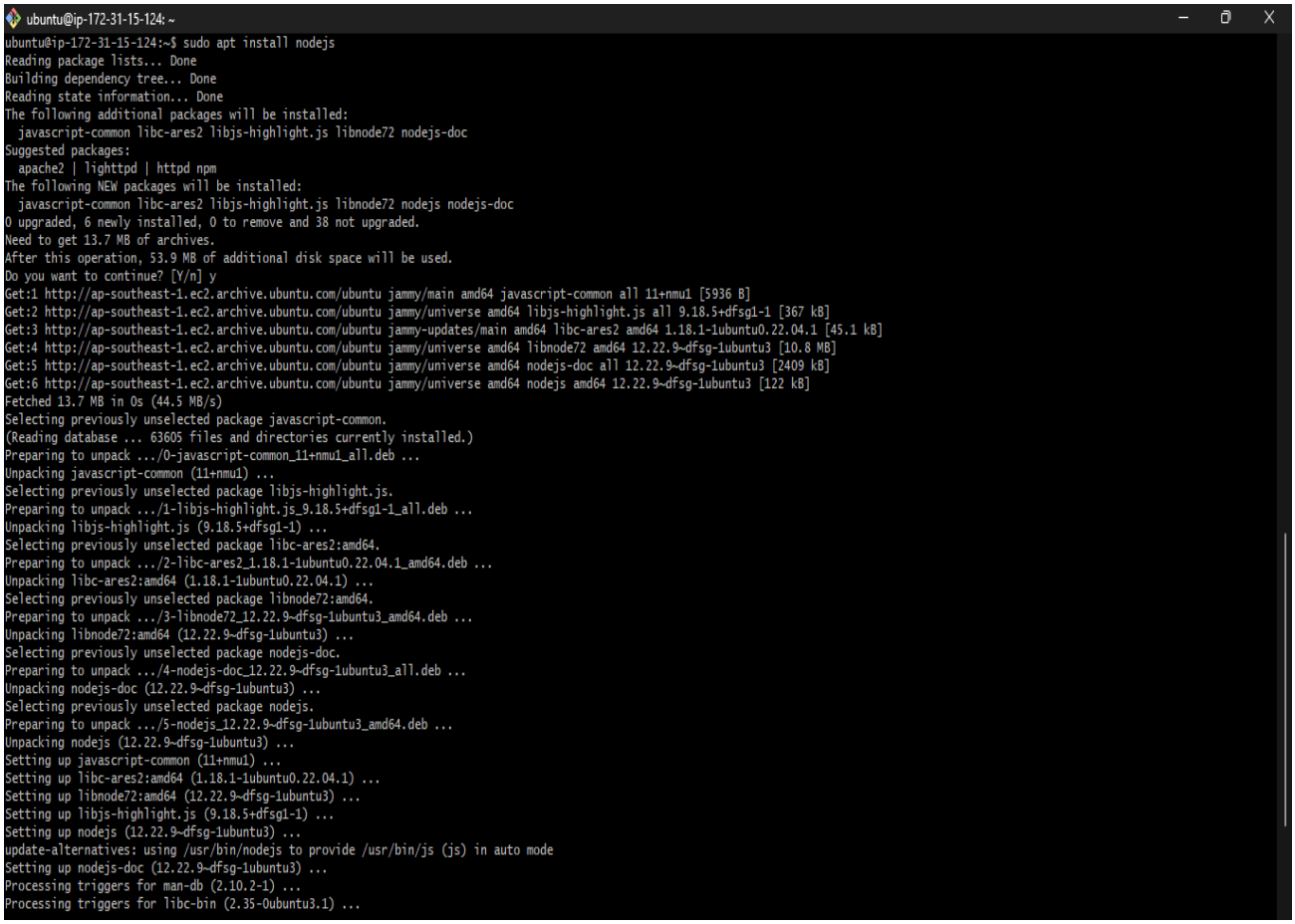
8.Go to git bash and change the directory where the pem file is created. And now paste the command and click enter. Now the instance is launched.

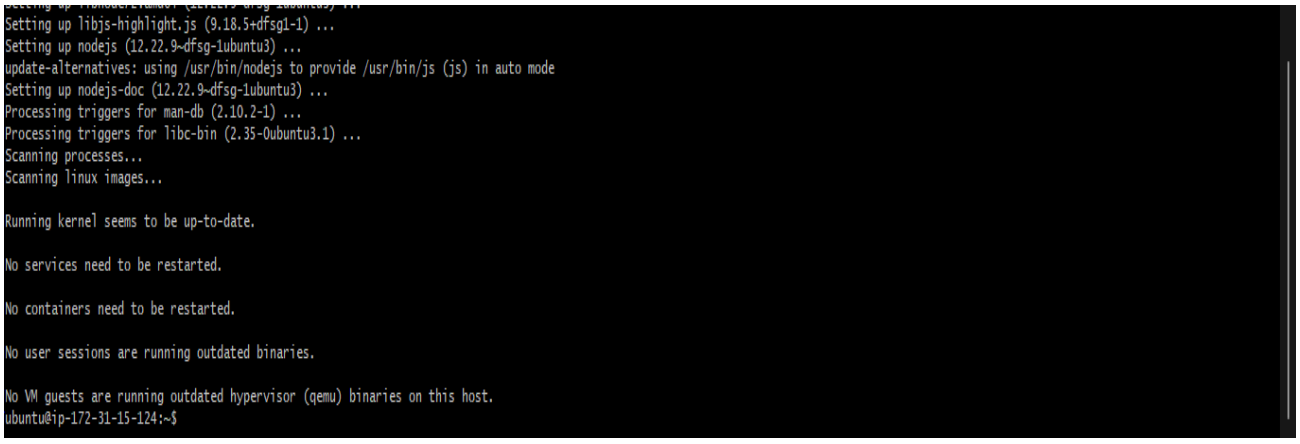


9.To update use the command **“$sudo apt update”** .

