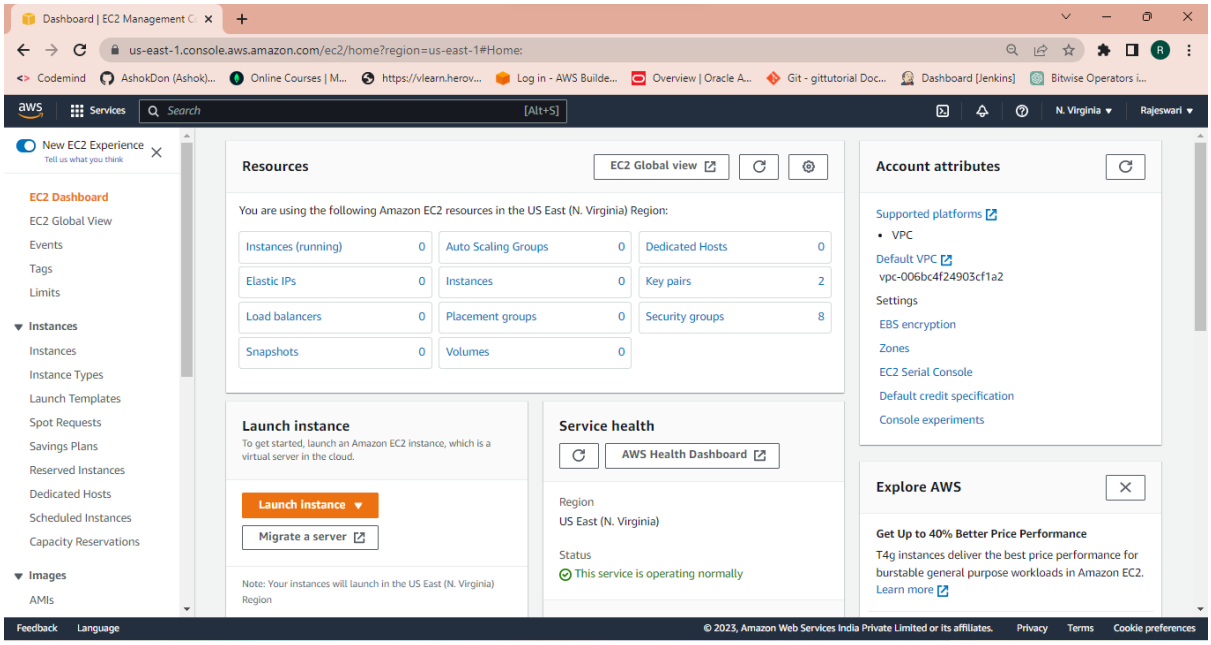
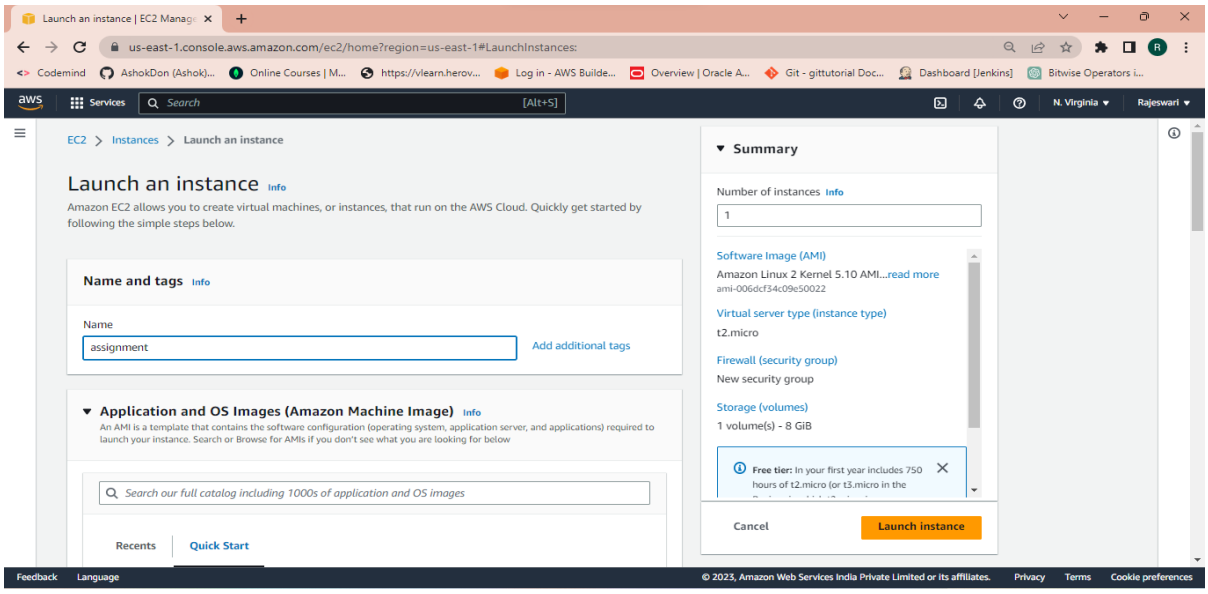
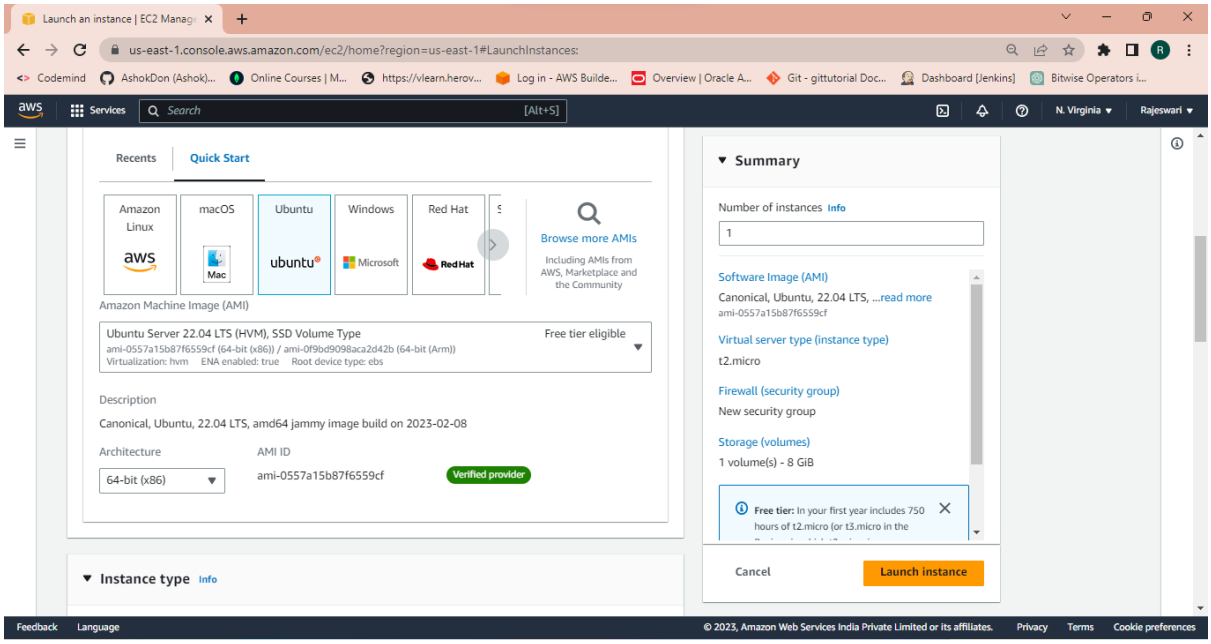
ASSIGNMENT -5

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.
Process:

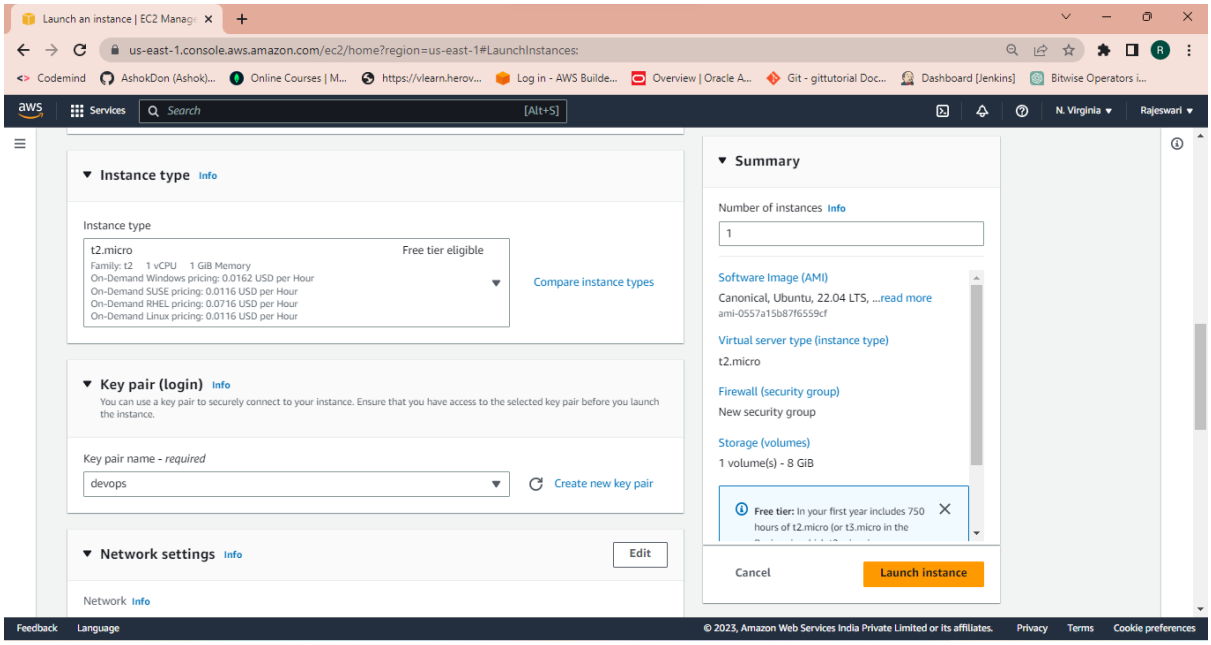
Step 1: Create an EC2 instance using ubuntu AMI



