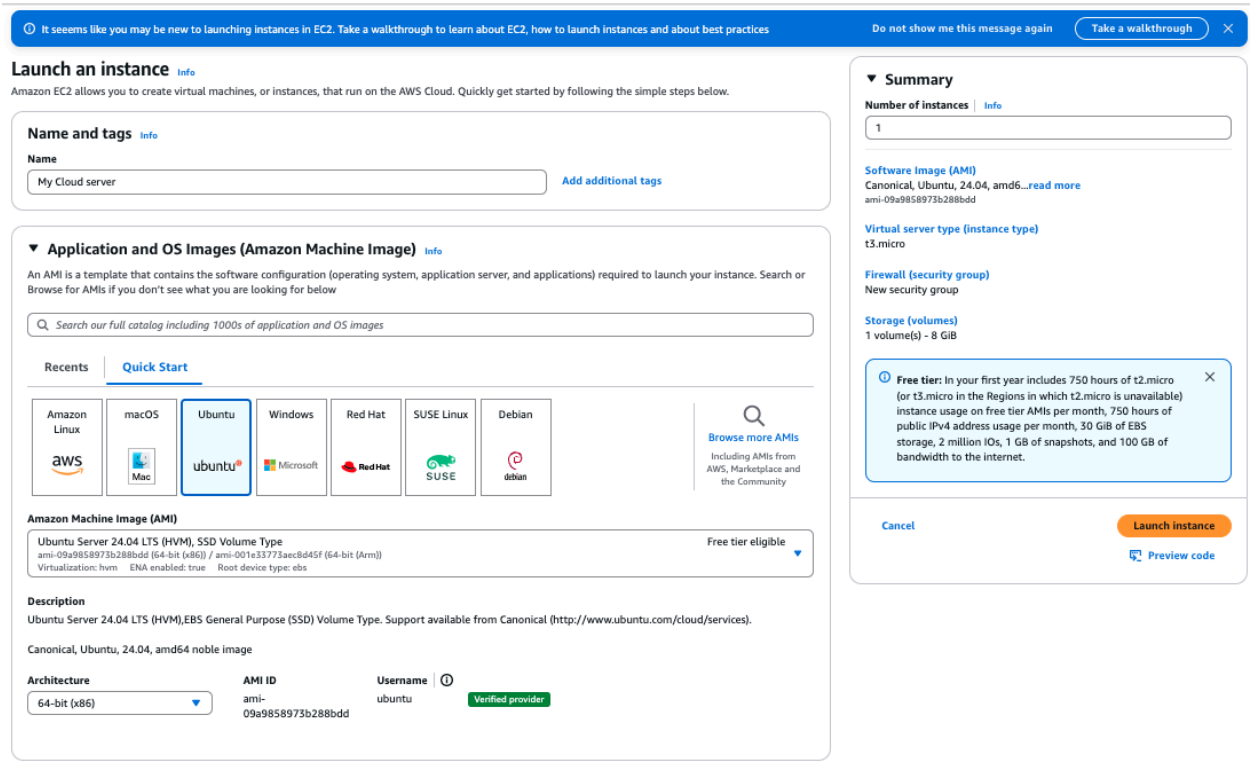
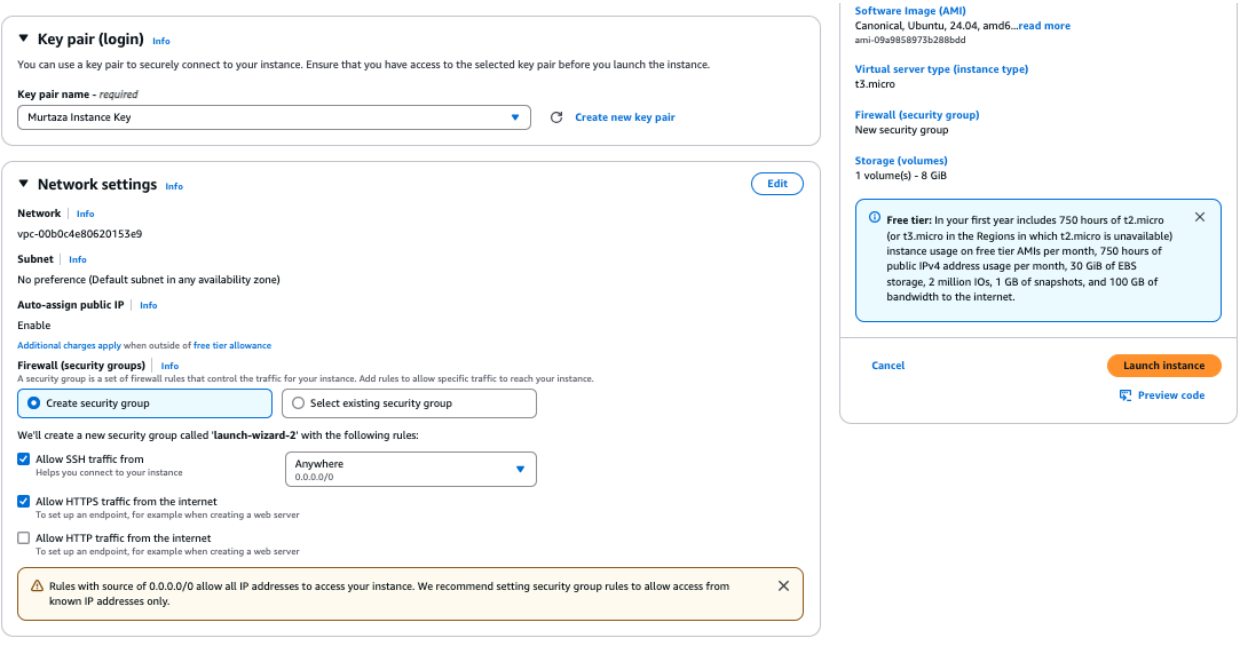
Grand Assignment Cloud Computing SYED MURTAZA HASSAN DS221026