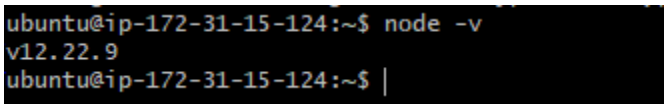


10.To install the nodejs use the command **“$sudo apt install nodejs”.**



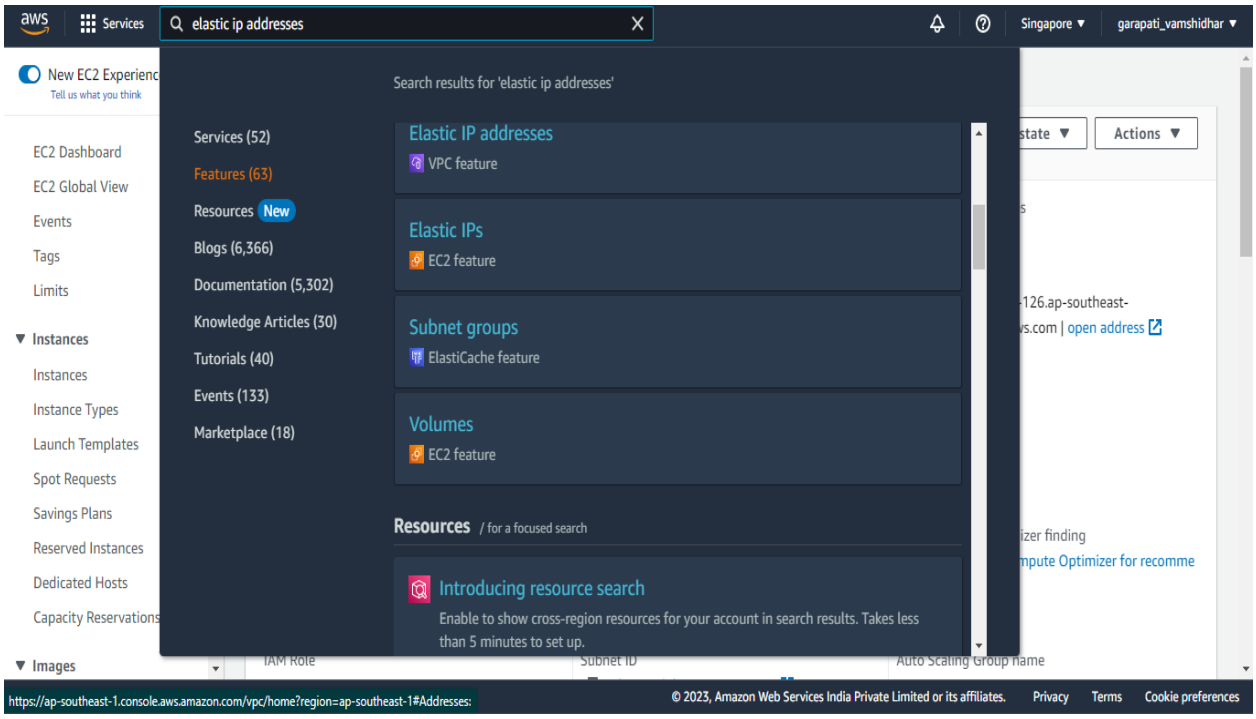


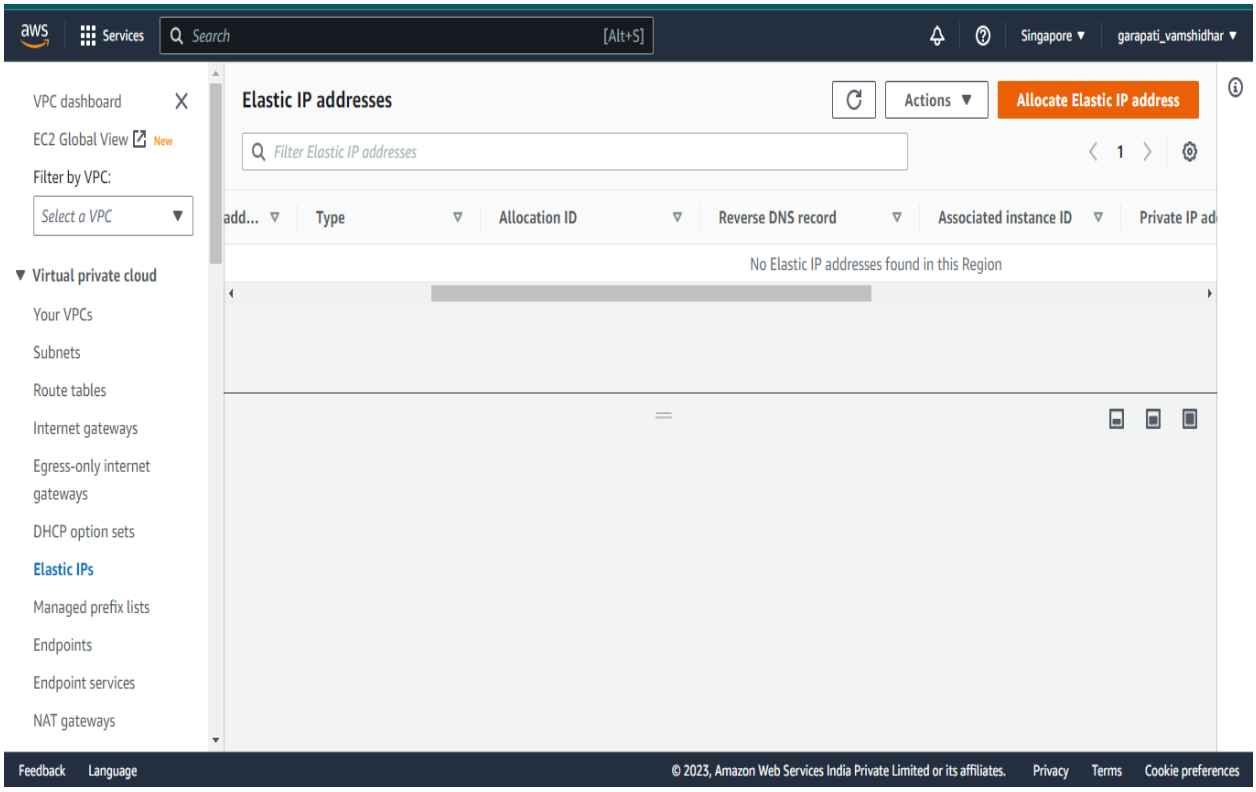
11.Now check whether the node.js is installed or not. Use the command **“$node –v” or “$node --version”.**



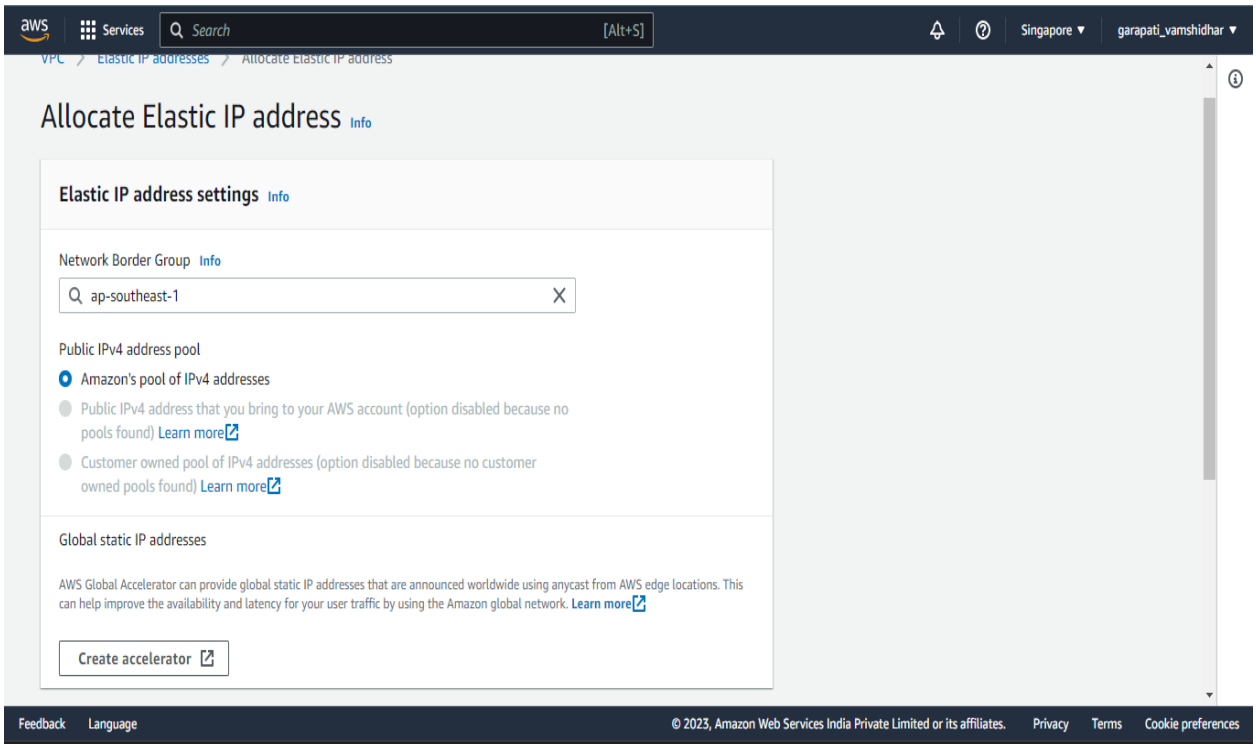
Configuring elastic ip address:

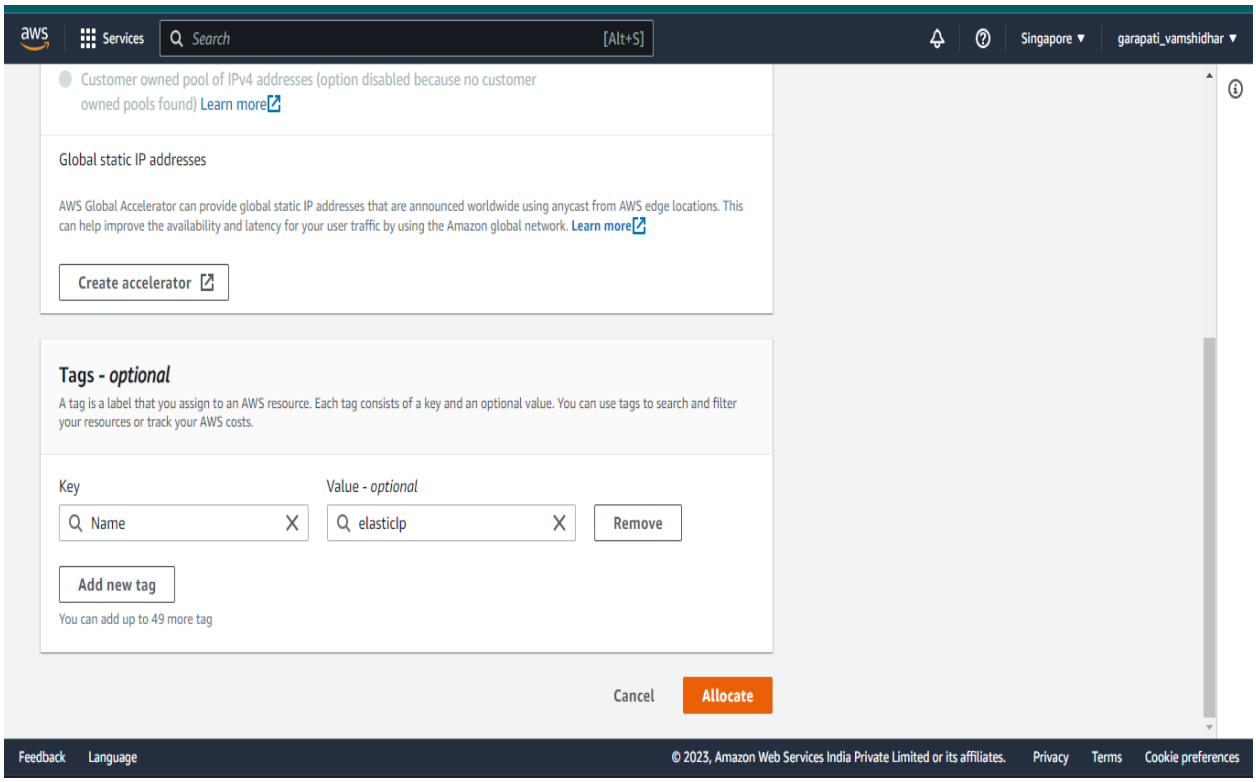
1.select the elastic Ip addresses and click on **allocate elastic Ip address**.