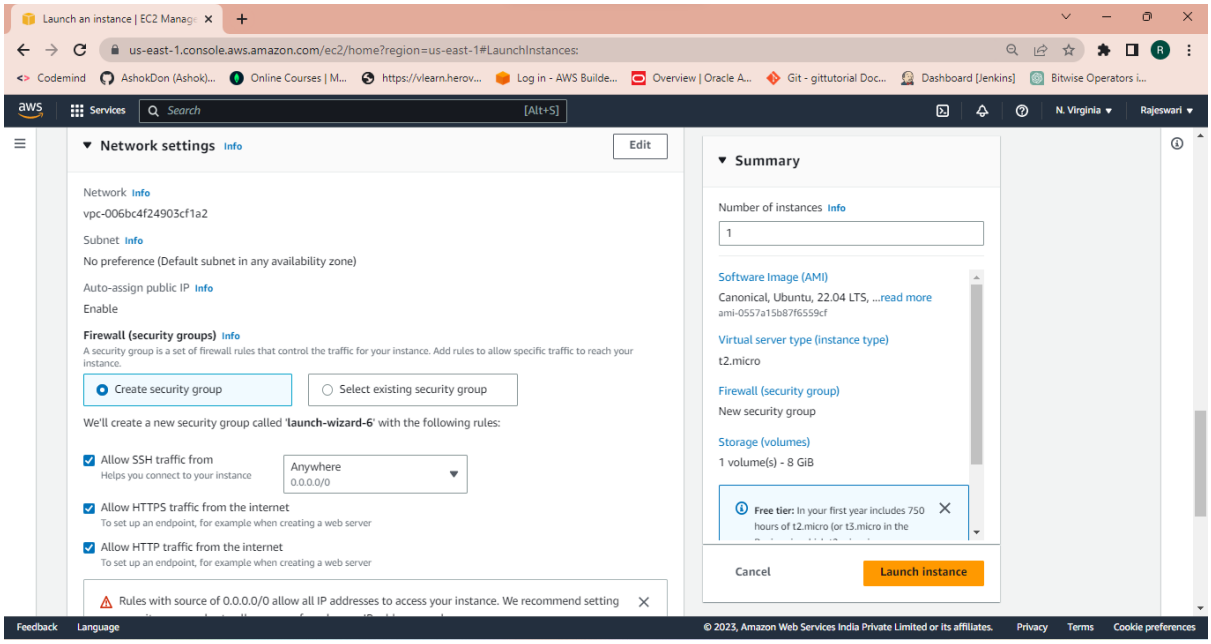




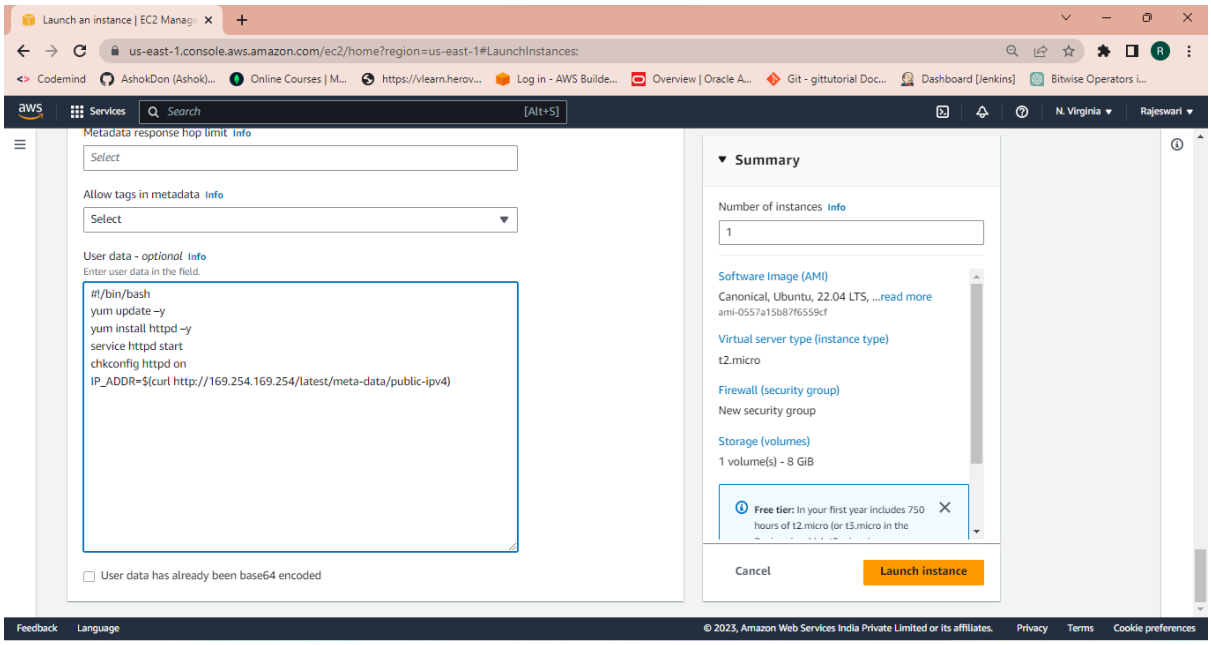
Step 2: Choose instance type and key pair

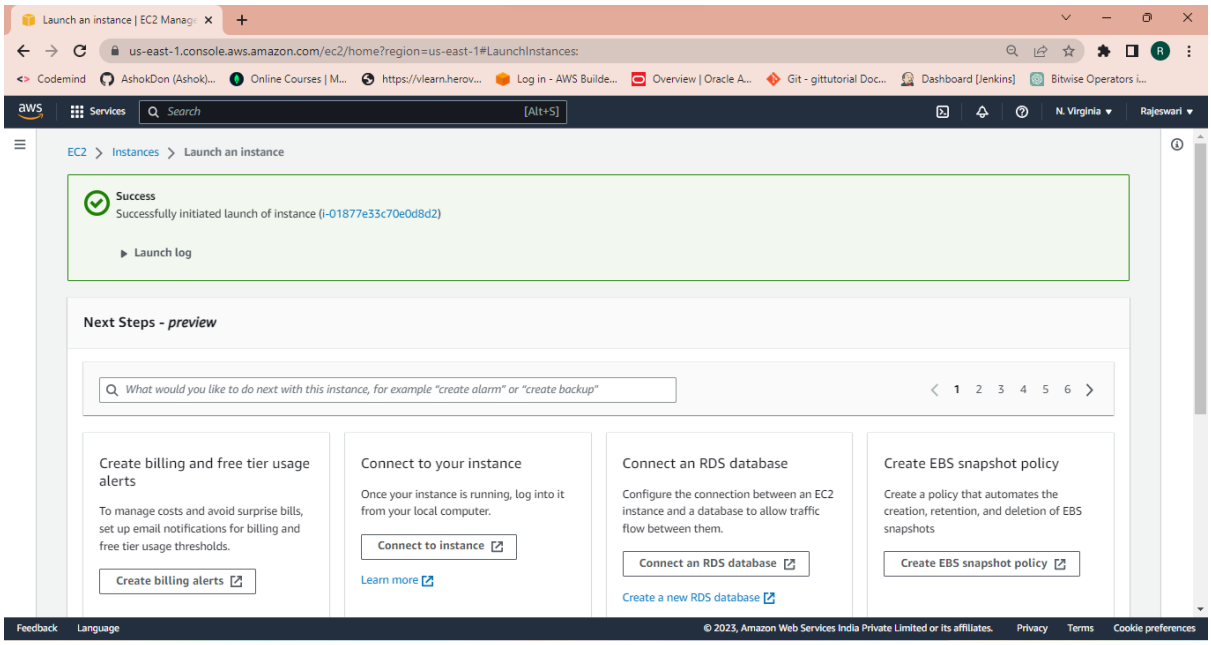


Step 3: Creating a security group

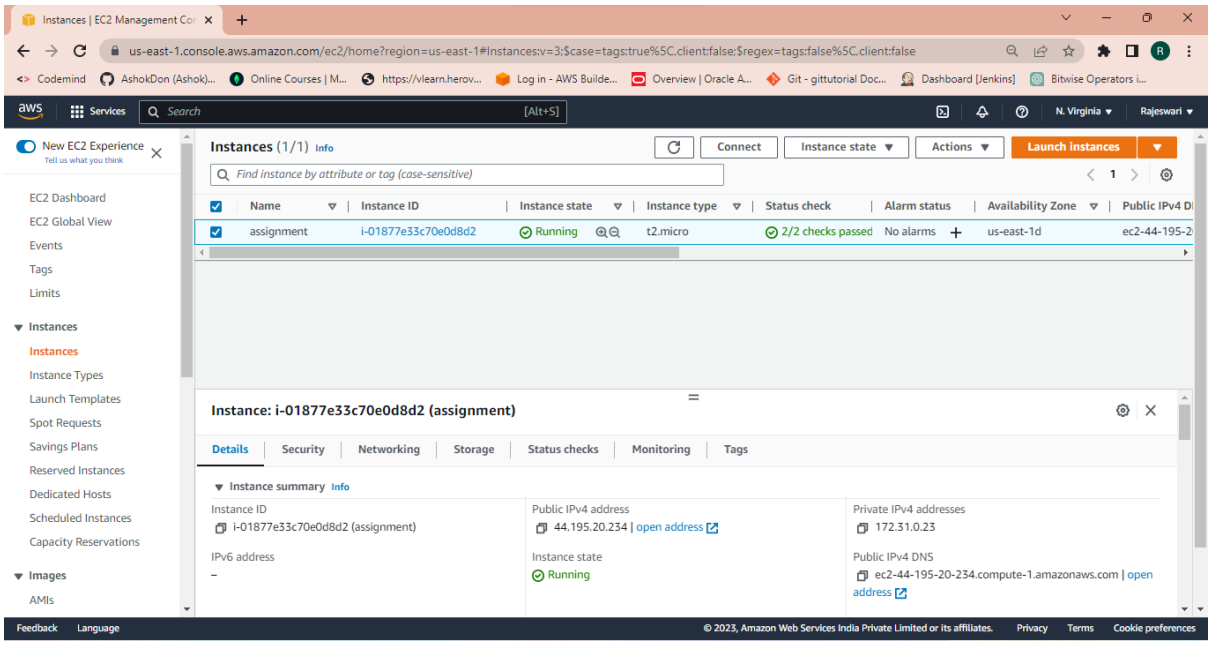


Step 4: Adding the User data in additional settings and launch instance.

