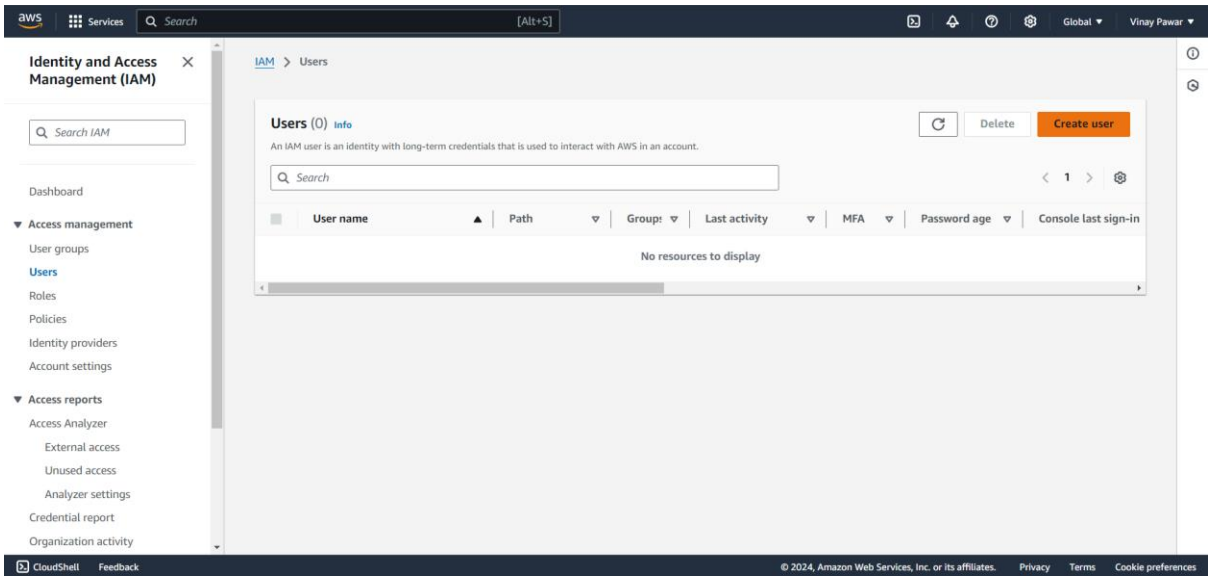
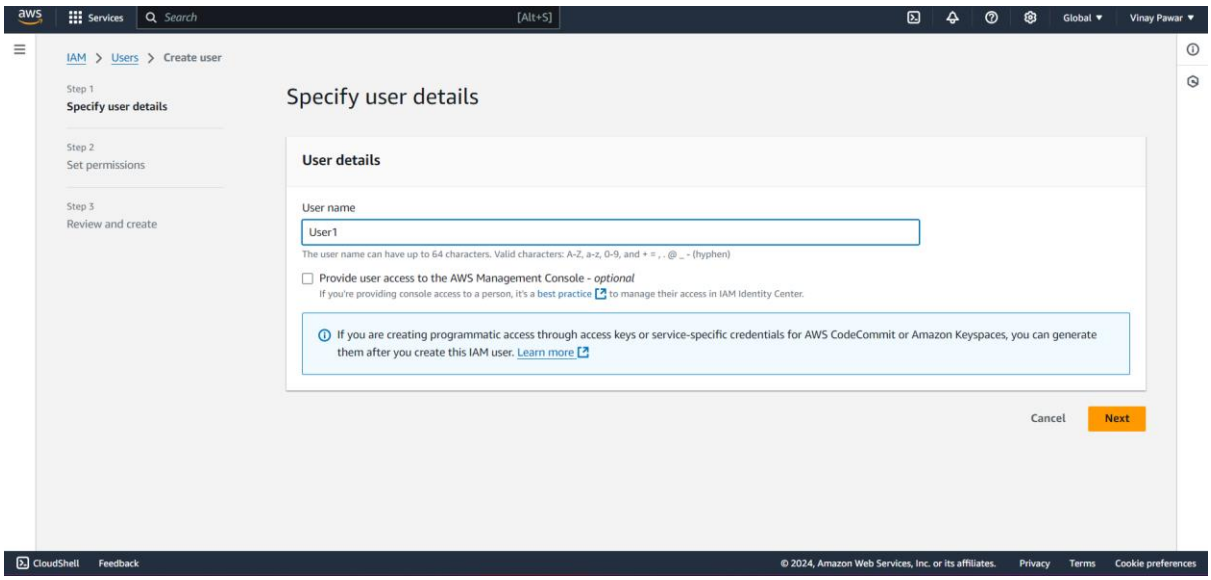
Linux and Cloud Computing Exam

Name: Vinay Jeevan Pawar ID: 240840325070

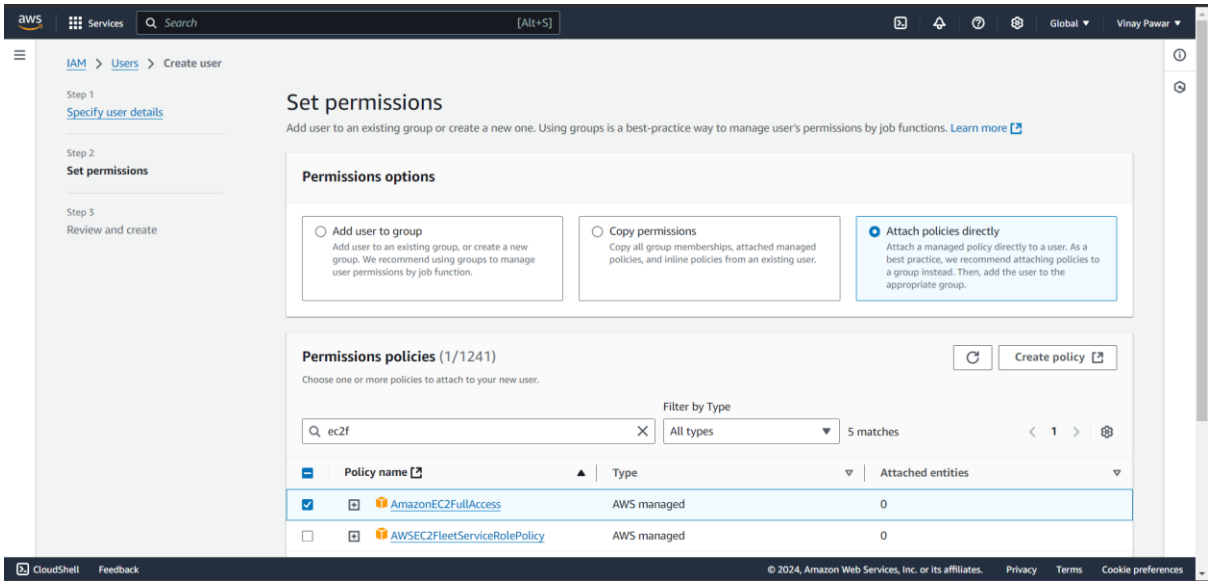
1. Create a new IAM user, policy granting EC2 full access.

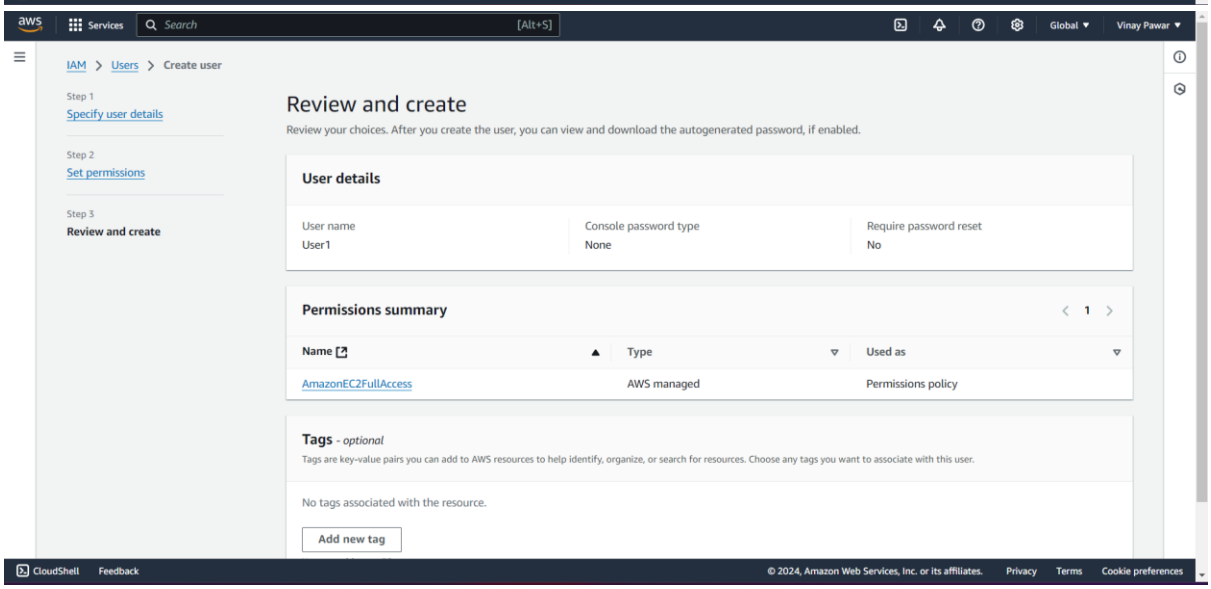
creating IAM user.



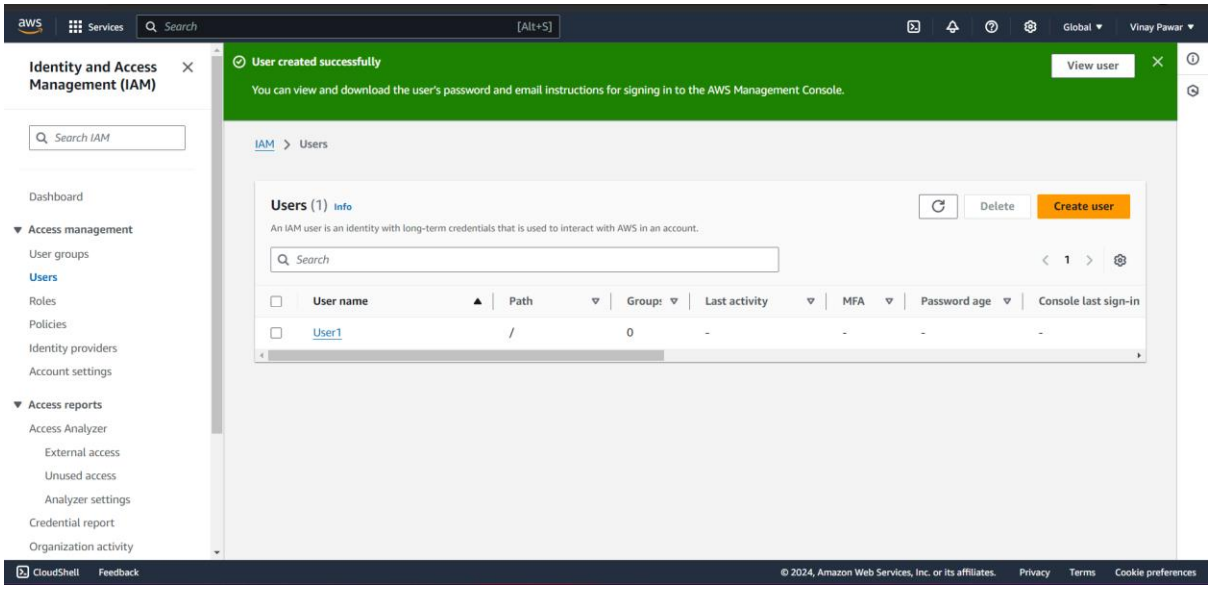


Setting permission to the IAM user.



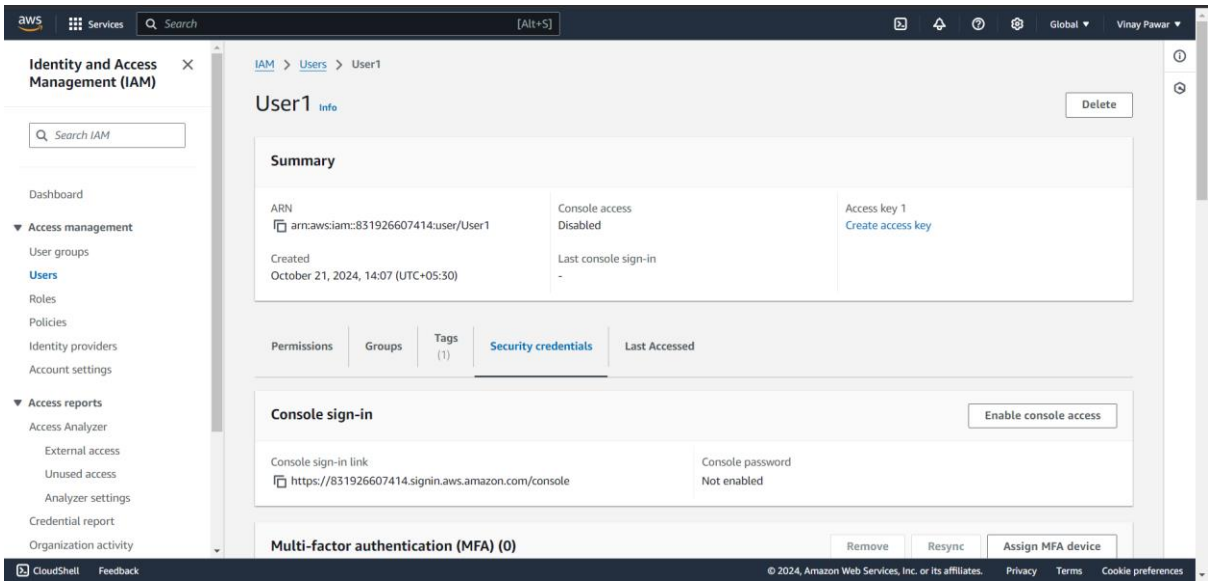


User created successfully.

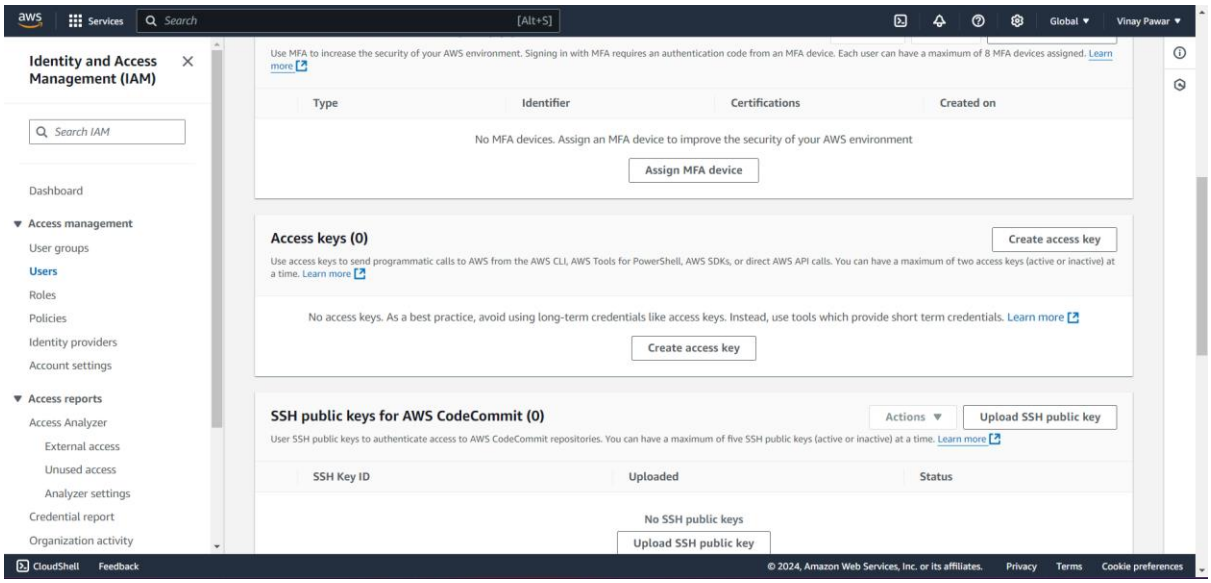


2. Using aws cli configured with this IAM user's credentials, list all EC2 instances and perform start/stop operations on EC2 instance that you launched.