1. Create an EC2 Instance

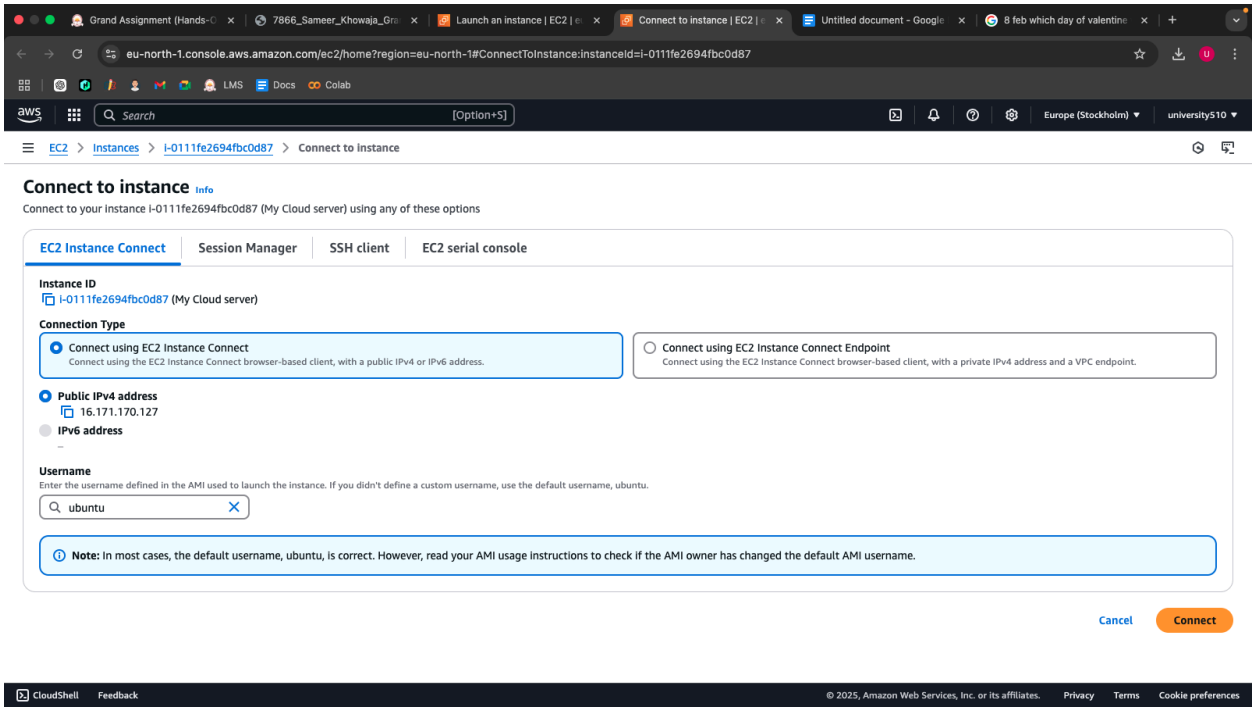
Step 1: Name your EC2 Instance and select your desired Application OS Image and architecture.