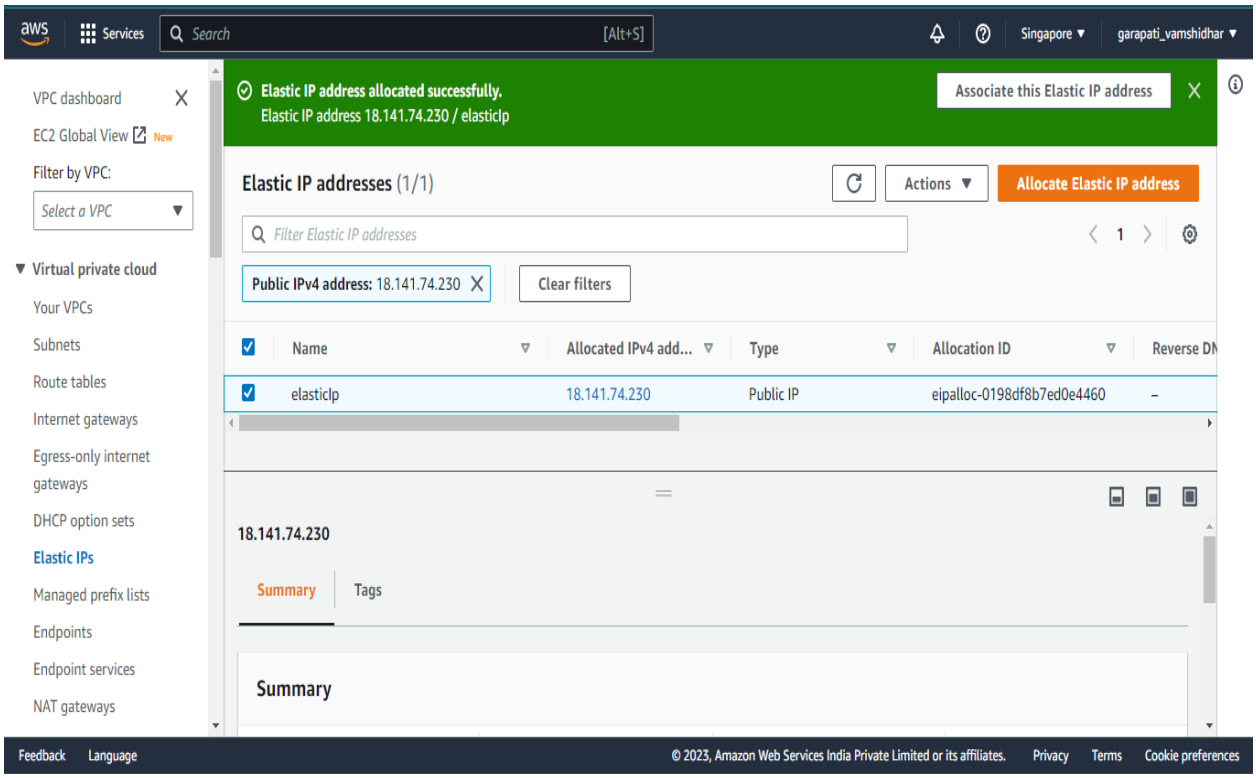


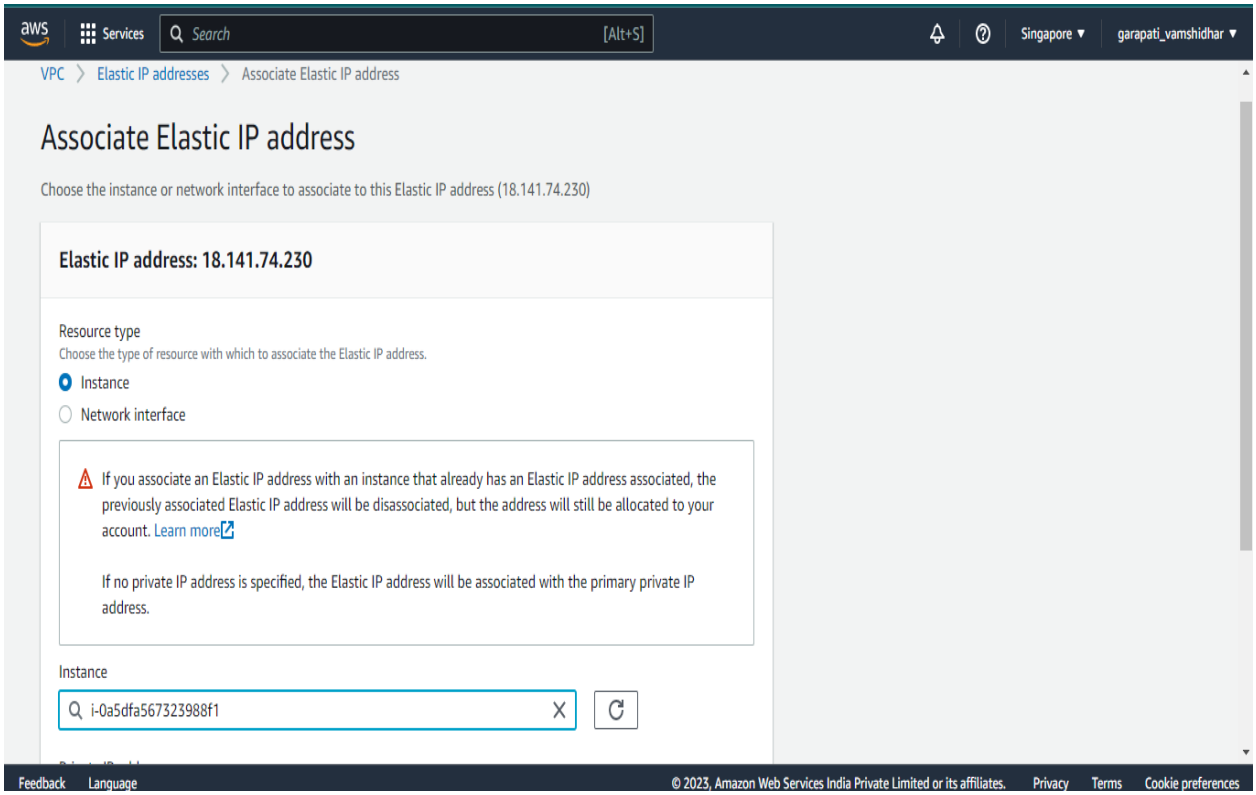
2.Add the **tags** to the elastic ip and click allocate.



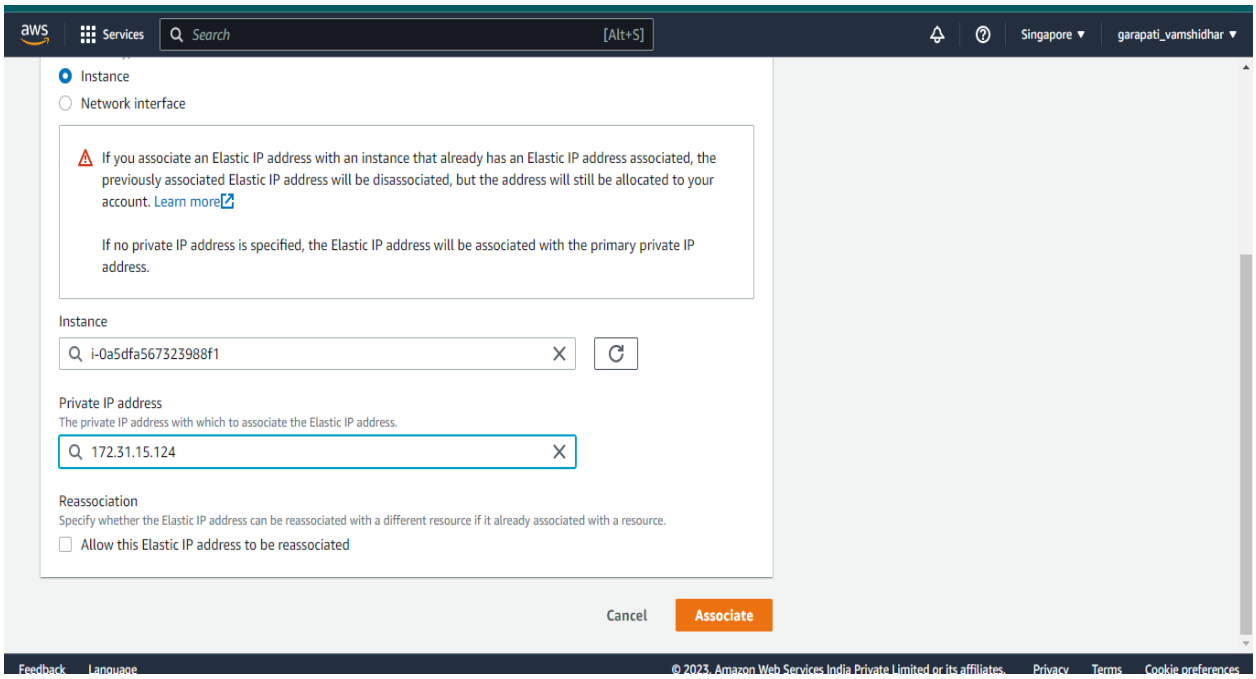


3.Now click on **associate this elastic ip address** and select the instance.