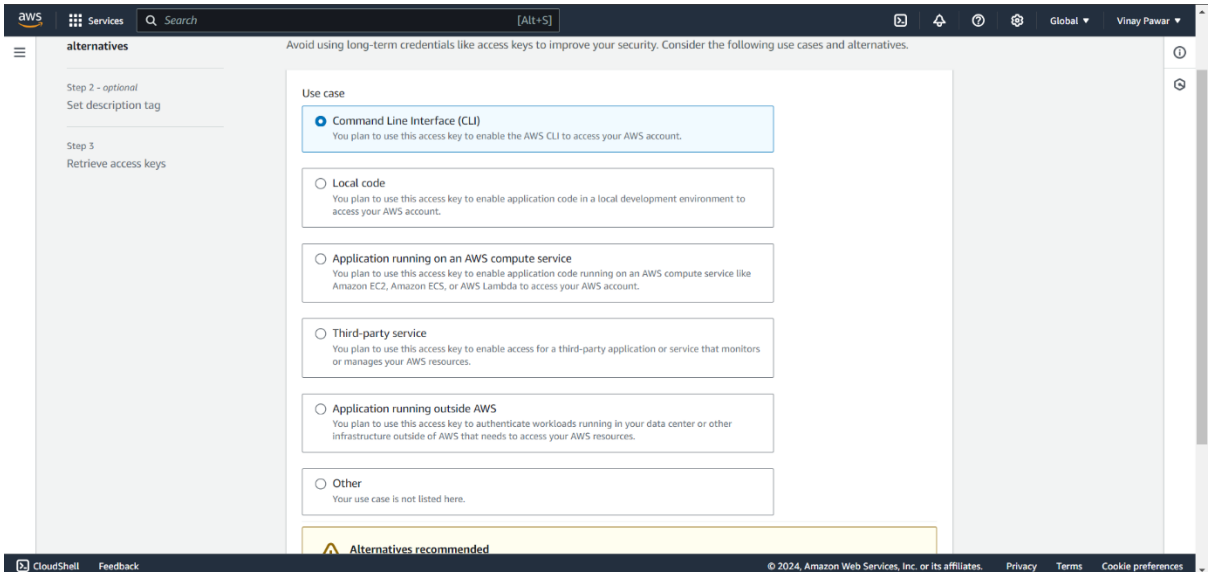
Going under users → Security credentials →



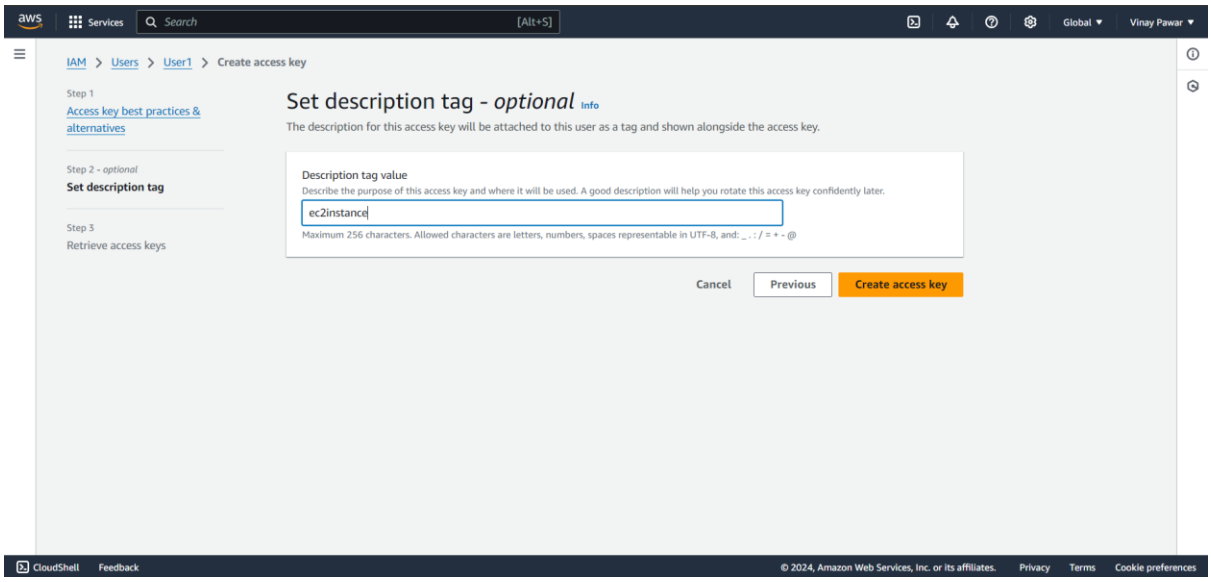
users → Security credentials → Access Key →



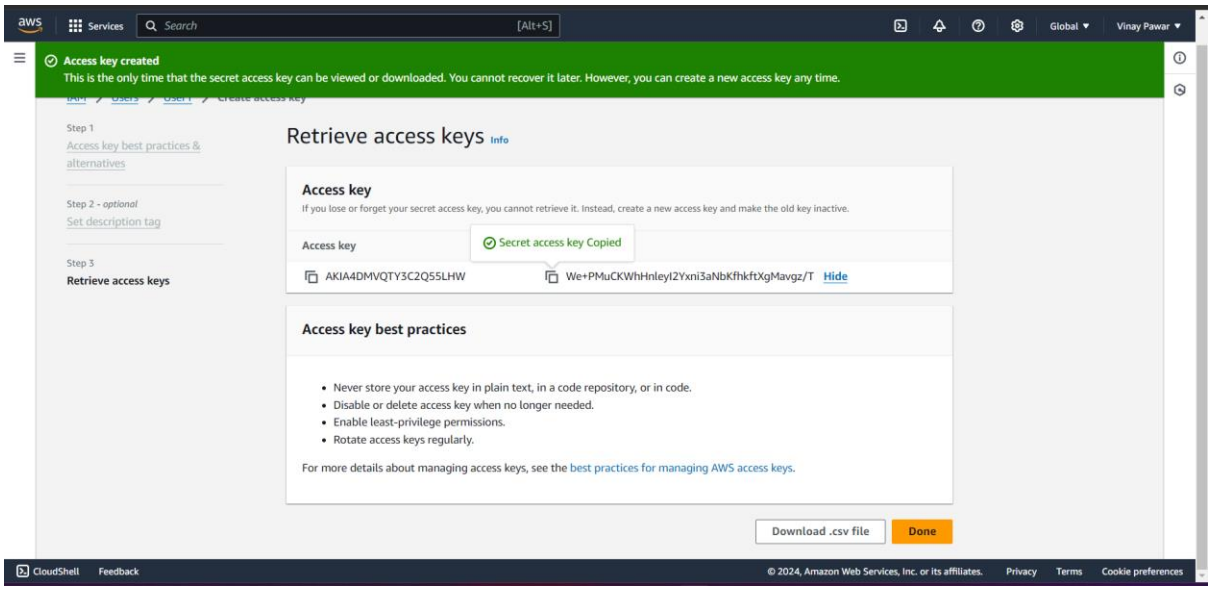
users → Security credentials → Access Key → create access key → Command line interface



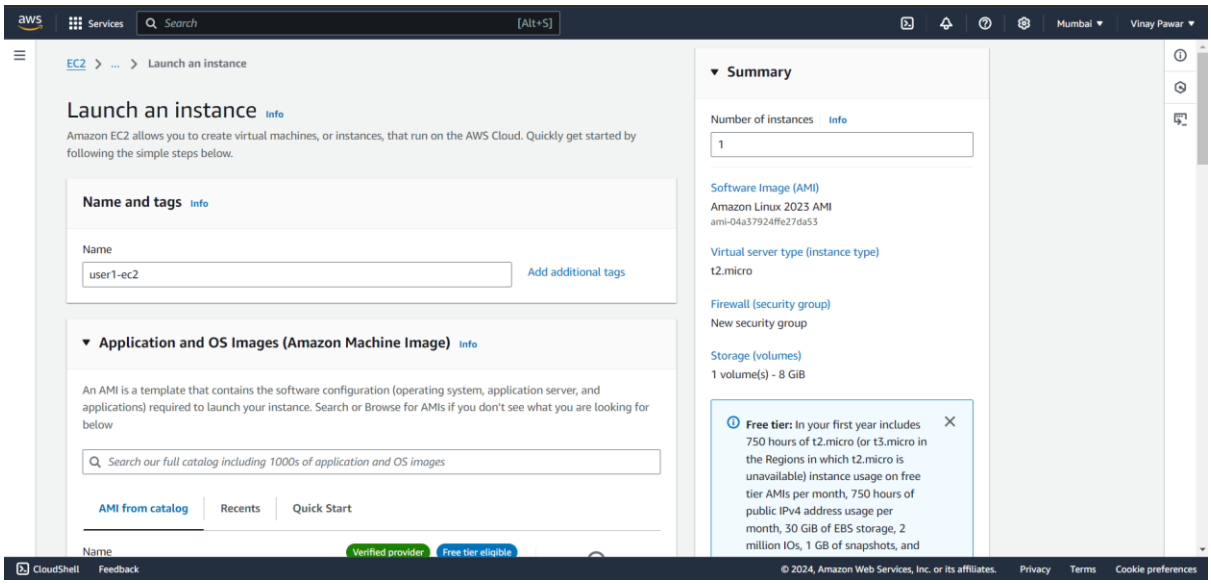
Set any description tag here ‘ec2instance’



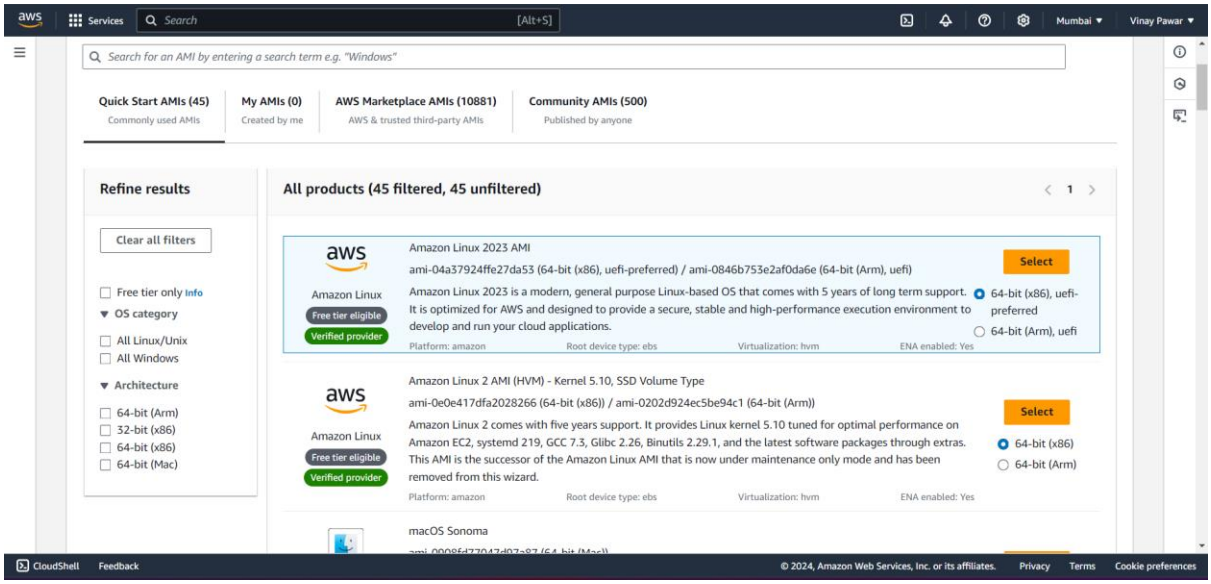
Save access key and secret access key

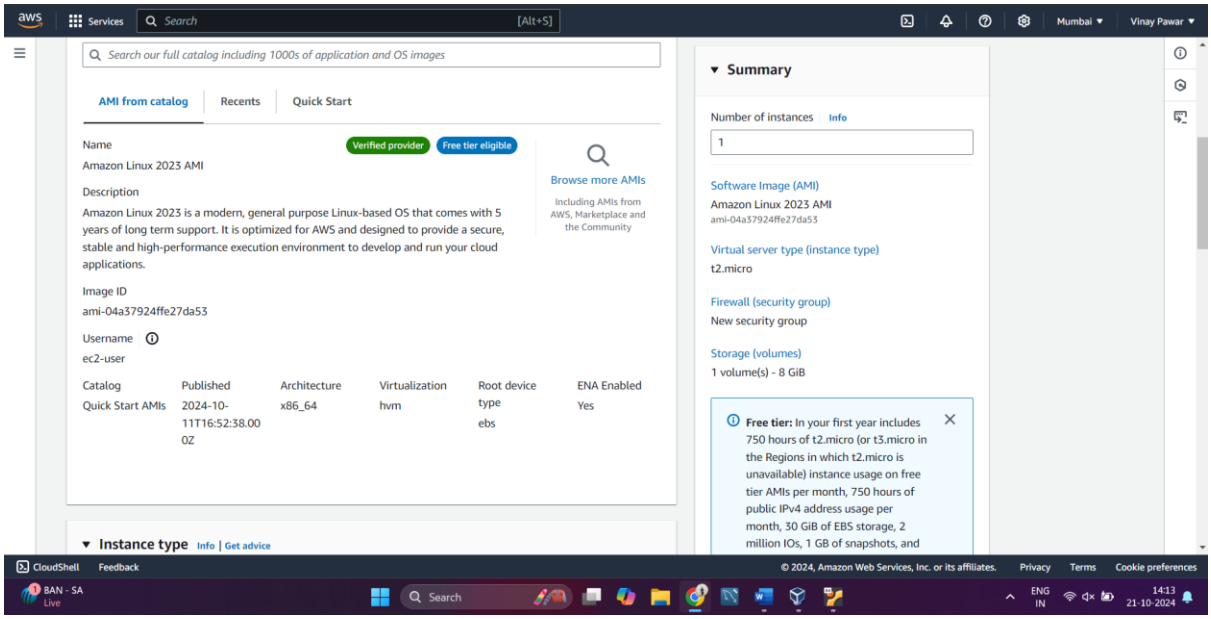


Launch an EC2 instance

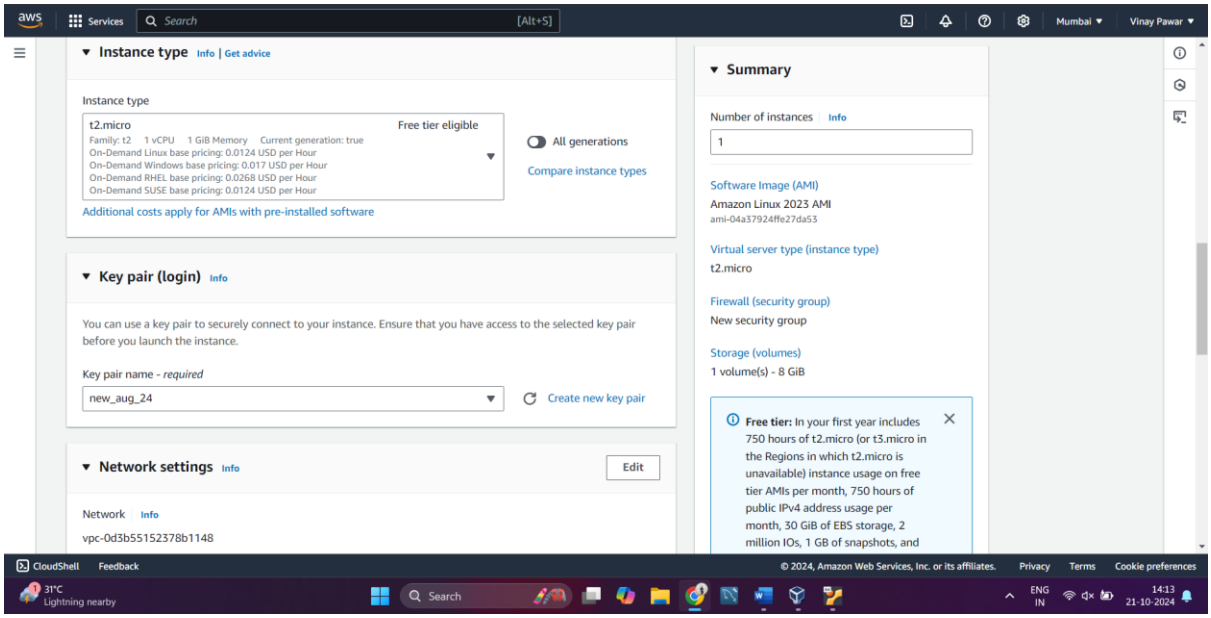


Select amazon linux free tier eligible.

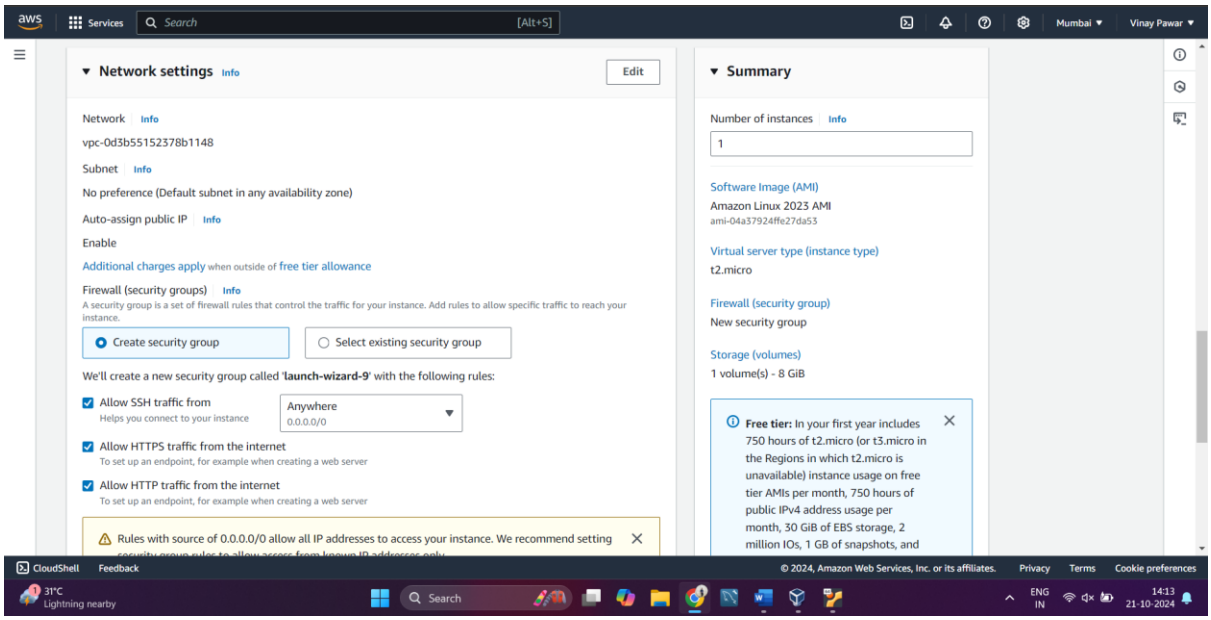




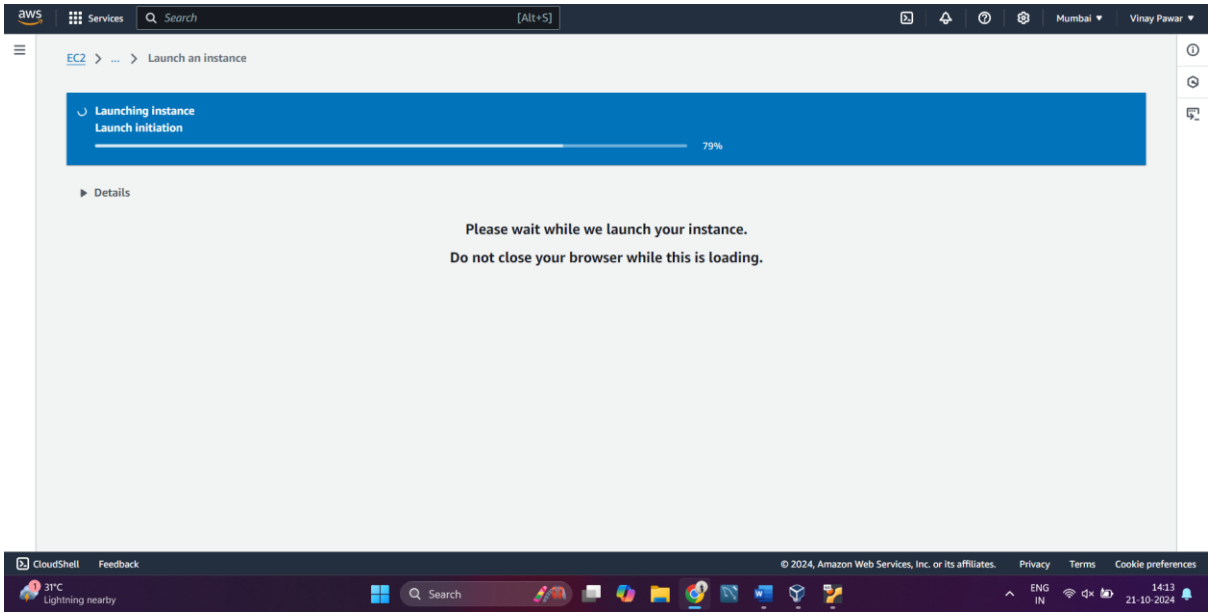
Select instance type t2.micro and key pair also.