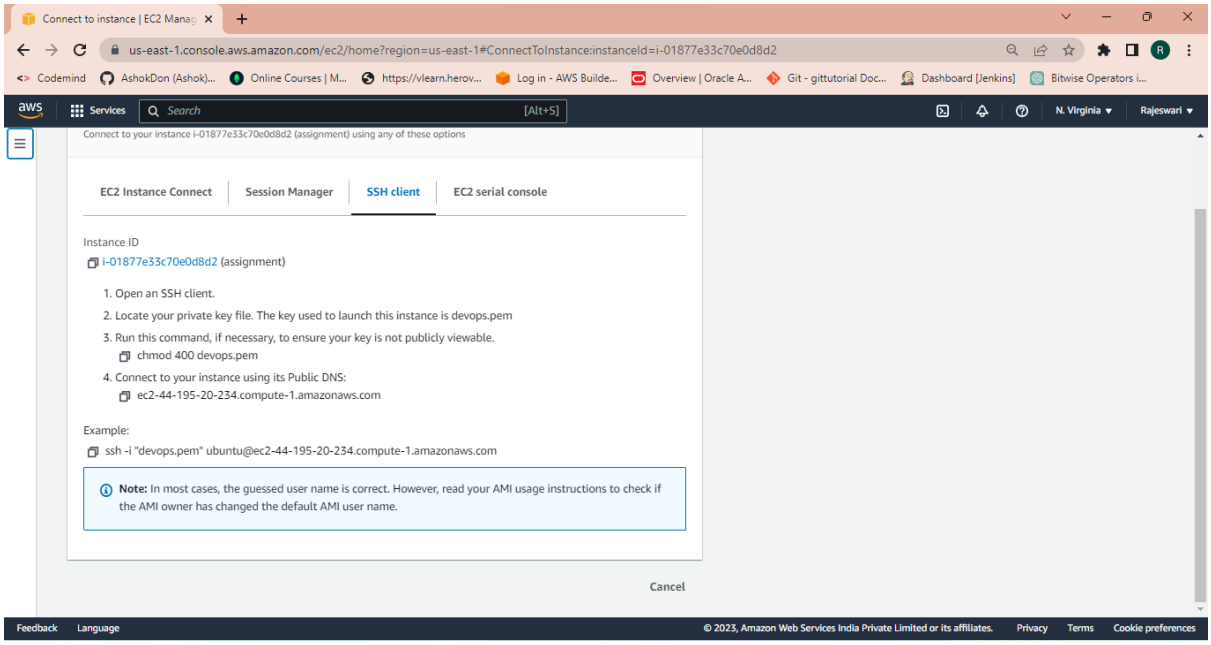




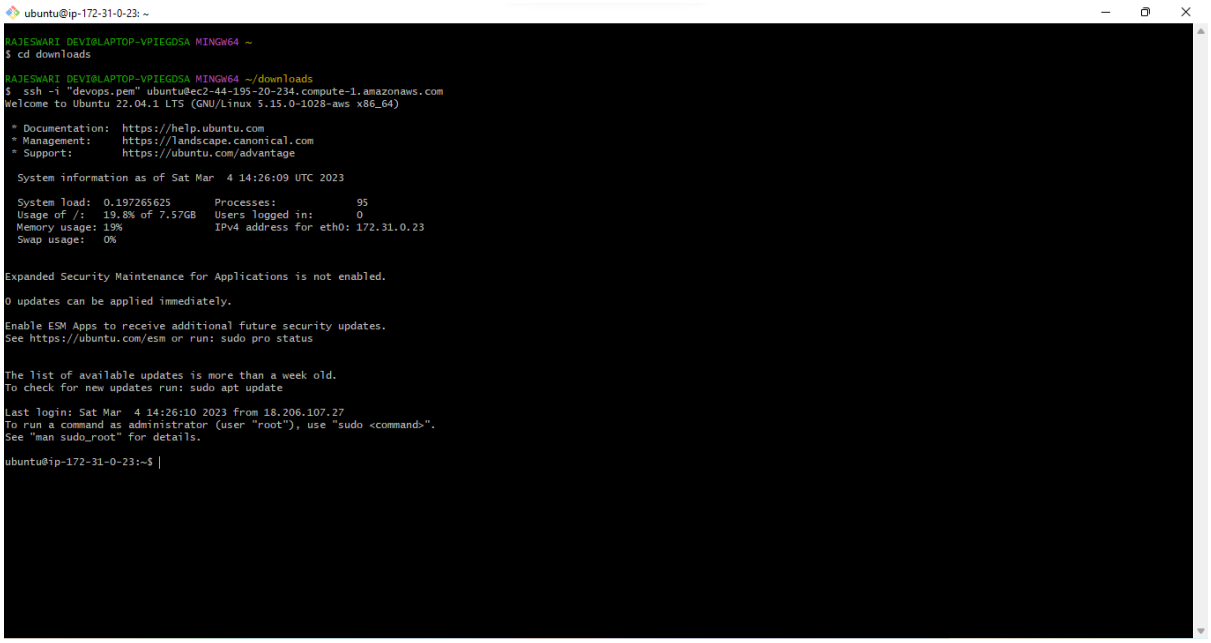
Step 5: Now check the status of the instance.



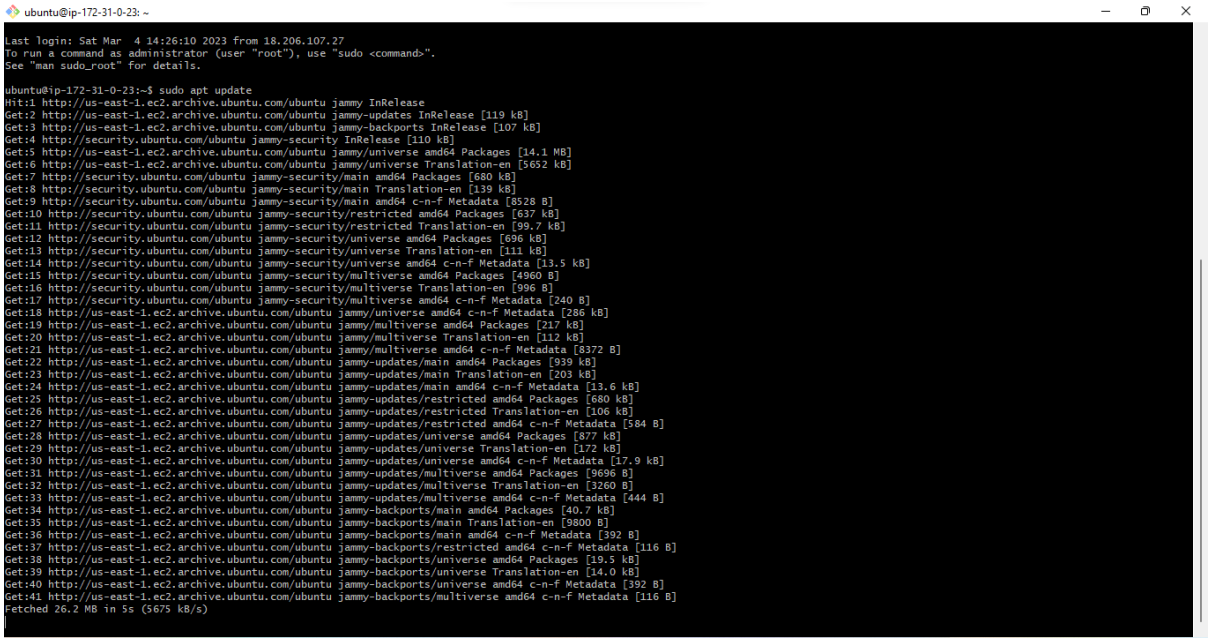
Step 6: Now connect EC2 instance using SSH client and copy the ssh link.



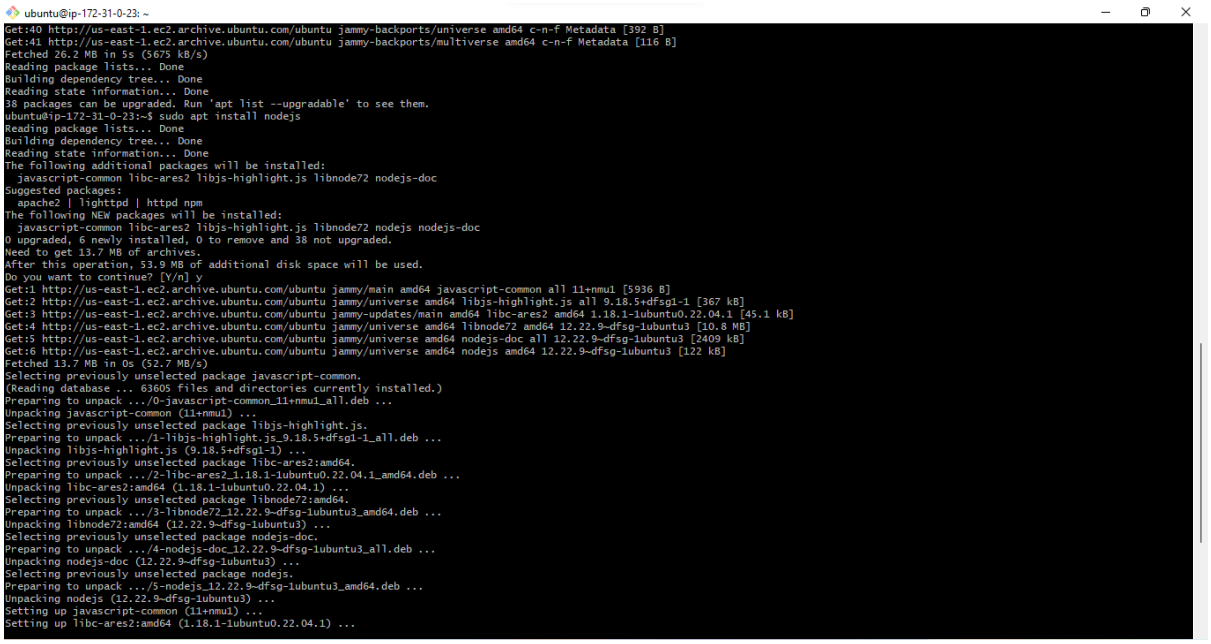
Step 7: Go to the git bash and open git bash cli and paste the command copied in the ssh client command. Here we see that EC2 instance is connected with git bash successfully.



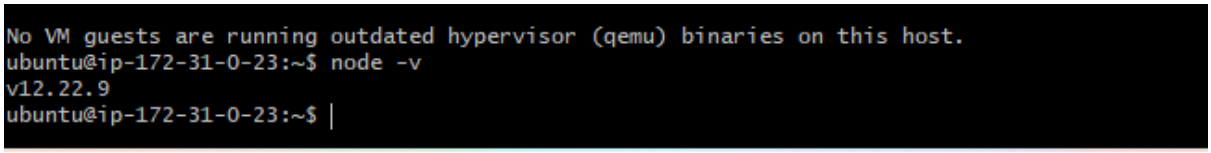
Step 8: To install nodejs we to update apt package manager using the command **sudo apt update.**



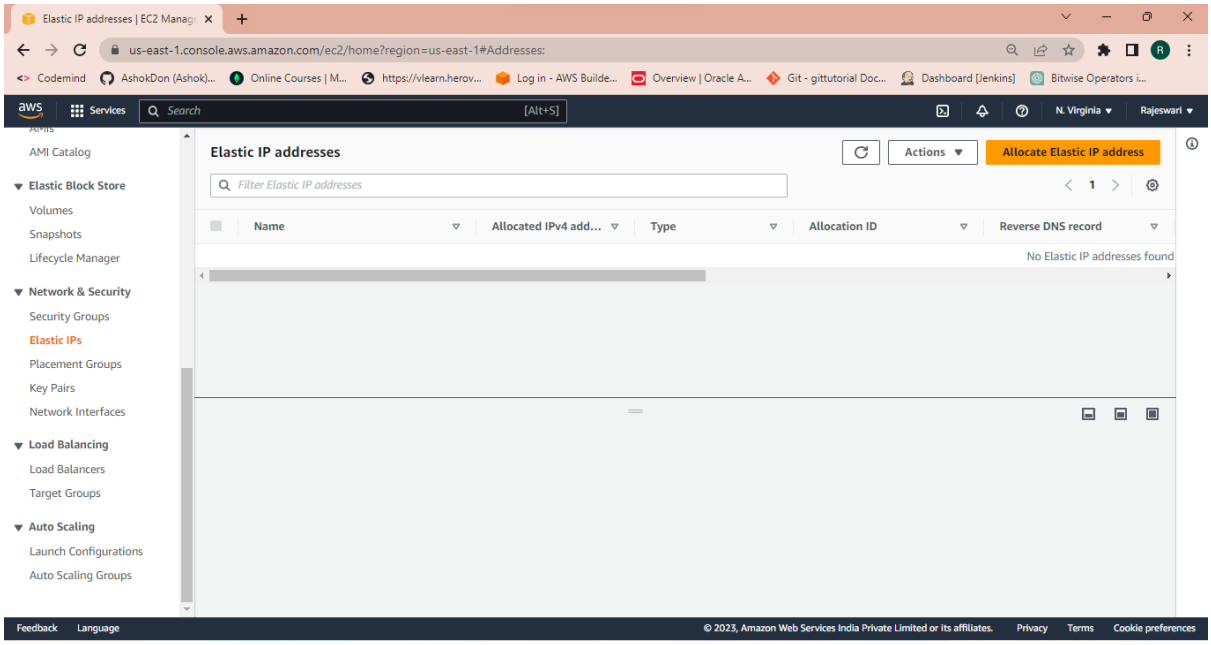
Step 9: Now install the Nodejs using the command **sudo apt install nodejs**.

