AWS EC2 INSTANCE TASK

Name: Aakash Namala **Roll No: 20A91A0544**

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.

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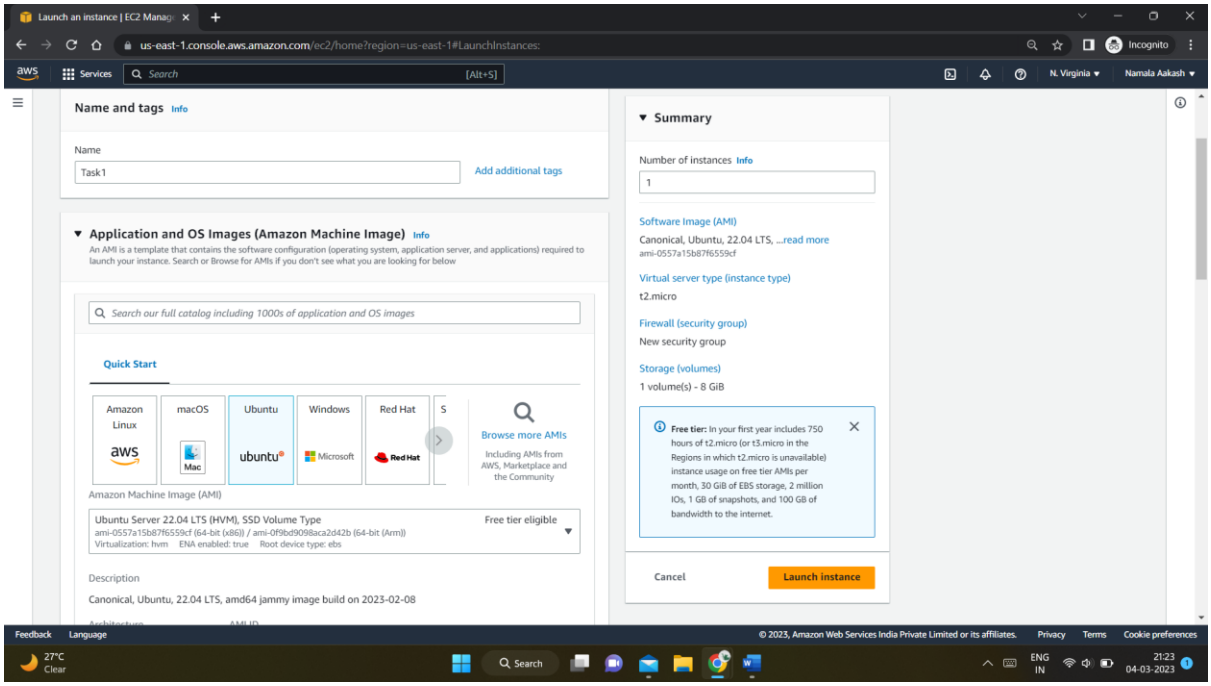
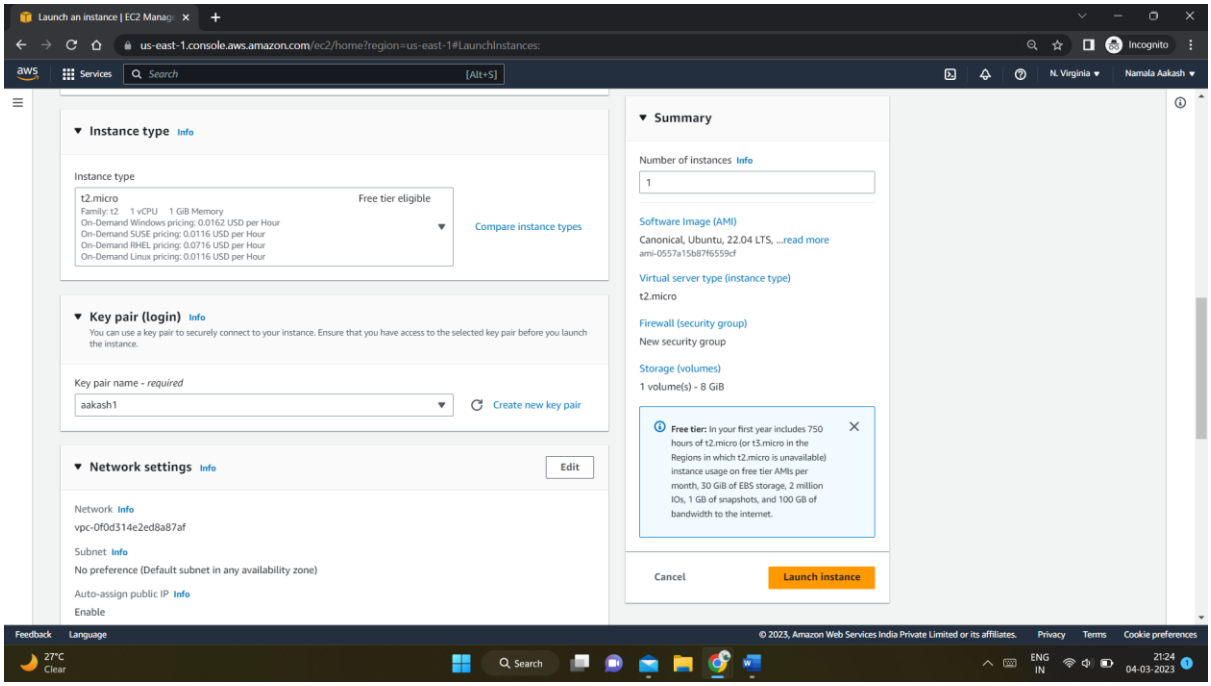
Step 1:
Go to launch the Instance. Add name of the instance and select the AMI for your instance. Here we are selecting Ubuntu AMI.



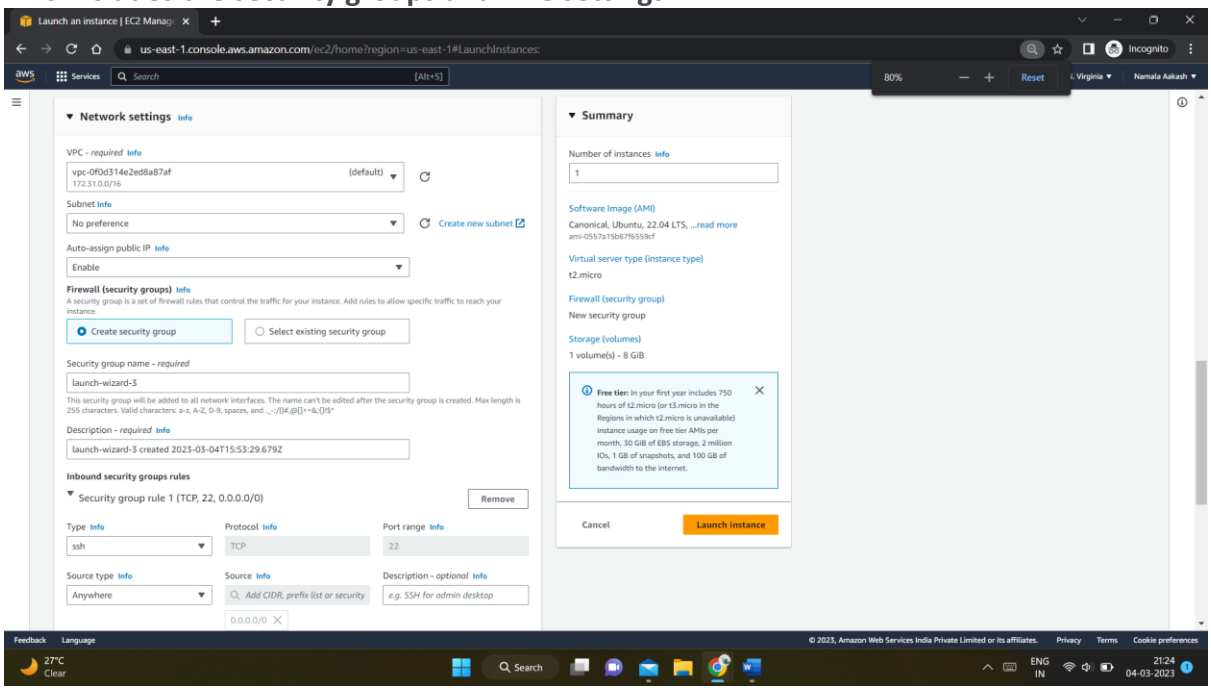
Step 2:
Select the instance type and key pair for your instance.
If you don't have a key, create a new key pair.



Step 3:

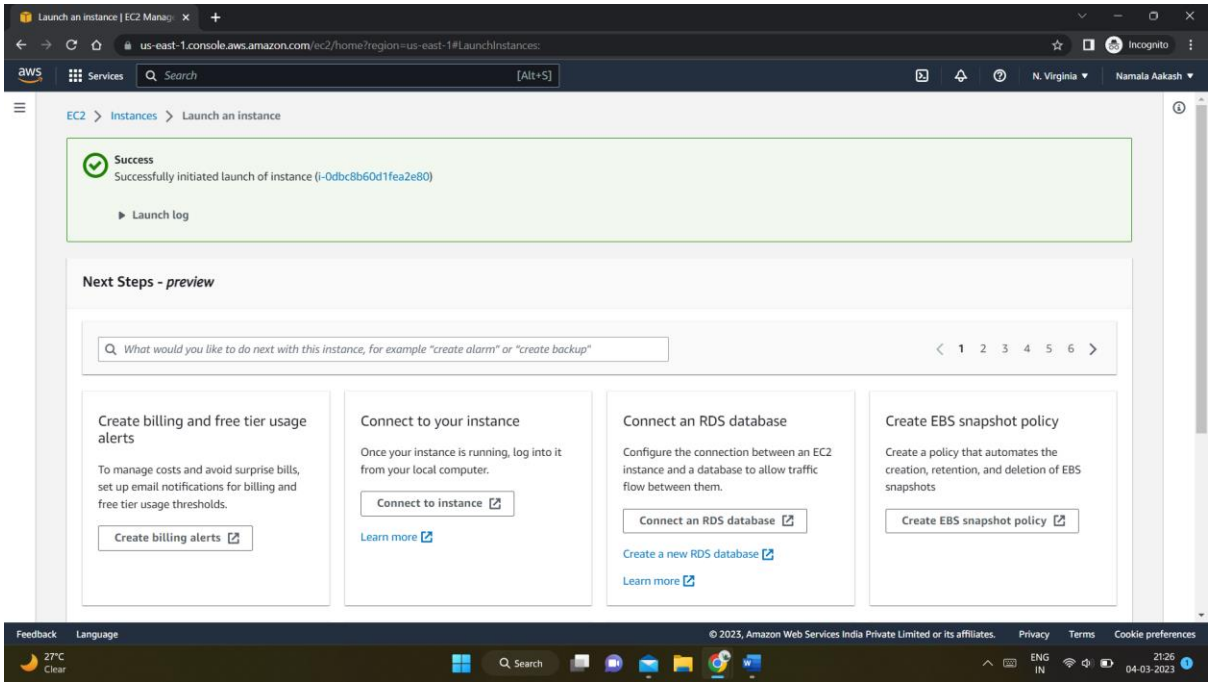
Configure the network settings.