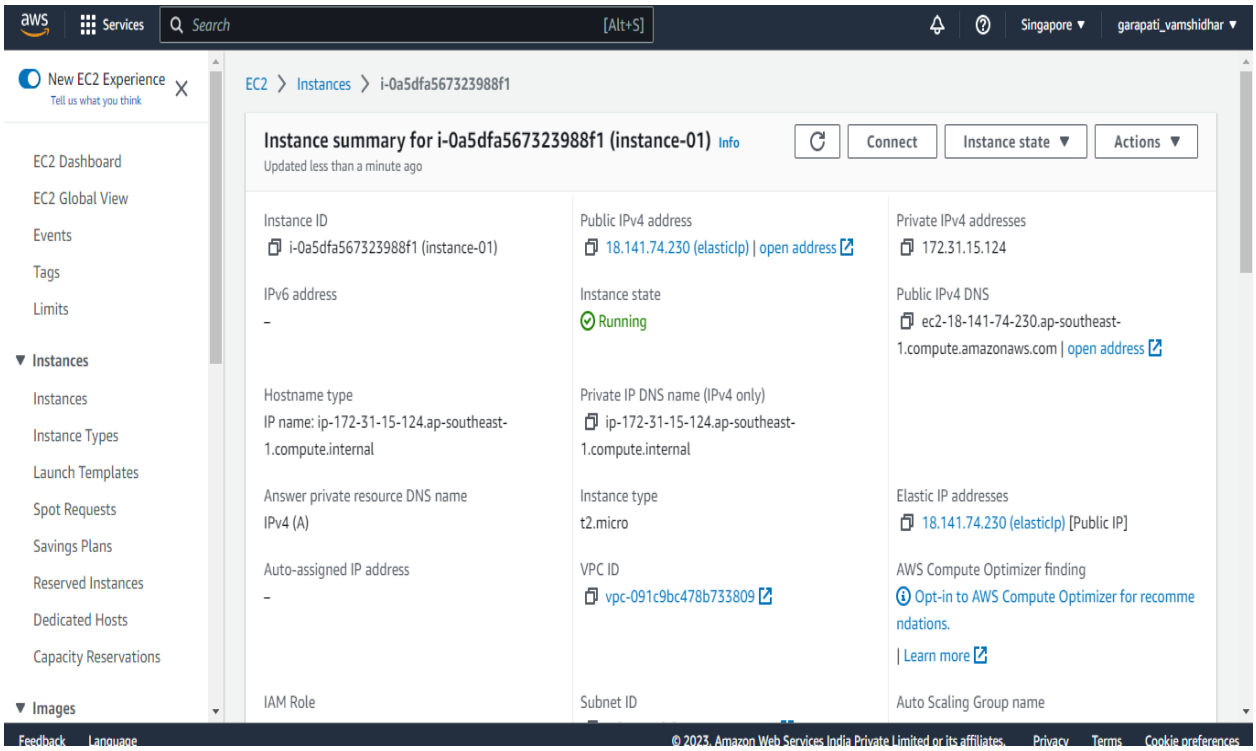




4.Give the **private Ip address**.

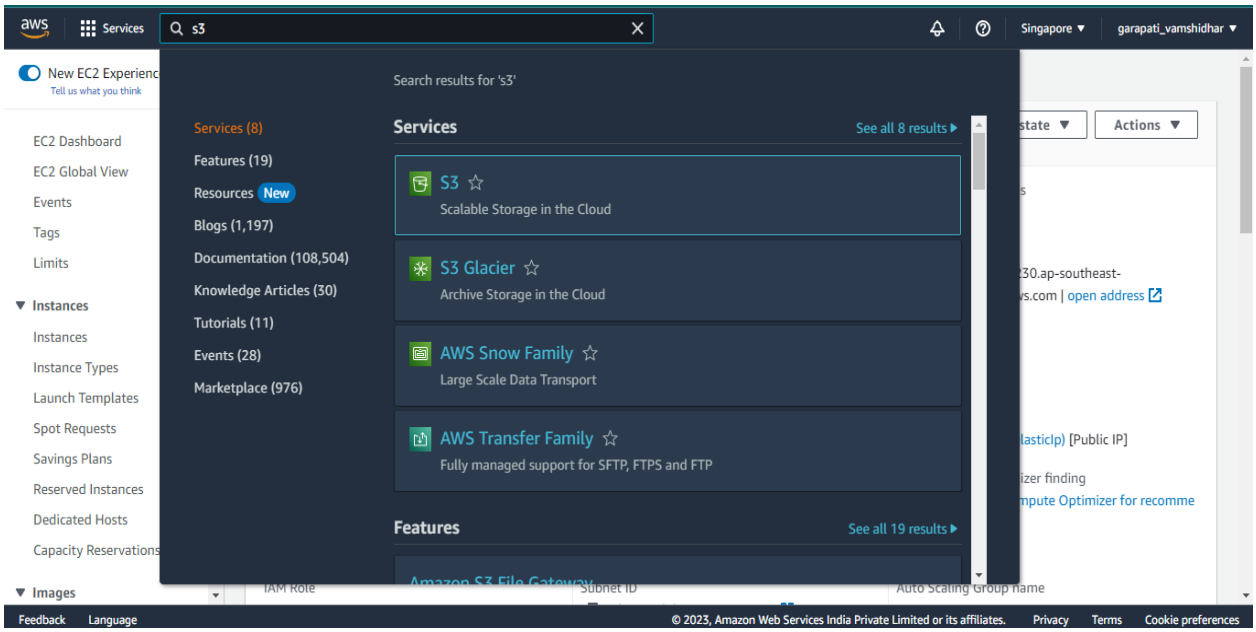


5.Go to instance summary page. There we can find the **allocated elastic Ip address**.

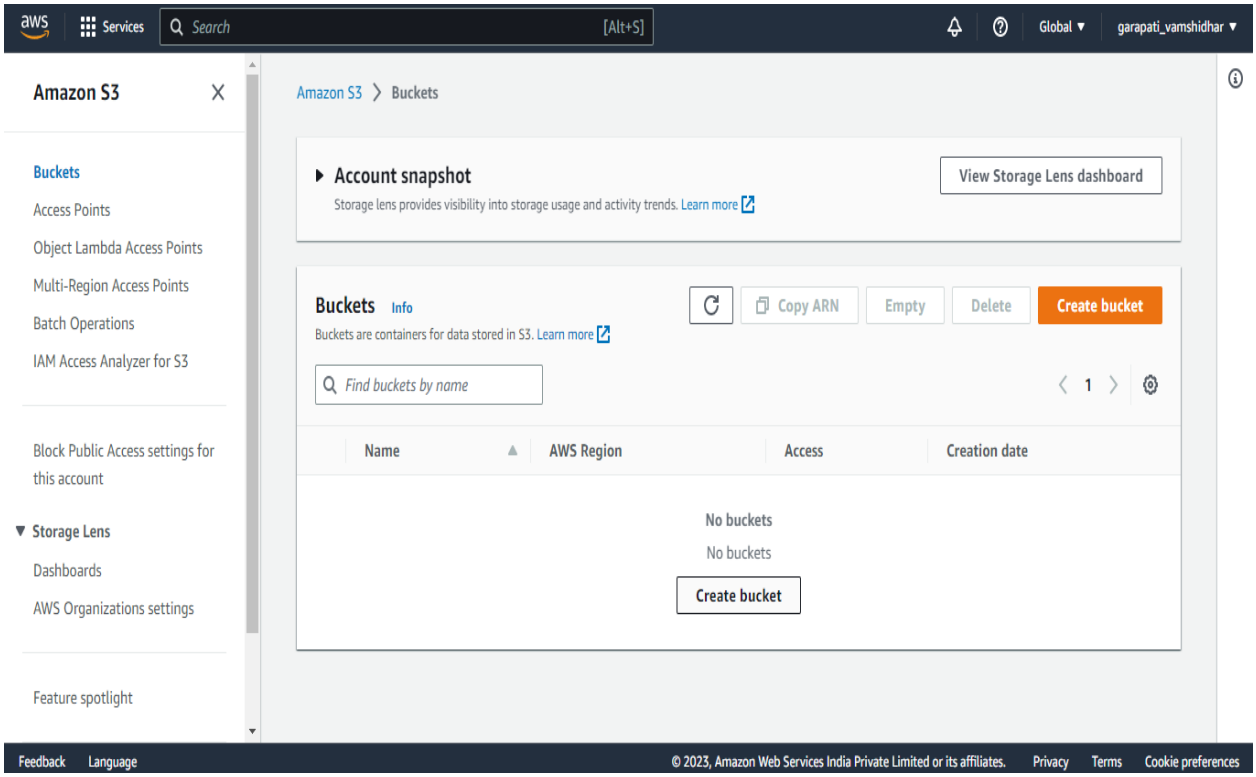


Create an S3 bucket and upload an object to it and show the object URL for reference.

