Name: Roshan Saral Kumar (CLOUD-COMPUTING-INTERN)

DATE:20-10-2025

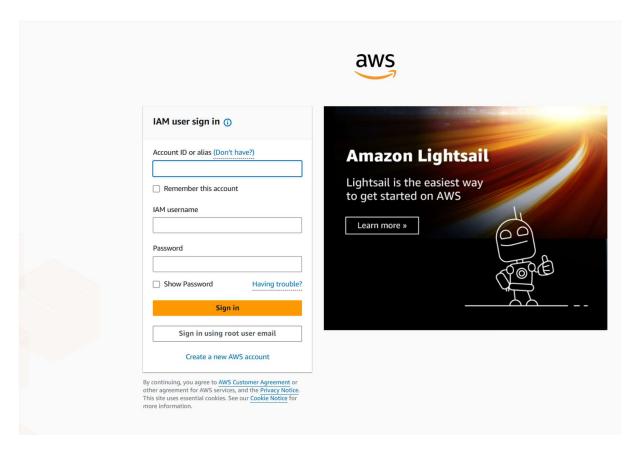
TASK 1

Create a Cloud Storage Bucket and Upload Files

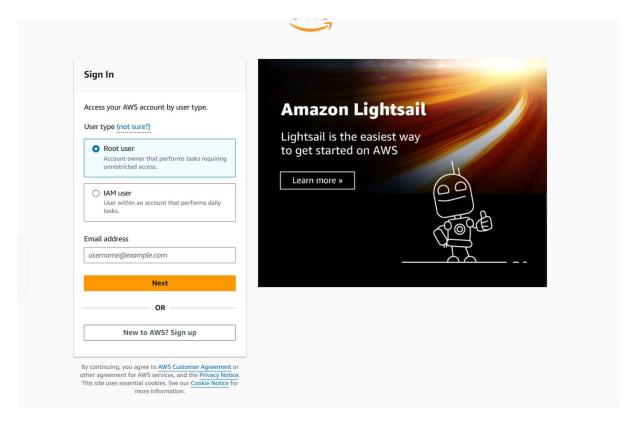
- Objective:- Understand cloud object storage basics.
- TOOLS USED:- AWS S3 (Free Tier)

STEP 1:- SIGN IN TO AWS MANAGEMENT CONSOLE

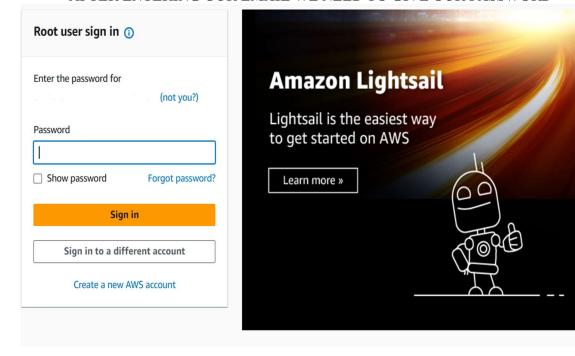
• THIS IS THE SIGN IN CONSOLE PAGE AND IAM USING SIGN USING ROOT USER EMAIL (ROOT USER MEANS I HAVE ACCESS TO ALL THE SERVICES OF AWS IF IT IS AN IAM (IDENTITY AND ACCESS MANAGEMENT USER THEN THE USER WILL HAVE ACCESS TO ONLY A LIMITED NUMBER OF SERVICES THAT AWS OFFERS AND THE IAM USERS WILL HAVE IAM POLICIES ATTACHED TO THEM SO ONLY THOSE SERVICES THEY WILL BE ABLE TO USE) CURRENTLY LOGGING IN AS ROOT USER EMAIL.



• AFTER CLICKING ON SIGN IN USING ROOT USER EMAIL I WLL GET THIS PAGE WHERE IHAVE TO ENTER MY EMAIL-ID. AND AS WE CAN SEE ROOT USER IS SELECTED BY DEFAULT.WE CAN ALSO SELECT IAM USER IN THIS PAGE IN CASE IF THERE IS A CHANGE.