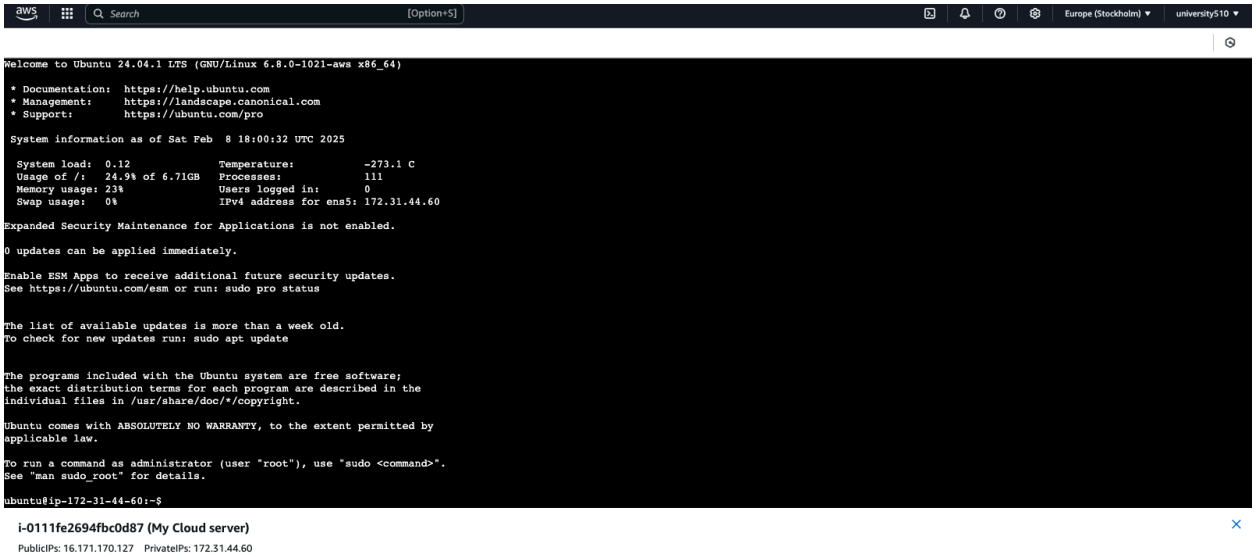
Step 2: Now generate a key pair and save it locally on your PC and allow traffic from SSH and Known IP Addresses.