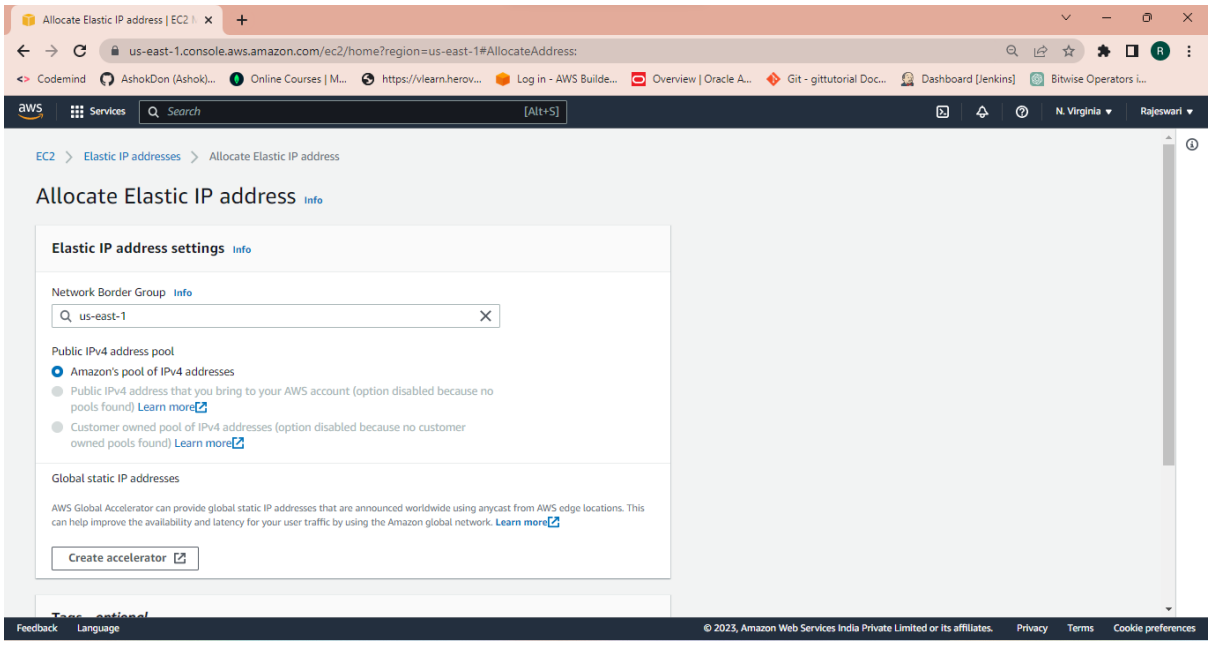


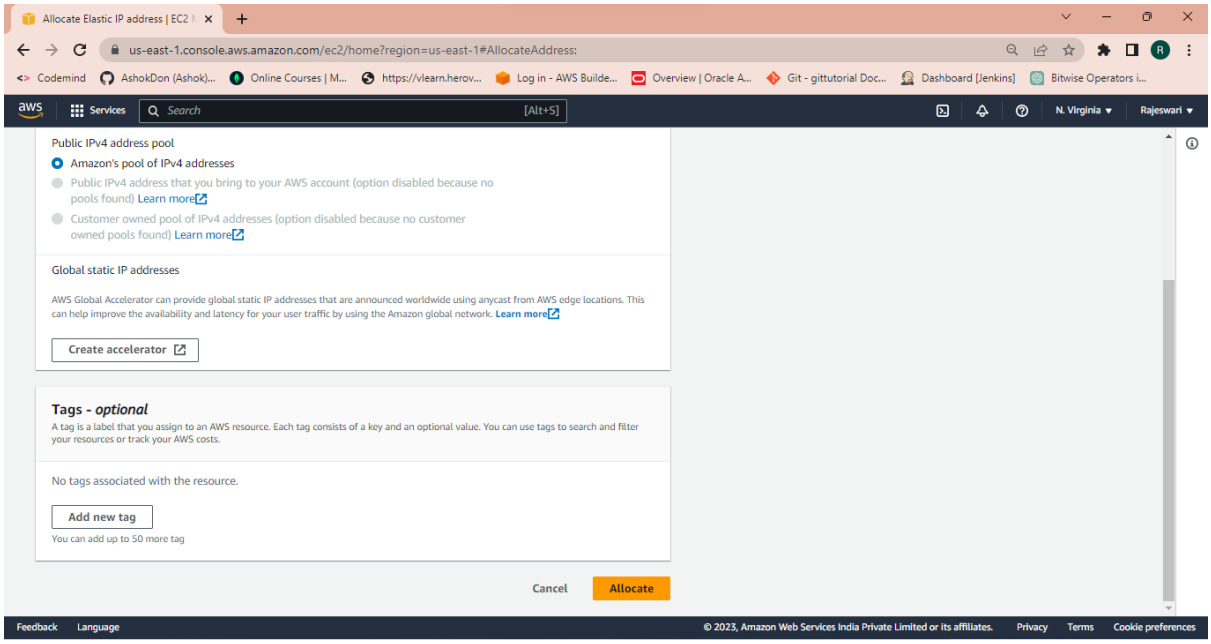
Step 11: After installing to check the version of the nodejs using the command **node -v.**



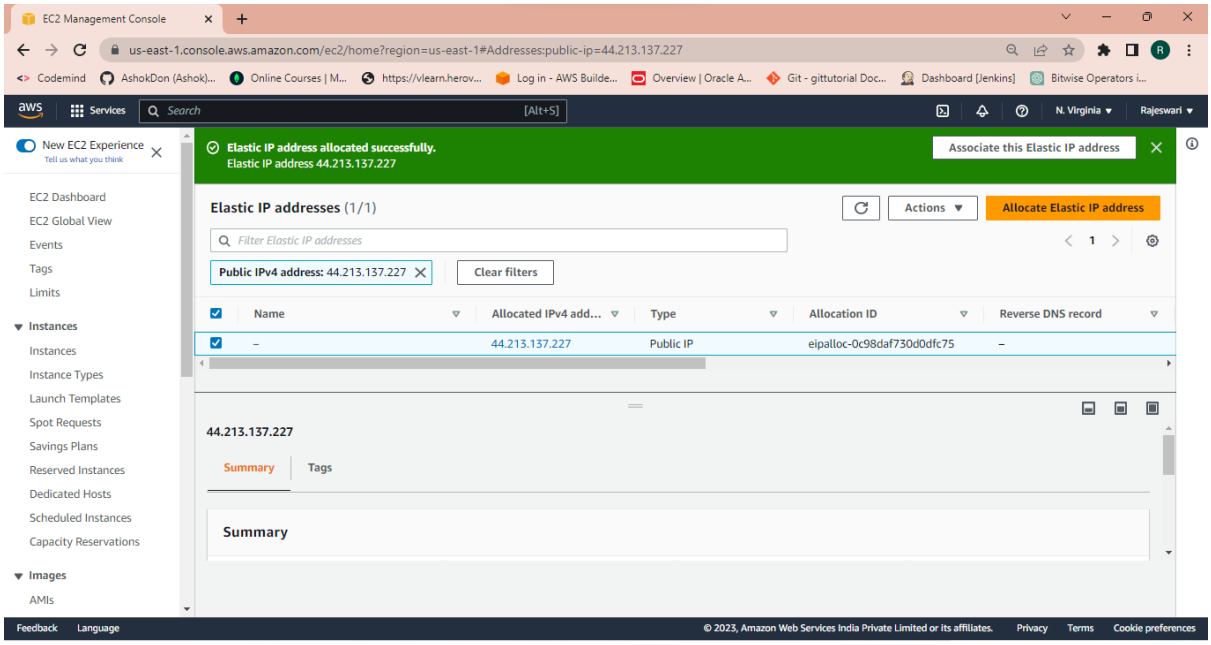
Step12: Now allocate Elastic IP address for instance