• AFTER ENTERING OUR EMAIL WE NEED TO GIVE OUR PASSWORD

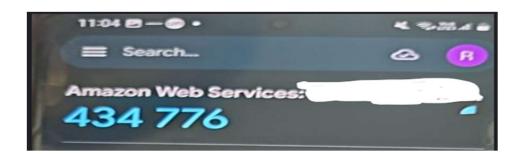


- SINCE I HAVE AN AWS ACCOUNT ALREADY CREATED I ACTUALLY MADE AN MFA FOR MY ROOT USER. MFA STANDS FOR (MULTI-FACTOR AUTHENTICATION CODE) IT ACTS AS A DOUBLE LAYER PROTECTION FOR OUR ROOT USER OTHERWISE WE CAN GET HACKED SO ALREADY PROVIDE AN EXTRA LAYER OF PROTECTION TO BE ON THE SAFER SIDE.
- MFA CODE IS GIVEN BY TOTEM TOKENS OR U CAN ALSO USE THE "GOOGLE AUTHENTICATOR APP" IN YOUR MOBILE WHICH IS MOSTLY PREFFERED.

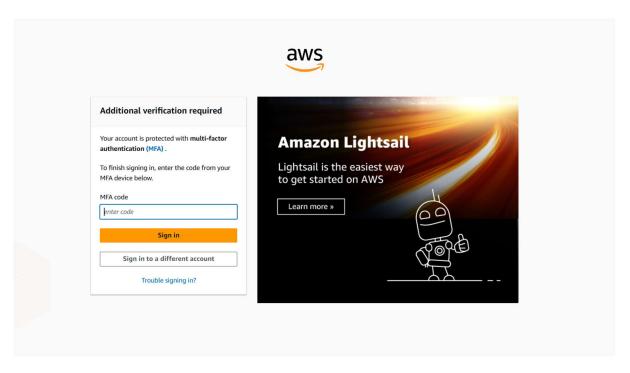


- THIS APP IS IN MY MOBILE AND I HAVE TO GIVE THE MFA CODE WHICH IS ASKED FOR THE VERIFICATION OF ROOT USER.
- ONCE I HAVE CLICKED ON THIS APP I WILL SEE THE BELOW SCREEN IN MY MOBILE

• THE SCREEN IN MY MOBLIE LOOKS LIKE THIS:-THE CONTENT WHICH IAM HIDING USING A WHITE COLOR IS MY PRIVATE INFORMATION OF MY ACCOUNT WHICH CANNOT BE SHARED BUT HIS IS HOW A SIMPLE MFA CODE LOOKS LIKE AND THE MFA CODE KEEPS ON CHANGING ON A DAILY BASIS.ALWAYS USE MFA TO ENSURE ENHANCED SECURITY.

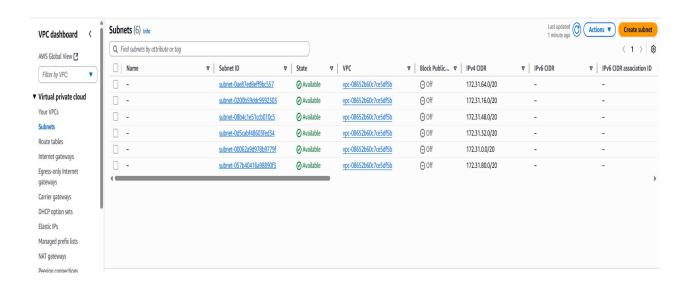


• THIS IS THE CODE THAT I HAVE TO ENTER IN MY AWS WEB BROWSER IN THE BELOW IMAGE IT IS SHOWN.