This includes the security groups and VPC settings.

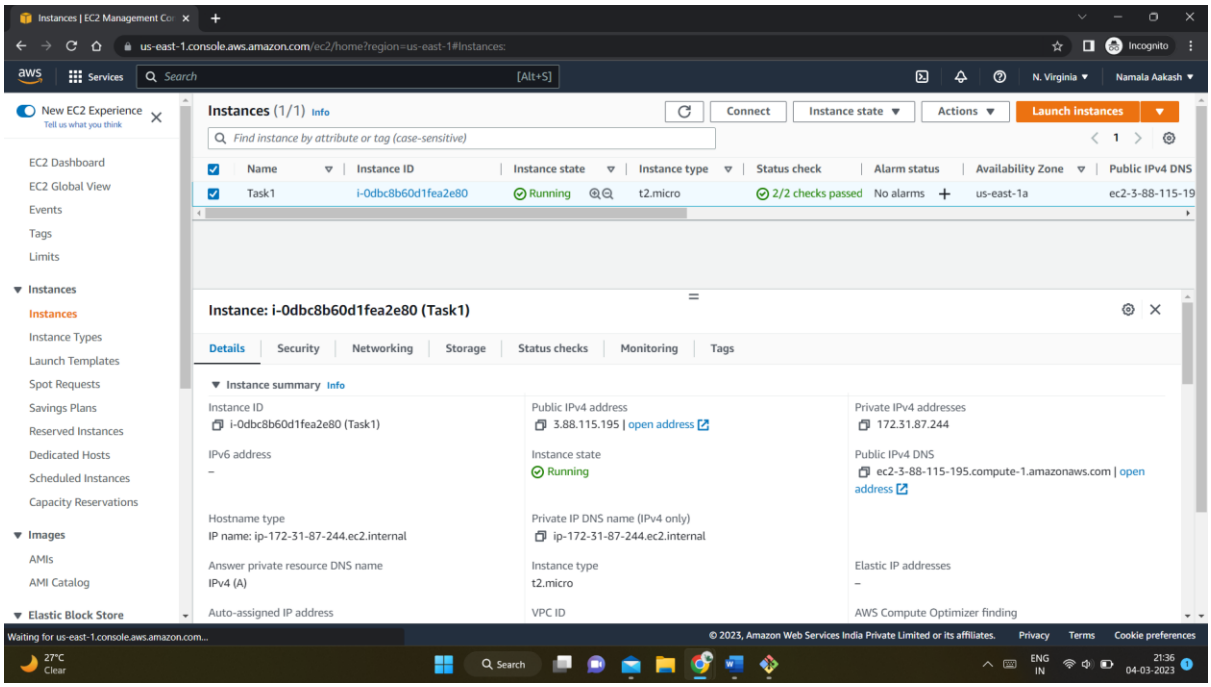


Step 4:

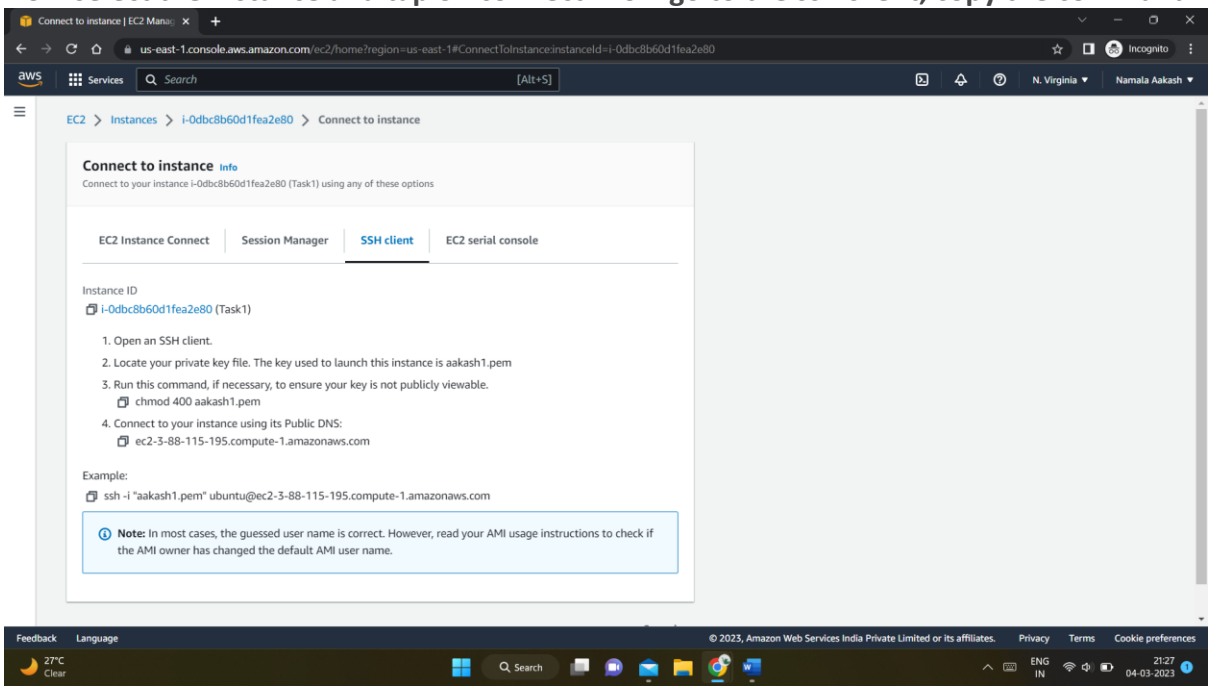
Now launch the instance.



Now view the instance in the instance dashboard.

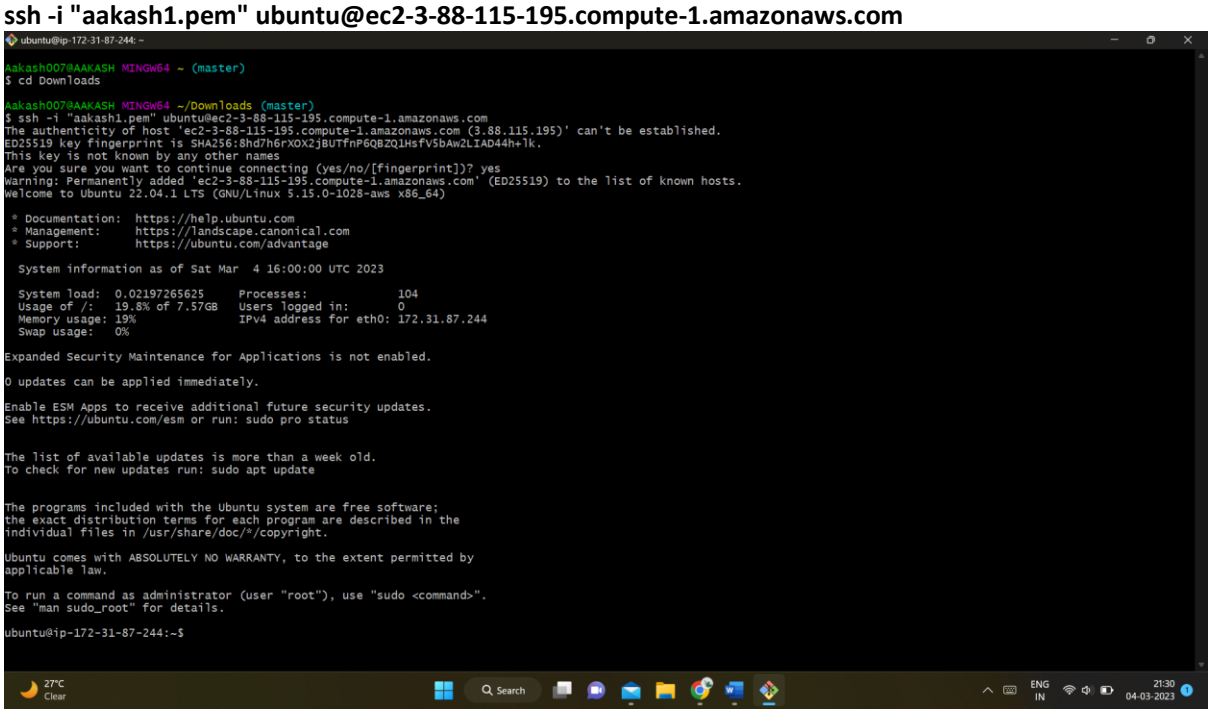


Now select the instance and tap on connect. Now go to the ssh client, copy the command



Now Open Git Bash and move to the directory that is having the pem. And past the command.

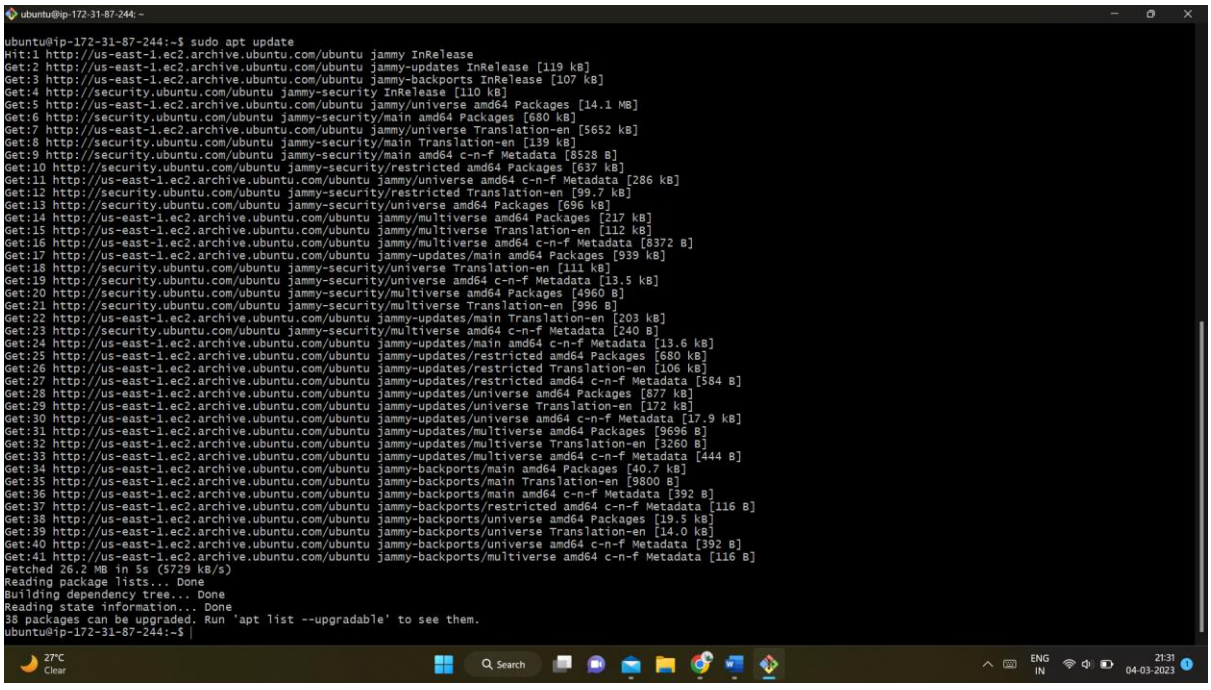
ssh -i "aakash1.pem" ubuntu@ec2-3-88-115-195.compute-1.amazonaws.com