Remaining all the settings during the instance creation will remain the same. Step 3: Once created, start the EC2 instance and choose your connection type:

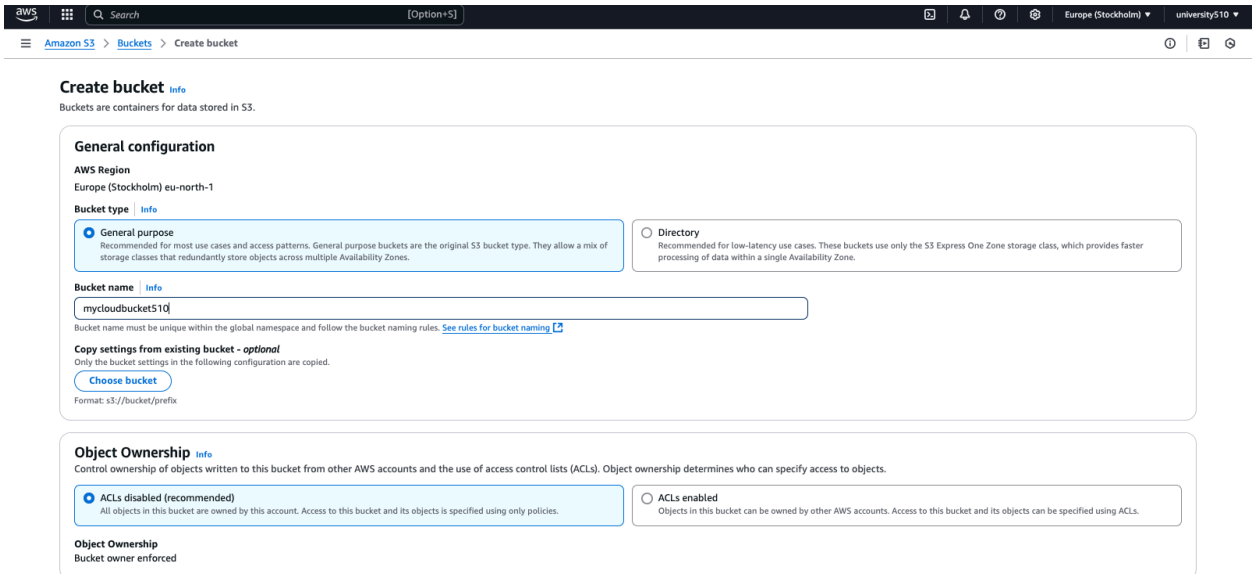


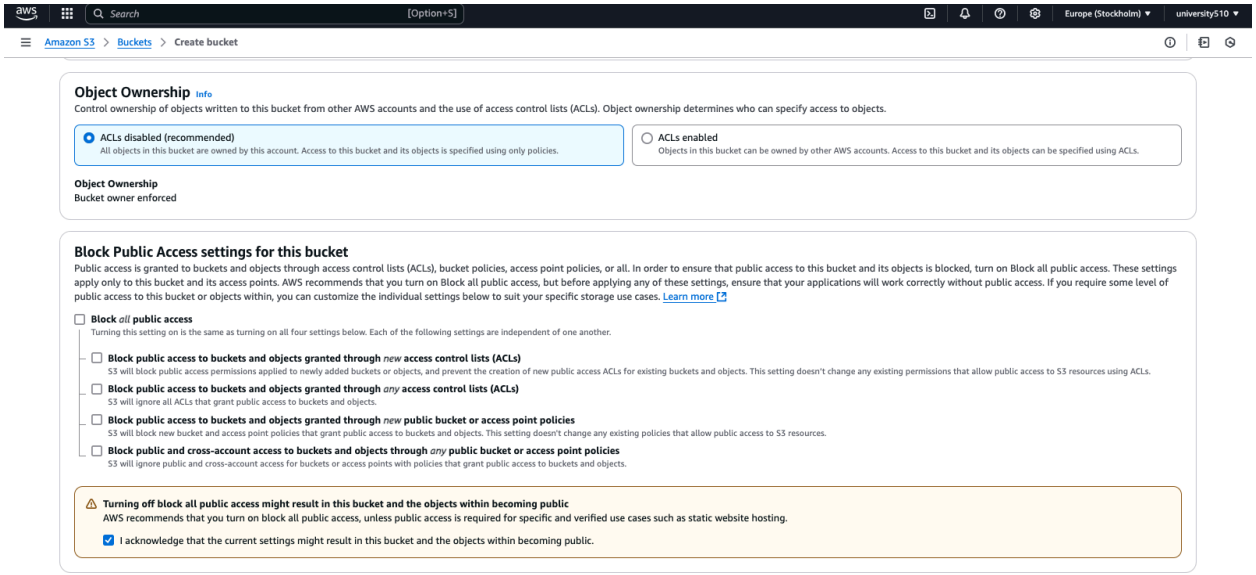
Step 4: After following these steps, our connection with cloud will be established and now you can easily perform activities.