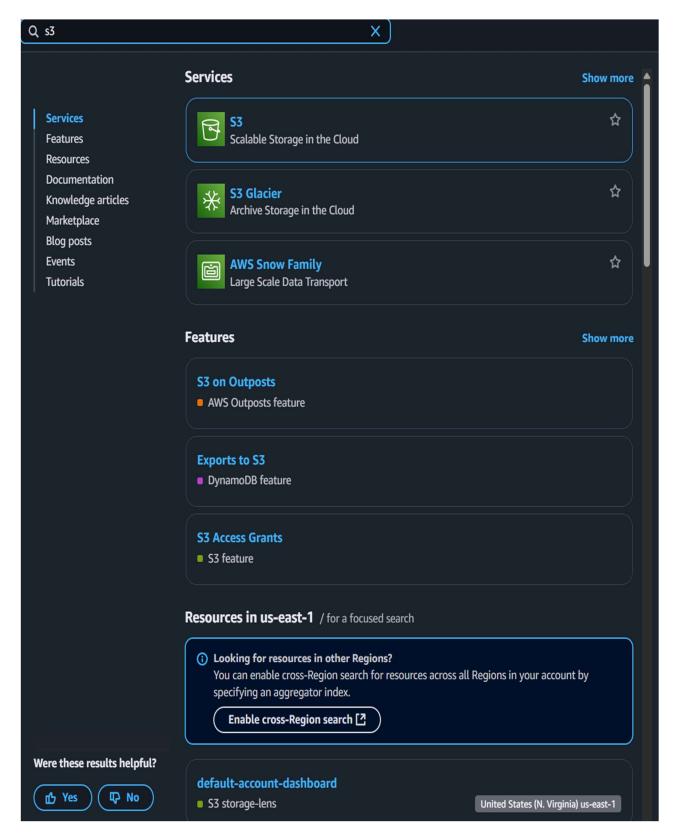
- AFTER SIGINING IN WE ENTER THE AWS MANAGEMENT CONSOLE AND THE DFAULT REGION IS NORTH VIRGINIA THAT IS "us-east-1" WE CAN SELECT DIFFERENT REIGIONS. IN THE IMAGE IT IS CLEARLY SHOWN IN THE RIGHT HAND SIDE WHICH REGION IAM CURRENTLY WORKING IN. THE BELOW IMAGE SHOWS THE SERVICES WHICH I VISITED AND THE CURRENT REGION WHICH IAM WORKING IN.
- TERMINOLOGIES:-
- Region:- It is a geothermal location which consists of a group of AZs (AVAILABILITY ZONES) and the network of a region is called a VPC(VIRTUAL PRIVATE CLOUD).
- AZ(Availability Zone):- they are a group of data centers.the network of a Az is a subnet.
- Edge Location:- it is a location in between various Azs or it is found at the boundary of an az In order to cache the incoming data acts like a storage for easier retrieval.
- NOTE:-WE ARE WORKING IN THE PUBLIC SUBNET THAT IS "us-east-1" if we are working in any azs it will show us-east-1a,us-east-1b and so on. We can check the azs in our aws management console itself that is given in below figure.

HERE WE WILL BE ABLE TO SEE THE SUBNETS IN THE VPC DASHBOARD IF WE CLICK ON SUBNETS THEN TOTALLY THERE ARE 6 SUBNETS THAT IS PRIVATE SUBNETS FROM "us-east-1a" to" us-east-1f" totally we have 6 private subnets or we can also say we have 6 azs under NORTH VIRGINIA THAT IS "US-EAST-1" REGION. This is provided by aws itself by default we cannot create any Availability Zones.

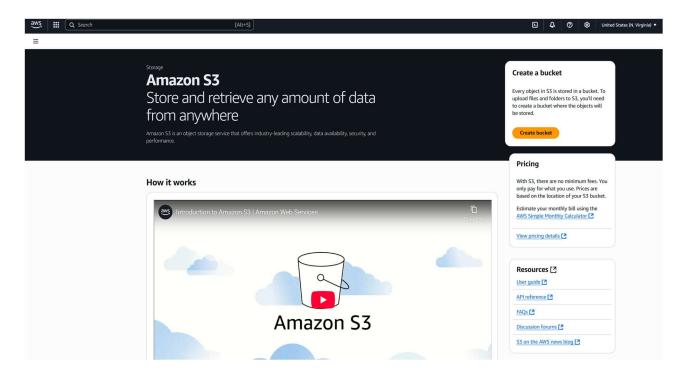


• NOW I WILL START BY CREATING THE S3 BUCKET IN MY PUBLIC SUBNET USING ROOT USER ACCOUNT......

Go to Cloud Storage \rightarrow Create Bucket. IAM CREATING IN AWS SO IAM SEARCHING FOR S3 BUCKET IN THE CONSOLE.



AFTER CLICKING ON S3 WE GET THIS WINDOW.