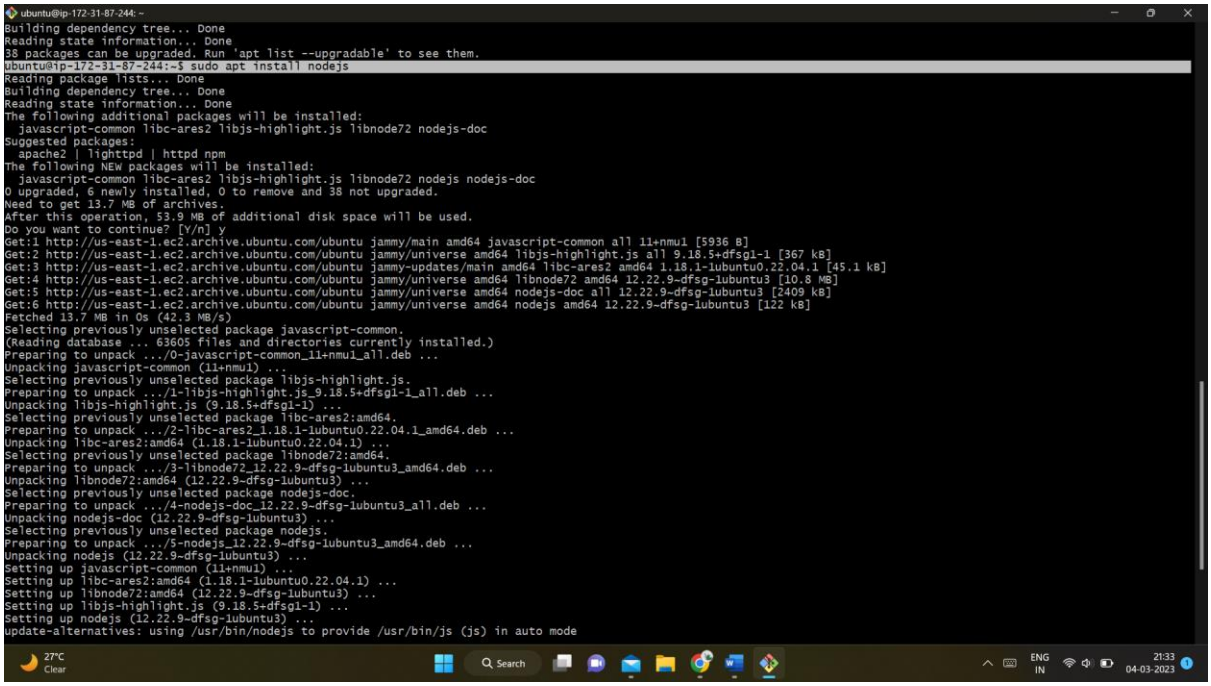


Now use the commands to install nodejs.

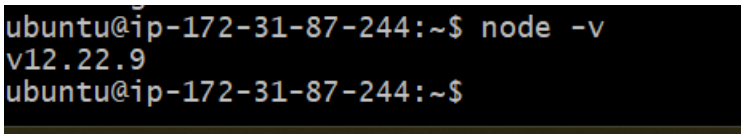
“sudo apt update”

“sudo apt install nodejs”

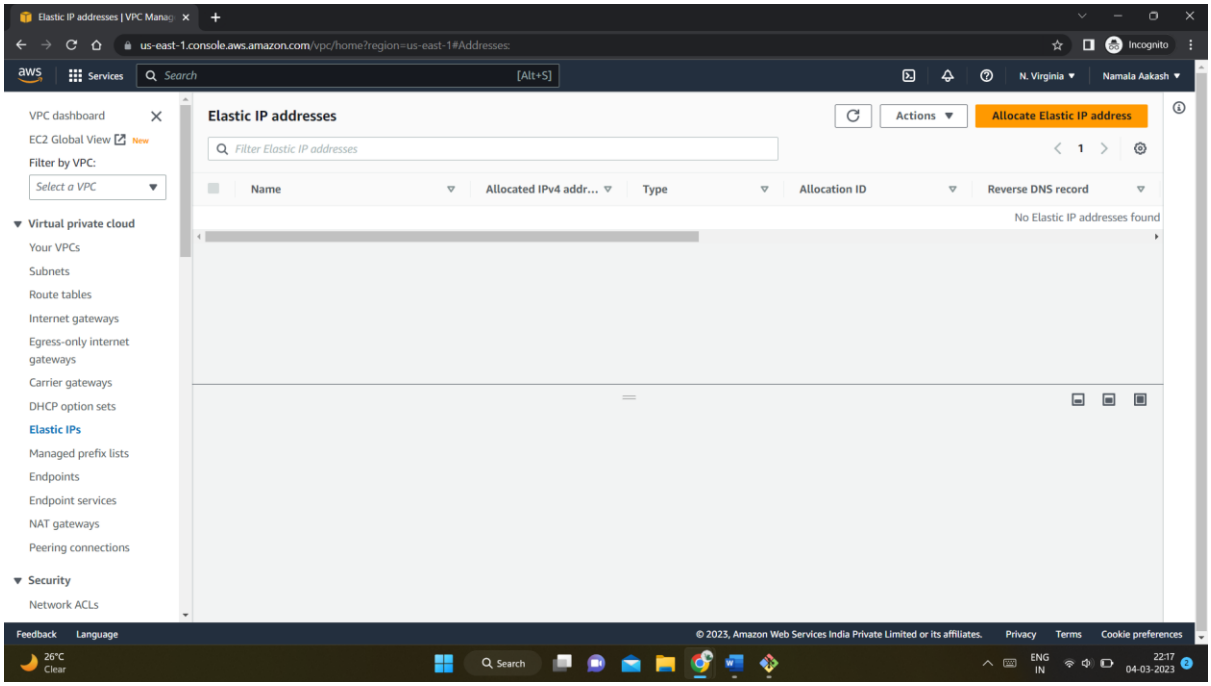


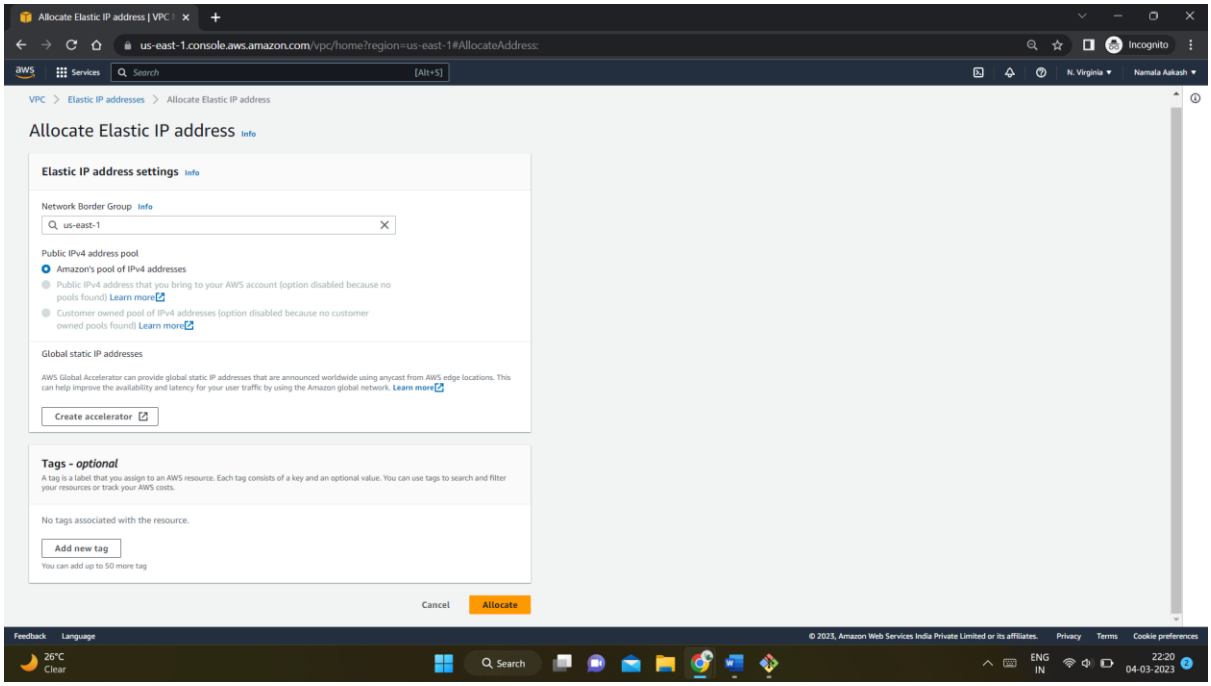


Now to check the version of the nodejs, use the command “node -v”.