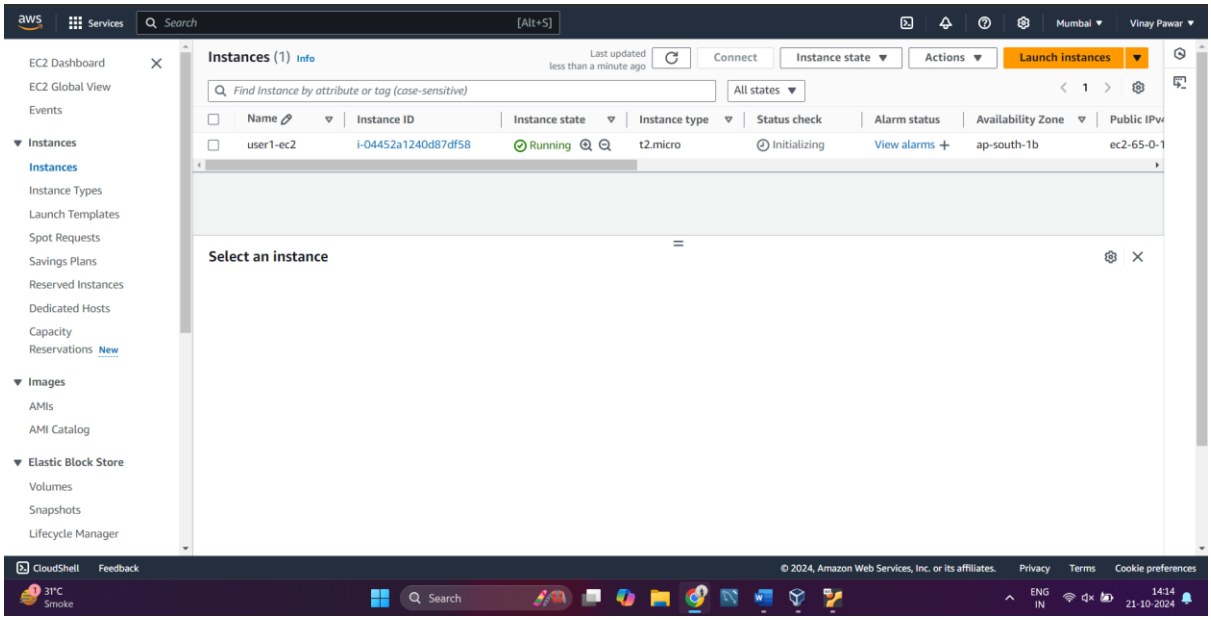
allow ssh , https, http.



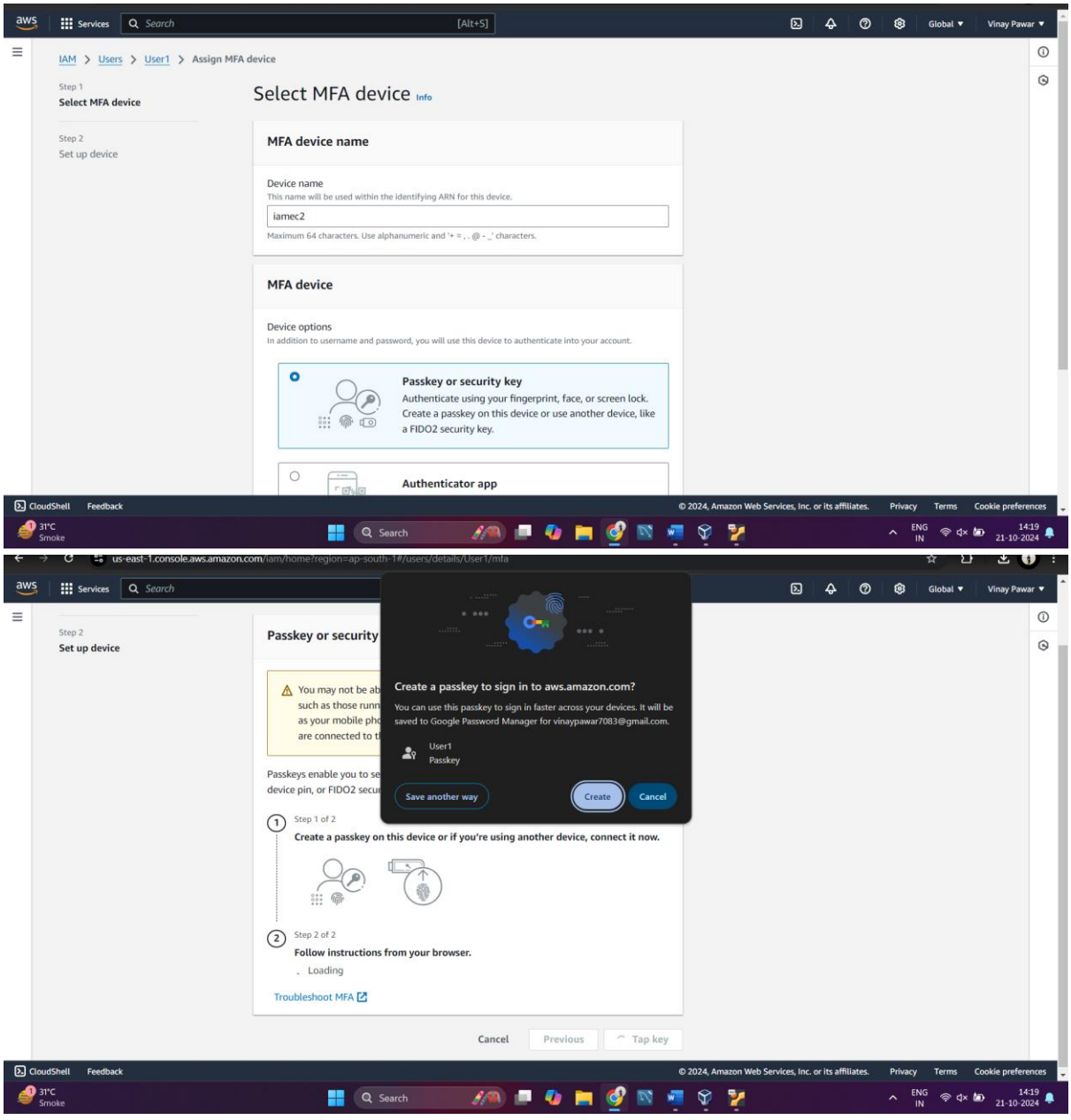
Launching instance.



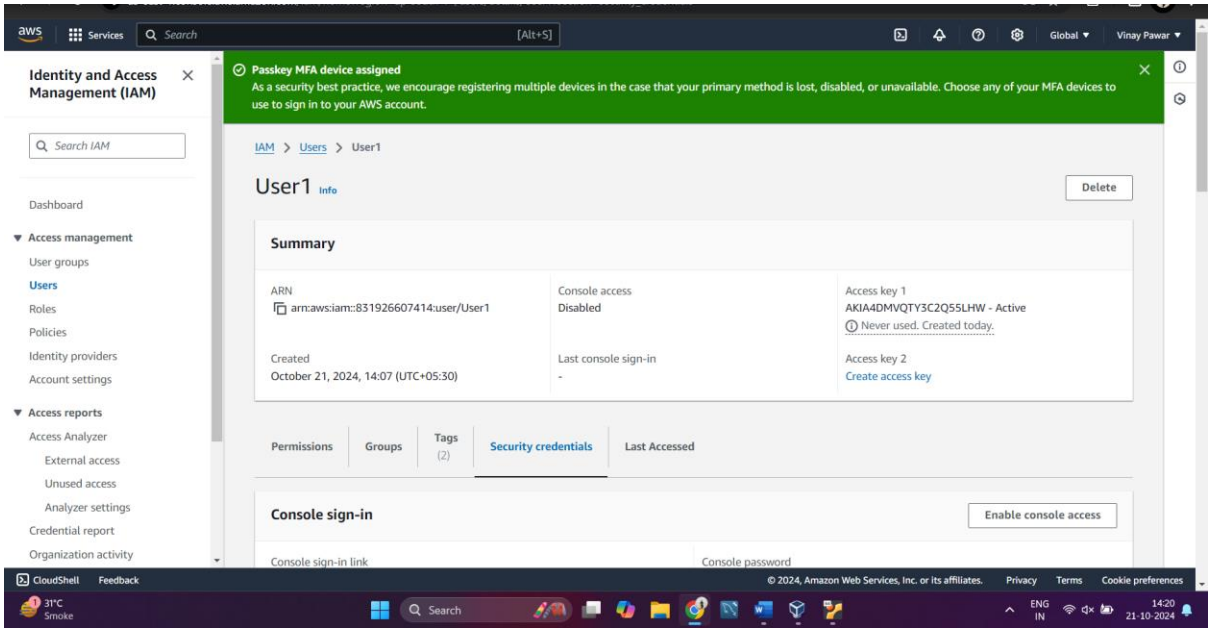
Instance is created successfully.



Assigning MFA device:

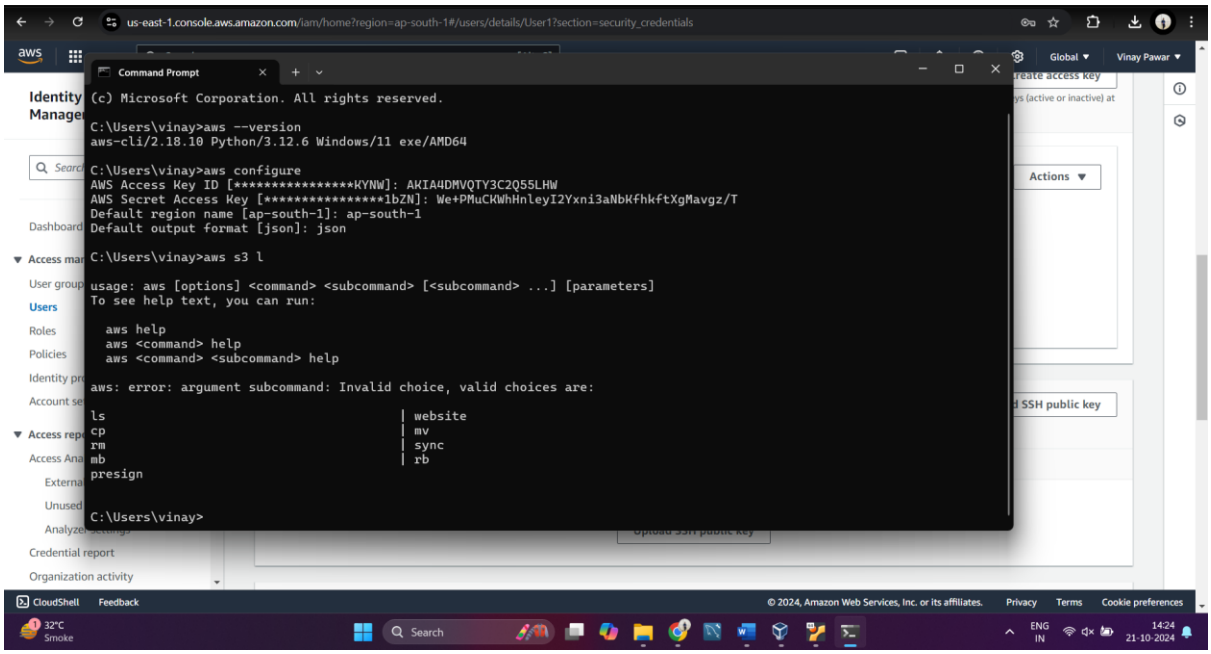


Pass-Key is: 123456



Aws CLI –

For scripting in AWS CLI we need to use cmd ,



Under cmd *"aws - - version"* this command is used to check out version of current aws cli.

After that *"aws configure"* this command is used to configure your aws setting and it will connect your IAM user to the AWS CLI,

This will need the AWS access key id which is generated under access key generator.

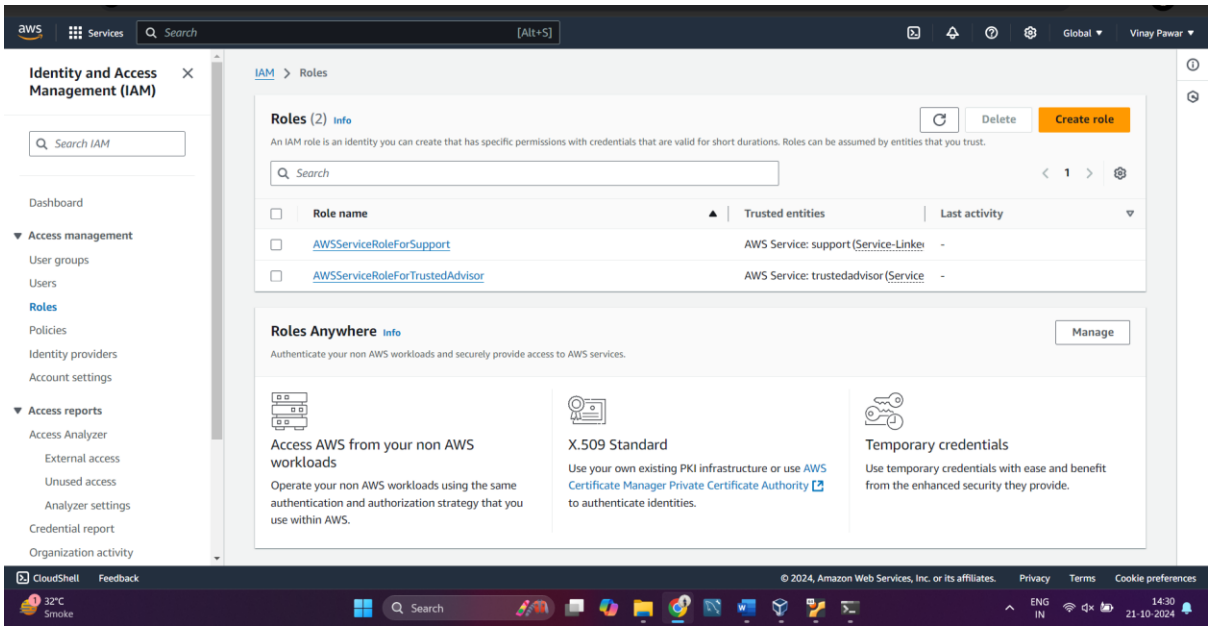
After creating AWS access key it will provide AWS access key id and AWS secret access key.

After that it will ask for region.

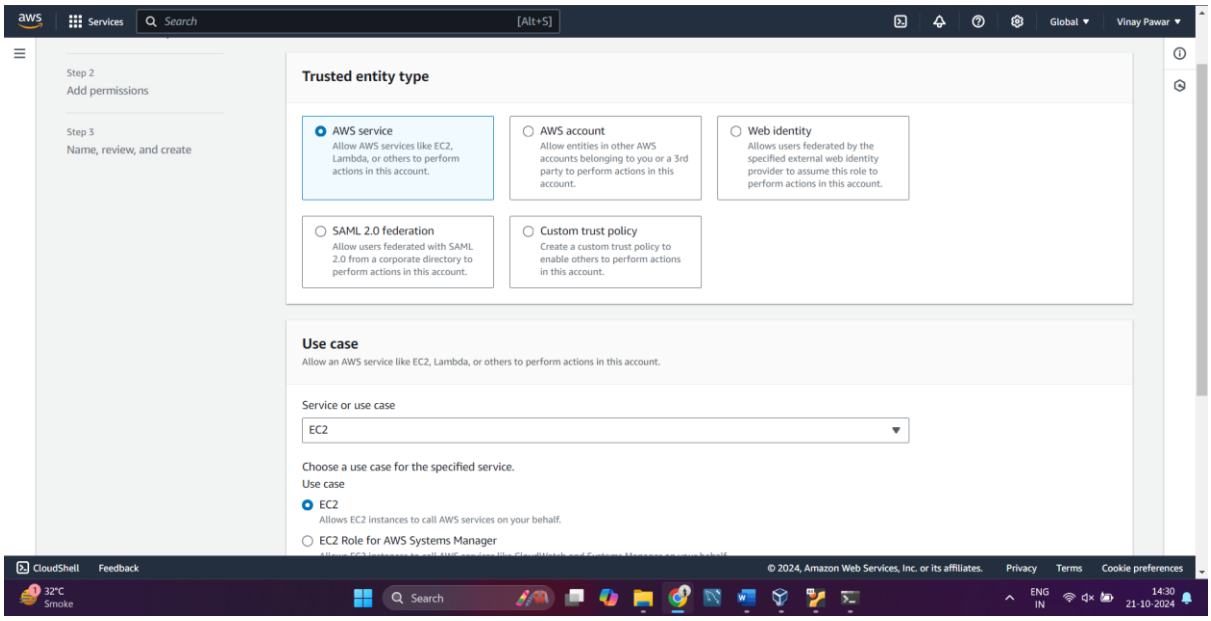
And Default output format.

After providing all the details it will connect with the user.

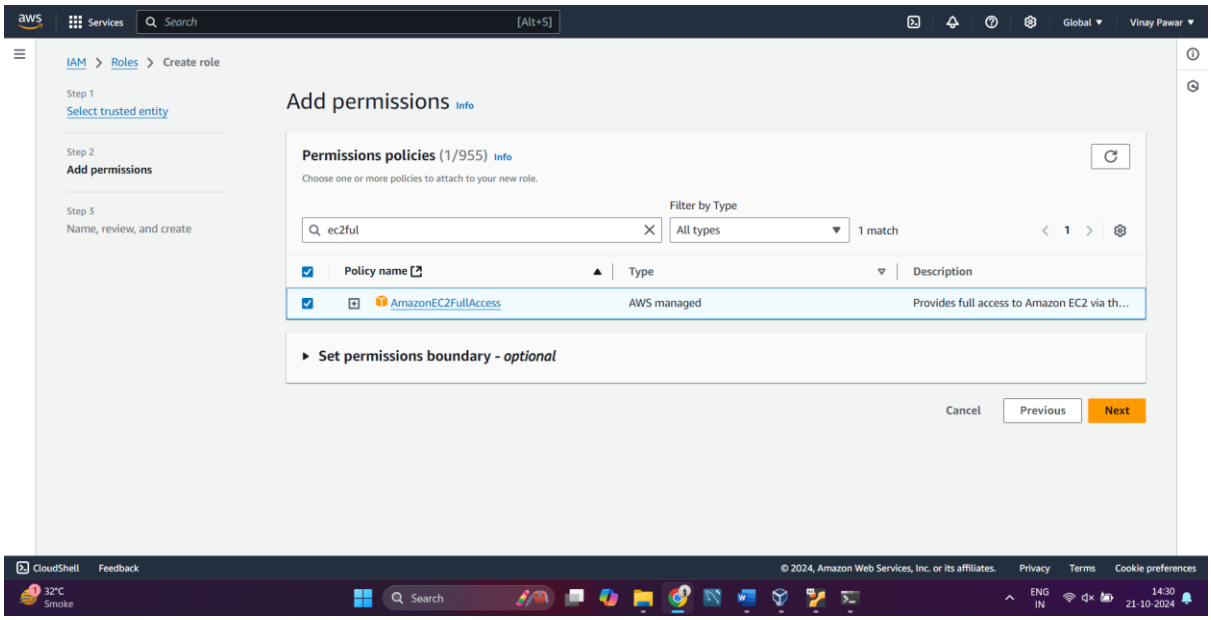
Creating role.