• WE CAN CLICK ON CREATE BUCKET:-THE WINDOW OPENS AND GIVES US SOME PARAMETERS THAT WE HAVE TO ENTER.BASED ON THE TASKS PROVIDED BY ELEVATE LABS IAM GOING STEP BY STEP:-

STEP 1:- CREATING A UNIQUE NAME FOR THE BUCKET.(UNIQUE BUCKET NAME IS "roshansaralkumar in elevate labs storage"



Step 2:- Choose region (e.g., us-east-1). Here we can choose any region but currently iam working in us-east-1 . IN AWS REGION WHICH IS CHOSEN IS THE REGION IN WHICH U ARE CURRENTLY WORKING IN AND CANNOT BE CHOSEN IN S3 CONSOLE. BUT IN REGIONS U CAN CHOOSE WHICH REGION WE WANT TO WORK IN AND IT WILL BE APPLIED BY DEFAULT WHEN CREATING THE BUCKET . WE NEED NOT CHOOSE IT MANUALLY IN AWS.

AWS Region	
US East (N. Virginia) us-east-1	
Bucket type Info	
General purpose Recommended for most use cases and access patterns. General purpose buckets are the original S3 bucket type. They allow a mix of storage classes that redundantly store objects across multiple Availability Zones.	Directory Recommended for low-latency use cases. These buckets use only the S3 Express One Zone storage class, which provides faster processing of data within a single Availability Zone.
Bucket name Info	
roshansaralkumar_in_elevate_labs_storage	
Bucket names must be 3 to 63 characters and unique within the global namespace. Bucket names must also begin and end with a letter or num	iber. Valid characters are a-z, 0-9, periods (,), and hyphens (-). Learn More [?]

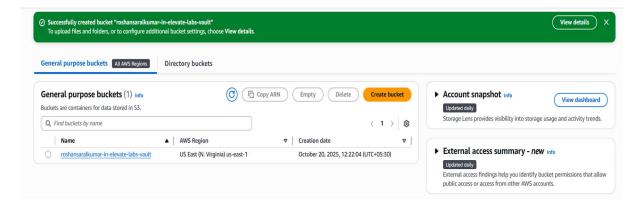
- THERE ARE TWO OPTIONS FOR BUCKET TYPE ONE IS GENERAL PURPOSE AND THE OTHER IS DIRECTORY SO
- GENERAL PURPOSE BUCKETS:-
- IS USED FOR STORAGE OPTIONS LIKE **IMAGES,VIDEOS,LOGS,DOCUMENTS ETC.**
- IF WE WANT HIGH AVAILABILITY AND PERFORMANCE.
- FOR BUILDING WEBSITES, BACKUPS, DATA LAKES, OR ML STORAGE.
- DIRECTORY STYLE BUCKETS:-
- THESE BUCKETS ORGANIZE OBJECTS LOGICALLY(LIKE FOLDERS IN OUR COMPUTERS)
- ALSO USED FOR MANAGING LARGE-DATASETS WITH HIERARICHICAL NAMING.
- ALSO USED FOR FASTER LOOKUPS.
- YOU ARE INTEGRATING WITH **DATA PROCESSING systems** (like ATHENA, GLUE, EMR) that rely on **FOLDER STYLE ORGANIZATION**.

WE ARE GOING WITH THE GENERAL PURPOSE WHICH HAS HIGH AVAILABILITY AND PERFORMANCE SICE WE ARE JUST UPLOADING IMAGES, FILES ETC

AFTER THIS WE CAN SEE THAT DEFAULT PERMISSIONS ARE USED AND IMA MAKINGMY S3 BUCKET AS PRIVATE AND BLOCKING ALL PUBLIC ACCESS.