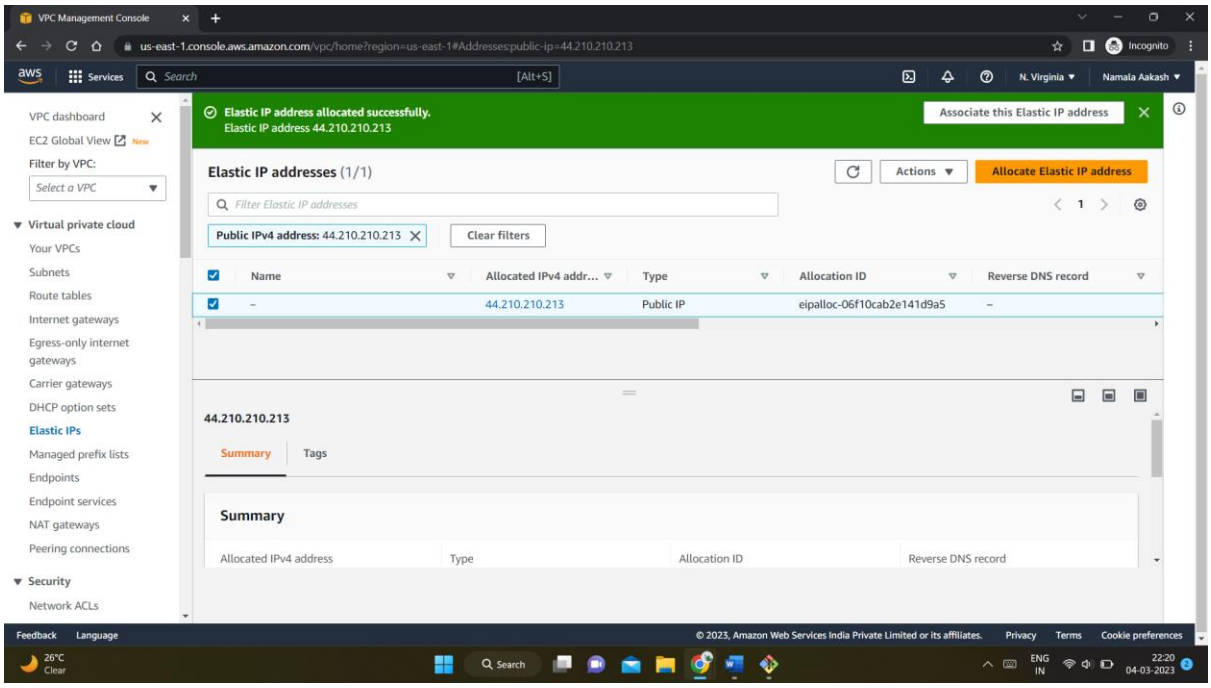


Now, to allocate IP address, go to elastic IP address

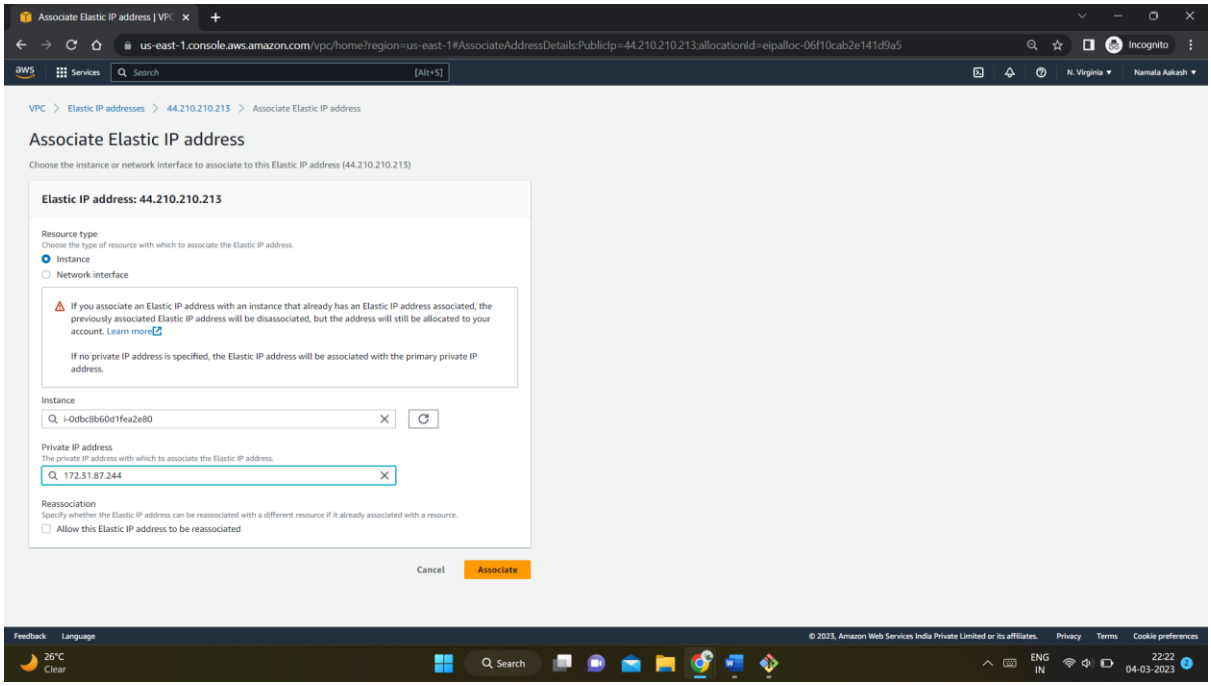


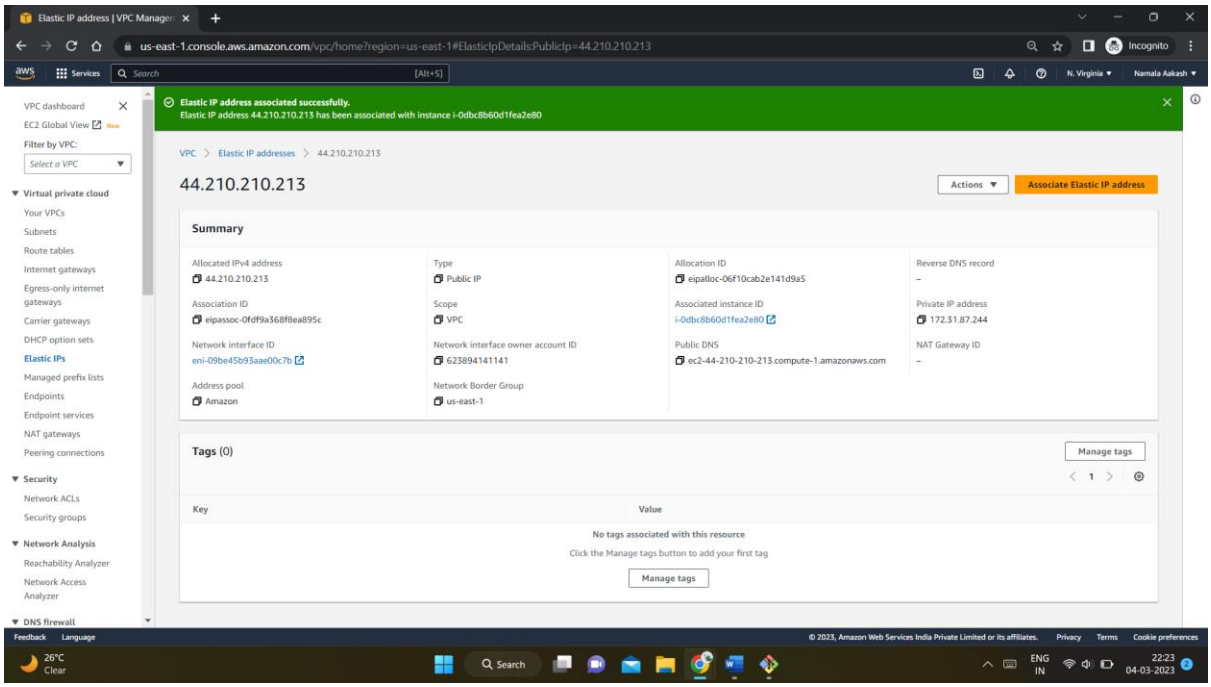


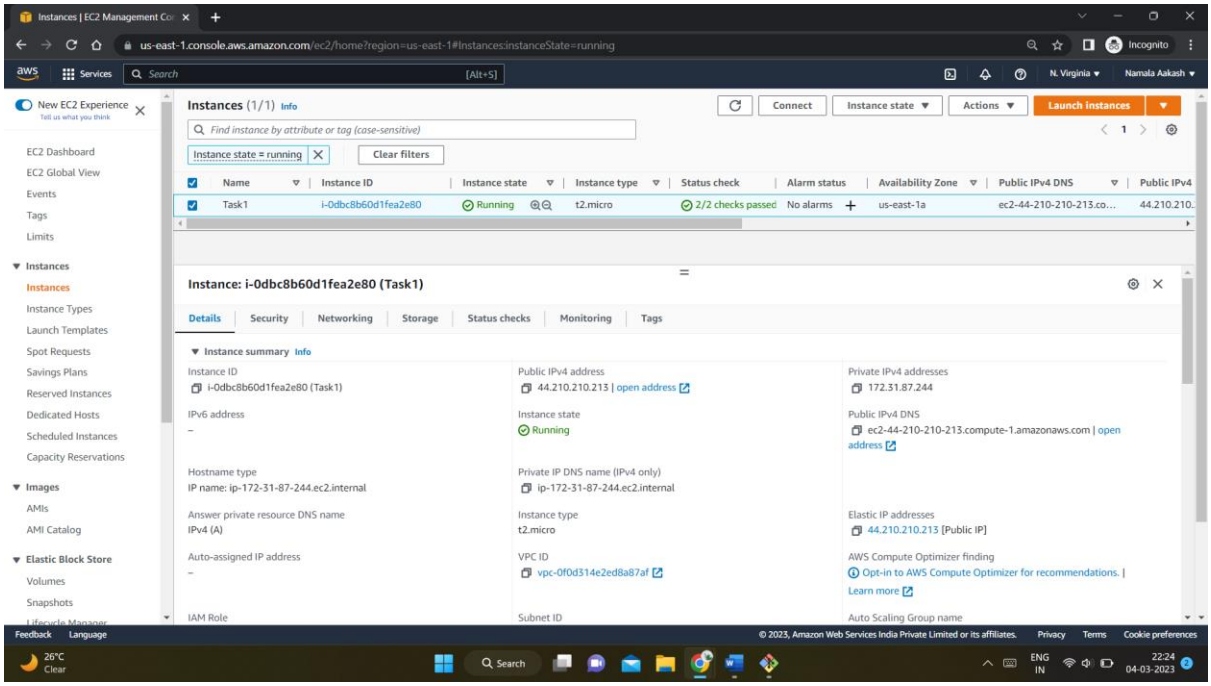
After creating the Elastic IP, view it in the dashboard.