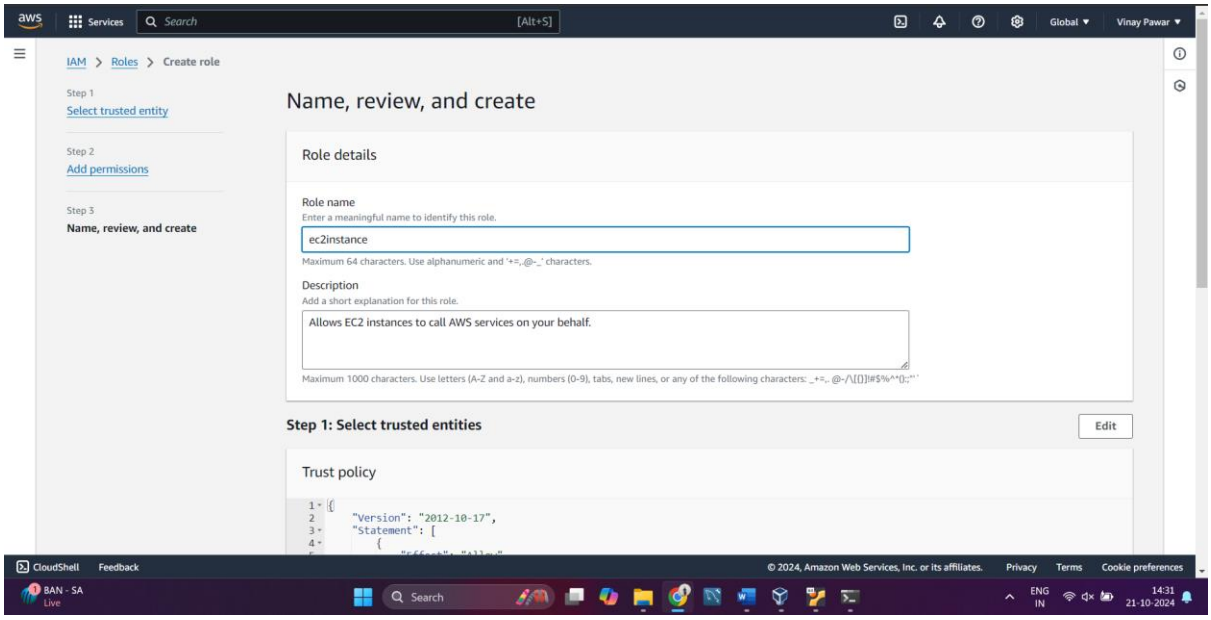
Take aws service and Use case as EC2.



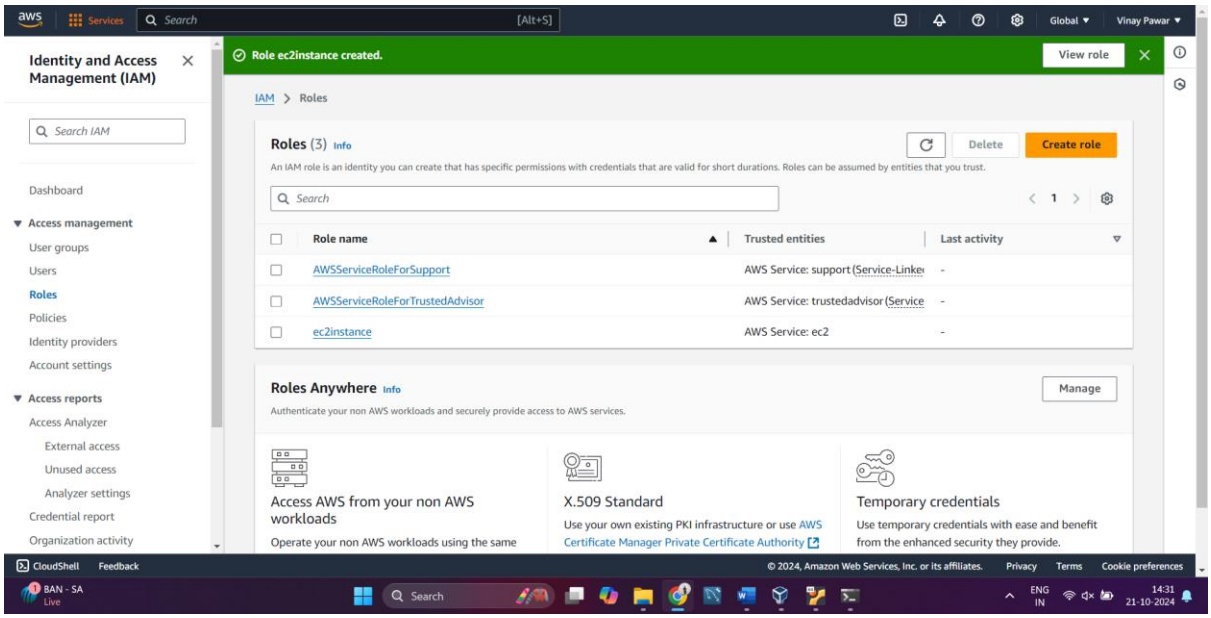
Add permission of AmazonEC2FullAccess.



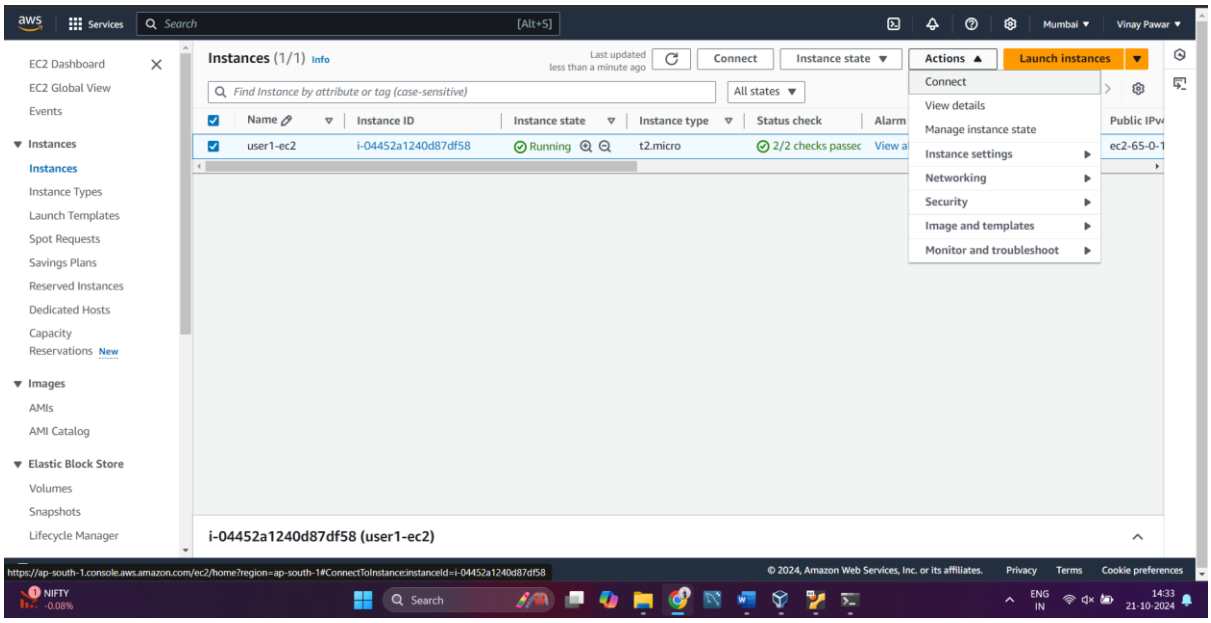
Give role name here ‘ec2instance’.



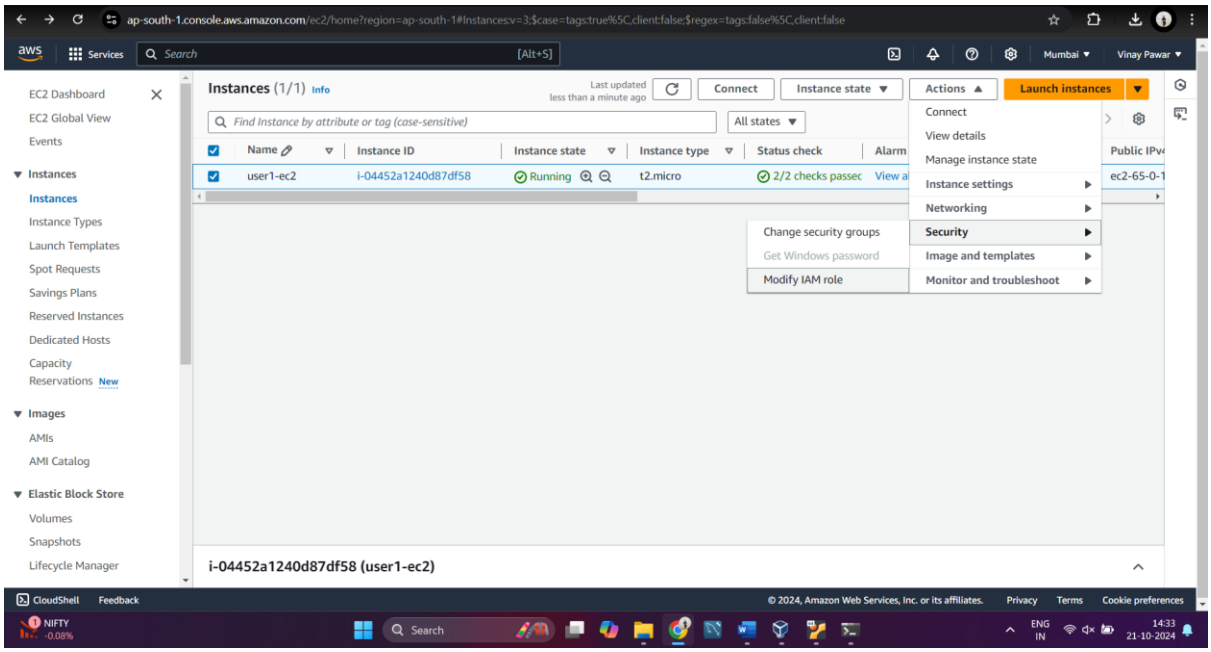
Role has been created successfully.



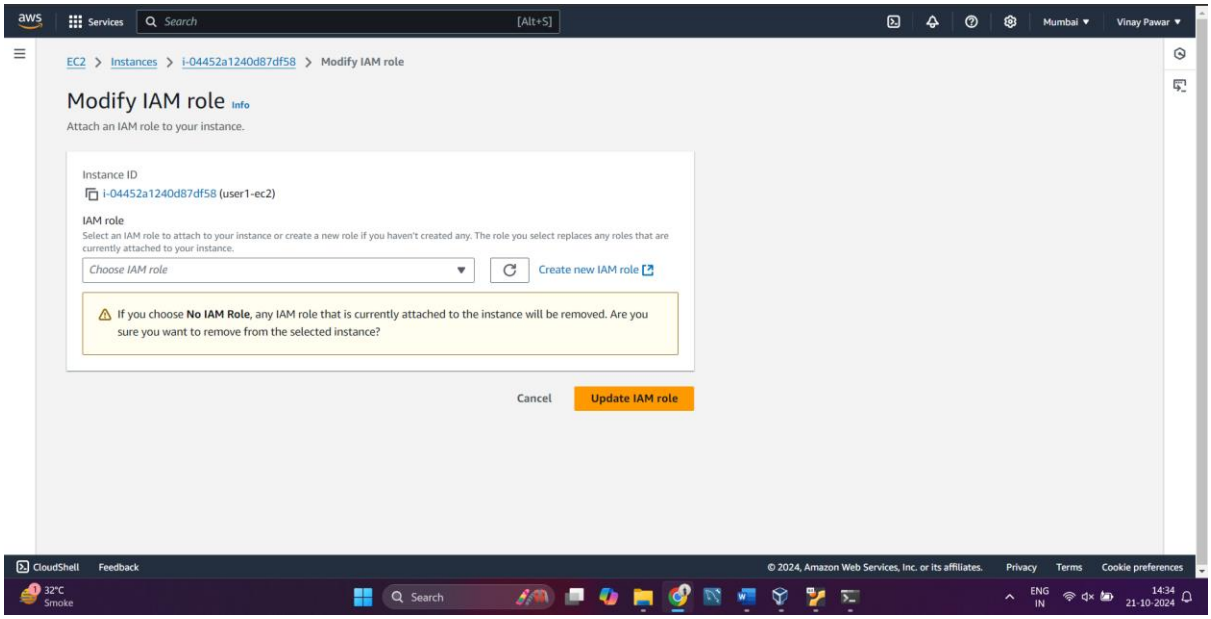
Go under EC2 dashboard. And go on Actions.

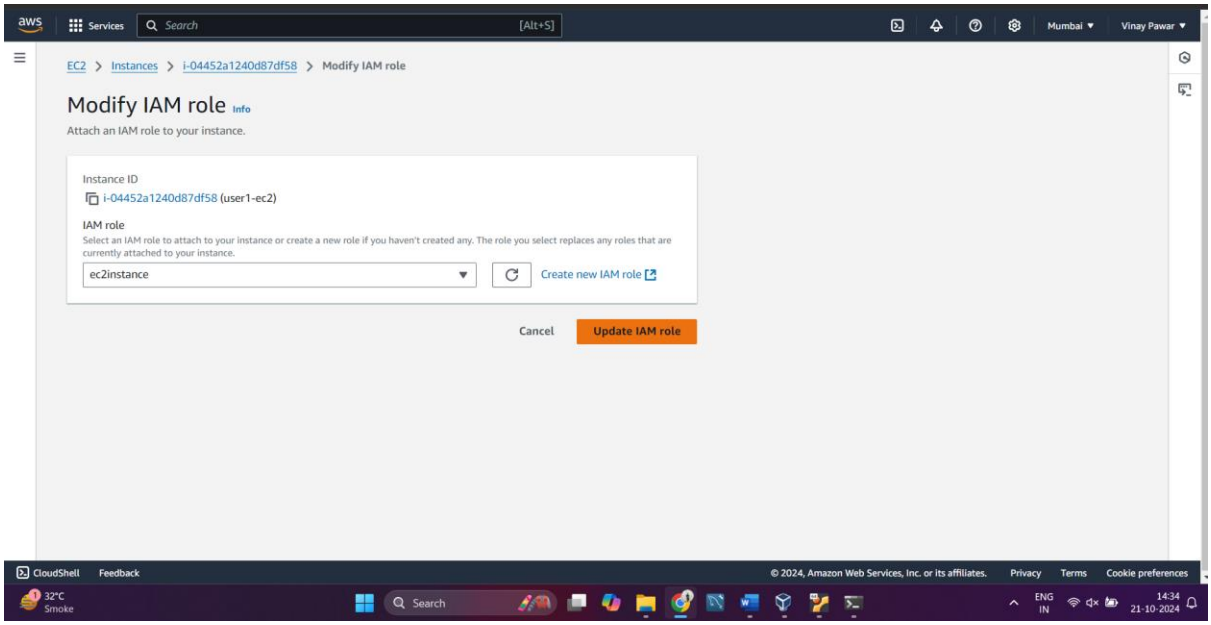


Actions → Security → Modify IAM role

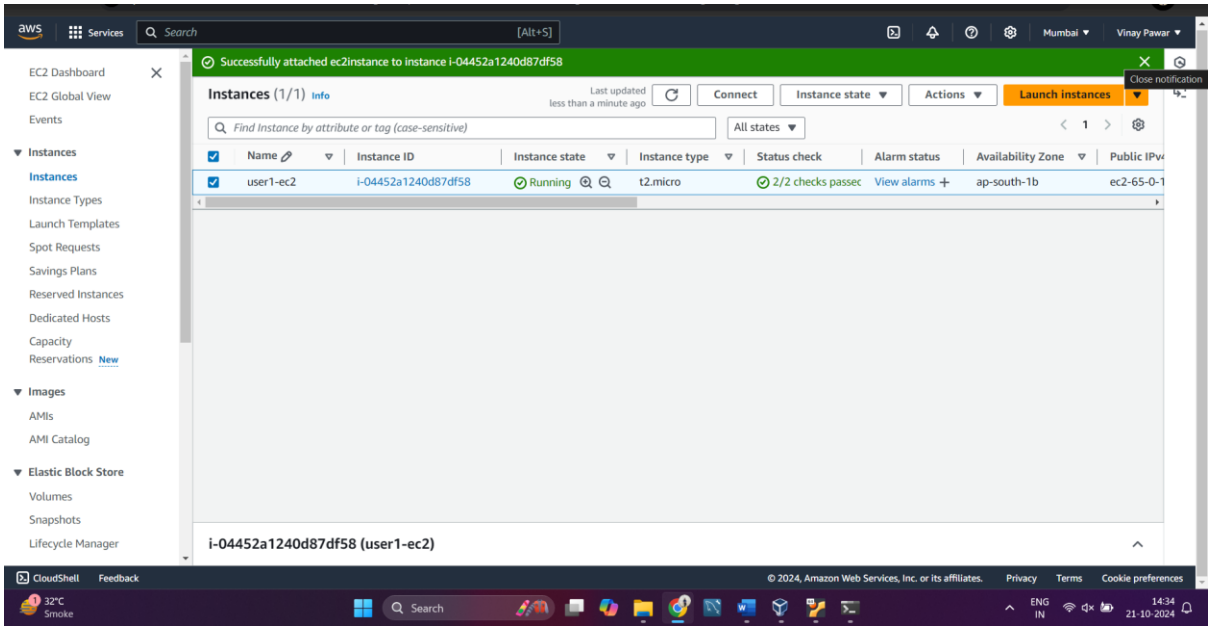


Select just created role and assign it to the EC2 instance. After that Update IAM role.