Now, as we can see that we are now connected to the EC2 Instance Server.

Create an S3 bucket, upload an image and view it.



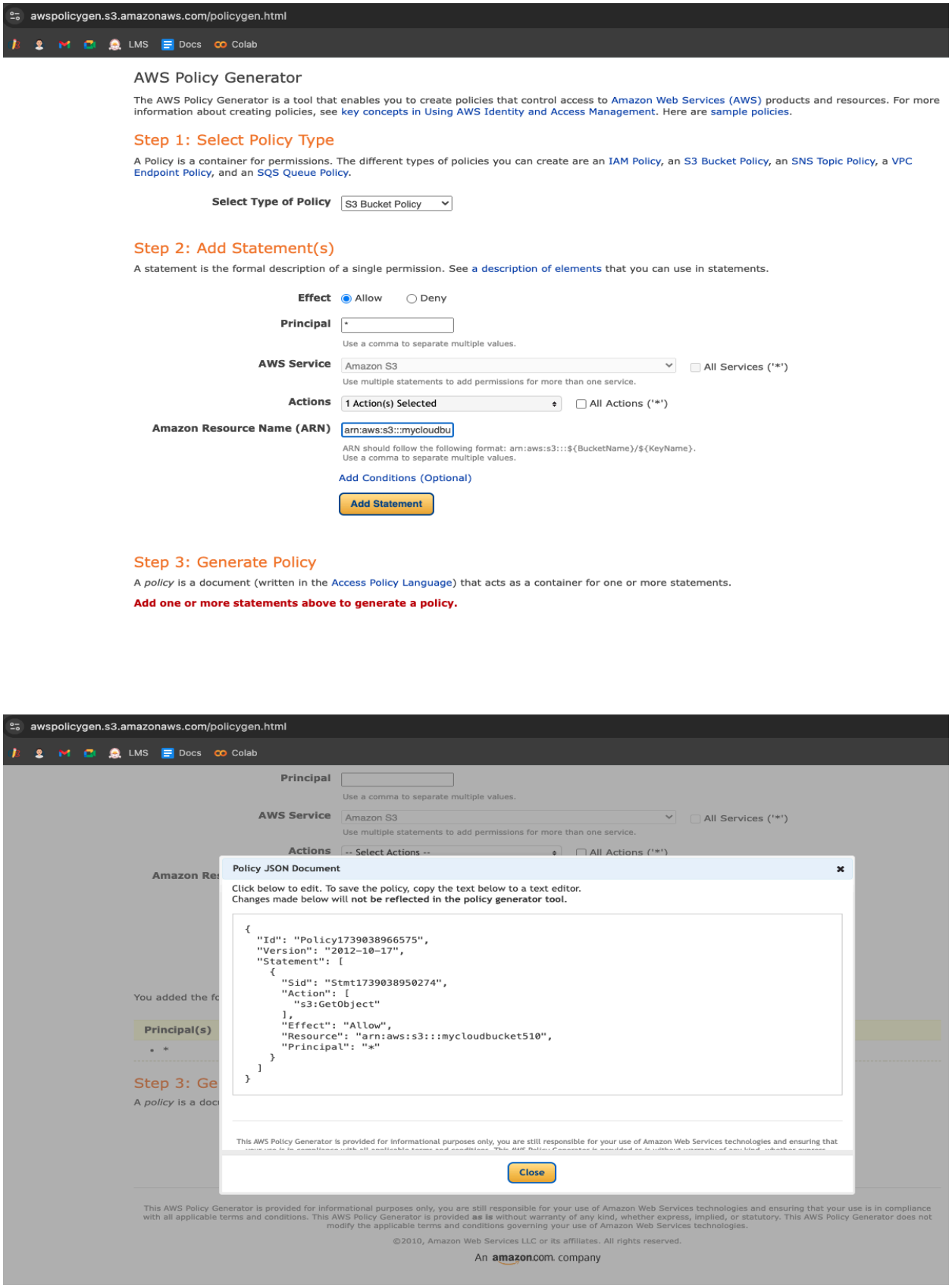


Step 2: Once Created, head inside the bucket, move towards the permission and create policy using aws policy generator.
Apply the following policies as

Type of policy: S3 Bucket

Principal: * (ALL)

Actions: Get object ( )


awspolicygen.s3.amazonaws.com/policygen.html
LMS
Docs
Colab
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)
arn:aws:s3:::mycloudbu
ARN should follow the following format: arn:aws:s3:::${BucketName}/${KeyName}.
Use a comma to separate multiple values.
Add Conditions (Optional)
Add Statement
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.
Add one or more statements above to generate a policy.