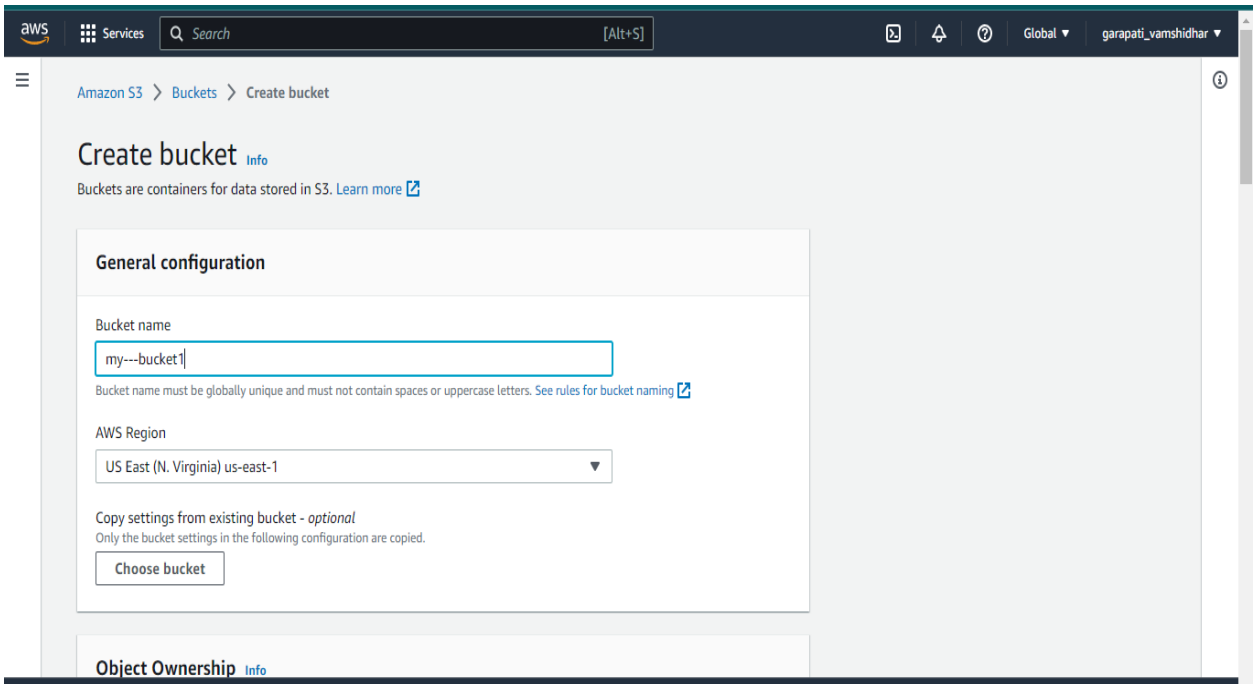
1.Go to services and select **S3**.



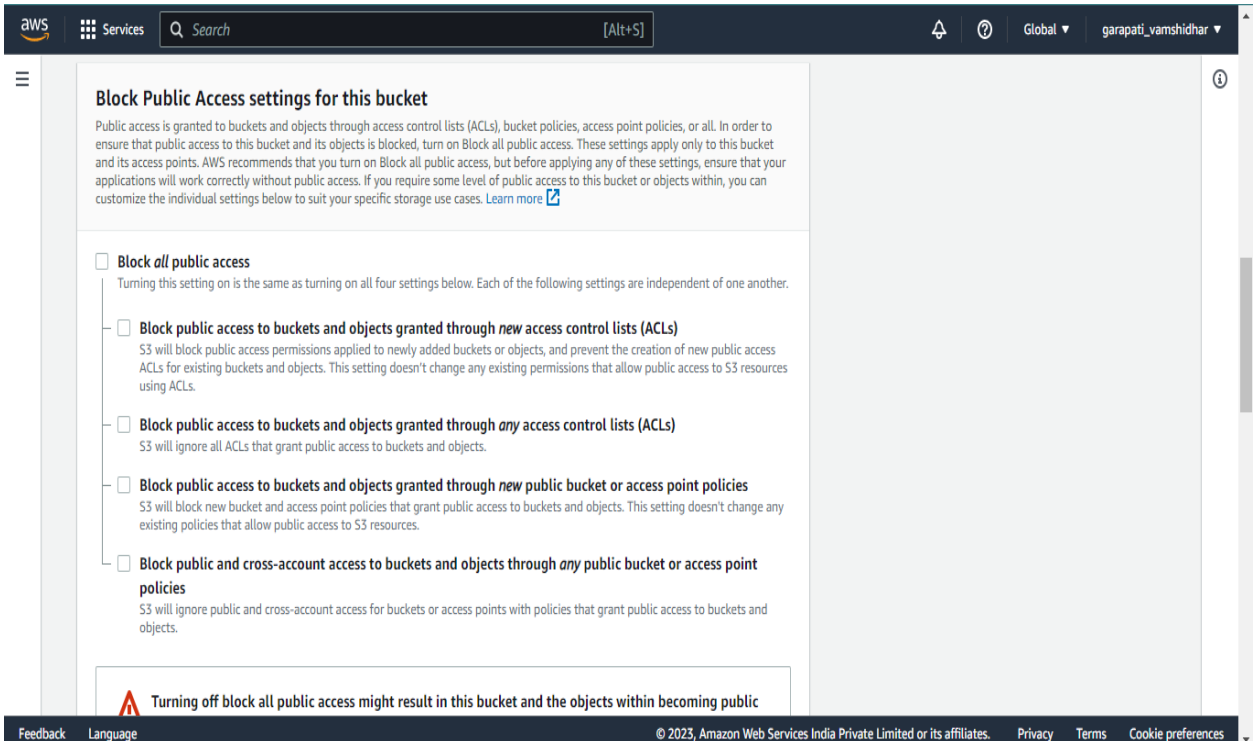
2.Click on **create bucket**.



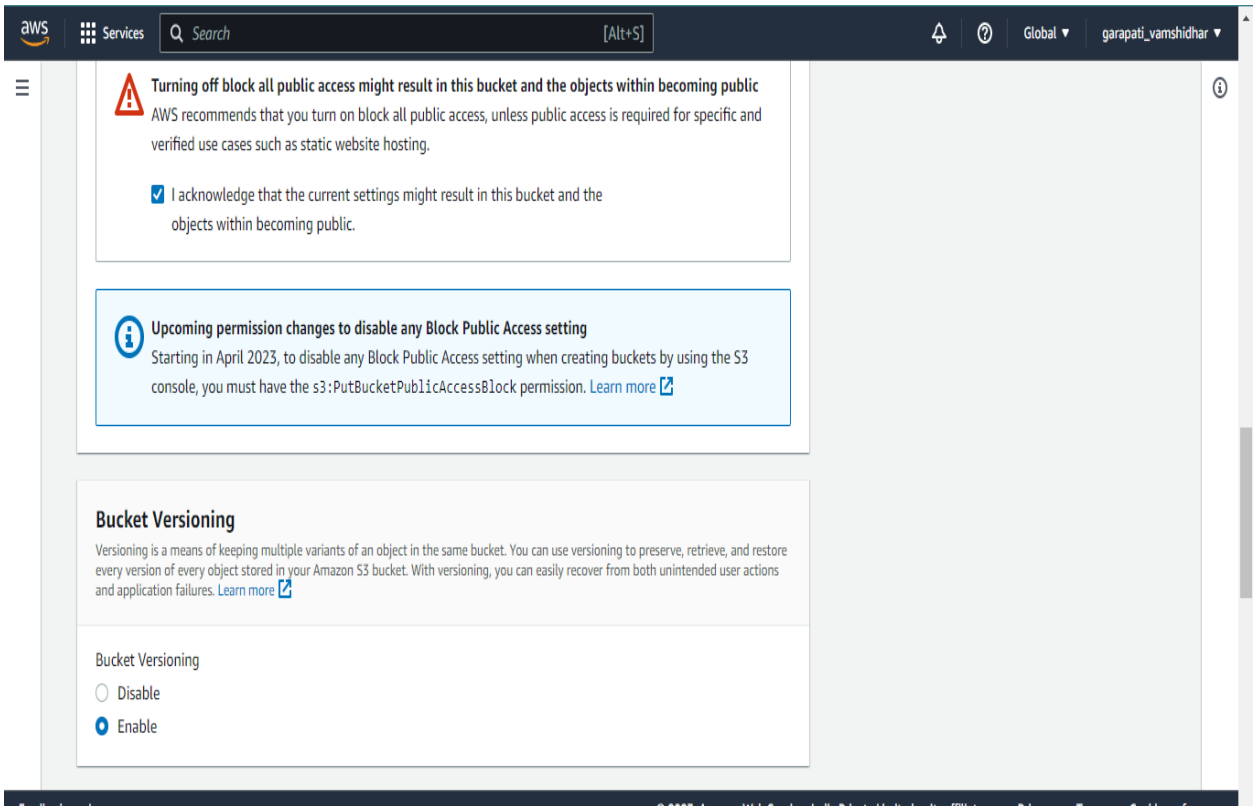
3.Give the name of the bucket and choose the region.