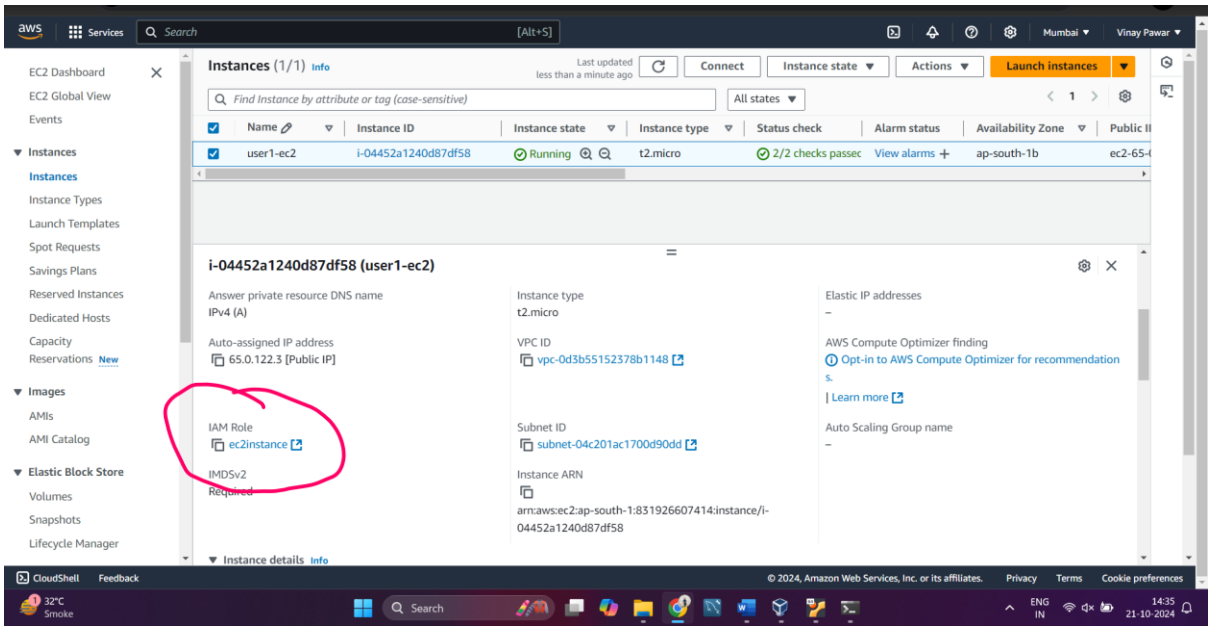




Role attached to ec2instance successfully

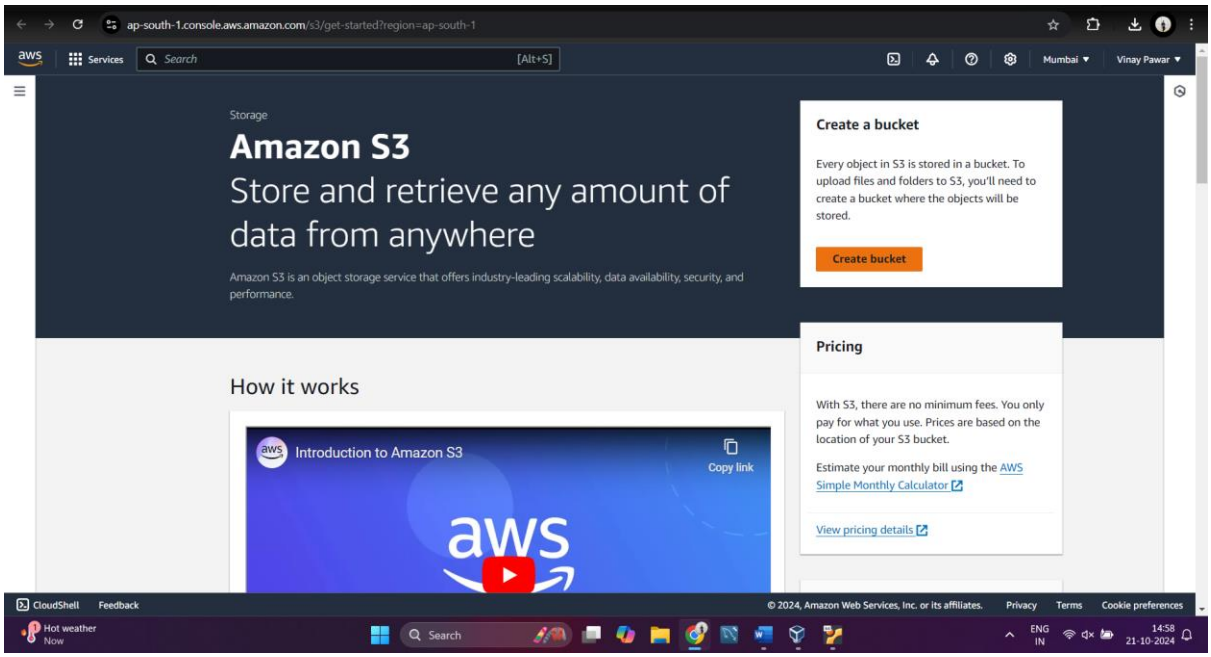


Here our IAM role is successfully attached to the EC2 instance.

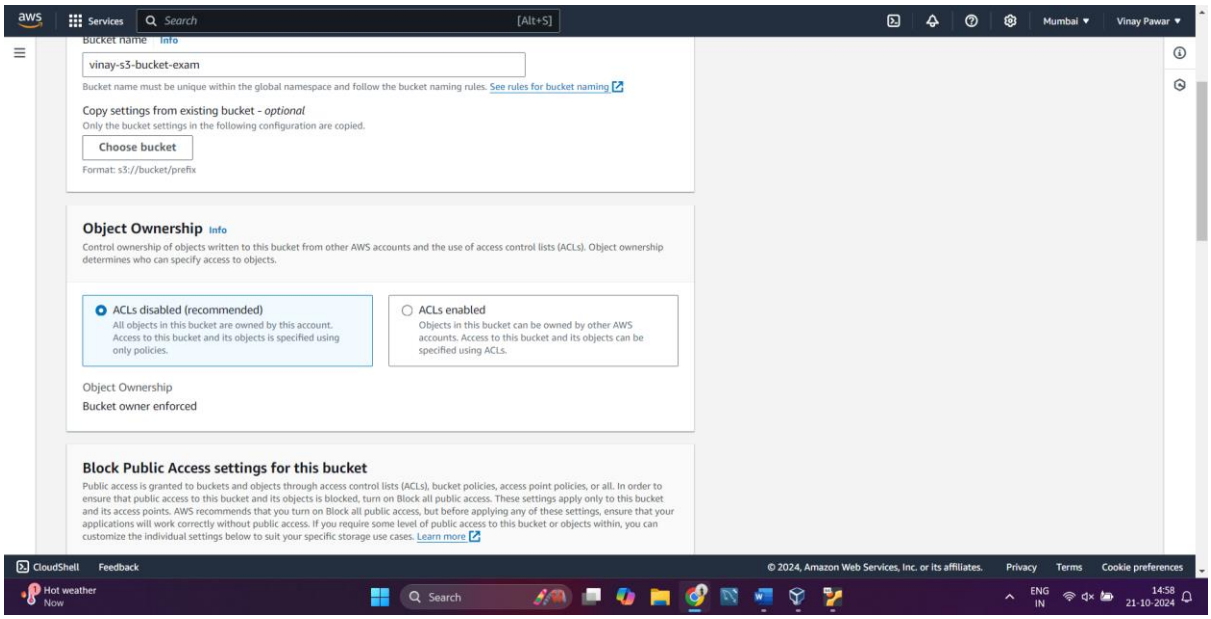


3. Create an s3 bucket with unique name upload static html file containing a message. “Hello, welcome to my page” and configure bucket to serve as a static website.

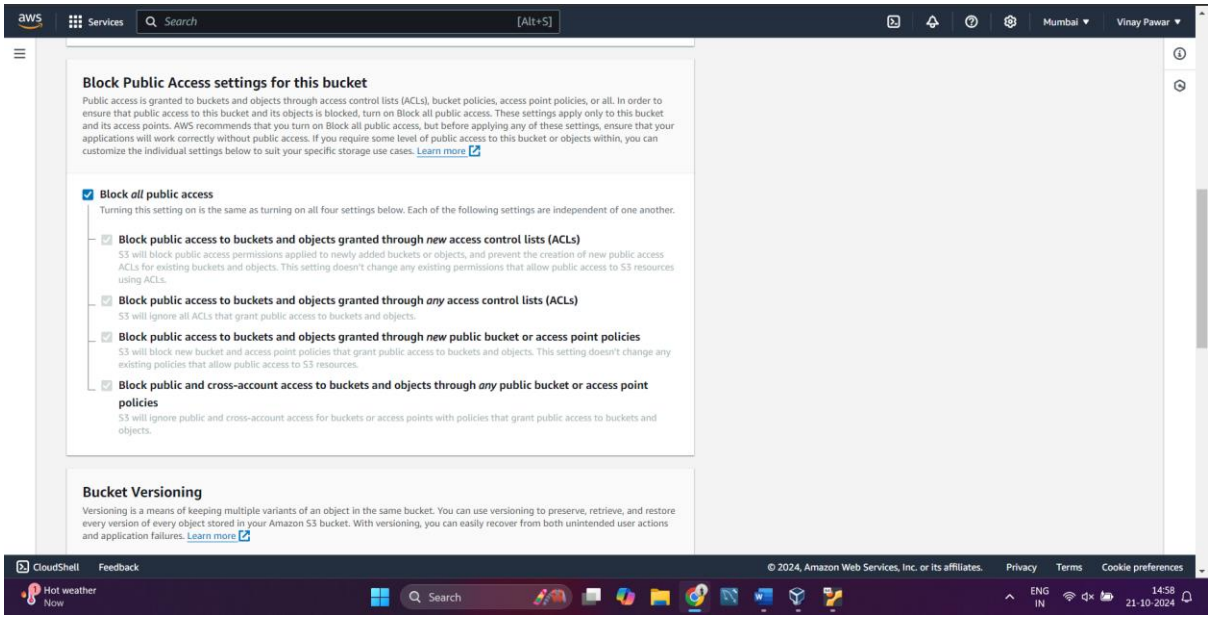
Create a S3 bucket.



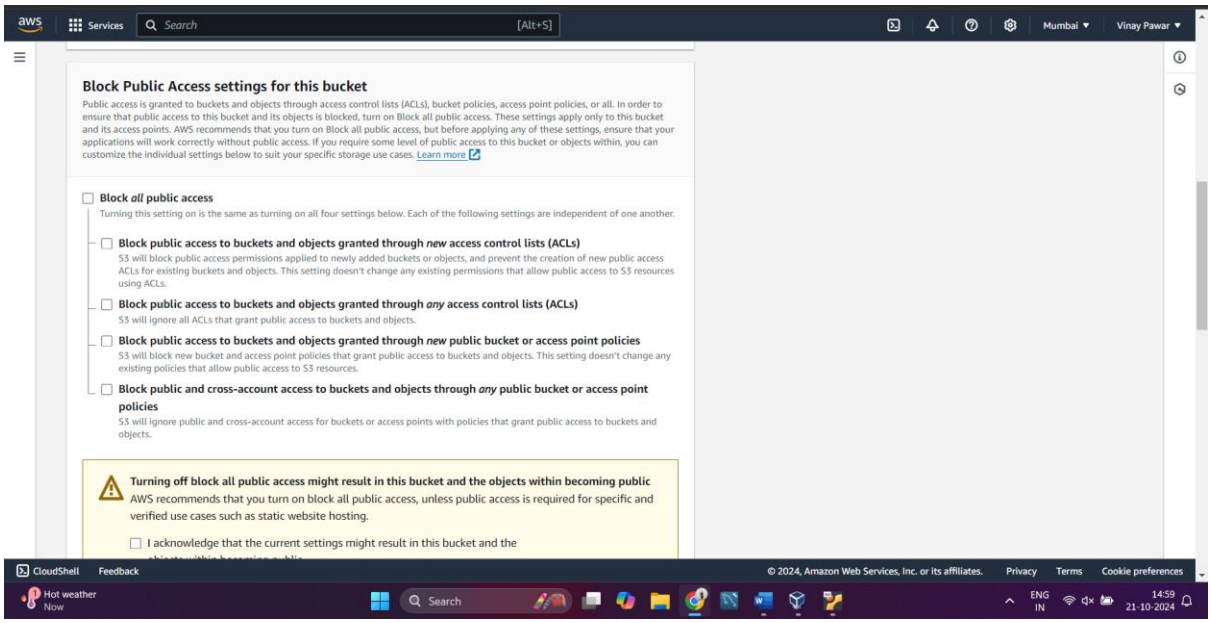
Give a unique name here ‘vinay-s3-bucket-exam’ and give object ownership as ACLs disabled.



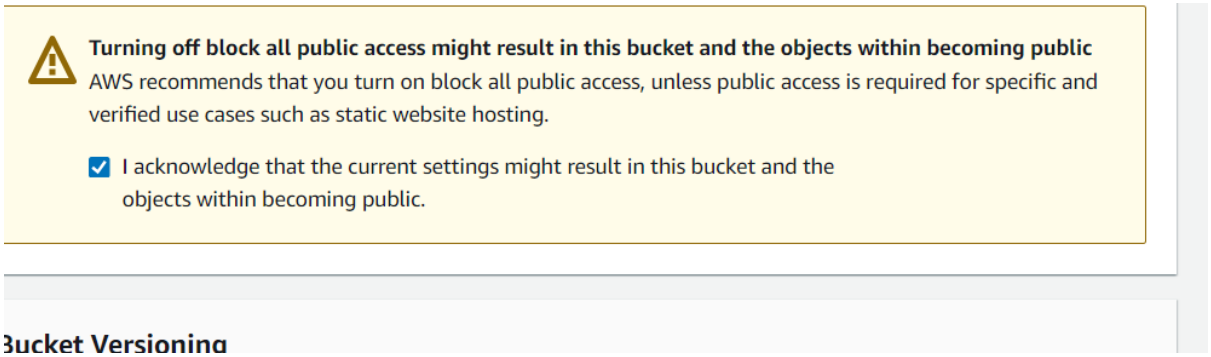
Here all the access is blocked for public we need to unchecked it because our website is for all the users not for one single user. So we need to give access as a public .



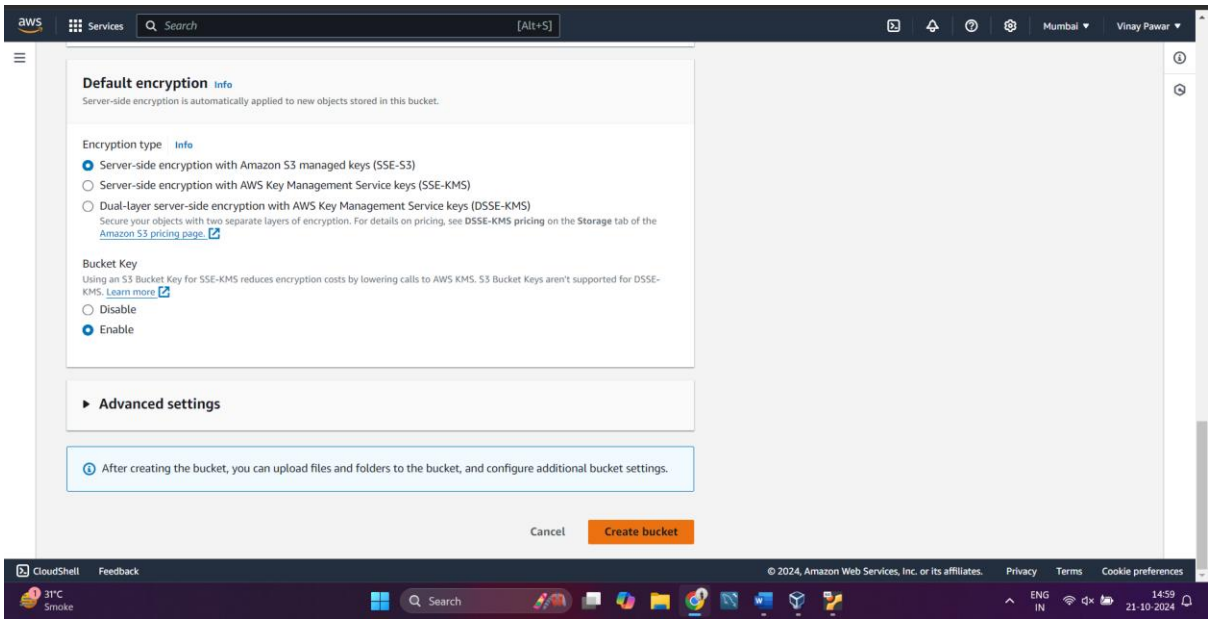
Here we are unchecking it so that our objects in the bucket will be public.



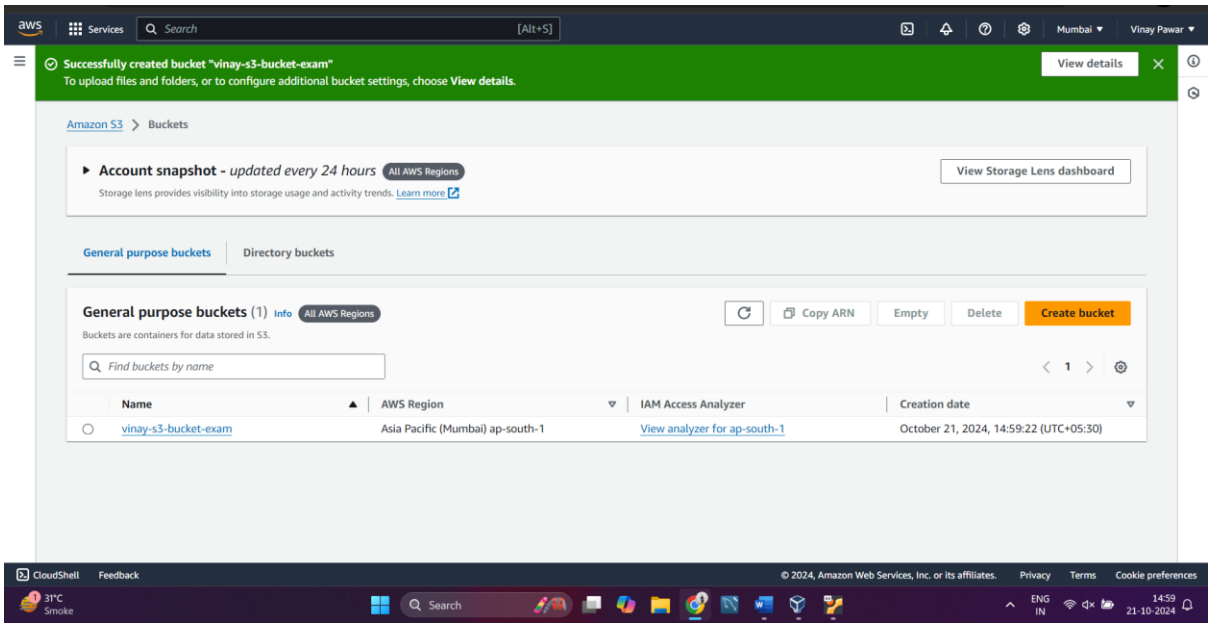
Check this box I acknowledge one…



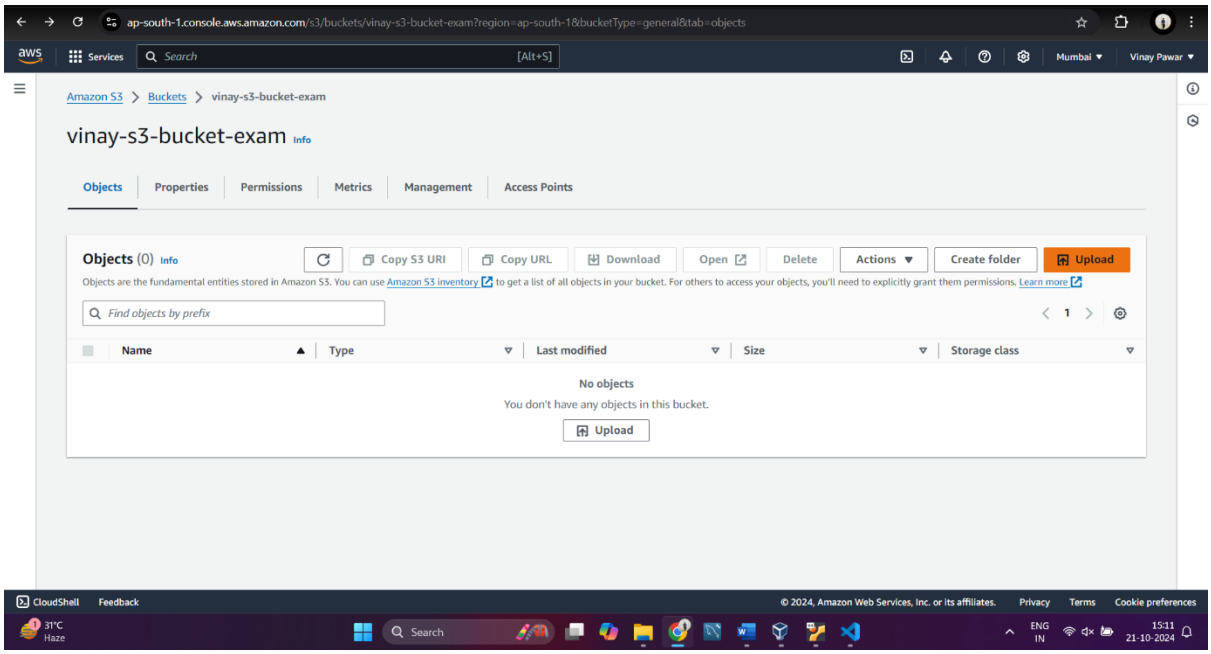
Make all remaining as a default one.