awspolicygen.s3.amazonaws.com/policygen.html
LMS
Docs
Colab
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
-- 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": "Policy1739038966575",
"Version": "2012-10-17",
"Statement": [
{
"Sid": "Stmt1739038950274",
"Action": [
"s3:GetObject"
],
"Effect": "Allow",
"Resource": "arn:aws:s3:::mycloudbucket510",
"Principal": "*"
}
]
}
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
Close
Principal(s)
*
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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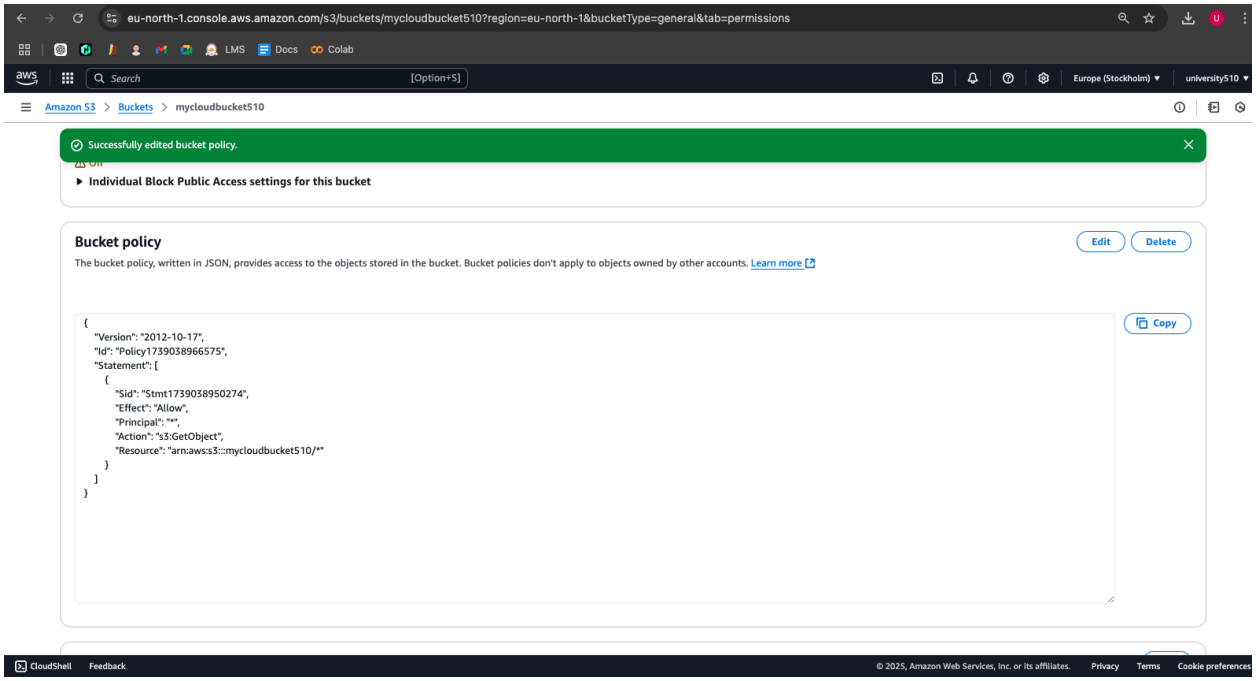
eu-north-1.console.aws.amazon.com/s3/buckets/mycloudbucket510?region=eu-north-1&bucketType=general&tab=permissions
Search
[Option+S]
Europe (Stockholm)
university510
Amazon S3 > Buckets > mycloudbucket510