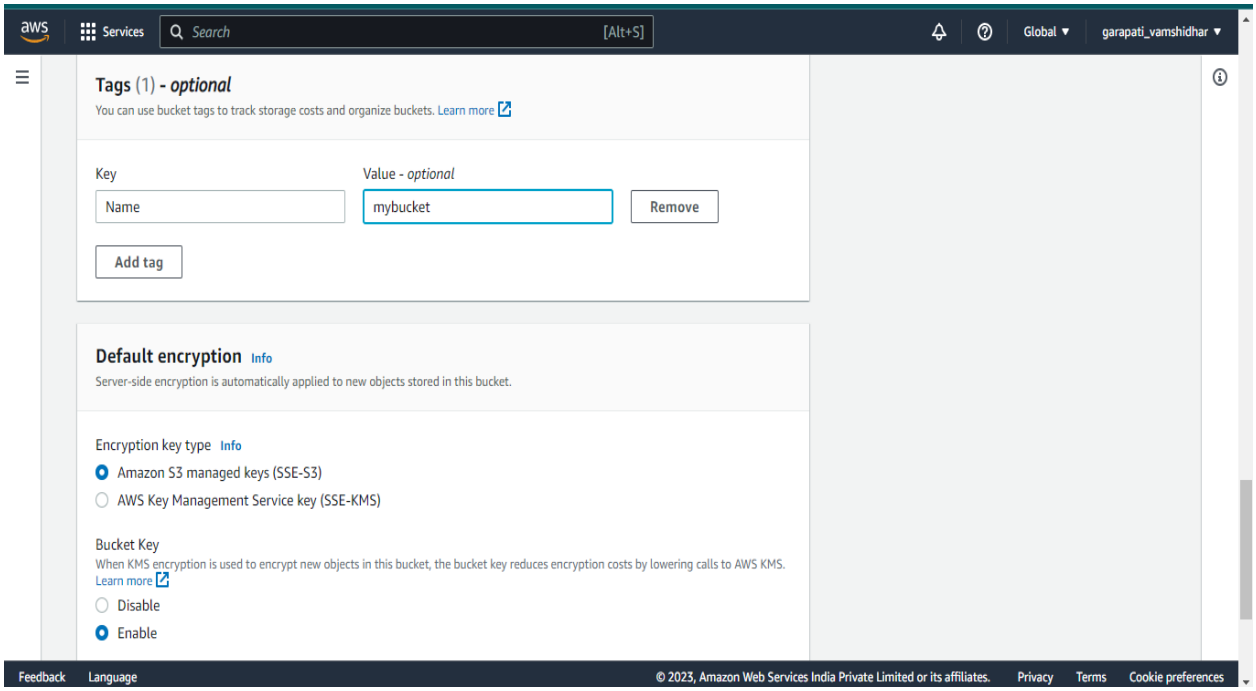
4.Now unmark “block all public access”.

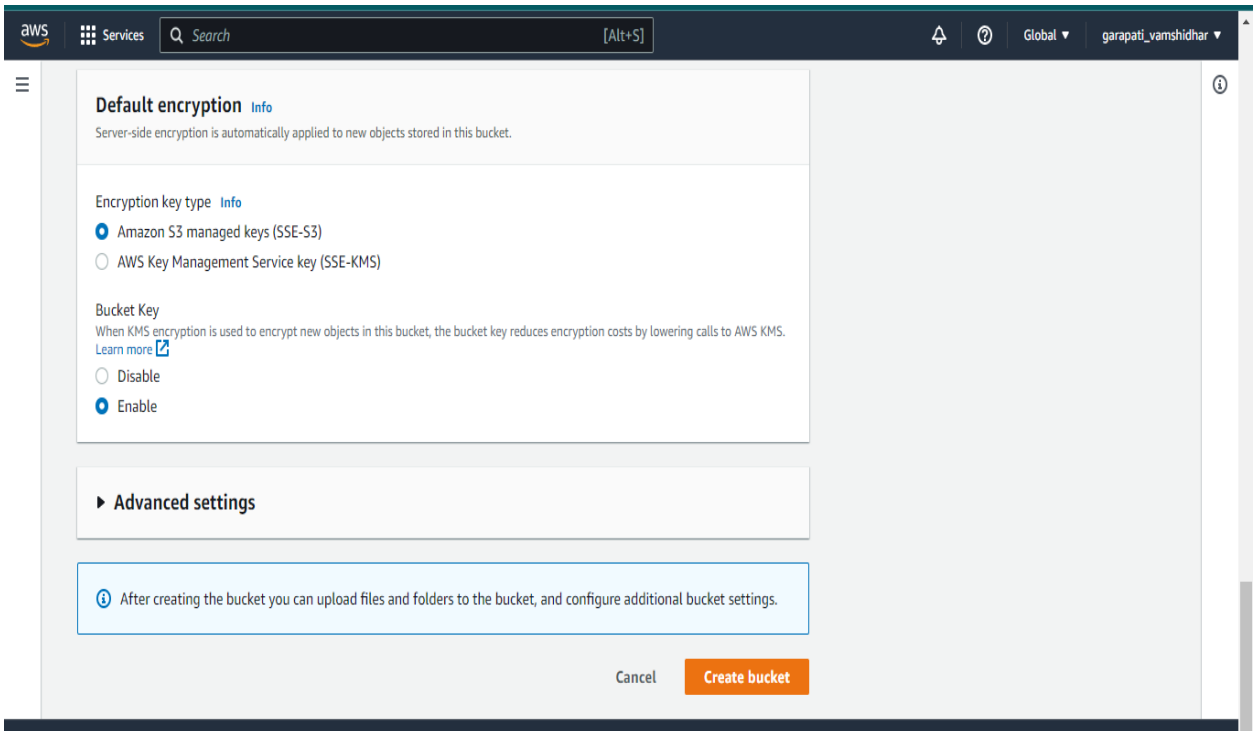


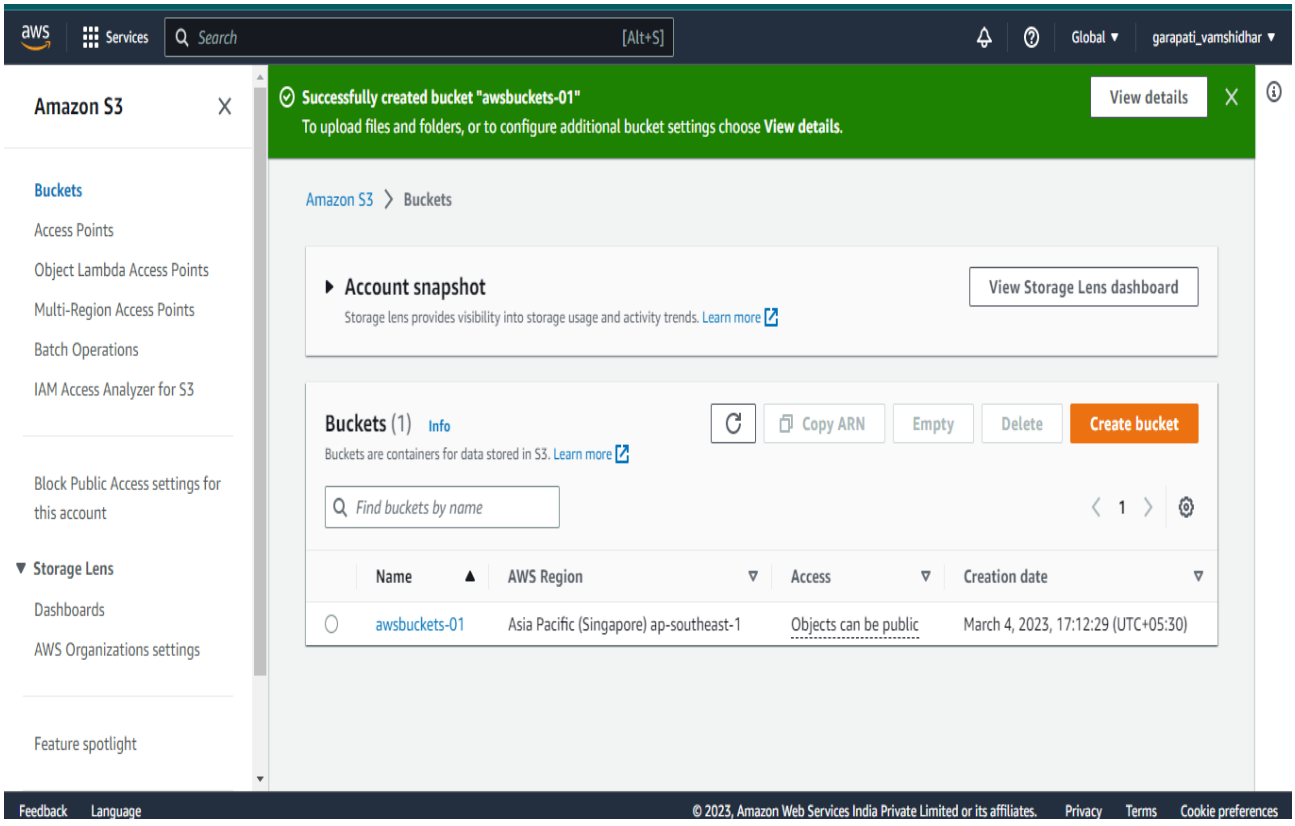
5.Enable the caution and also enable bucket versioning.