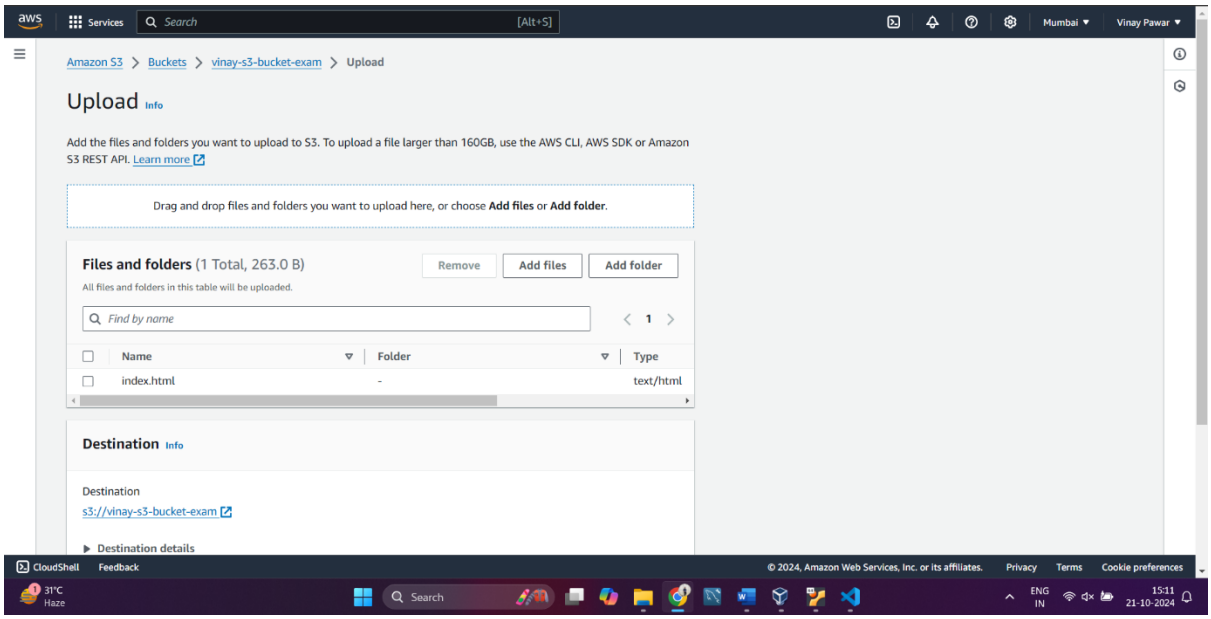
Here our s3 bucket will be created successfully.



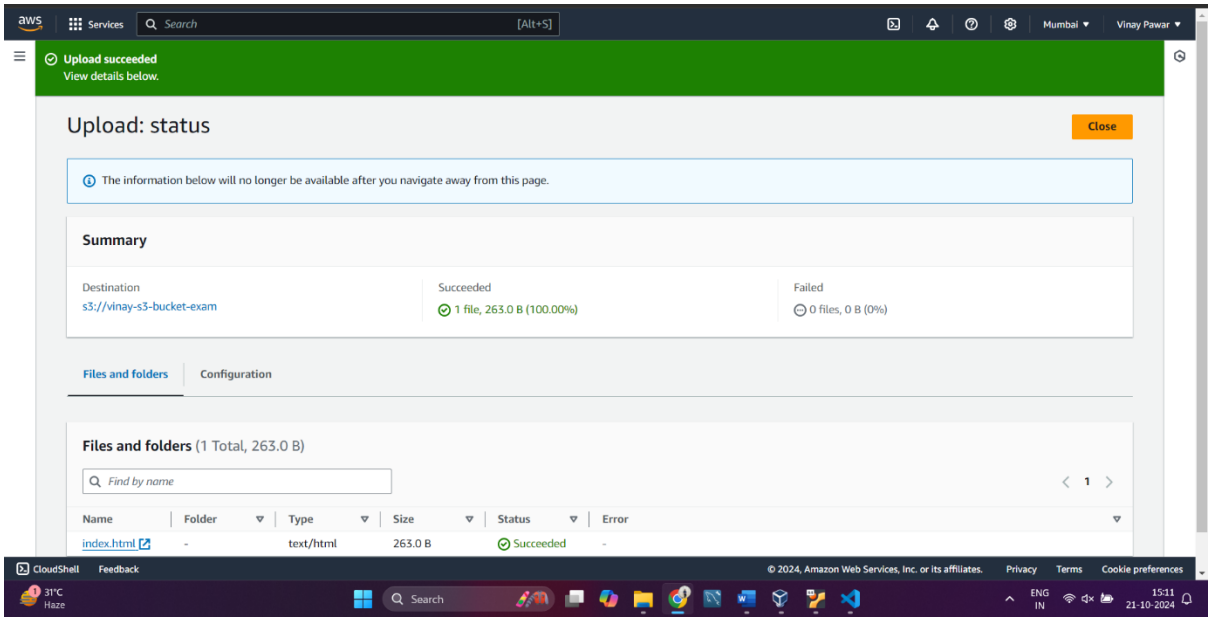
Go under Buckets and go inside created bucket.



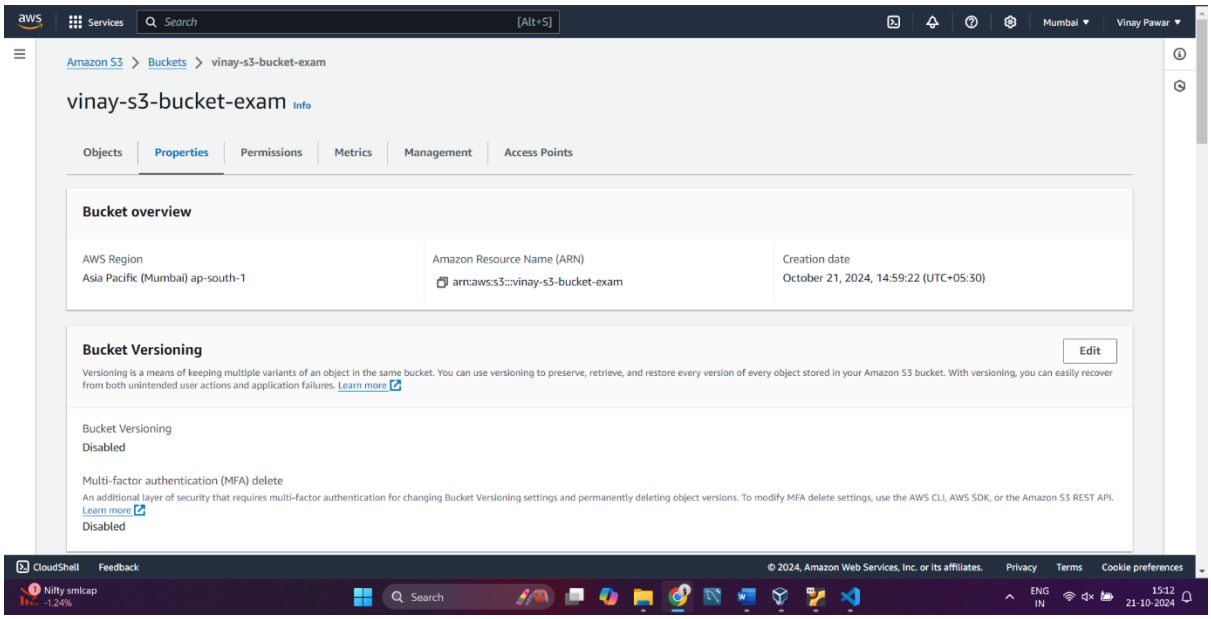
Upload a html file.



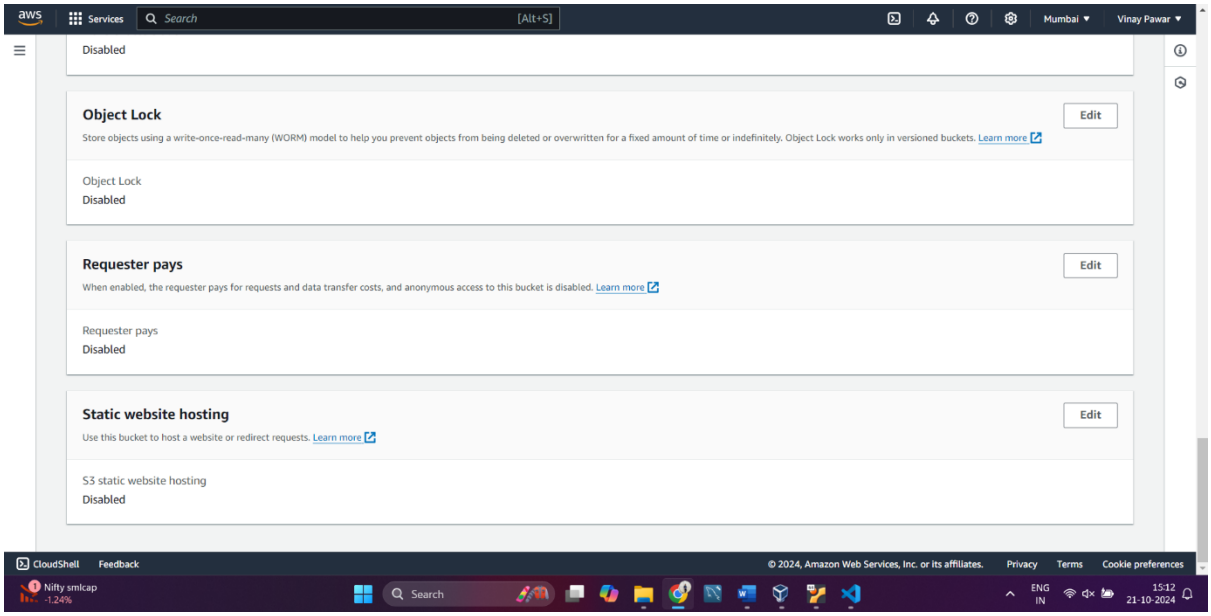
Uploaded successfully.



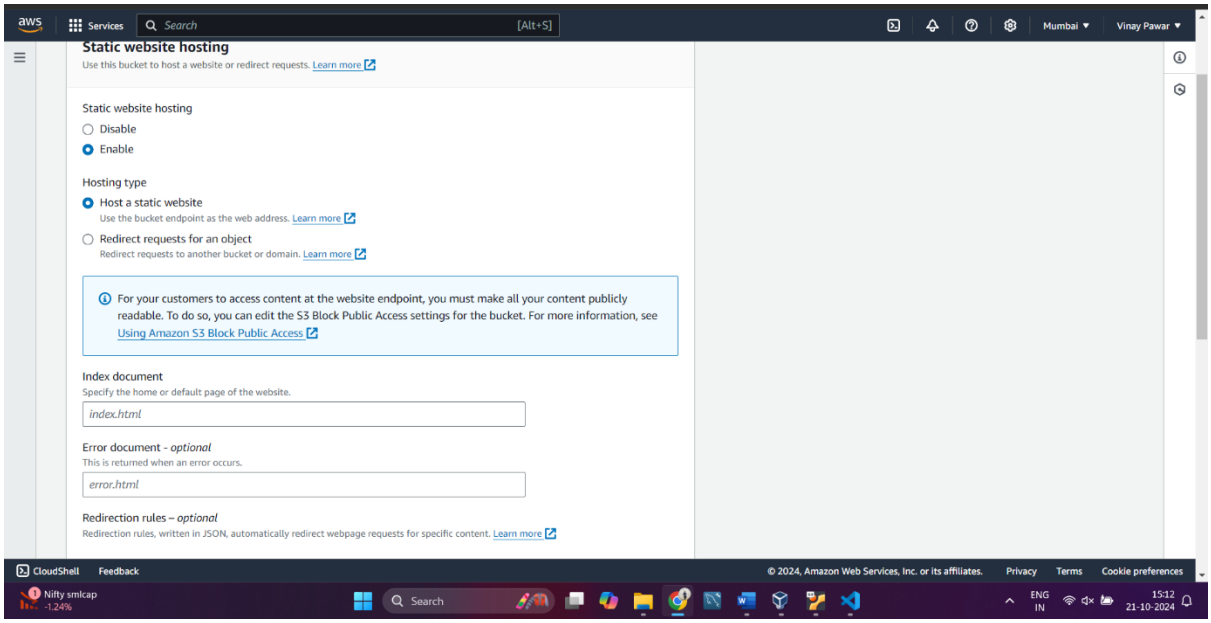
Click on that file and go under properties.



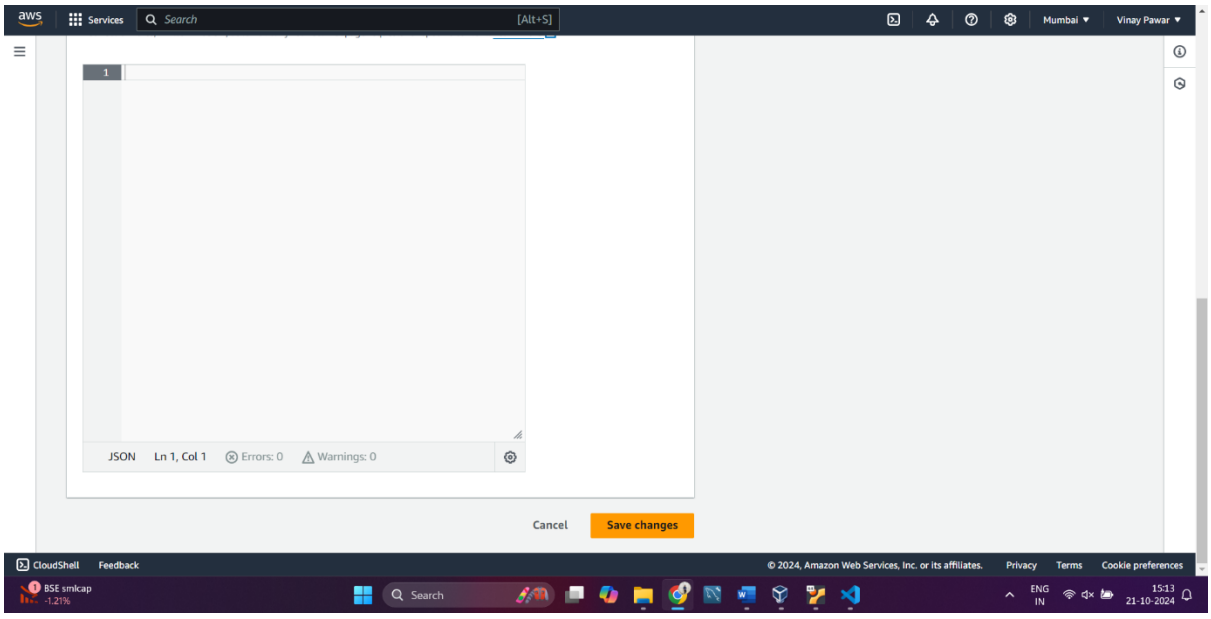
Go downside and find static website hosting.



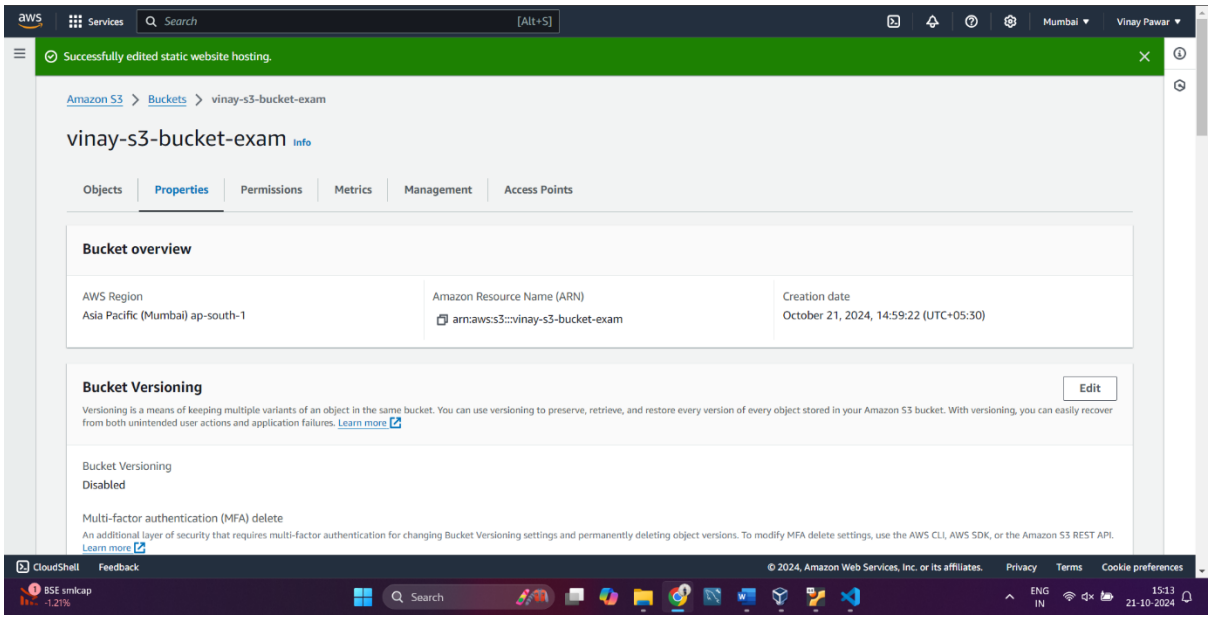
Click on edit. Initially it is disable we need to enable it.