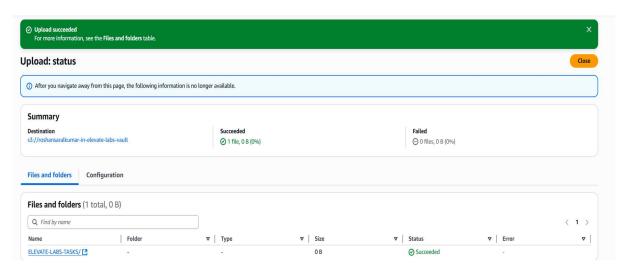
Block Public Access settings for this bucket Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and	
	d its objects is blocked turn on Block all public access. These 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 v	
public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. Learn more [2]	in work correctly without public decess. If you require some tever of
☑ Block all public access	
Turning this setting on is the same as turning on all four settings below. Each of the following settings are independent of one another.	
Block public access to buckets and objects granted through <i>new</i> access control lists (ACLs)	
S3 will block public access for buckness and objects. This setting doesn't change and buck public access ACLs for existing buckets and objects. This setting doesn't change and buckness are the public access ACLs for existing buckets and objects. This setting doesn't change and buckness are the public access ACLs for existing buckets and objects. This setting doesn't change and buckness are the public access ACLs for existing buckets and objects. This setting doesn't change and buckness are the public access ACLs for existing buckets and objects. This setting doesn't change and buckness are the public access ACLs for existing buckets and objects. This setting doesn't change are the public access ACLs for existing buckets and objects. This setting doesn't change are the public access ACLs for existing buckets and objects. This setting doesn't change are the public access ACLs for existing buckets and objects. This setting doesn't change are the public access ACLs for existing buckets and objects. This setting doesn't change are the public access ACLs for existing buckets and objects. This setting doesn't change are the public access ACLs for existing buckets and objects. This setting doesn't change are the public access ACLs for existing buckets and objects. This setting doesn't change are the public access ACLs for existing buckets and objects. This setting doesn't change are the public access ACLs for existing access ACLs	existing normissions that allow public across to \$3 resources using ACLs
	residing permissions that allow public access to 33 resources using reces.
Block public access to buckets and objects granted through any access control lists (ACLs) S3 will ignore all ACLs that grant public access to buckets and objects.	
Block public access to buckets and objects granted through new public bucket or access point policies \$3 will block new bucket and access point policies that grant public access to buckets and objects. This setting doesn't change any existing policies that allow public access to \$3 resources.	
Block public and cross-account access to buckets and objects through any public bucket or access point policies	
S3 will ignore public and cross-account access for buckets or access points with policies that grant public access to buckets and objects.	
Bucket Versioning	
	57 h. d. t. With mining and mile and from
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	
O Disable	
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Bucket Versioning Westpalage in a money of feeding multiple variants of an object in the same harder. You can use persioning to precease, noticing and rection of every object stored in use.	uur Amazon CZ husket Mith versioning vou can easily recover from
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 yo	ur Amazon S3 bucket. With versioning, you can easily recover from
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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 yet both unitrended user actions and application failures. Learn more 2 Bucket Versioning Disable Enable Tags - optional (0) You can use bucket tags to track storage costs and organize buckets. Learn more 2 No tags associated with this bucket. Add new tag You can add up to 50 tags. Default encryption info Server-side encryption is automatically applied to new objects stored in this bucket. Encryption type info Server-side encryption is personal keyers of encryption. For details on pricing, see DSSE-KMS pricing on the Storage tab of the Amazon 53 pricing page. 2 Server-side encryption with AWS Key Management Service keys (SSE-S3) Server-side encryption with AWS Key Management Service keys (SSE-SMS)	ur Amazon S3 bucket. With versioning, you can easily recover from
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 you both unintended user actions and application failures. Learn more [2] Bucket Versioning O lisable Enable Tags - optional (0) You can use bucket tags to track storage costs and organize buckets. Learn more [2] No tags associated with this bucket. Add new tag You can add up to 50 tags. Default encryption infe Server-side encryption is automatically applied to new objects stored in this bucket. Encryption type Info Server-side encryption with Amazon SS managed keys (SSE-SS)	ur Amazon 53 bucket. With versioning, you can easily recover from
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 yet both unitrended user actions and application failures. Learn more [2] Bucket Versioning Disable Enable Tags - optional (0) You can use bucket tags to track storage costs and organize buckets. Learn more [2] No tags associated with this bucket. Add new tag You can add up to 50 tags. Default encryption infe Secure your objects with two separate layers of encryption. For details on pricing, see DSSE-KMS pricing on the Storage tab of the Amazon S3 pricing page. [2] Server-side encryption with Amazon S3 managed keys (SSE-S3) Server-side encryption with Amazon S3 managed keys (SSE-SMS) Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS) Bucket Key Bucket Key	ur Amazon S3 bucket. With versioning, you can easily recover from
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 you both unintended user actions and application failures. Learn more [2] Bucket Versioning Disable Enable Tags - optional (0) You can use bucket tags to track storage costs and organize buckets. Learn more [2] No tags associated with this bucket. Add new tag You can add up to 50 tags. Default encryption info Server-side encryption is automatically applied to new objects stored in this bucket. Encryption type info Server-side encryption with Amazon 53 managed keys (SSE-S3) Server-side encryption with Amazon 53 managed keys (SSE-SMS) Dual-layer server-side encryption with Amazon 53 managed keys (SSE-SMS) Dual-layer server-side encryption with AMS Key Management Service keys (DSSE-KMS) Bucket Key for SSE-KMS reduces encryption costs by lowering calls to AMS KMS. S3 Bucket Keys aren't supported for DSSE-KMS, Learn more [2]	ur Amazon S3 bucket. With versioning, you can easily recover from
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 yet both unintended user actions and application failures. Learn more [2] Bucket Versioning Disable Enable Tags - optional (0) You can use bucket tags to track storage costs and organize buckets. Learn more [2] No tags associated with this bucket. Add new tag You can add up to 50 tags. Default encryption into Server-side encryption is automatically applied to new objects stored in this bucket. Encryption type Info Secure-side encryption with Amazon 53 managed keys (SSE-SS) Server-side encryption with Amazon 53 managed keys (SSE-SS) Dual-layer server-side encryption with AWS Key Management Service keys (DSSE-KMS) Bucket Key Bucket Key	ur Amazon S3 bucket. With versioning, you can easily recover from