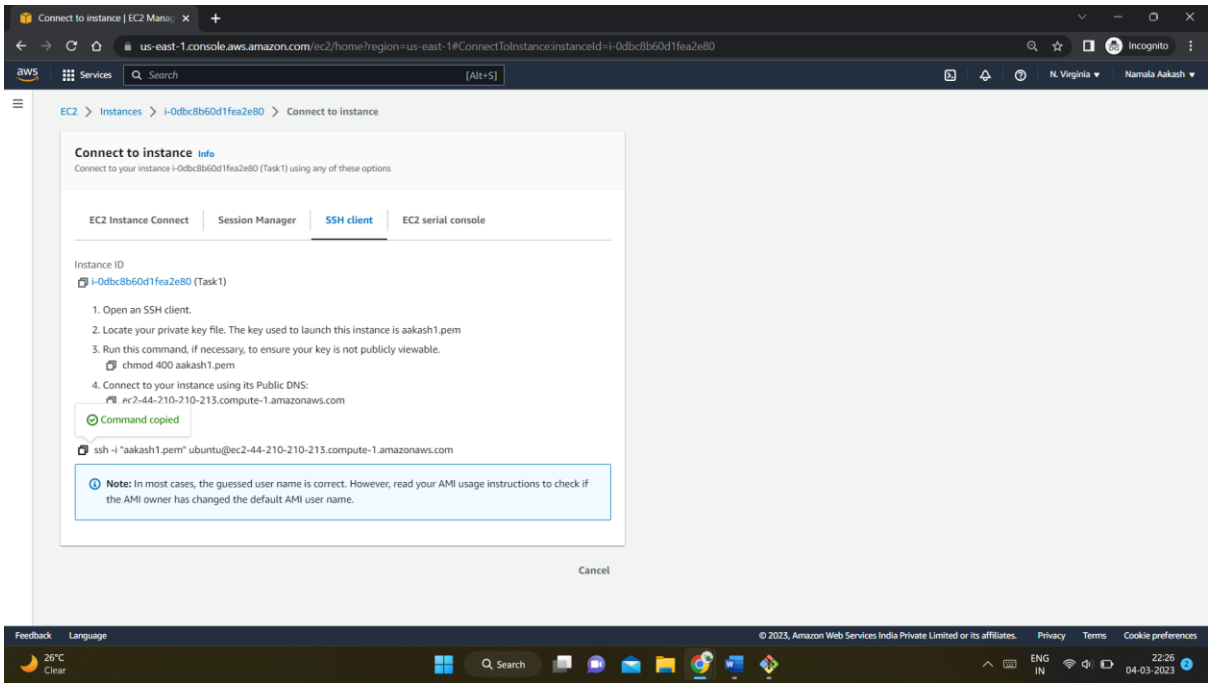
Connect the instance to the elastic IP.

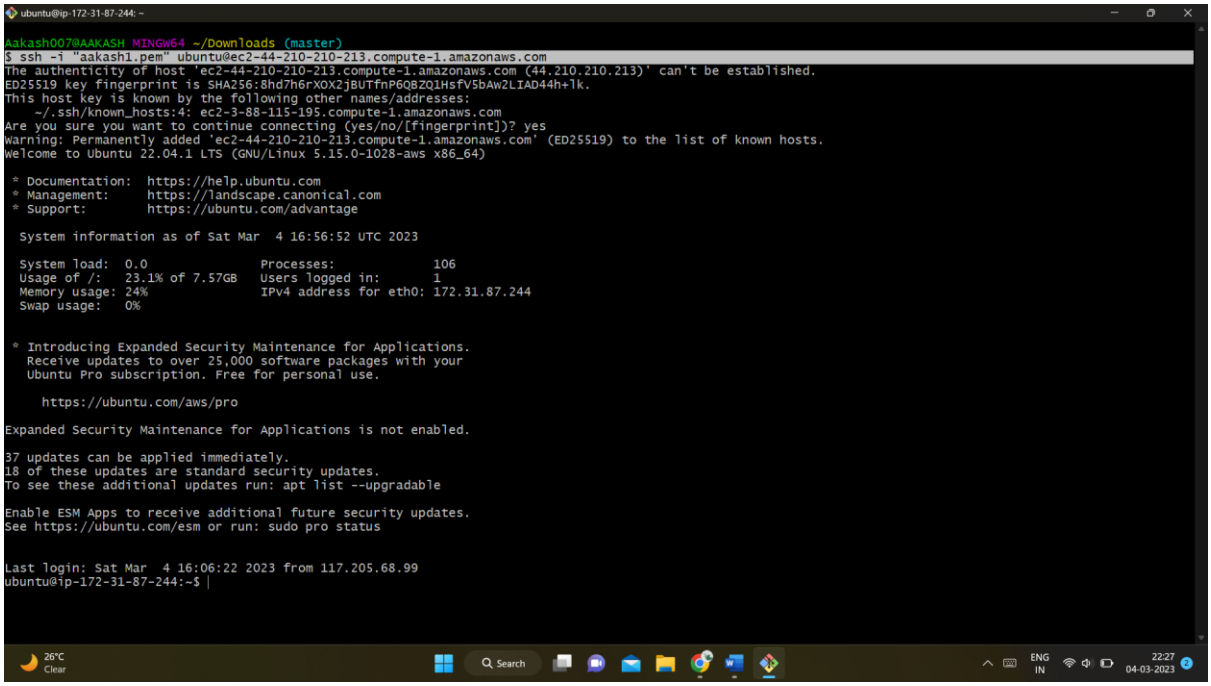






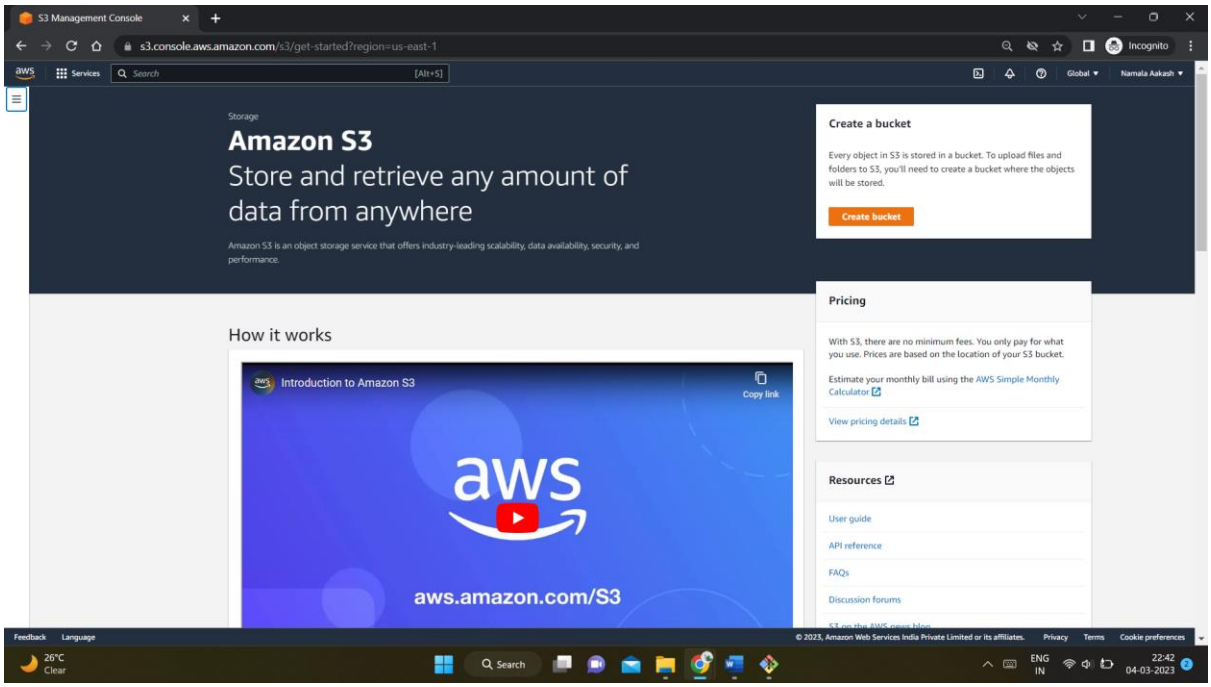
After creating and associating the Elastic IP,
Check the elastic Ip by connecting to the instance.