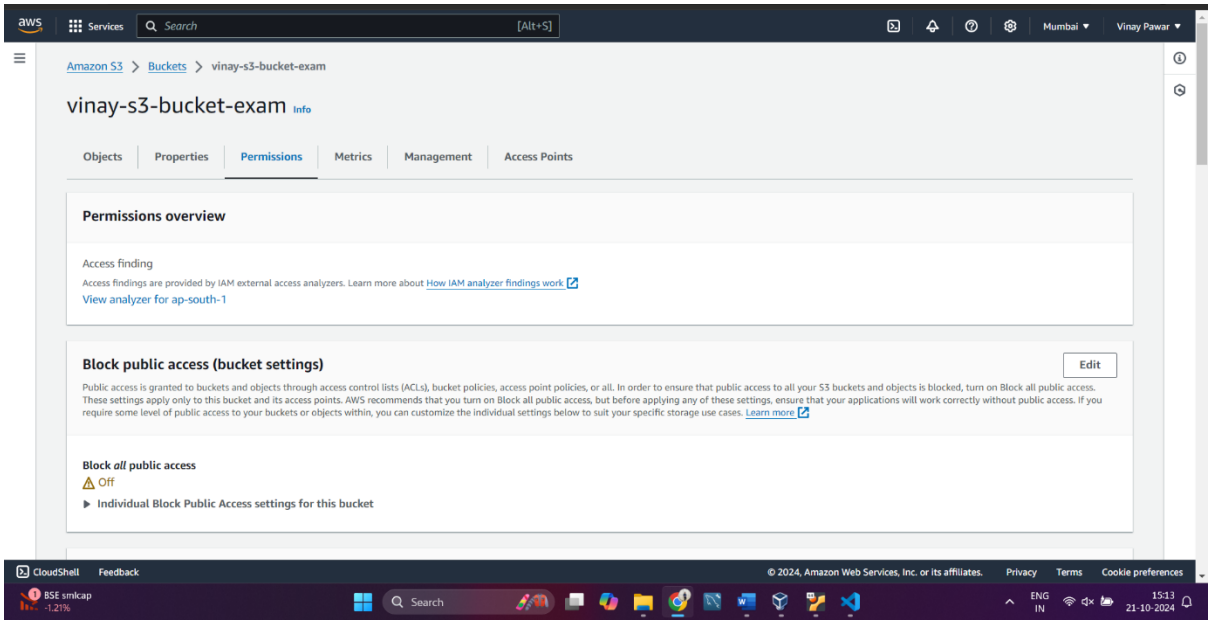
Click on save changes it will saved the changes.

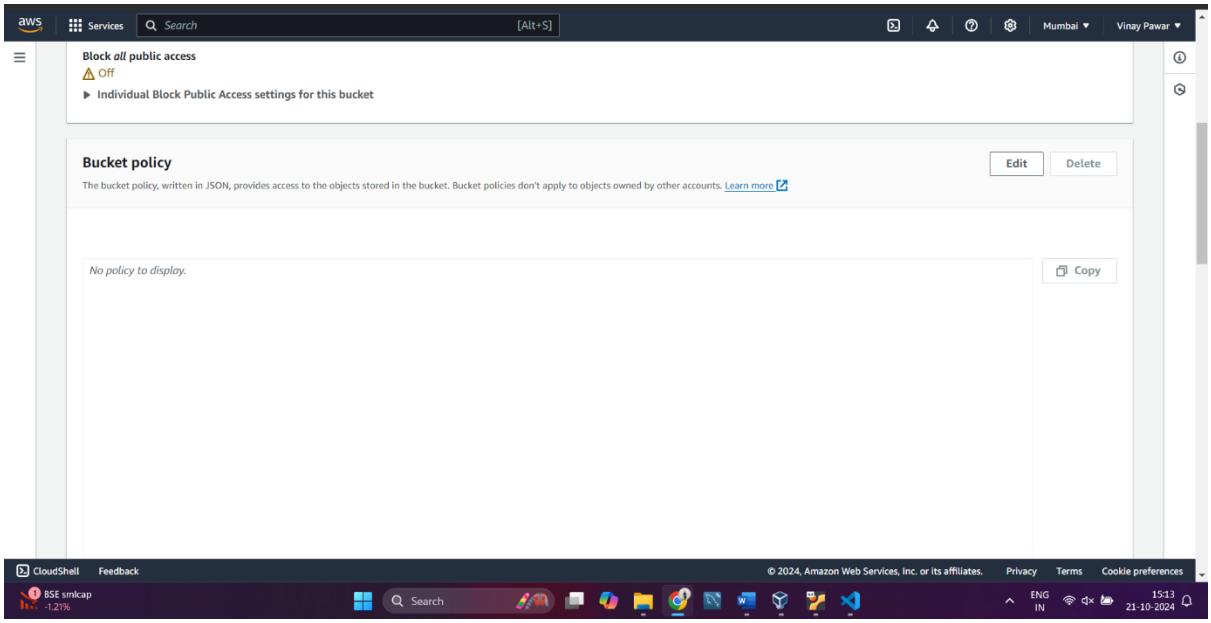


Successfully edited static website hosting.



Go under permissions and check for bucket policy.




Services
Search
[Alt+S]
Mumbai
Vinay Pawar
Block all public access
Off
Individual Block Public Access settings for this bucket
Bucket policy
Edit
Delete
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
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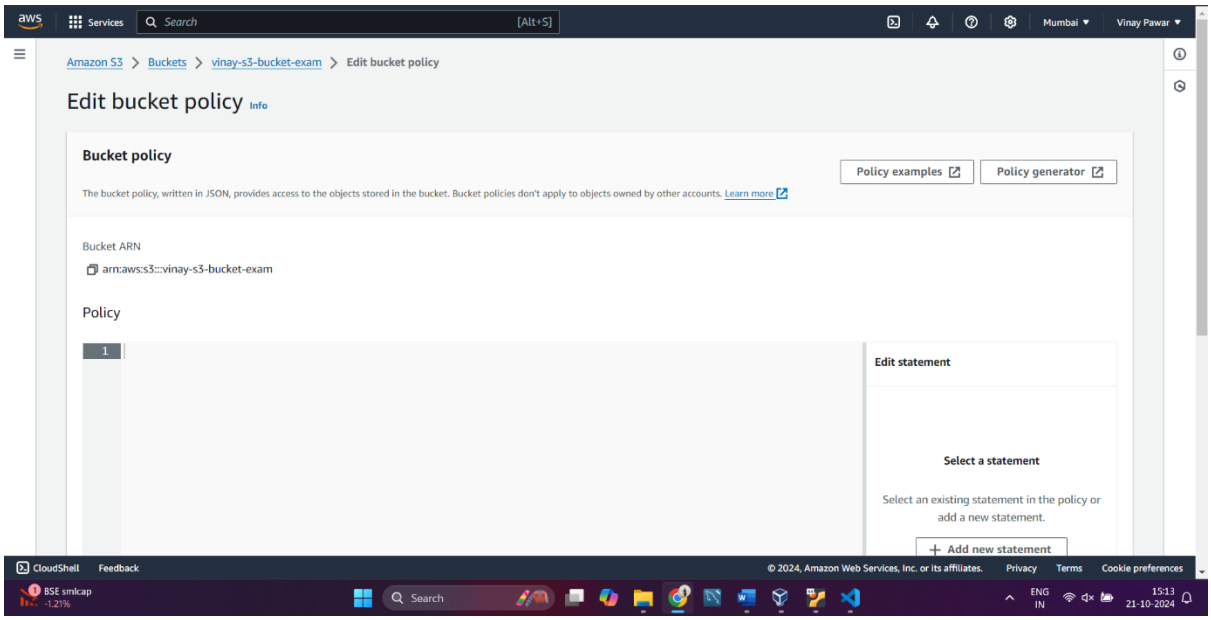
21-10-2024


Services
Search
[Alt+S]
Mumbai
Vinay Pawar
Amazon S3
Buckets
vinay-s3-bucket-exam
Edit bucket policy
Edit bucket policy
Info
Bucket policy
Policy examples
Policy generator
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
Bucket ARN
arn:aws:s3:::vinay-s3-bucket-exam
Policy
1
Edit statement
Select a statement
Select an existing statement in the policy or add a new statement.
Add new statement
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
BSE smlcap
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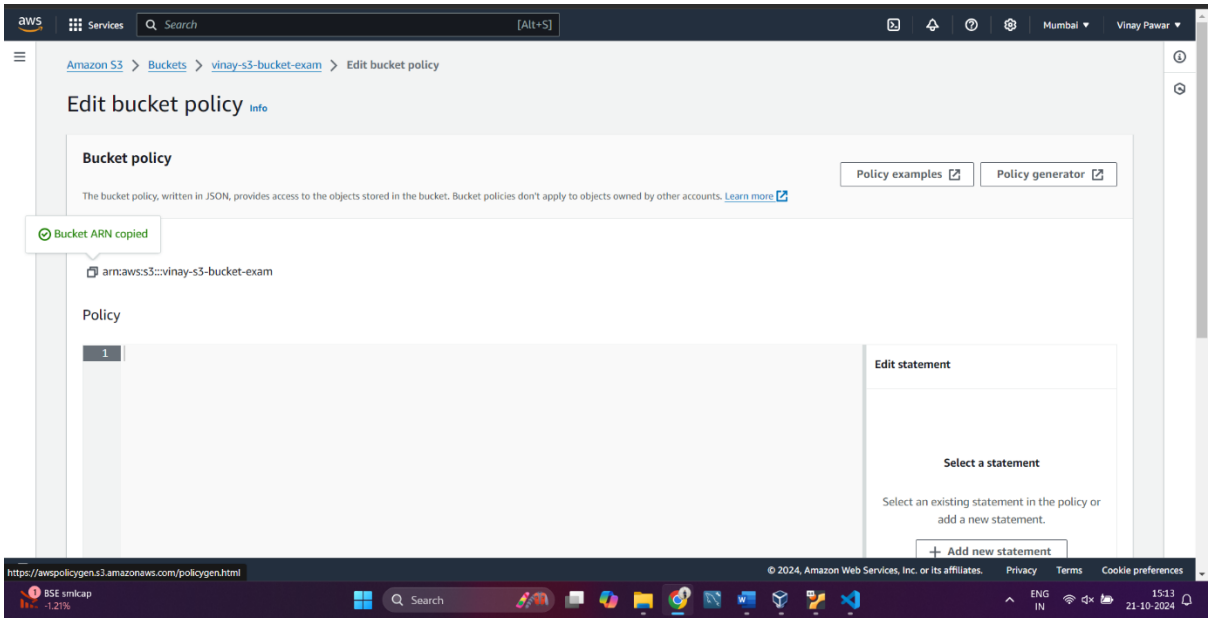
aws
Services
Search
[Alt+S]
Mumbai
Vinay Pawar
Amazon S3 > Buckets > vinay-s3-bucket-exam > Edit bucket policy
Edit bucket policy Info
Bucket policy
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The bucket policy, written in JSON, provides access to the objects stored in the bucket. Bucket policies don't apply to objects owned by other accounts. Learn more
Bucket ARN copied
arn:aws:s3:::vinay-s3-bucket-exam
Policy
1
Edit statement
Select a statement
Select an existing statement in the policy or add a new statement.
+ Add new statement
https://awspolicygen.s3.amazonaws.com/policygen.html
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Privacy
Terms
Cookie preferences
BSE smlcap
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Search
ENG
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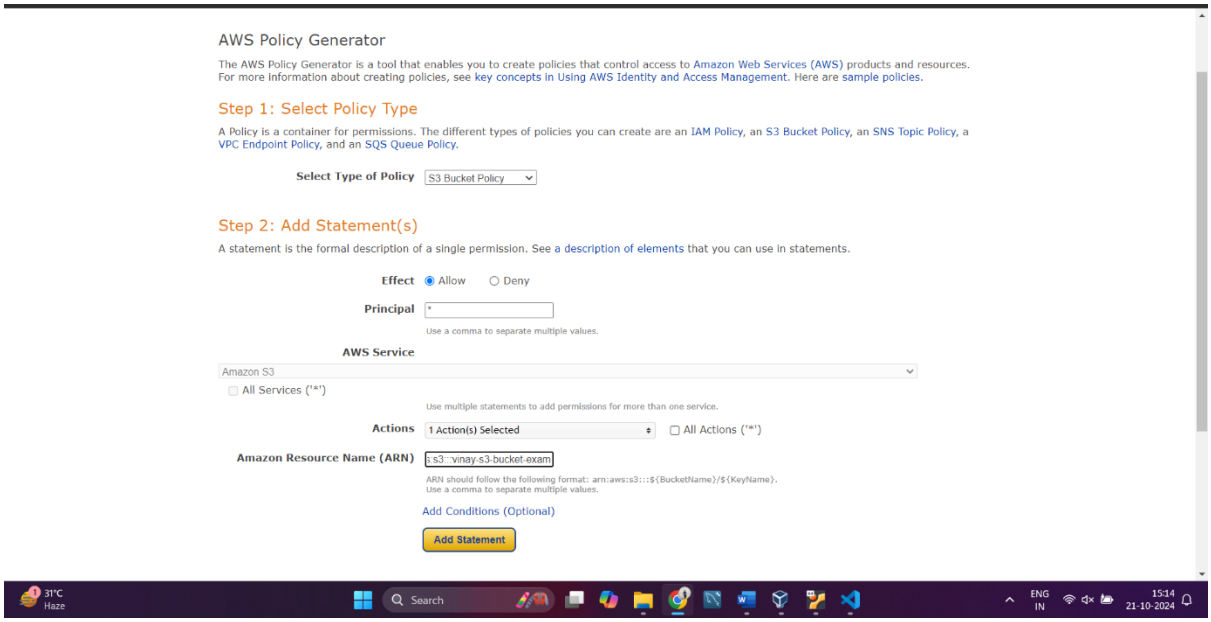
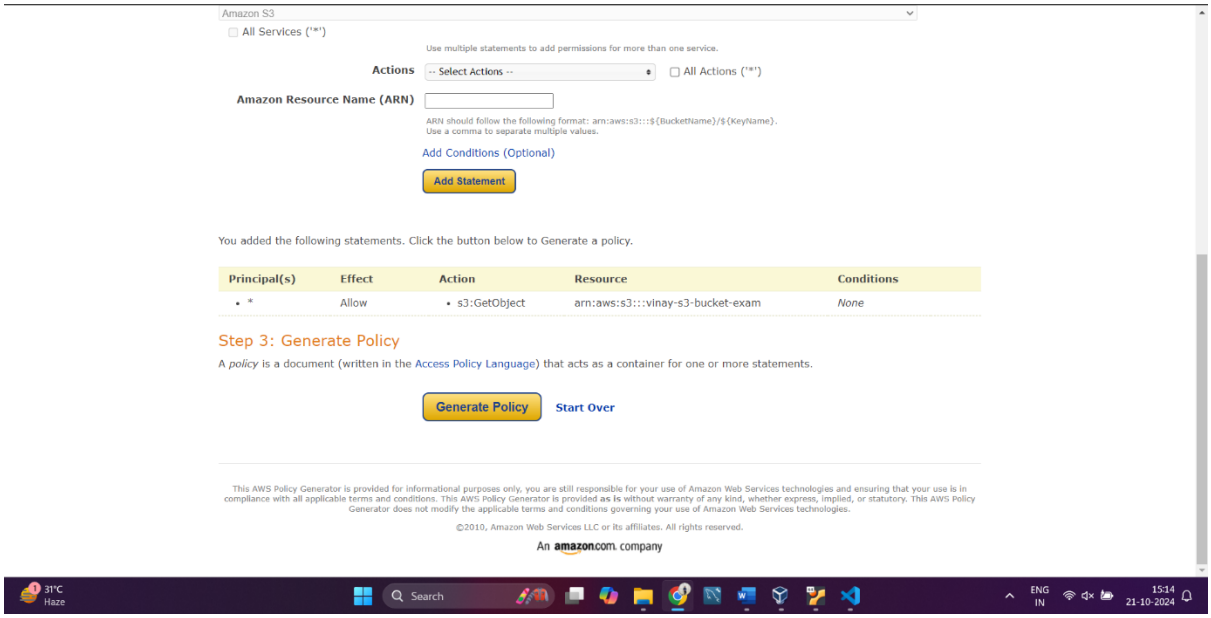
21-10-2024


AWS Policy Generator
The AWS Policy Generator is a tool that enables you to create policies that control access to Amazon Web Services (AWS) products and resources. For more information about creating policies, see key concepts in Using AWS Identity and Access Management. Here are sample policies.
Step 1: Select Policy Type
A Policy is a container for permissions. The different types of policies you can create are an IAM Policy, an S3 Bucket Policy, an SNS Topic Policy, a VPC Endpoint Policy, and an SQS Queue Policy.
Select Type of Policy
S3 Bucket Policy
Step 2: Add Statement(s)
A statement is the formal description of a single permission. See a description of elements that you can use in statements.
Effect
Allow
Deny
Principal
*
Use a comma to separate multiple values.
AWS Service
Amazon S3
All Services ('*')
Use multiple statements to add permissions for more than one service.
Actions
1 Action(s) Selected
All Actions ('*')
Amazon Resource Name (ARN)
s3:::vinay-s3-bucket-exam
ARN should follow the following format: arn:aws:s3:::${BucketName}/${KeyName}.
Use a comma to separate multiple values.
Add Conditions (Optional)
Add Statement
31°C
Haze
Search
ENG
IN
15:14
21-10-2024


Amazon S3
All Services ('*')
Use multiple statements to add permissions for more than one service.
Actions
-- Select Actions --
All Actions ('*')
Amazon Resource Name (ARN)
ARN should follow the following format: arn:aws:s3:::${BucketName}/${KeyName}.
Use a comma to separate multiple values.
Add Conditions (Optional)
Add Statement
You added the following statements. Click the button below to Generate a policy.
Principal(s)
Effect
Action
Resource
Conditions
*
Allow
s3:GetObject
arn:aws:s3:::vinay-s3-bucket-exam
None
Step 3: Generate Policy
A policy is a document (written in the Access Policy Language) that acts as a container for one or more statements.
Generate Policy
Start Over
This AWS Policy Generator is provided for informational purposes only, you are still responsible for your use of Amazon Web Services technologies and ensuring that your use is in compliance with all applicable terms and conditions. This AWS Policy Generator is provided as is without warranty of any kind, whether express, implied, or statutory. This AWS Policy Generator does not modify the applicable terms and conditions governing your use of Amazon Web Services technologies.
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Haze
Search
ENG
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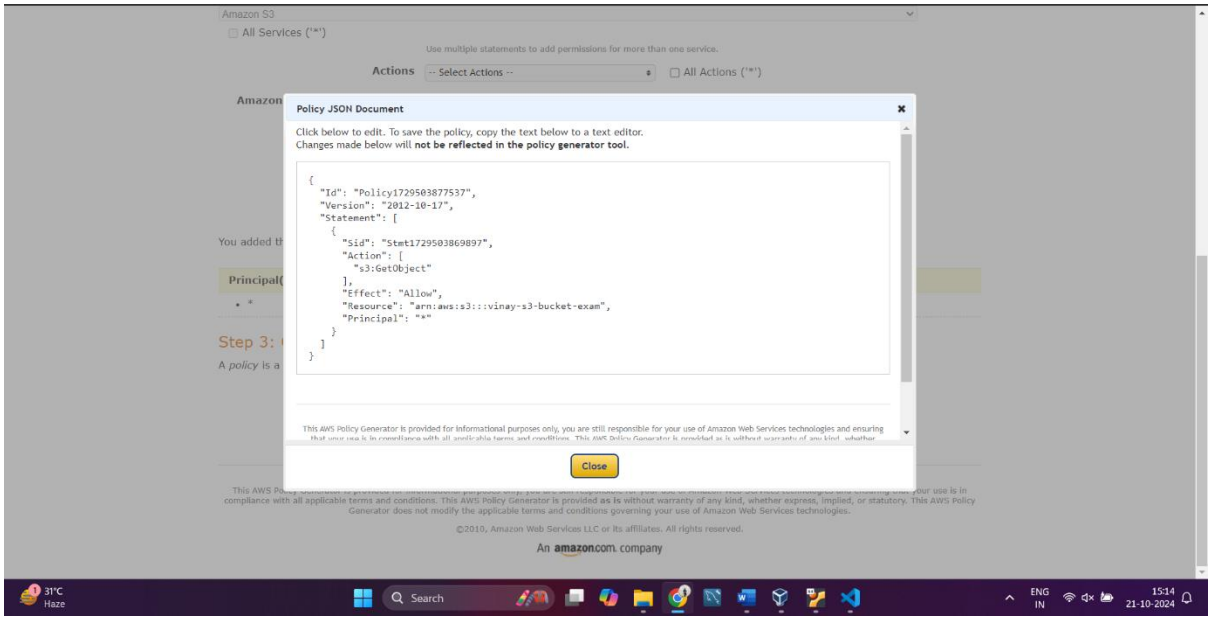
21-10-2024