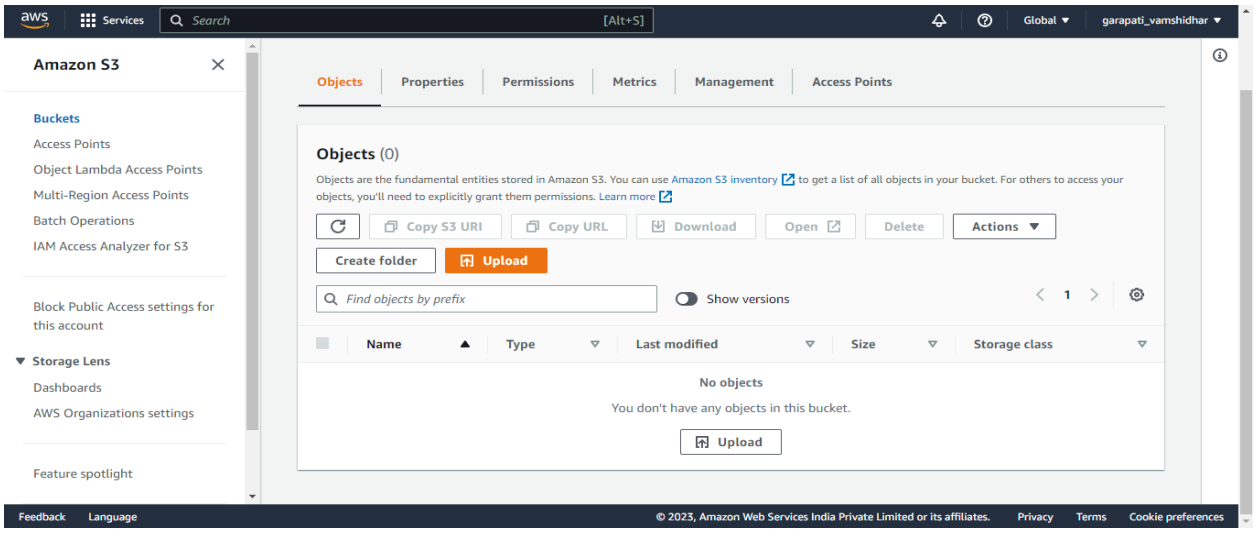
6.Add the tags and click on create bucket.

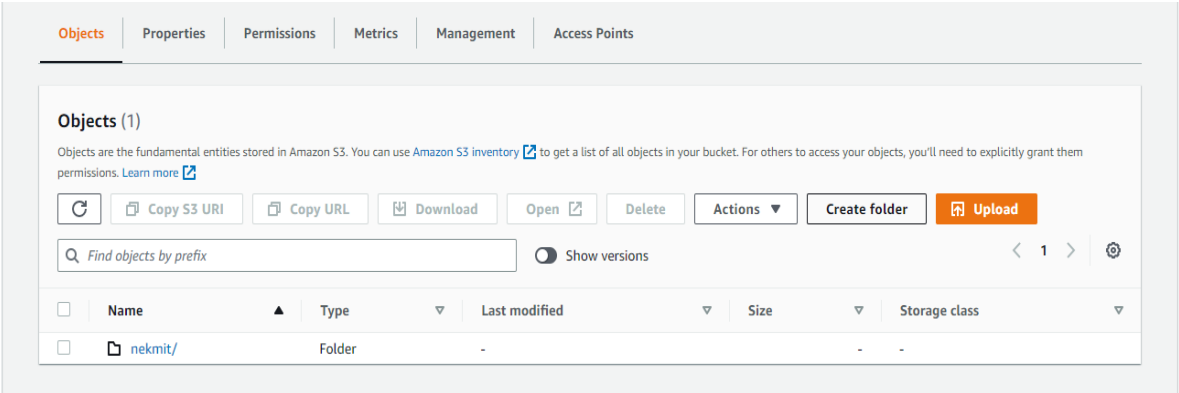



aws
Services
Search
[Alt+S]
Global
garapati_vamshidhar
Default encryption Info
Server-side encryption is automatically applied to new objects stored in this bucket.
Encryption key type Info
Amazon S3 managed keys (SSE-S3)
AWS Key Management Service key (SSE-KMS)
Bucket Key
When KMS encryption is used to encrypt new objects in this bucket, the bucket key reduces encryption costs by lowering calls to AWS KMS.
Learn more
Disable
Enable
Advanced settings
After creating the bucket you can upload files and folders to the bucket, and configure additional bucket settings.
Cancel
Create bucket

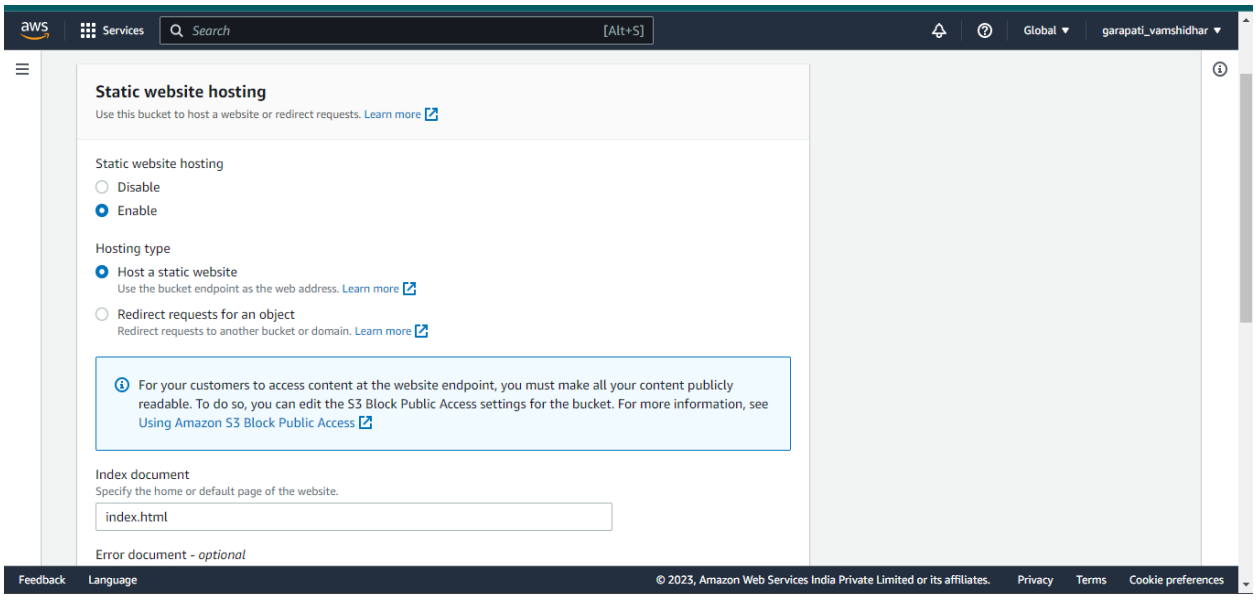

aws
Services
Search
[Alt+S]
Global
garapati_vamshidhar
Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
Successfully created bucket "awsbuckets-01"
To upload files and folders, or to configure additional bucket settings choose View details.
View details
Amazon S3 > Buckets
Account snapshot
Storage lens provides visibility into storage usage and activity trends. Learn more
View Storage Lens dashboard
Buckets (1) Info
Buckets are containers for data stored in S3. Learn more
Copy ARN
Empty
Delete
Create bucket
Find buckets by name
1
Name
AWS Region
Access
Creation date
awsbuckets-01
Asia Pacific (Singapore) ap-southeast-1
Objects can be public
March 4, 2023, 17:12:29 (UTC+05:30)
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
Privacy
Terms
Cookie preferences

7.Now upload the required files and folders. Click on upload.