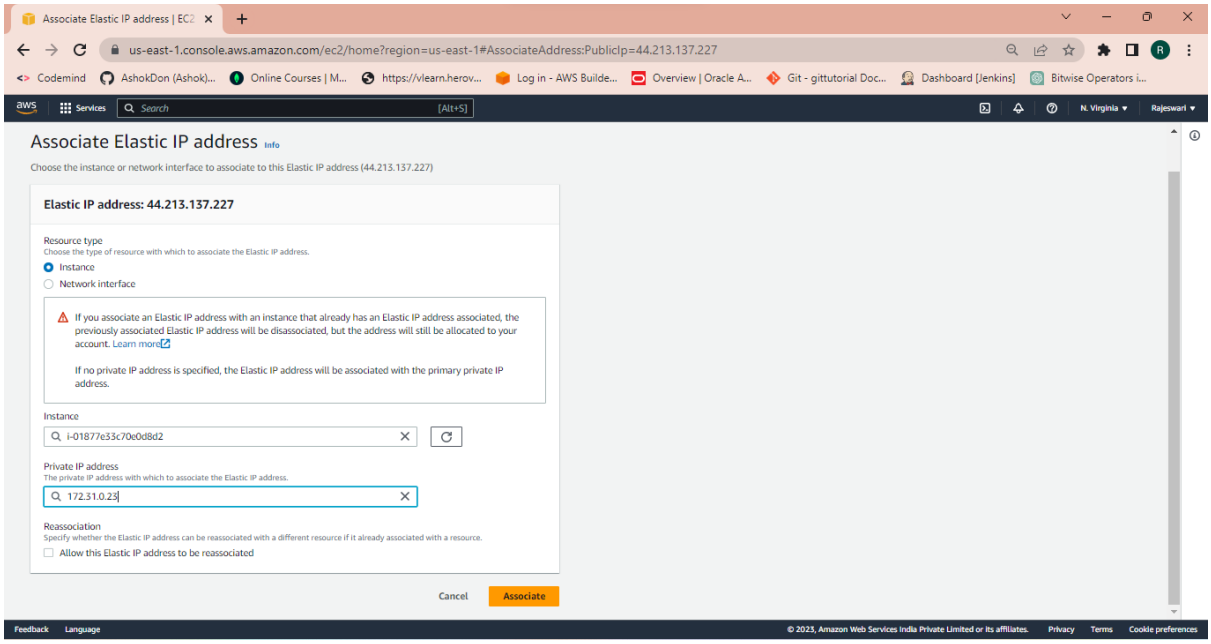


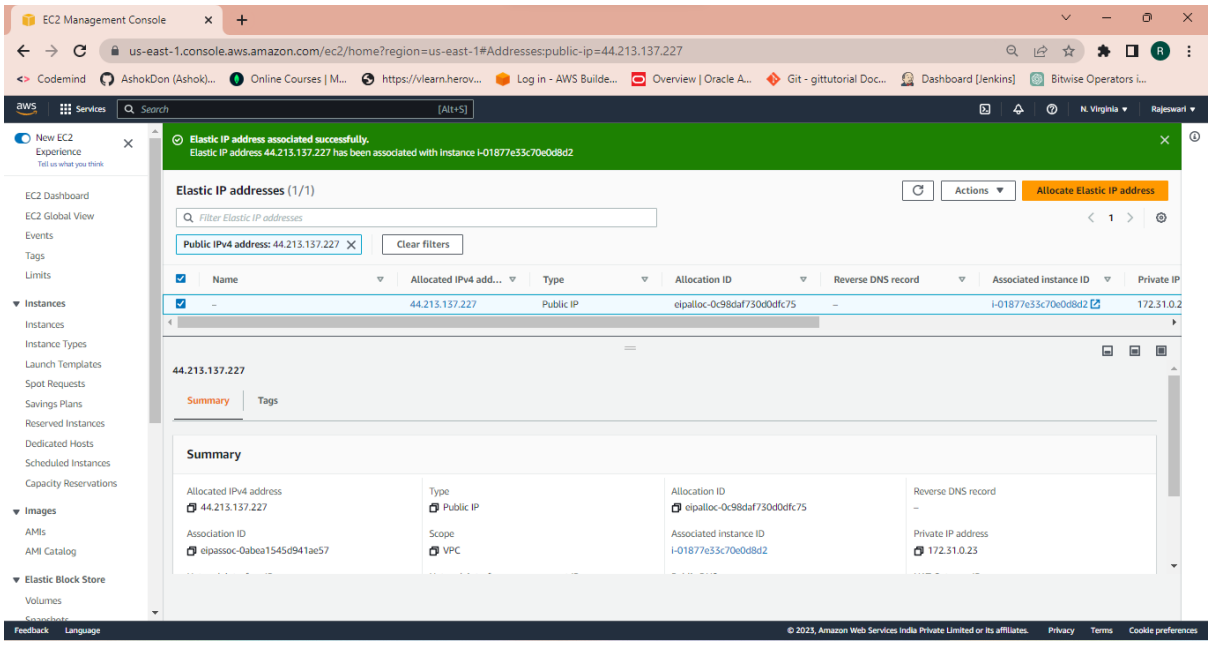




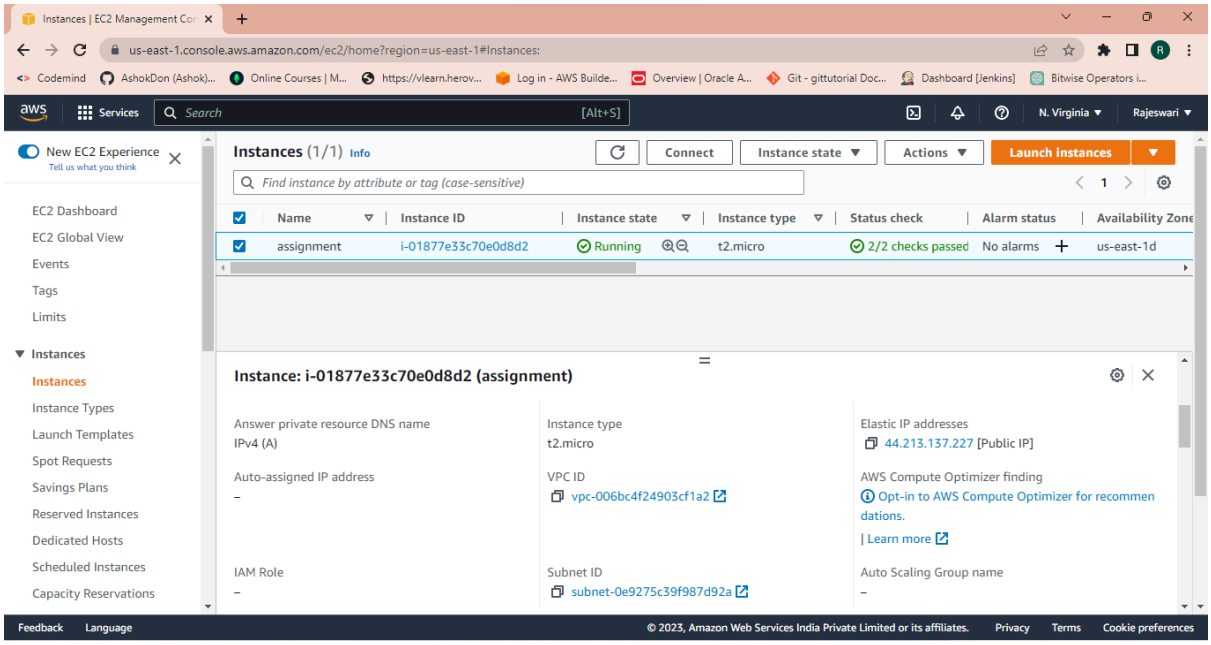
Step 13: Now associate with the created instance.



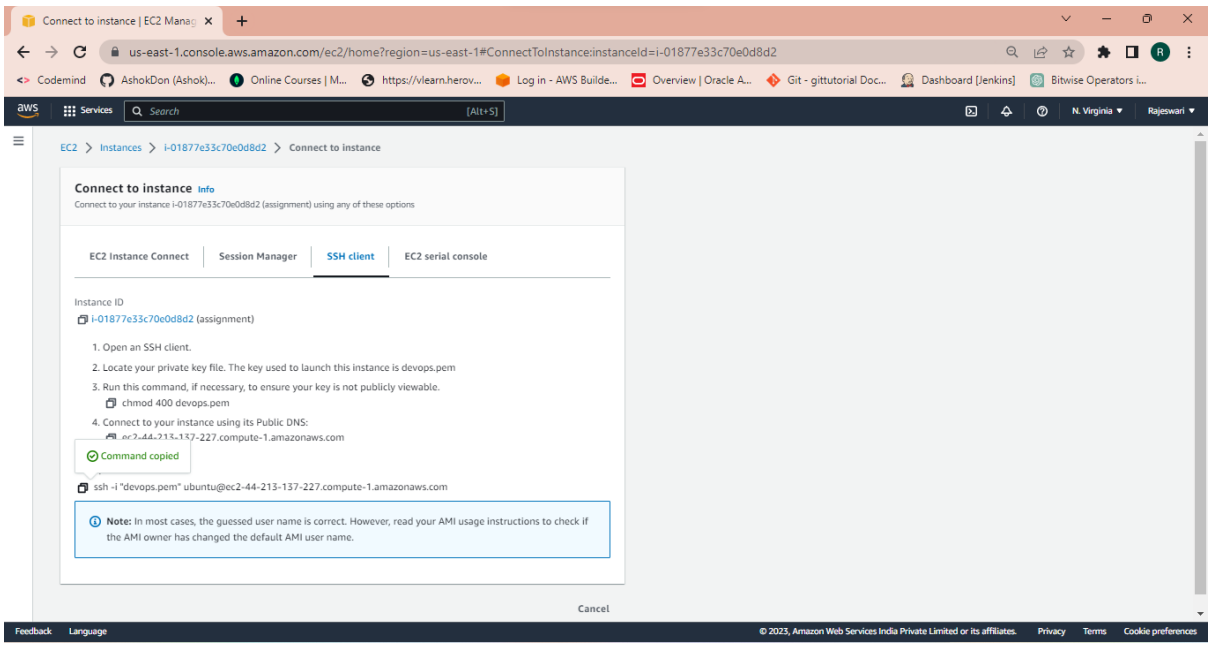

Associate Elastic IP address | EC2
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#AssociateAddress:PublicIp=44.213.137.227
Associate Elastic IP address
Info
Choose the instance or network interface to associate to this Elastic IP address (44.213.137.227)
Elastic IP address: 44.213.137.227
Resource type
Choose the type of resource with which to associate the Elastic IP address.
Instance
Network interface
If you associate an Elastic IP address with an instance that already has an Elastic IP address associated, the previously associated Elastic IP address will be disassociated, but the address will still be allocated to your account. Learn more
If no private IP address is specified, the Elastic IP address will be associated with the primary private IP address.
Instance
i-01877e33c70e0d8d2
Private IP address
The private IP address with which to associate the Elastic IP address.
172.31.0.23
Reassociation
Specify whether the Elastic IP address can be reassociated with a different resource if it already associated with a resource.
Allow this Elastic IP address to be reassociated
Cancel
Associate
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
Privacy
Terms
Cookie preferences


EC2 Management Console
us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Addresses:public-ip=44.213.137.227
Elastic IP address associated successfully.
Elastic IP address 44.213.137.227 has been associated with instance i-01877e33c70e0d8d2
Elastic IP addresses (1/1)
Actions
Allocate Elastic IP address
Public IPv4 address: 44.213.137.227
Clear filters
Name
Allocated IPv4 add...
Type
Allocation ID
Reverse DNS record
Associated instance ID
Private IP
44.213.137.227
Public IP
eipalloc-0c98daf730d0dfc75
i-01877e33c70e0d8d2
Summary
Tags
Allocated IPv4 address
Type
Allocation ID
Reverse DNS record
Association ID
Scope
Associated instance ID
Private IP address
eipassoc-0abea1545d941ae57
VPC
172.31.0.23
EC2 Dashboard
EC2 Global View
Events
Tags
Limits
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Scheduled Instances
Capacity Reservations
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
Privacy
Terms
Cookie preferences