Successfully edited bucket policy.
Individual Block Public Access settings for this bucket
Bucket 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
Copy
{
"Version": "2012-10-17",
"Id": "Policy1739038966575",
"Statement": [
{
"Sid": "Stmt1739038950274",
"Effect": "Allow",
"Principal": "*",
"Action": "s3:GetObject",
"Resource": "arn:aws:s3:::mycloudbucket510/*"
}
]
}
CloudShell
Feedback
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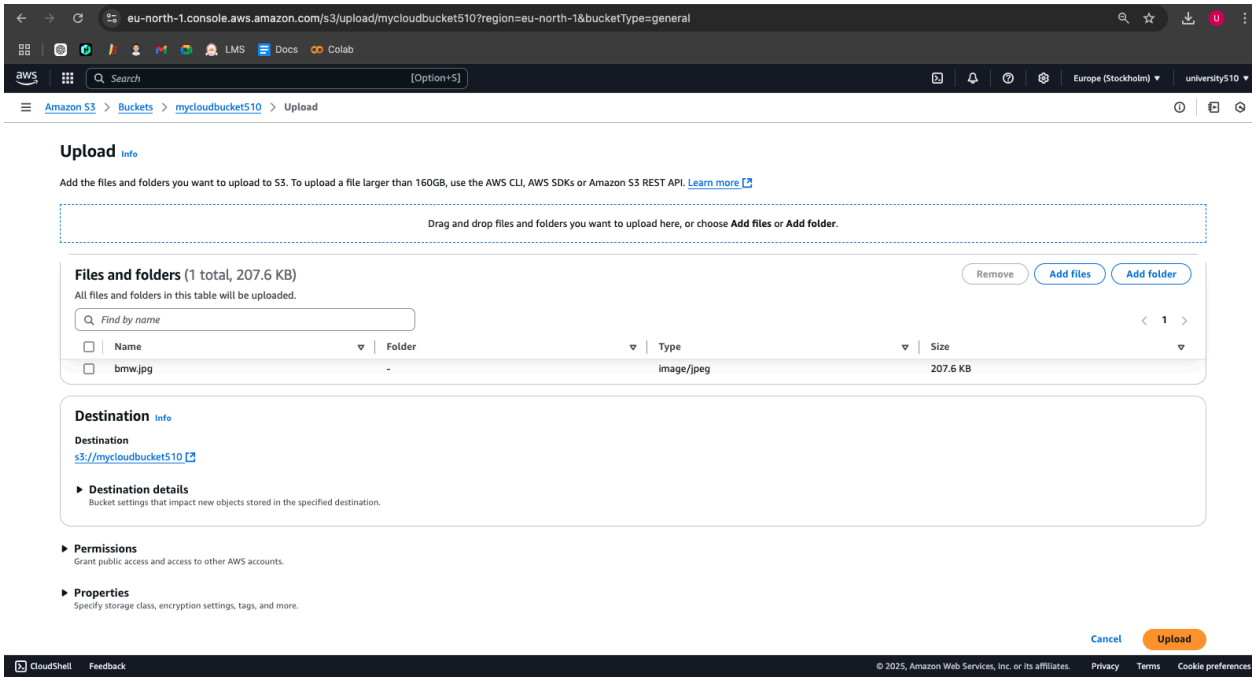
eu-north-1.console.aws.amazon.com/s3/upload/mycloudbucket510?region=eu-north-1&bucketType=general
Search
[Option+S]
Europe (Stockholm)
university510
Amazon S3 > Buckets > mycloudbucket510 > Upload
Upload Info
Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDKs or Amazon S3 REST API. Learn more