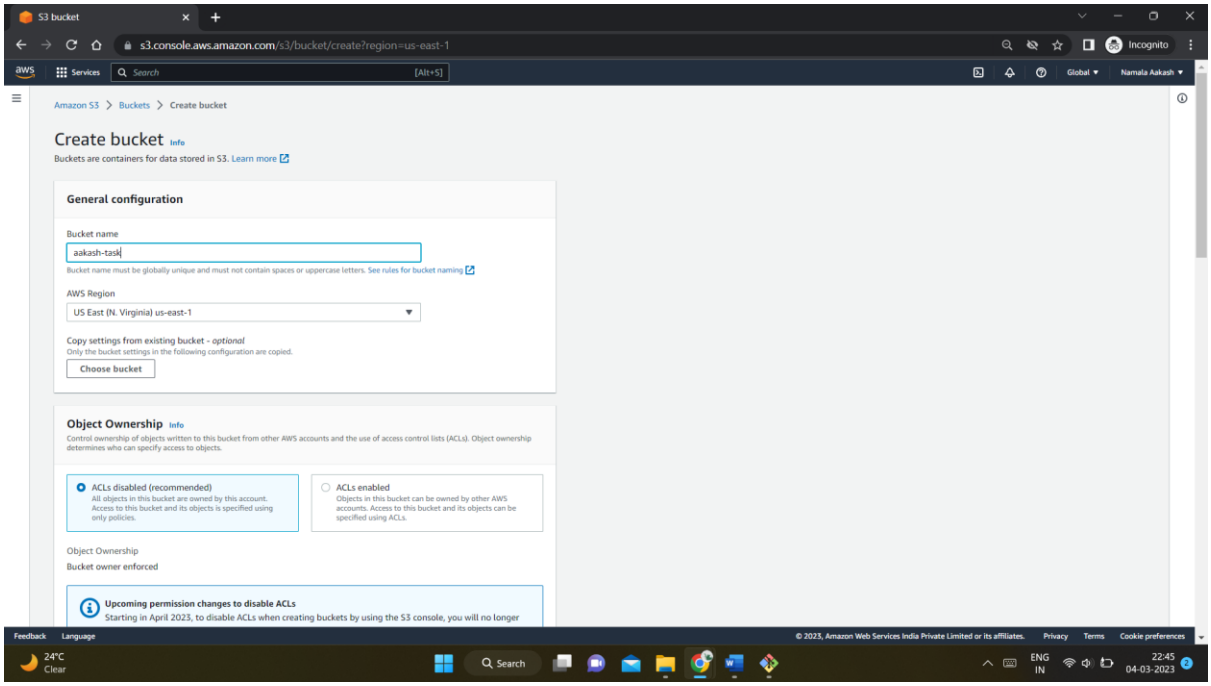


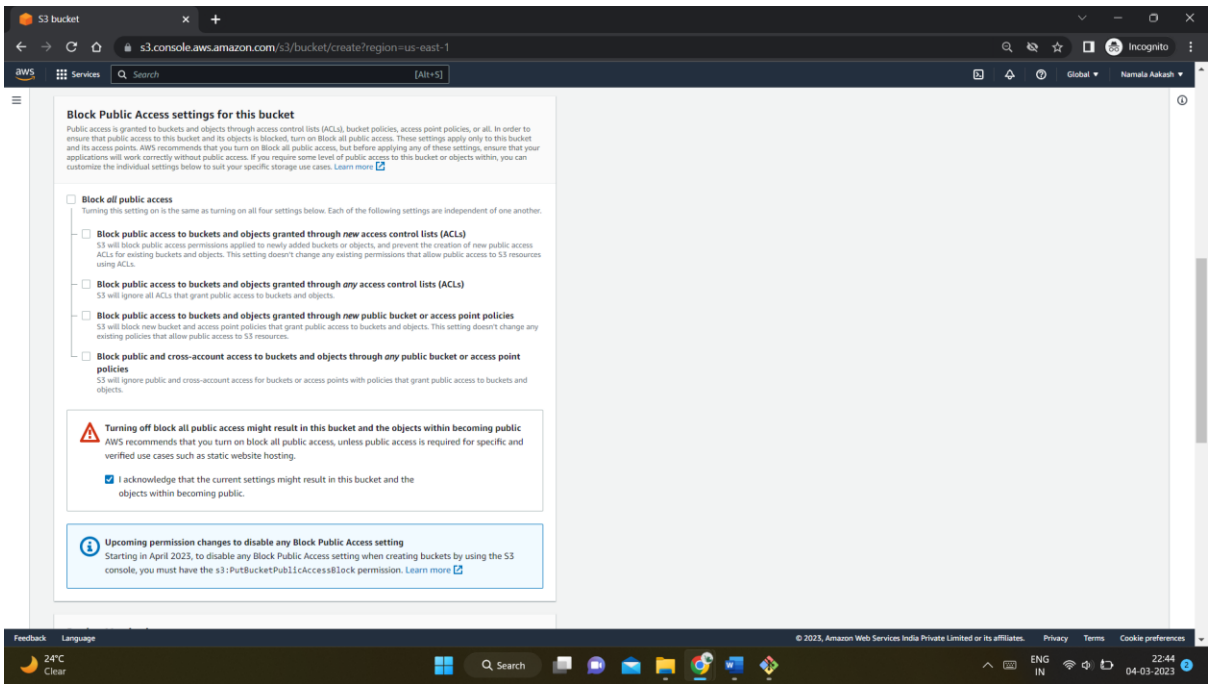
S3 BUCKET

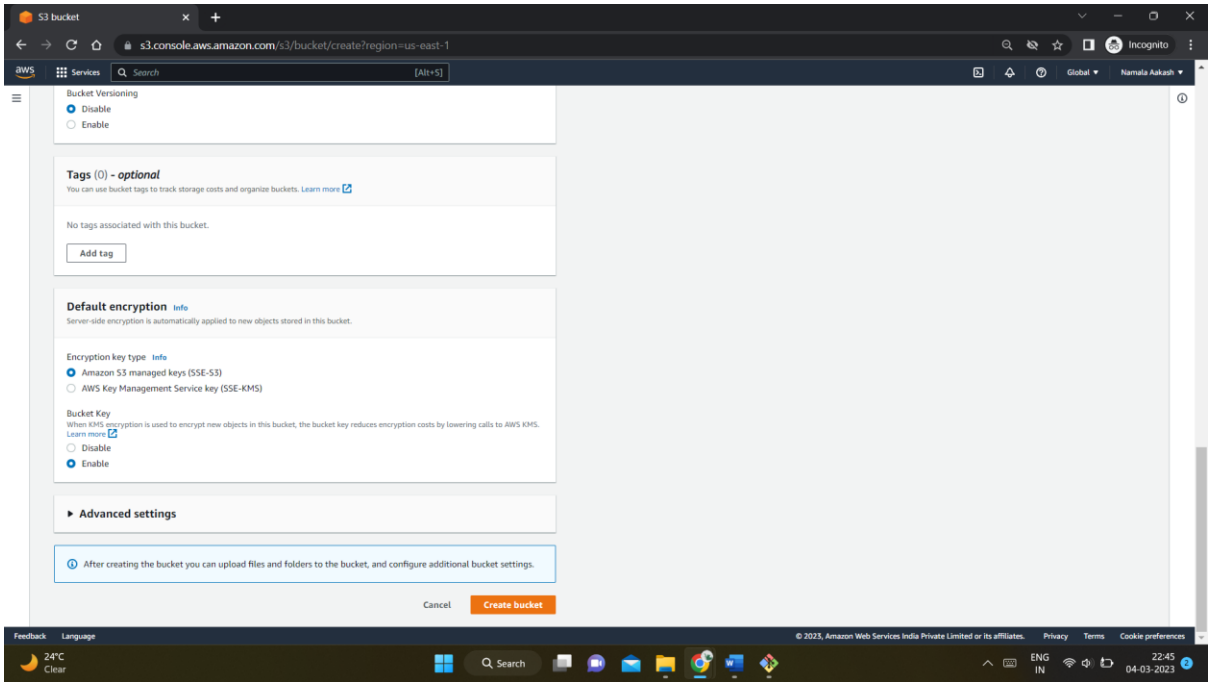
To create the s3 bucket, go s3 bucket and click on create bucket.



Now configure the bucket properties and settings.