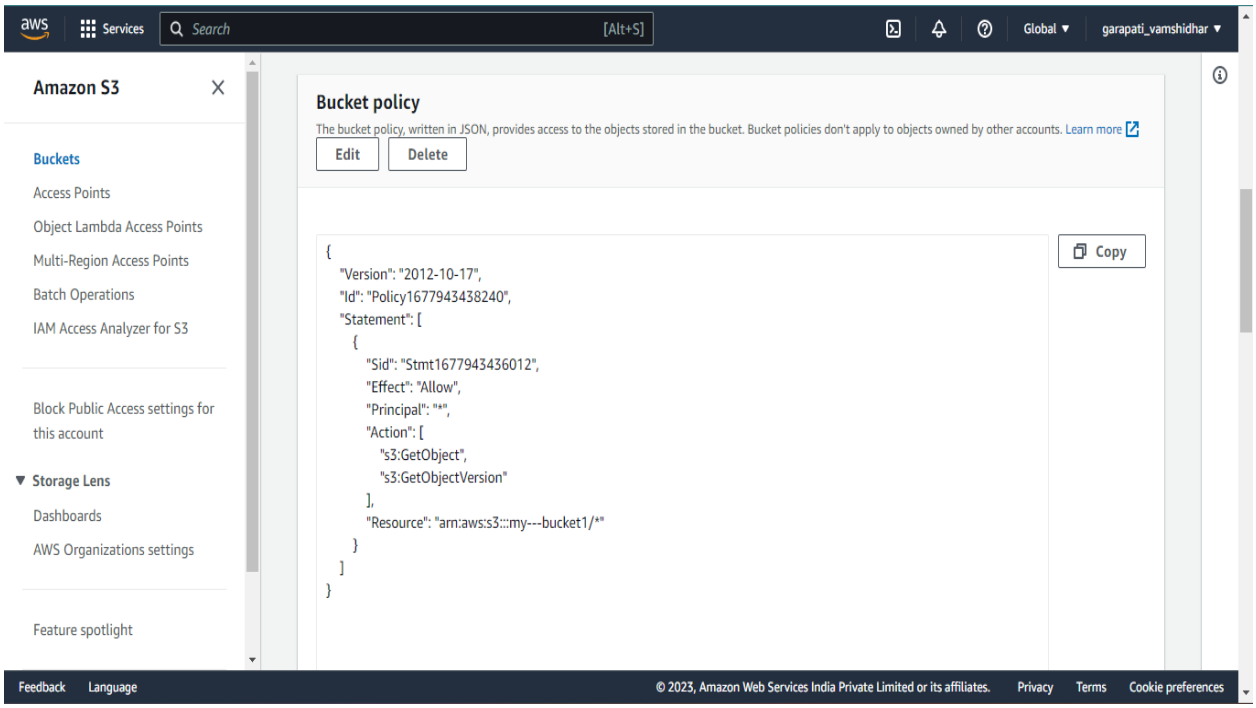


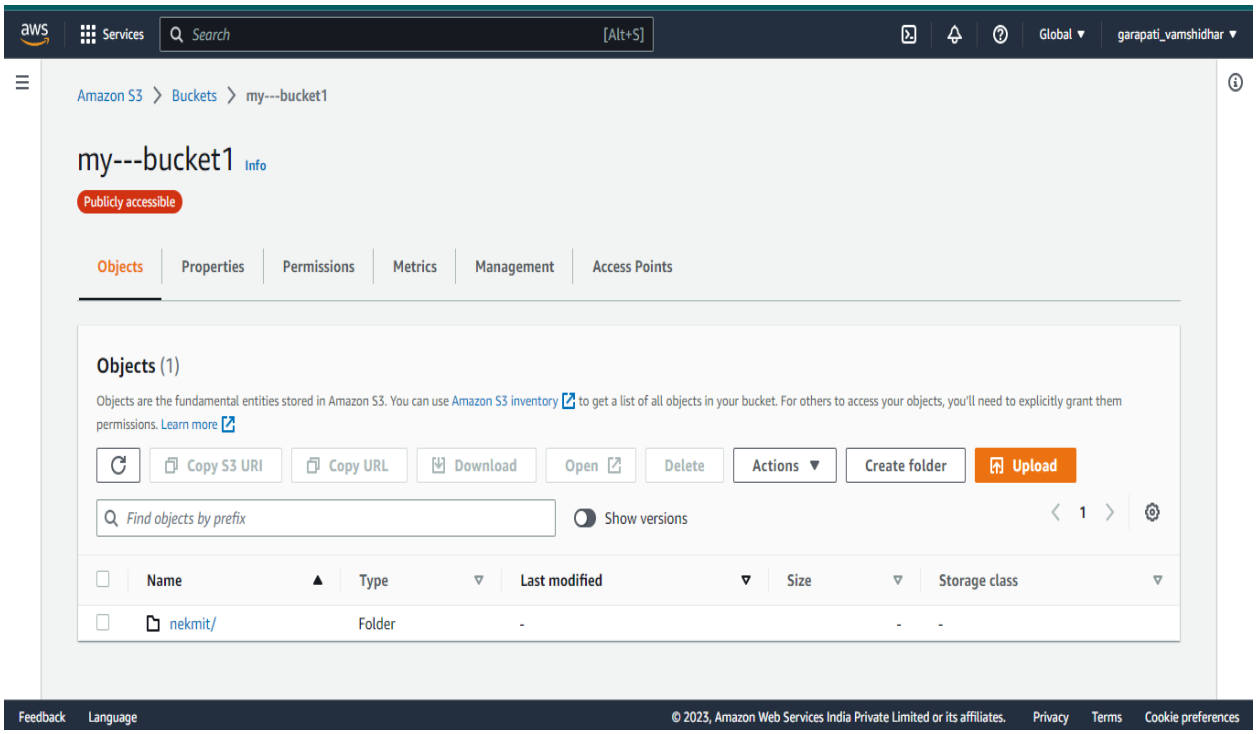


8.Now enable the **static web hosting**.

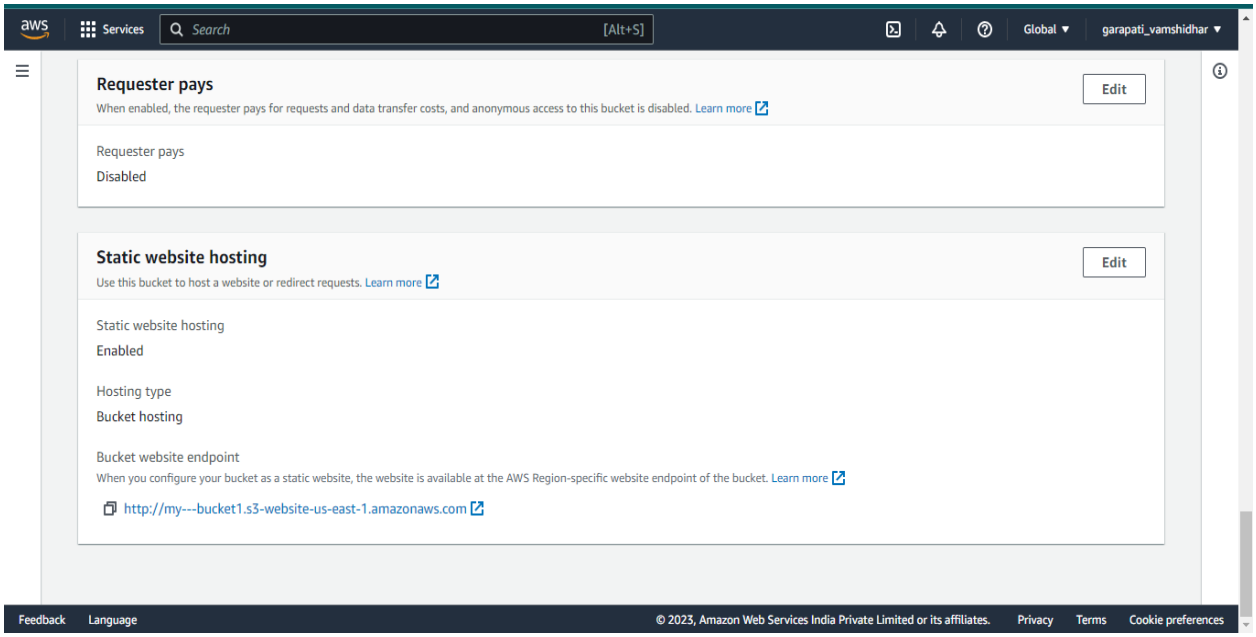


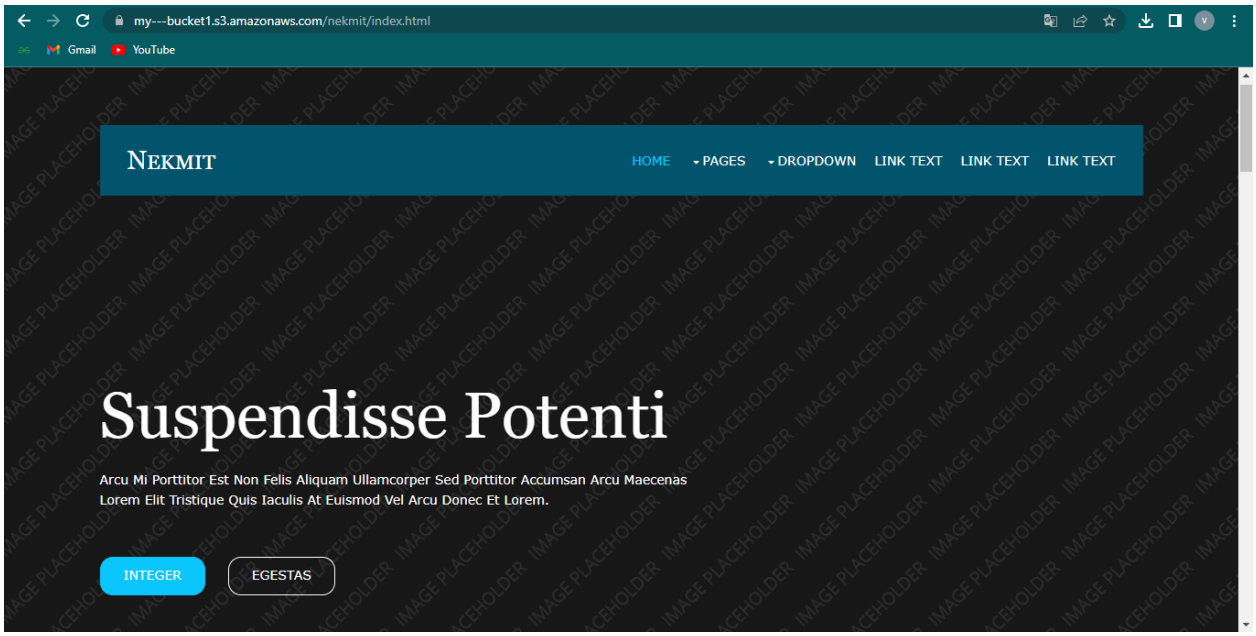
9.Generate the bucket policies by clicking on **generate policy**.





*In the static webhosting we cand find the URL. Now copy and paste the URL in the browser.





*The object reference url is

https://my---bucket1.s3.amazonaws.com/nekmit/index.html