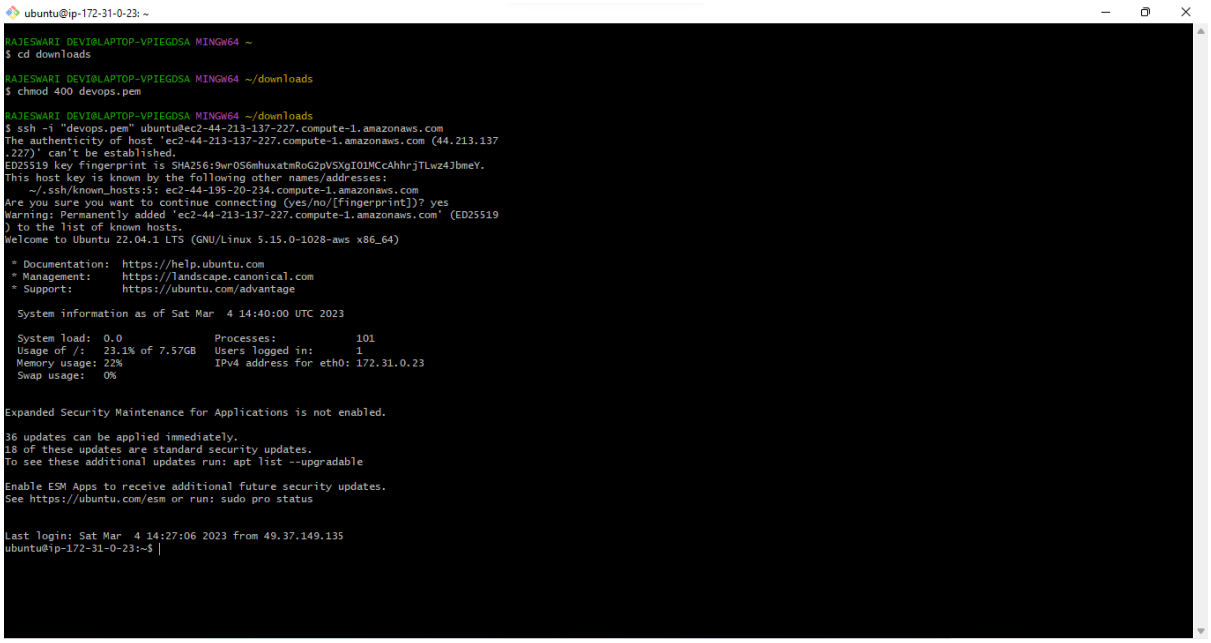
Step 14: Here we check that Elastic IP is created.

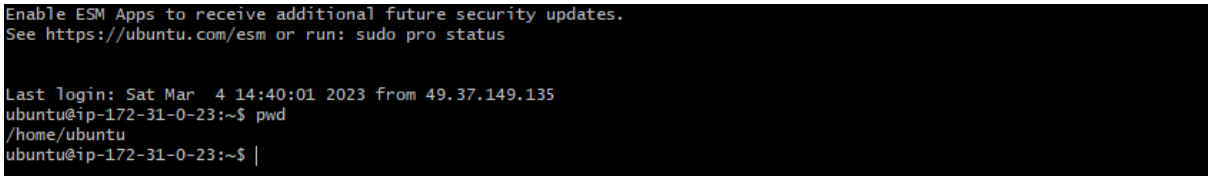


Step 15: Now connect an instance with the Git Bash.

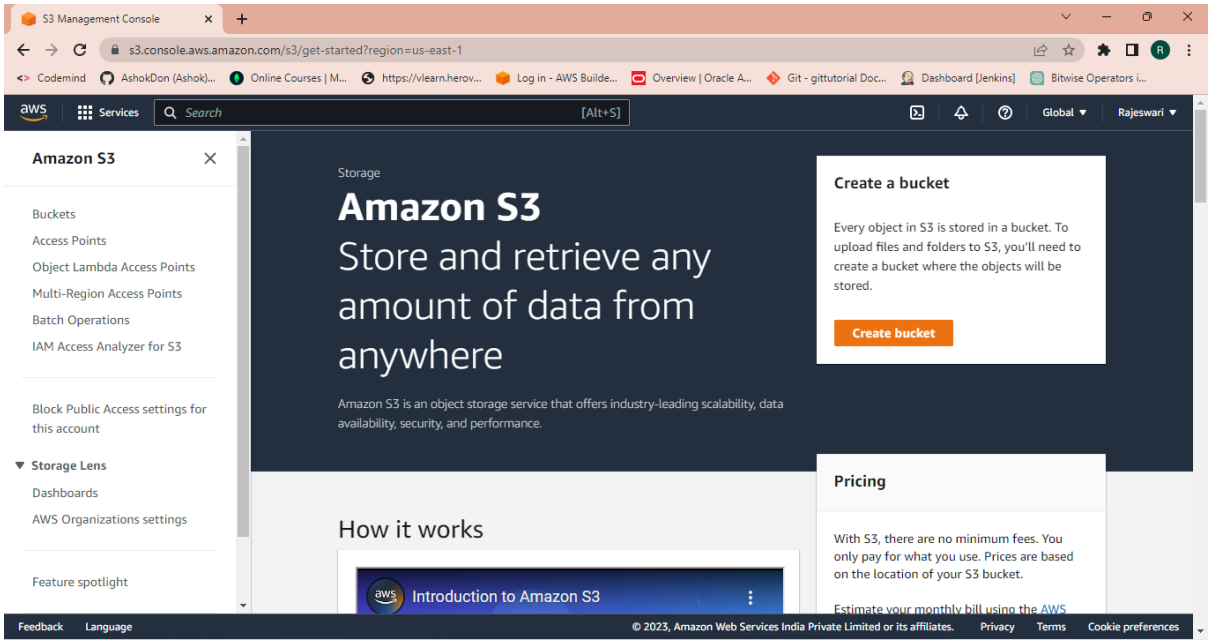


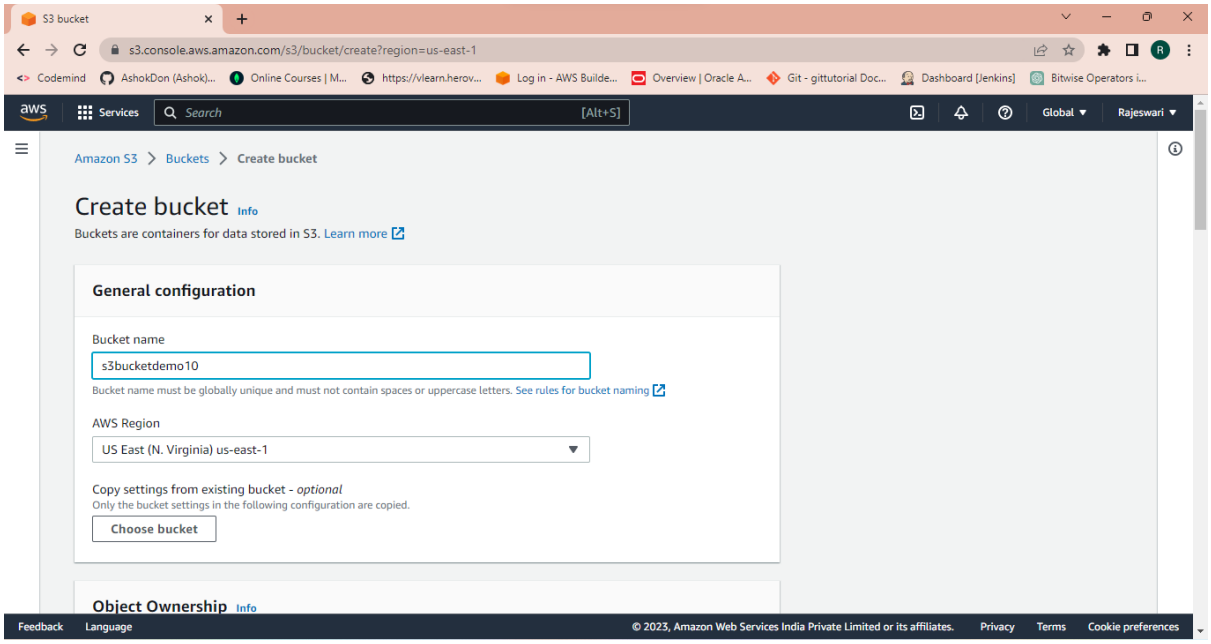
Step 16: Here we check that Elastic Ip address instance and configuring the IP address

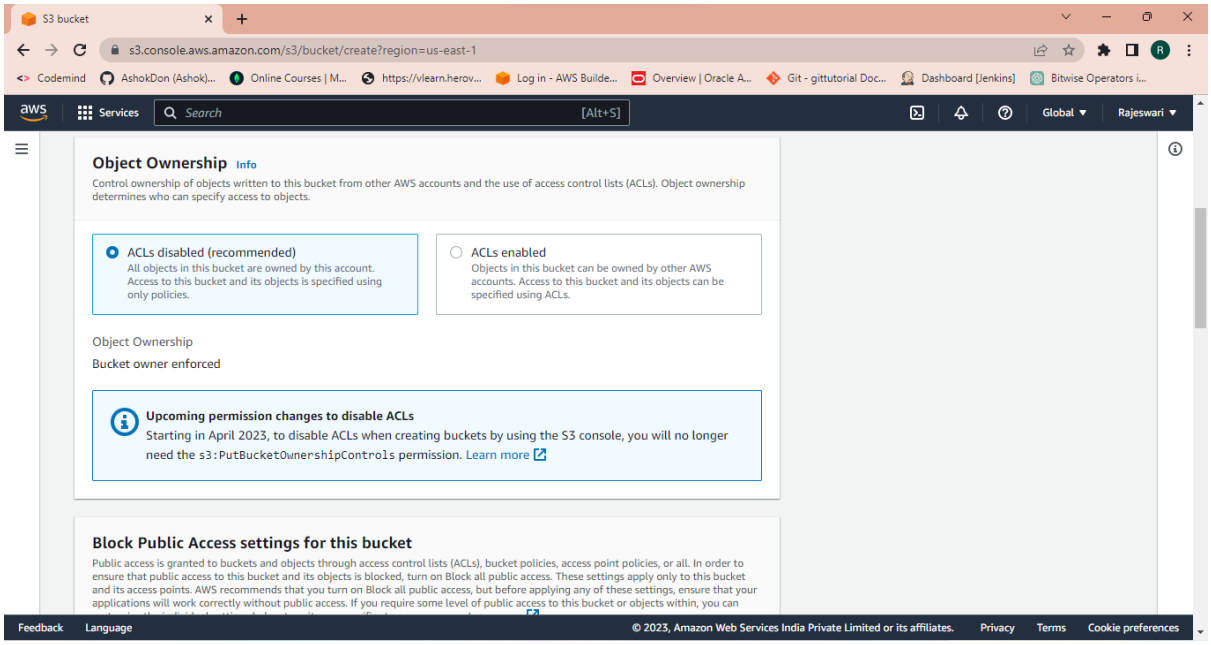




Step 17: Now we are creating S3 bucket




S3 bucket
s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1
Codemind
AshokDon (Ashok)...
Online Courses | M...
https://vlearn.herov...
Log in - AWS Builde...
Overview | Oracle A...
Git - gittutorial Doc...
Dashboard [Jenkins]
Bitwise Operators i...
aws
Services
Search
[Alt+S]
Global
Rajeswari
Amazon S3 > Buckets > Create bucket
Create bucket Info
Buckets are containers for data stored in S3. Learn more
General configuration
Bucket name
s3bucketdemo10
Bucket name must be globally unique and must not contain spaces or uppercase letters. See rules for bucket naming
AWS Region
US East (N. Virginia) us-east-1
Copy settings from existing bucket - optional
Only the bucket settings in the following configuration are copied.
Choose bucket
Object Ownership Info
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
Privacy
Terms
Cookie preferences