S3 bucket
s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1
Incognito
Services
Search
[Alt+S]
Global
Namala Aakash
Bucket Versioning
Disable
Enable
Tags (0) - optional
You can use bucket tags to track storage costs and organize buckets. Learn more
No tags associated with this bucket.
Add tag
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
Feedback
Language
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Privacy
Terms
Cookie preferences
24°C
Clear
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ENG
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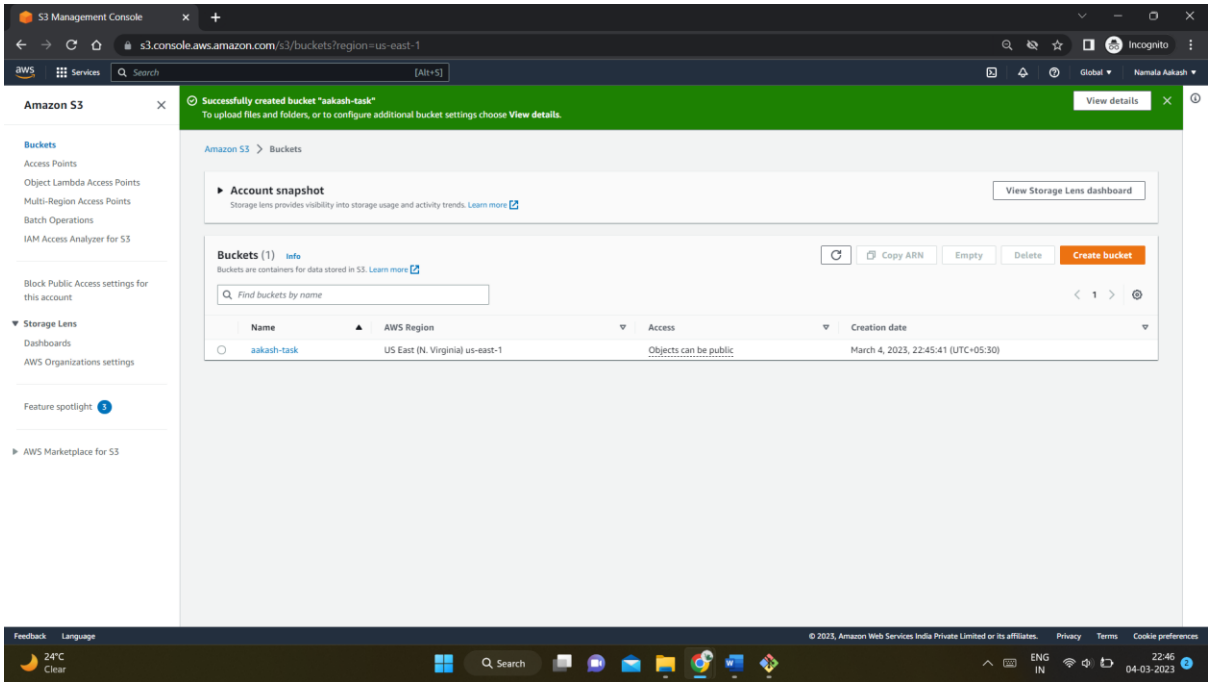
S3 Management Console
s3.console.aws.amazon.com/s3/buckets?region=us-east-1
Incognito
Services
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Global
Namala Aakash
Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight 3
AWS Marketplace for S3
Successfully created bucket "aakash-task"
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
Name
AWS Region
Access
Creation date
aakash-task
US East (N. Virginia) us-east-1
Objects can be public
March 4, 2023, 22:45:41 (UTC+05:30)
Feedback
Language
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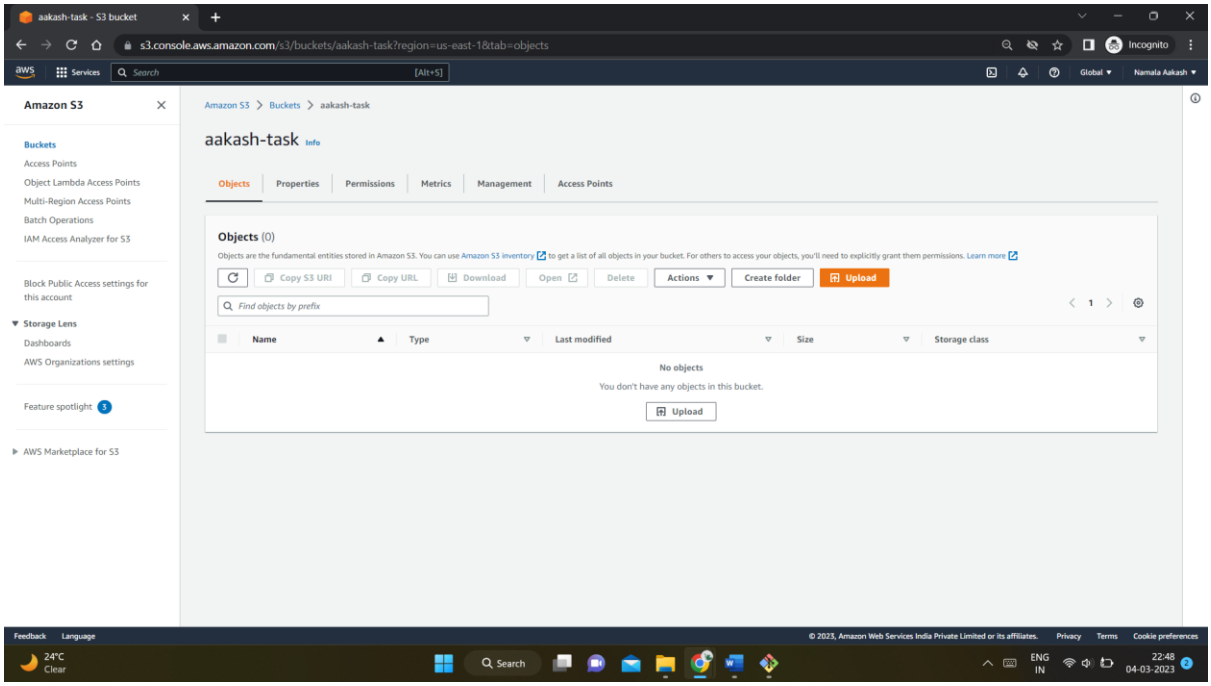
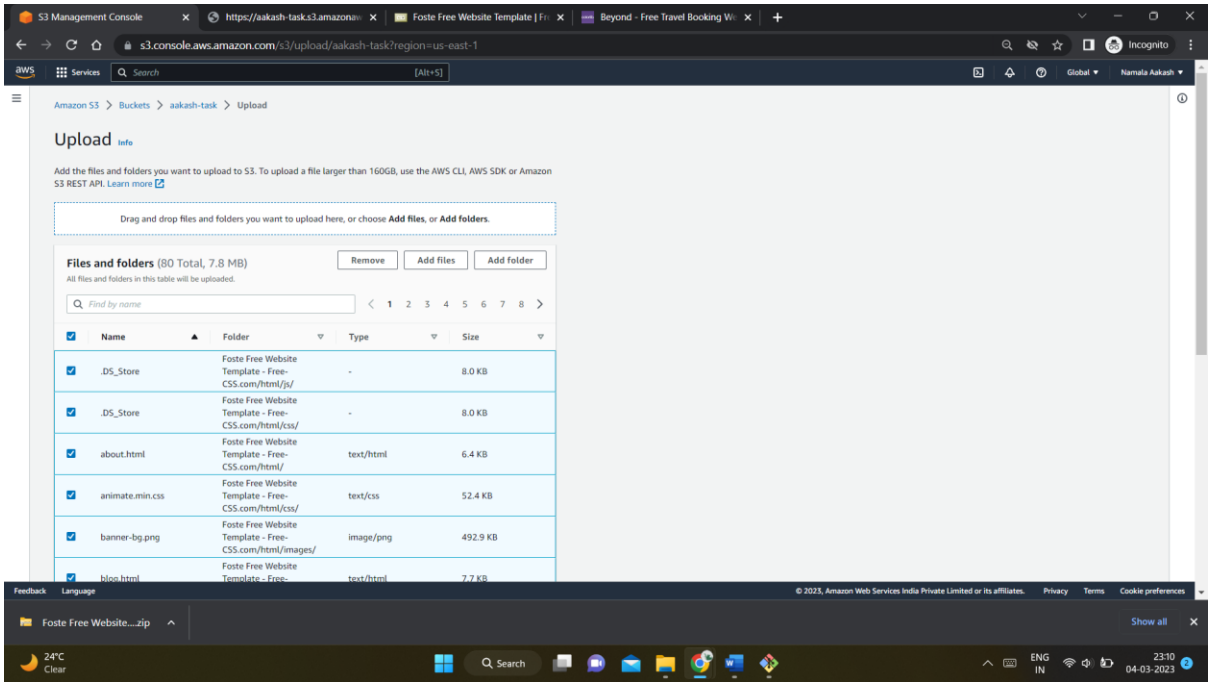
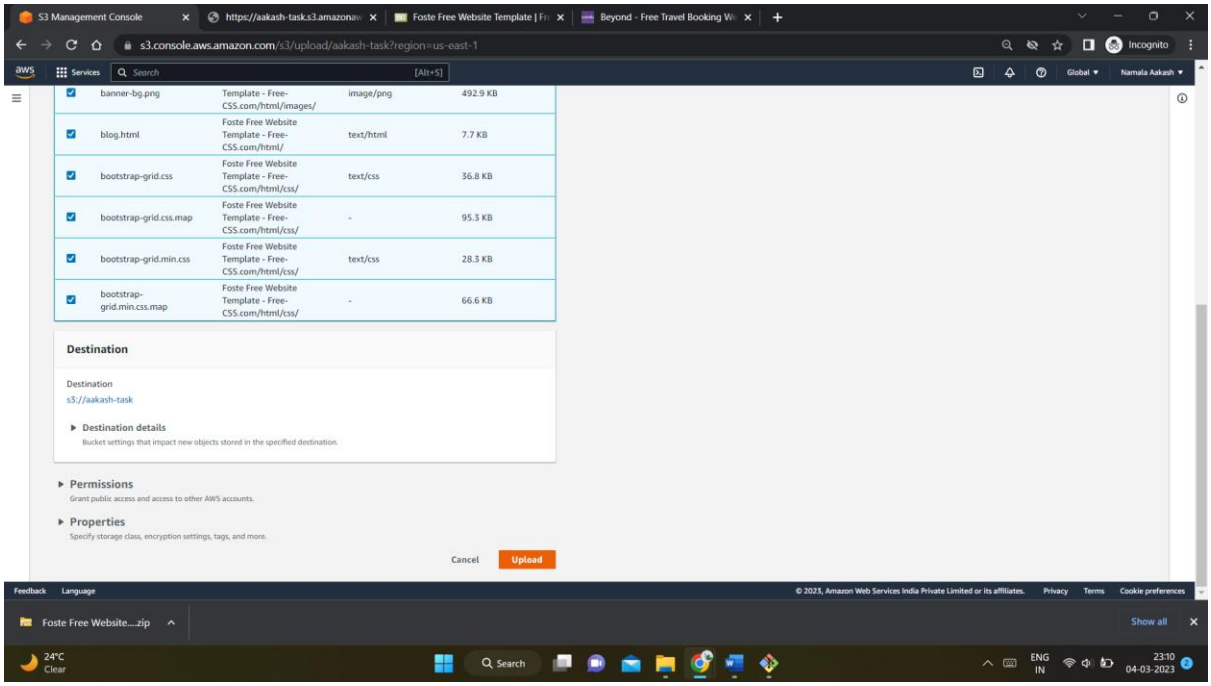
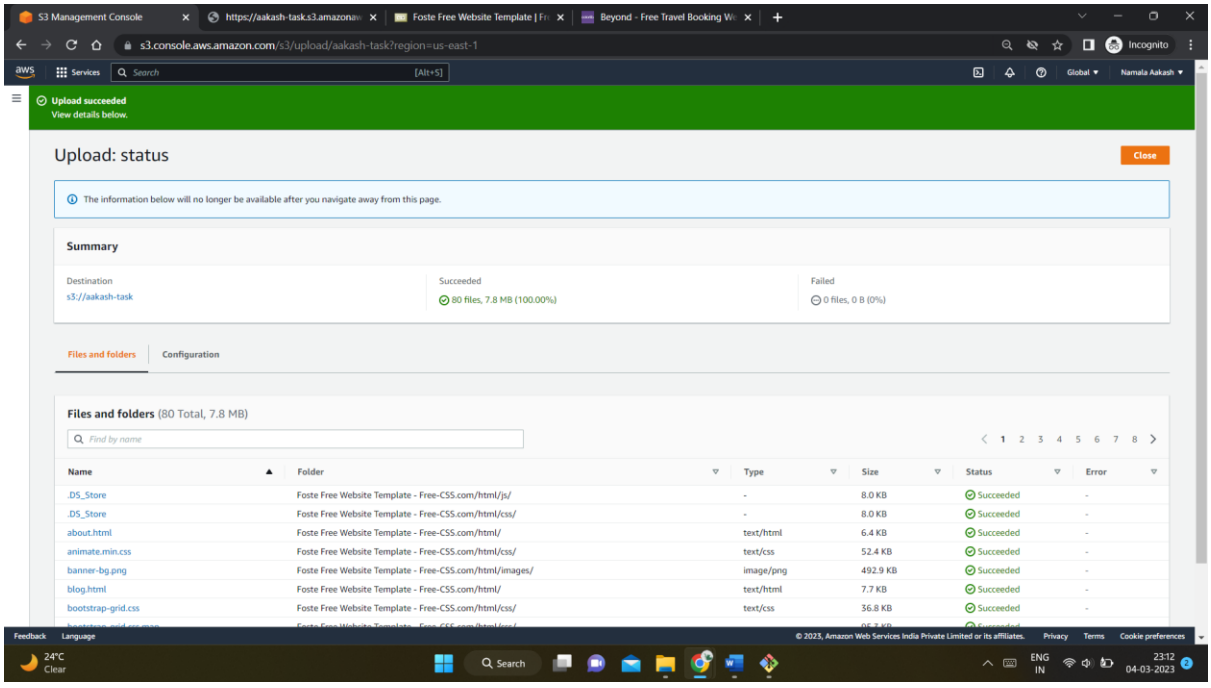
Now upload the objects into the bucket.



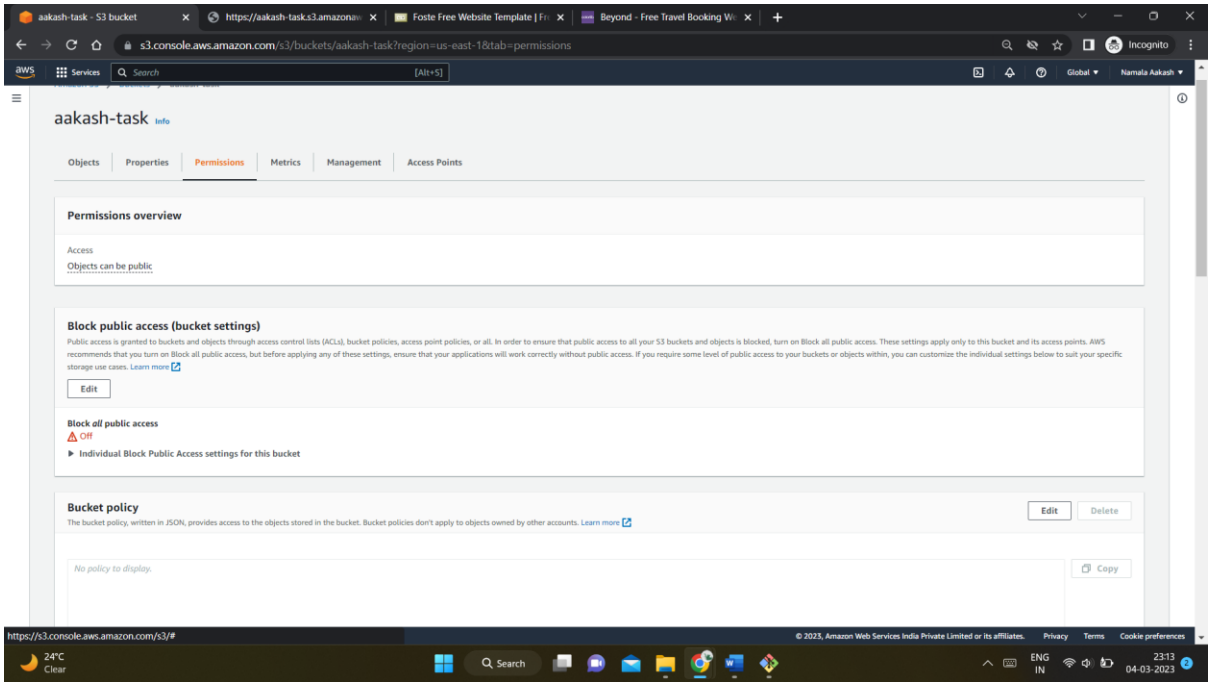
Upload the files. Drag the files you want to upload.