Drag and drop files and folders you want to upload here, or choose Add files or Add folder.
Files and folders (1 total, 207.6 KB)
Remove
Add files
Add folder
All files and folders in this table will be uploaded.
Find by name
Name
Folder
Type
Size
bmw.jpg
-
image/jpeg
207.6 KB
Destination Info
Destination
s3://mycloudbucket510
Destination details
Bucket settings that impact new objects stored in the specified destination.
Permissions
Grant public access and access to other AWS accounts.
Properties
Specify storage class, encryption settings, tags, and more.
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CloudShell
Feedback
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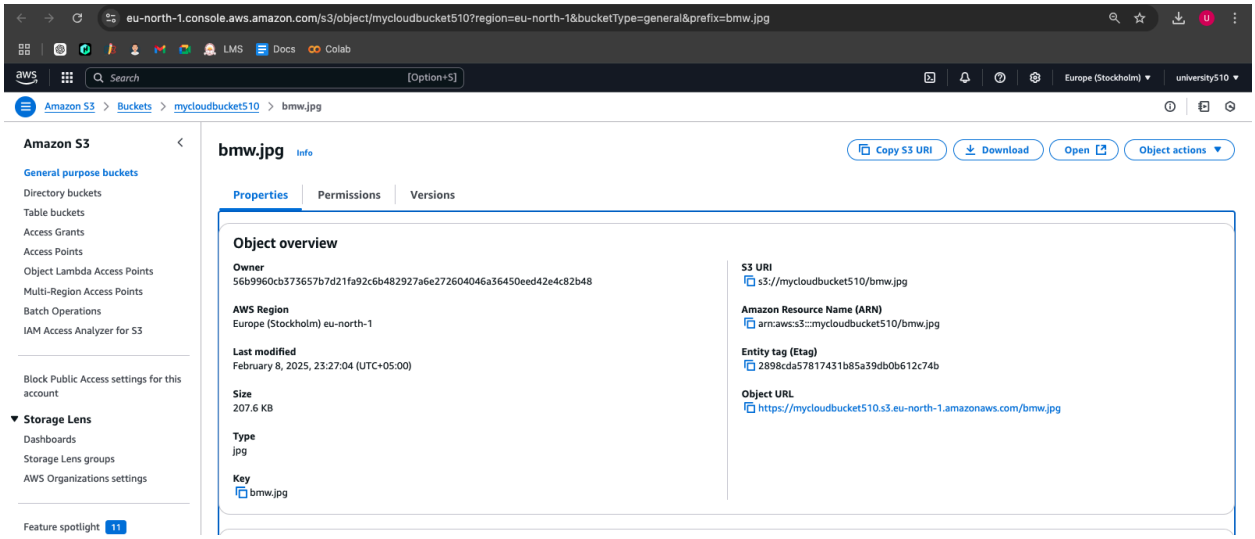

https://mycloudbucket510.s3.eu-north-1.amazonaws.com/bmw.jpg