S3 bucket
s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1
Codemind
AshokDon (Ashok)...
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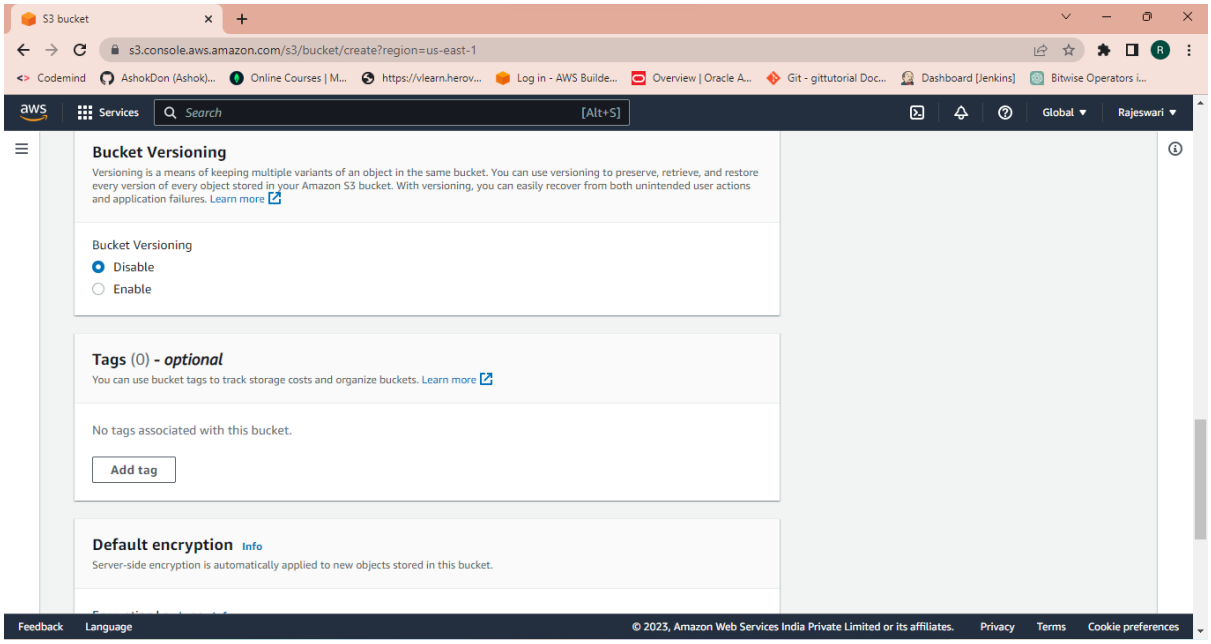
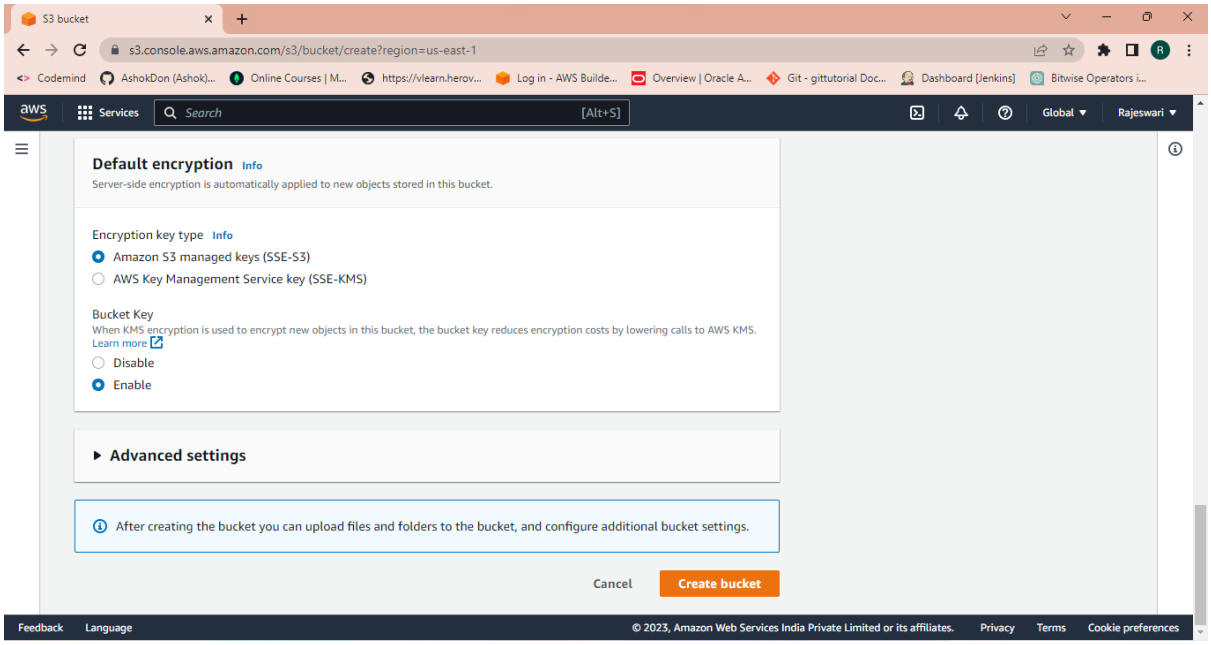
https://vlearn.herov...
Log in - AWS Builde...
Overview | Oracle A...
Git - gittutorial Doc...
Dashboard [Jenkins]
Bitwise Operators i...
aws
Services
Search
[Alt+S]
Global
Rajeswari
Object Ownership Info
Control ownership of objects written to this bucket from other AWS accounts and the use of access control lists (ACLs). Object ownership determines who can specify access to objects.
ACLs disabled (recommended)
All objects in this bucket are owned by this account. Access to this bucket and its objects is specified using only policies.
ACLs enabled
Objects in this bucket can be owned by other AWS accounts. Access to this bucket and its objects can be specified using ACLs.
Object Ownership
Bucket owner enforced
Upcoming permission changes to disable ACLs
Starting in April 2023, to disable ACLs when creating buckets by using the S3 console, you will no longer need the s3:PutBucketOwnershipControls permission. Learn more
Block Public Access settings for this bucket
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 this bucket and its 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 this bucket or objects within, you can
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
Privacy
Terms
Cookie preferences


S3 bucket
s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1
Codemind
AshokDon (Ashok)...
Online Courses | M...
https://vlearn.herov...
Log in - AWS Builde...
Overview | Oracle A...
Git - gittutorial Doc...
Dashboard [Jenkins]
Bitwise Operators i...
aws
Services
Search
[Alt+S]
Global
Rajeswari
Bucket Versioning
Versioning is a means of keeping multiple variants of an object in the same bucket. You can use versioning to preserve, retrieve, and restore every version of every object stored in your Amazon S3 bucket. With versioning, you can easily recover from both unintended user actions and application failures. Learn more
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.
Feedback
Language
© 2023, Amazon Web Services India Private Limited or its affiliates.
Privacy
Terms
Cookie preferences


S3 bucket
s3.console.aws.amazon.com/s3/bucket/create?region=us-east-1
Codemind
AshokDon (Ashok)...
Online Courses | M...
https://vlearn.herov...
Log in - AWS Builde...
Overview | Oracle A...
Git - gittutorial Doc...
Dashboard [Jenkins]
Bitwise Operators i...
aws
Services
Search
[Alt+S]
Global
Rajeswari
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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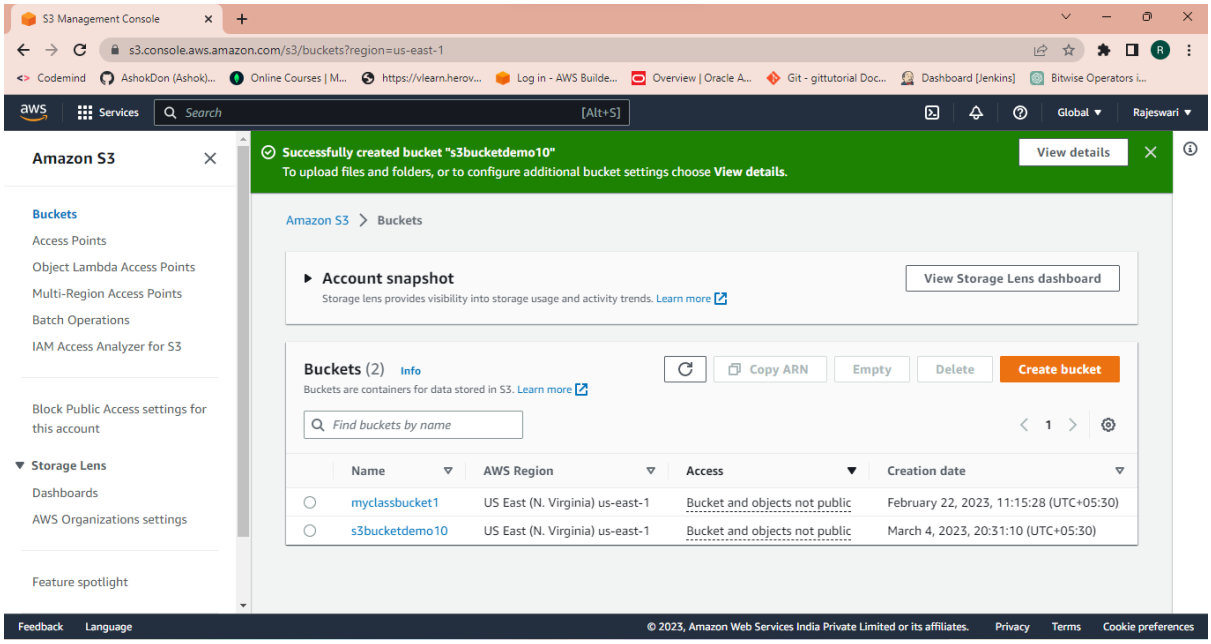
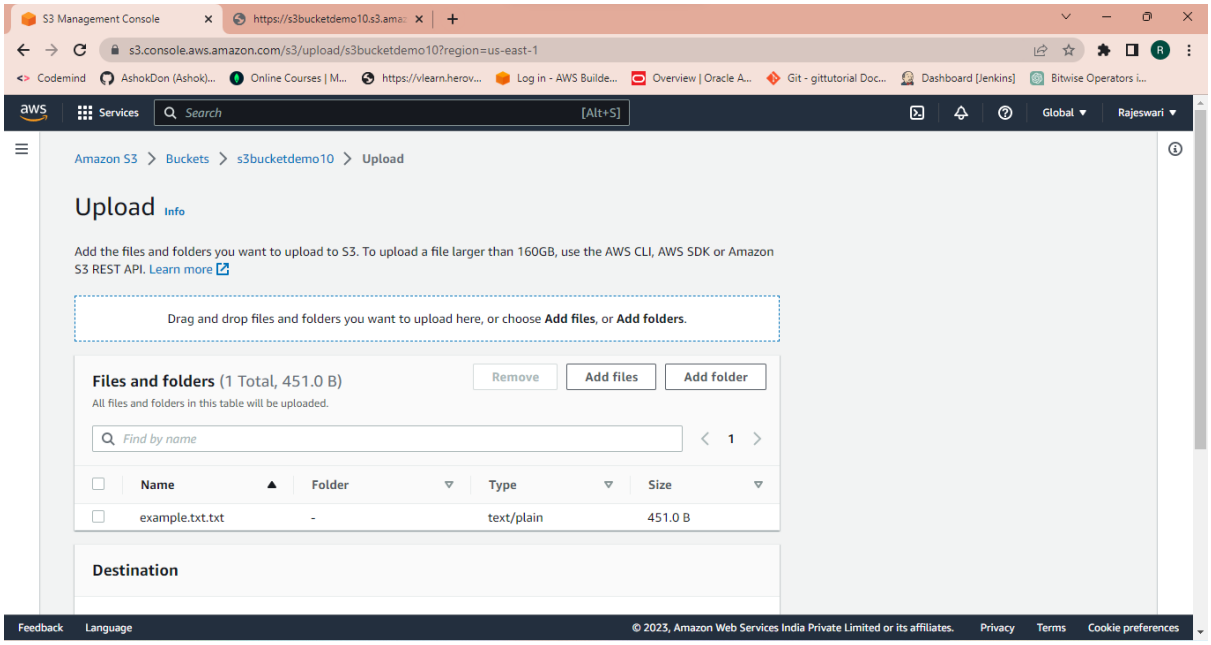
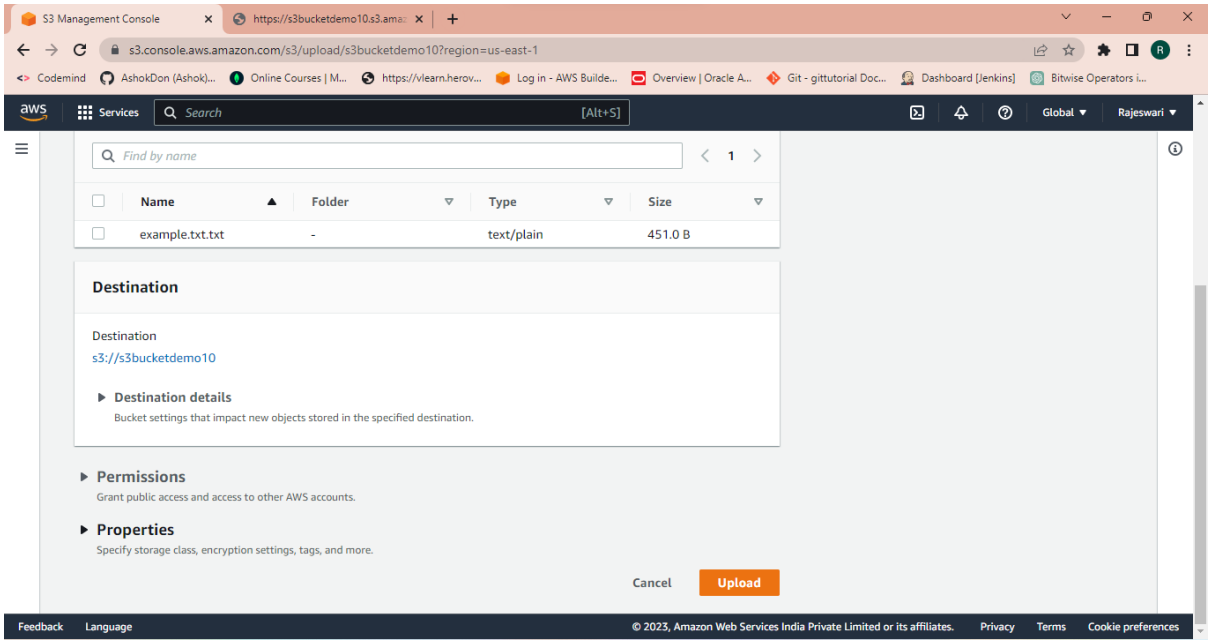
Privacy
Terms
Cookie preferences