Objects are added to the bucket.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Global
Namala Aakash
aakash-task Info
Objects
Properties
Permissions
Metrics
Management
Access Points
Permissions overview
Access
Objects can be public
Block public access (bucket settings)
Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to all your S3 buckets and objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to your buckets or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more
Edit
Block all public access
Off
Individual Block Public Access settings for this bucket
Bucket policy
The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. Learn more
Edit
Delete
No policy to display.
Copy
https://s3.console.aws.amazon.com/s3/#
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Cookie preferences
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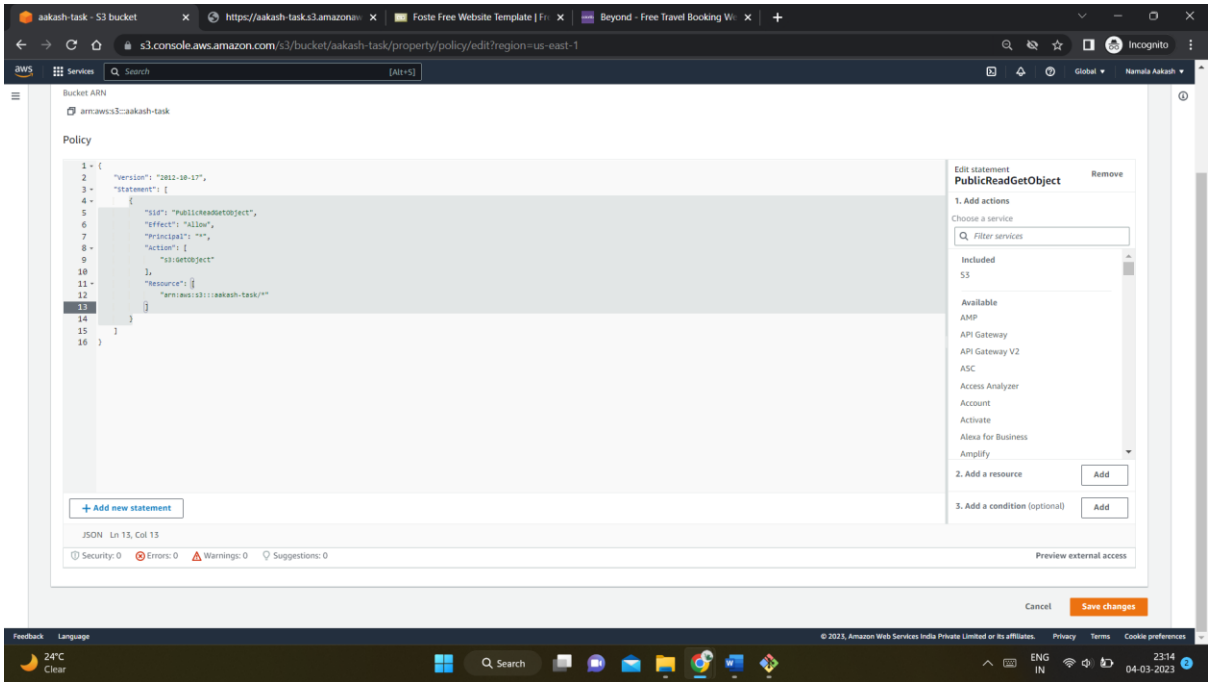
aakash-task - S3 bucket
https://aakash-task.s3.amazona
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s3.console.aws.amazon.com/s3/bucket/aakash-task/property/policy/edit?region=us-east-1
Incognito
Services
Search
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Global
Namala Aakash
Bucket ARN
arn:aws:s3:::aakash-task
Policy
{
"Version": "2012-10-17",
"Statement": [
{
"Sid": "PublicReadGetObject",
"Effect": "Allow",
"Principal": "*",
"Action": [
"s3:GetObject"
],
"Resource": [
"arn:aws:s3:::aakash-task/*"
]
}
]
}
Edit statement
PublicReadGetObject
Remove
1. Add actions
Choose a service
Filter services
Included
S3
Available
AMP
API Gateway
API Gateway V2
ASC
Access Analyzer
Account
Activate
Alexa for Business
Amplify
2. Add a resource
Add
3. Add a condition (optional)
Add
+ Add new statement
JSON Ln 13, Col 13
Security: 0
Errors: 0
Warnings: 0
Suggestions: 0
Preview external access
Cancel
Save changes
Feedback
Language
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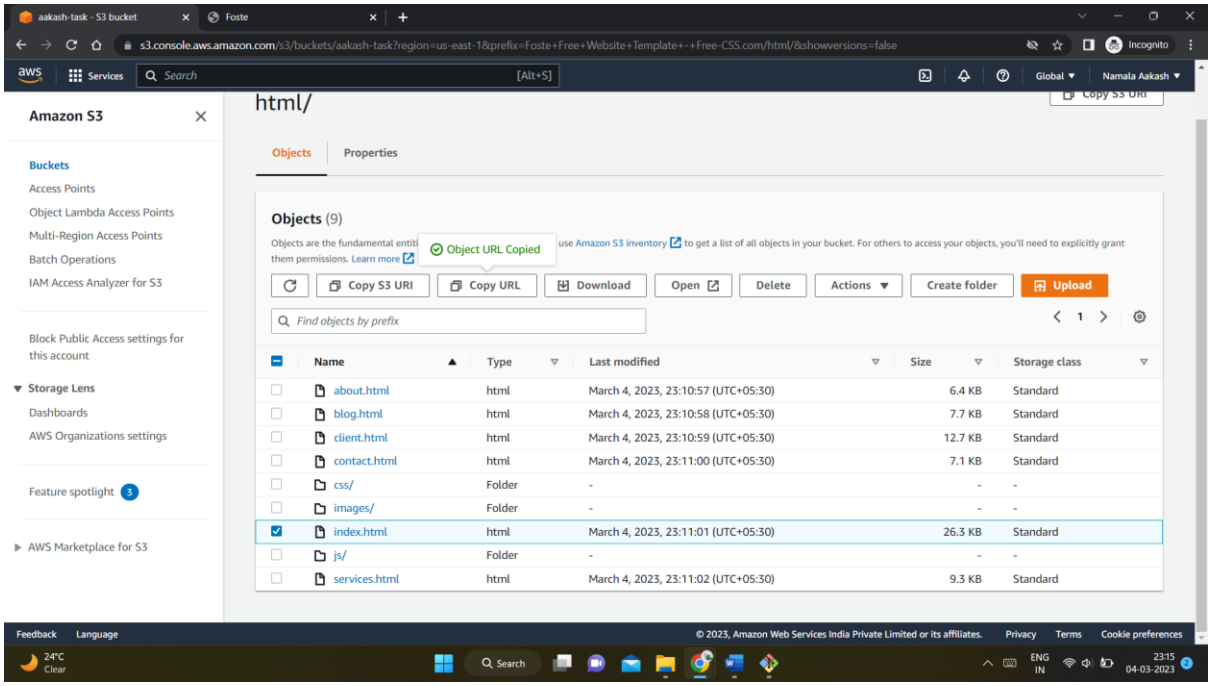
aakash-task - S3 bucket
Foste
s3.console.aws.amazon.com/s3/buckets/aakash-task?region=us-east-1&prefix=Foste+Free+Website+Template+-+Free-CSS.com/html/&showversions=false
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Namala Aakash
Amazon S3
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
AWS Marketplace for S3
html/
Objects
Properties
Objects (9)
Object URL Copied
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Name
Type
Last modified
Size
Storage class
about.html html March 4, 2023, 23:10:57 (UTC+05:30) 6.4 KB Standard
blog.html html March 4, 2023, 23:10:58 (UTC+05:30) 7.7 KB Standard
client.html html March 4, 2023, 23:10:59 (UTC+05:30) 12.7 KB Standard
contact.html html March 4, 2023, 23:11:00 (UTC+05:30) 7.1 KB Standard
css/ Folder
images/ Folder
index.html html March 4, 2023, 23:11:01 (UTC+05:30) 26.3 KB Standard
js/ Folder
services.html html March 4, 2023, 23:11:02 (UTC+05:30) 9.3 KB Standard
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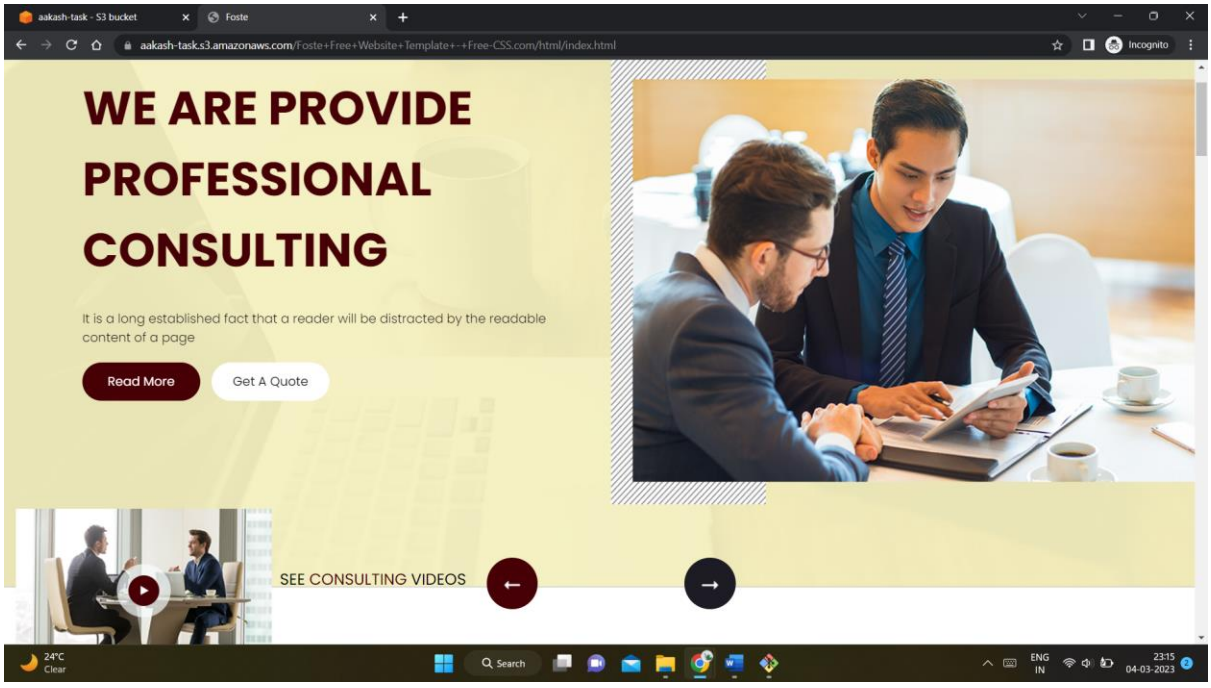
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