Amazon S3
All Services ('*')
Use multiple statements to add permissions for more than one service.
Actions
-- Select Actions --
All Actions ('*')
Policy JSON Document
Click below to edit. To save the policy, copy the text below to a text editor.
Changes made below will not be reflected in the policy generator tool.
{
"Id": "Policy1729503877537",
"Version": "2012-10-17",
"Statement": [
{
"Sid": "Stmt1729503869897",
"Action": [
"s3:GetObject"
],
"Effect": "Allow",
"Resource": "arn:aws:s3:::vinay-s3-bucket-exam",
"Principal": "*"
}
]
}
Close
This AWS Policy Generator is provided for informational purposes only, you are still responsible for your use of Amazon Web Services technologies and ensuring that your use is in compliance with all applicable terms and conditions. This AWS Policy Generator is provided as is without warranty of any kind, whether express, implied, or statutory. This AWS Policy Generator does not modify the applicable terms and conditions governing your use of Amazon Web Services technologies.
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31°C
Haze
Search
ENG
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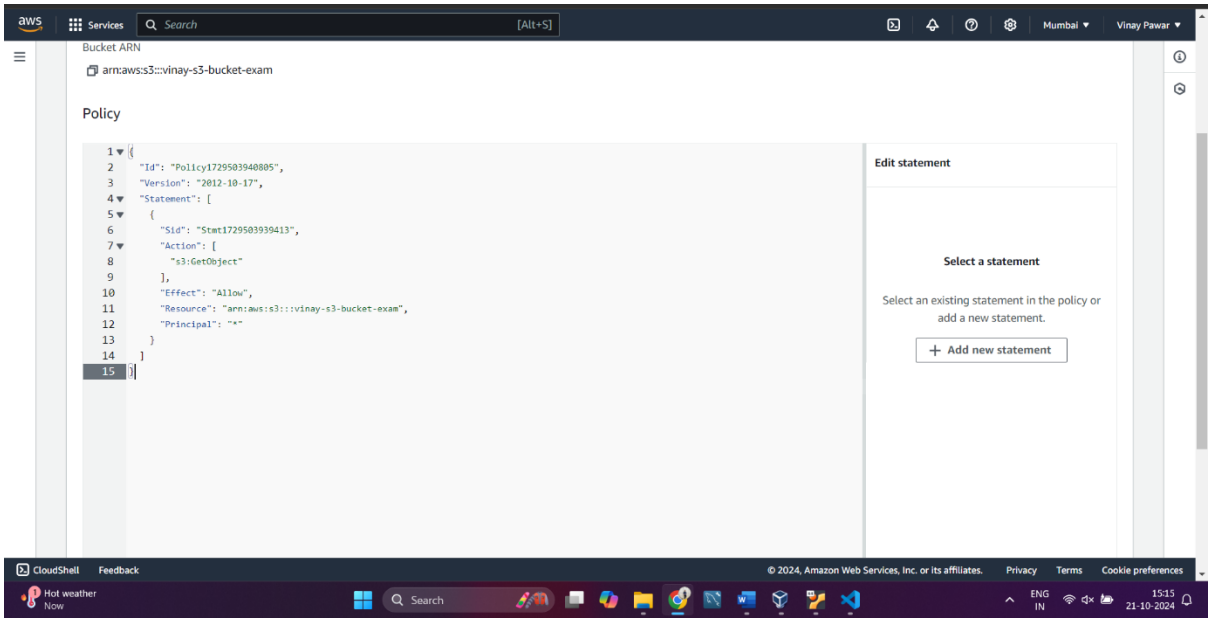
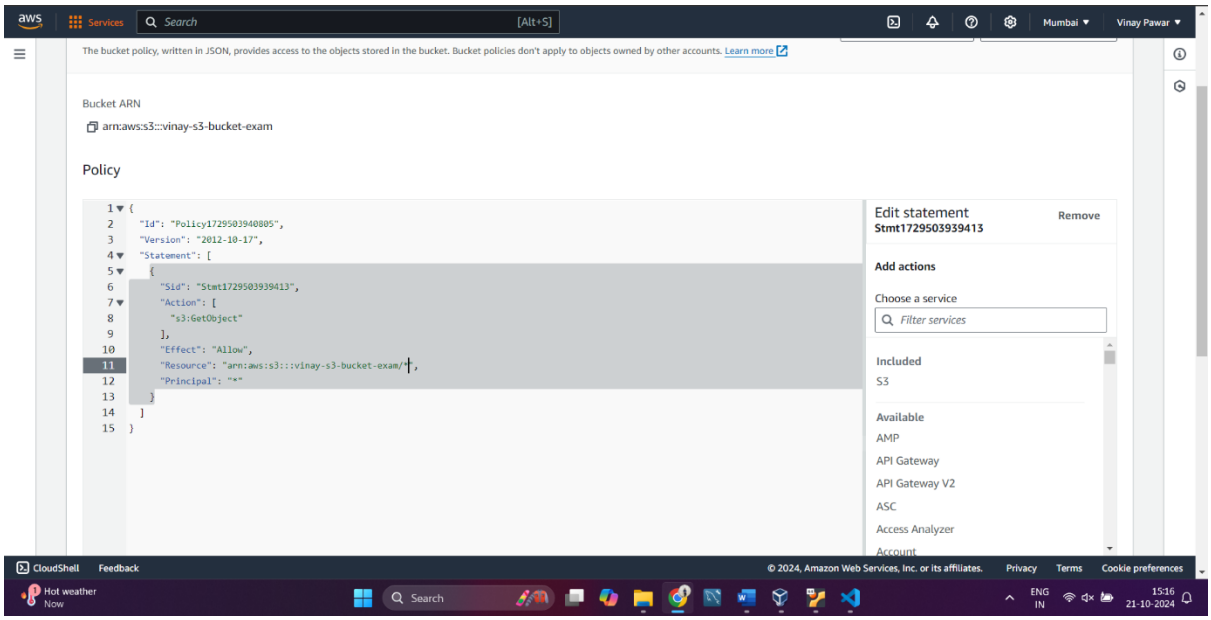
15:14
21-10-2024


aws
Services
Search
[Alt+S]
Mumbai
Vinay Pawar
Bucket ARN
arn:aws:s3:::vinay-s3-bucket-exam
Policy
{
"Id": "Policy1729503940805",
"Version": "2012-10-17",
"Statement": [
{
"Sid": "Stmt1729503939413",
"Action": [
"s3:GetObject"
],
"Effect": "Allow",
"Resource": "arn:aws:s3:::vinay-s3-bucket-exam",
"Principal": "*"
}
]
}
Edit statement
Select a statement
Select an existing statement in the policy or add a new statement.
+ Add new statement
CloudShell
Feedback
© 2024, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
Hot weather
Now
Search
ENG
IN
15:15
21-10-2024


aws
Services
Search
[Alt+S]
Mumbai
Vinay Pawar
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
Bucket ARN
arn:aws:s3:::vinay-s3-bucket-exam
Policy
{
"Id": "Policy1729503940805",
"Version": "2012-10-17",
"Statement": [
{
"Sid": "Stmt1729503939413",
"Action": [
"s3:GetObject"
],
"Effect": "Allow",
"Resource": "arn:aws:s3:::vinay-s3-bucket-exam/*",
"Principal": "*"
}
]
}
Edit statement
Stmt1729503939413
Remove
Add actions
Choose a service
Filter services
Included
S3
Available
AMP
API Gateway
API Gateway V2
ASC
Access Analyzer
Account
CloudShell
Feedback
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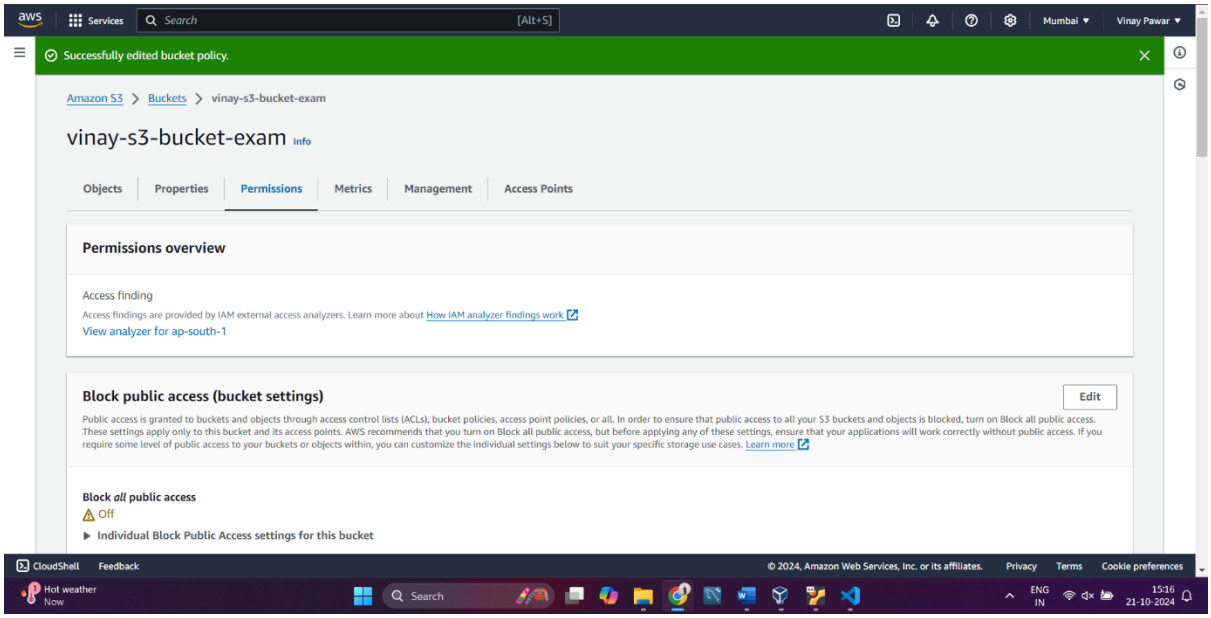
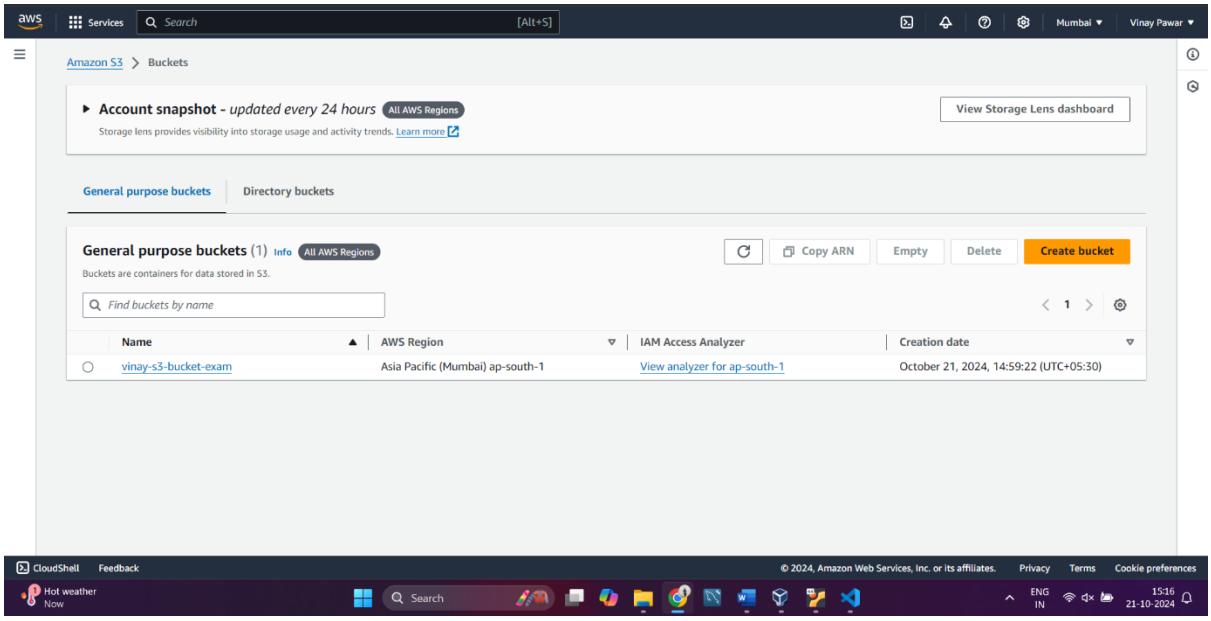
Privacy
Terms
Cookie preferences
Hot weather
Now
Search
ENG
IN
15:16
21-10-2024

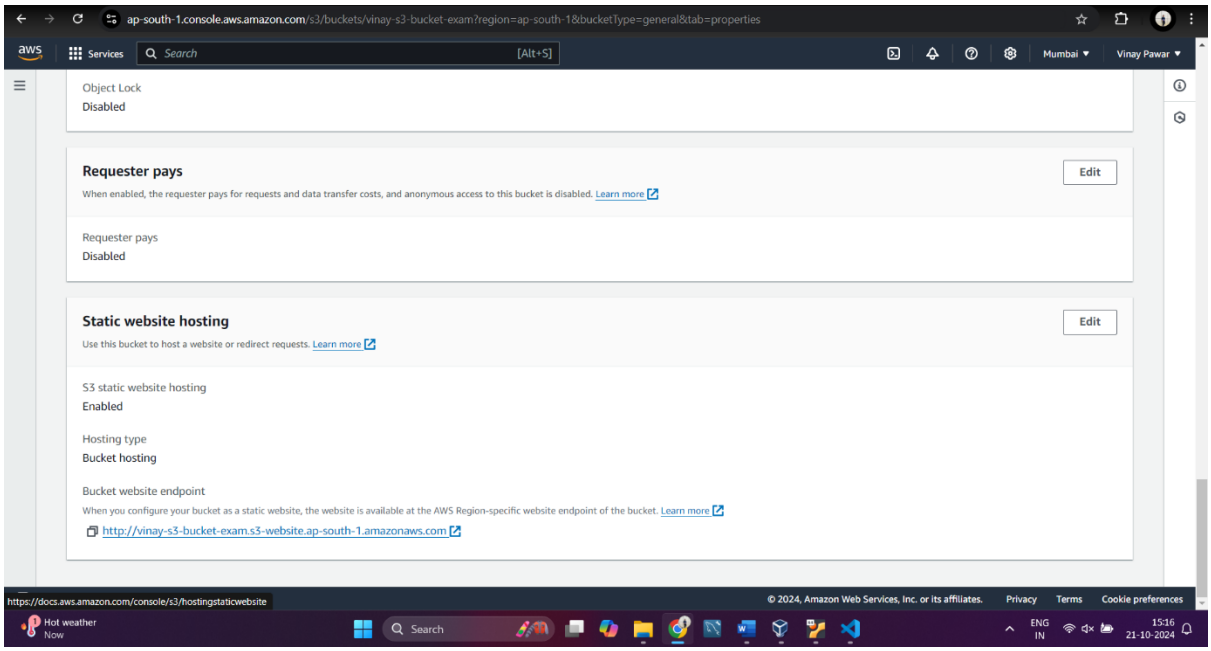


4. Ensure that HTML file is publicly accessible…

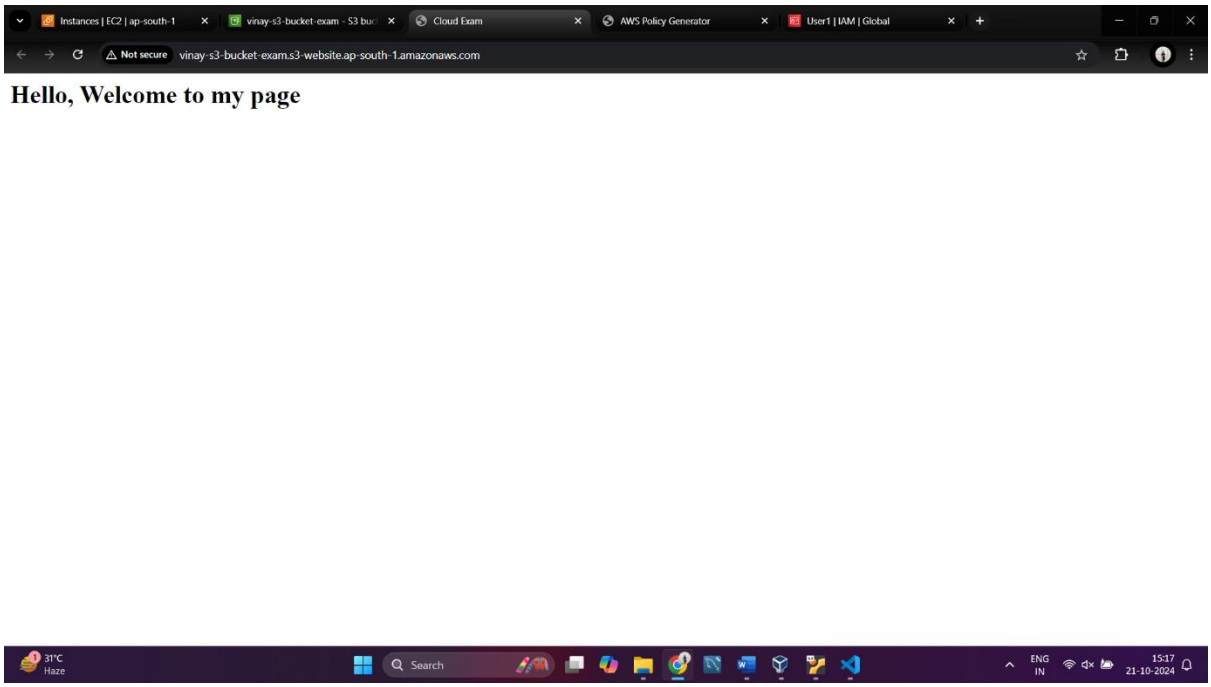
Go to the s3 bucket → click on permission →



s3 bucket → click on permission → static website hosting → click on that url http://vinay-s3-bucket-exam.s3-website.ap-south-1.amazonaws.com this is our website link.



It is hosted successfully and it is open for public also.



This is the html coding of the file.