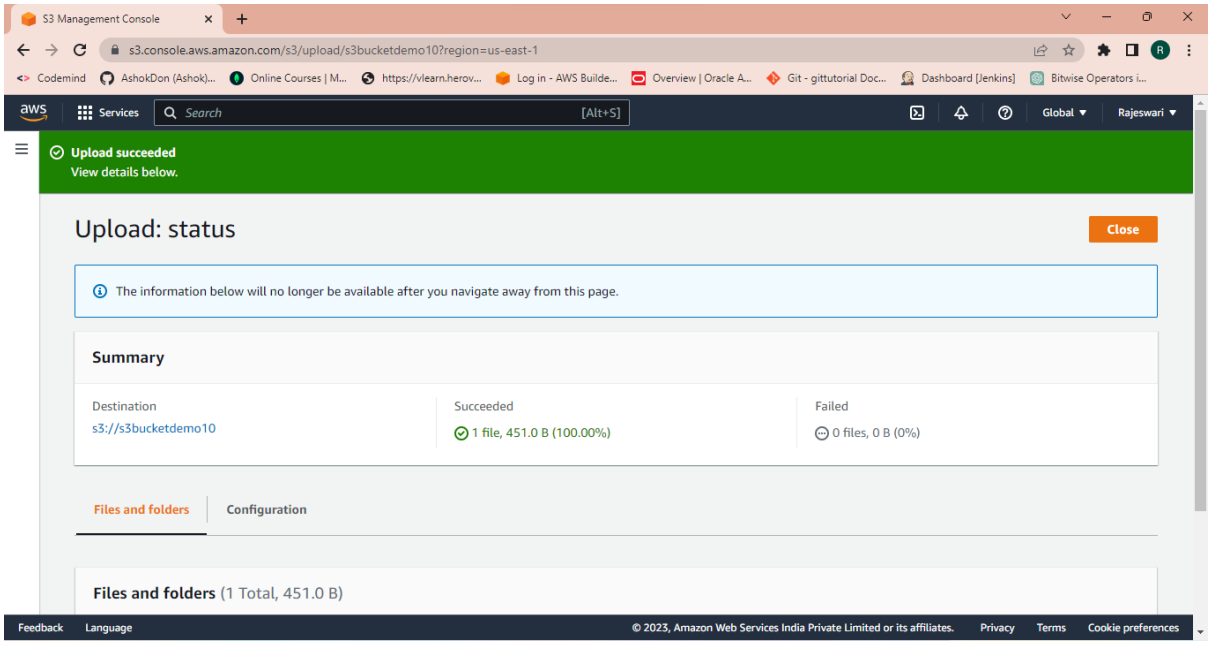


Step 18: Now upload a file in the bucket.

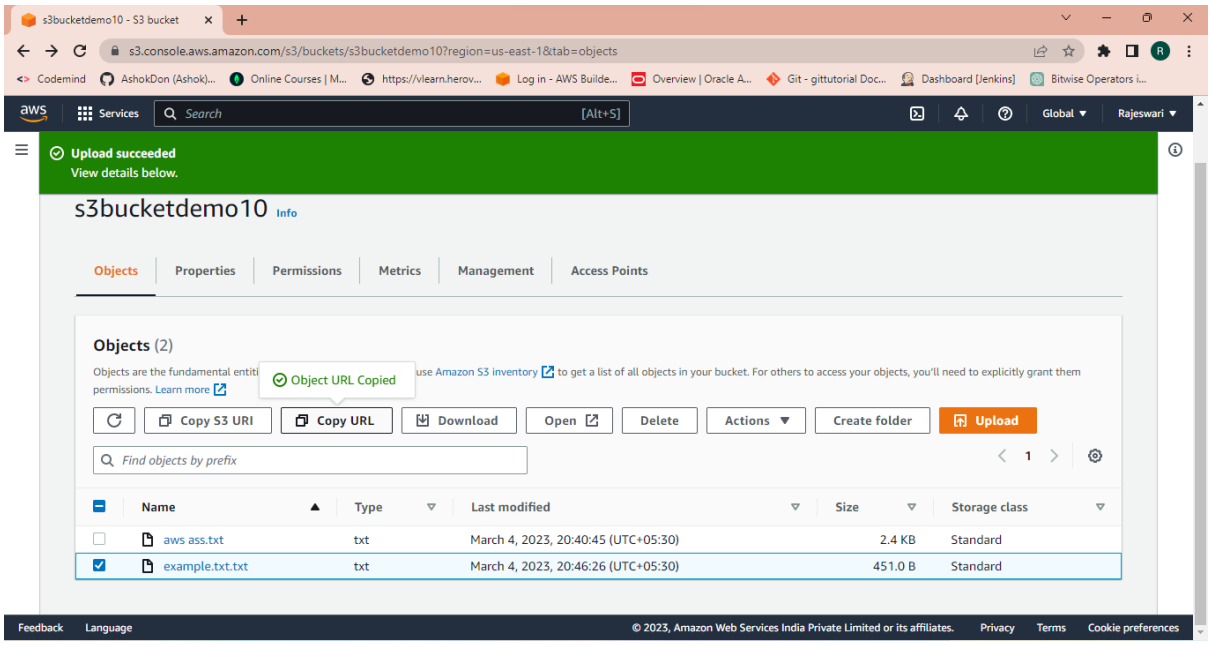




Its uploaded successfully.

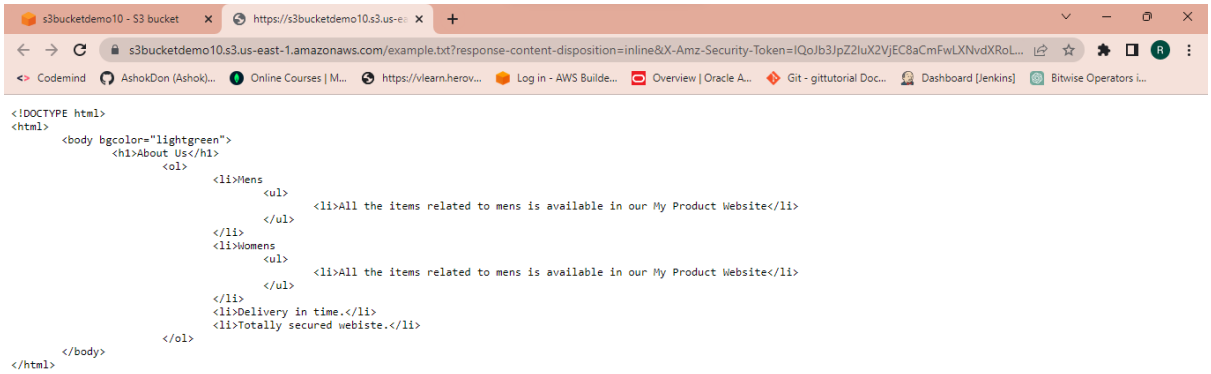


Step 19: Now copy the URL of the object and open in the browser.



Step 20: Here is the link of the object and data.

https://s3bucketdemo10.s3.amazonaws.com/example.txt



https://github.com/Rajeswaridevi123/assignment1.git

K.R.V.RAJESWARI DEVI