- FINALLY IAM MAKING MY S3 BUCKET PRIVATE:-
- ACL STANDS FOR ACCESS CONTROL LIST AND THIS IS ACTUALLY DISABLED BUT IT CAN BE ACCESSED IF WE ARE TRYING TO DISTRIBUTE OR TRANSFER DATA IN A SINGLE SPECIFIC AZ BUT CURRENTLY WE DON'T REQUIRE BASED ON THE TASKS PROVIDED.
- AS WE CAN SEE HERE THAT OUR BUCKET IS CREATED SUCCESSFULLY.

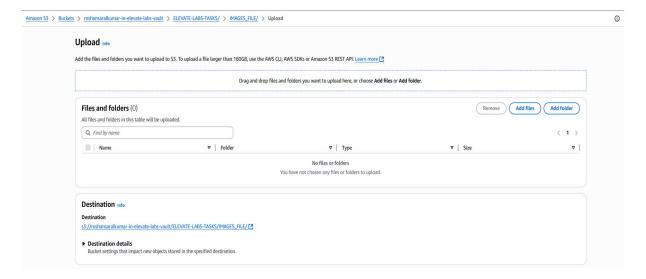


NOW THE NEXT STEP IS TO UPLOAD IMAGES AND TEXT FILES TO OUR S3 BUCKET:-

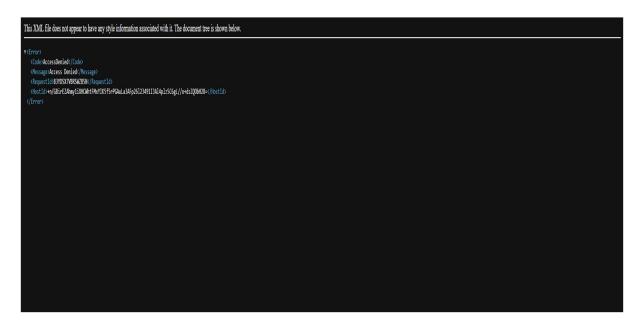
• ONCE WE HAVE CREATED THE BUCKET I HAVE UPLOADED A FOLDER KNOWN AS ELEVATE_LABS_TASKS WHICH IS FOLDER 1(ELEVATE_LABS_TASKS).



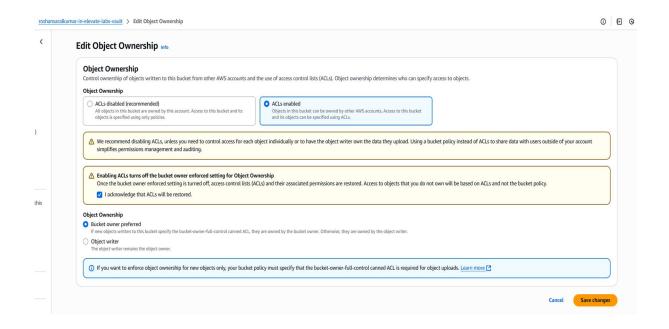
• AS WE CAN SEE OVER HERE IN THE ELEVATE_LABS_TASK FOLDER I HAVE CREATED A NEW FOLDER CALLED IMAGES_FILE(FOLDER 2). WHICH CONSISTS MY IMAGE FOR NATURE.



• AFTER UPLOADING THE NATURE IMAGE IN .PNG FORMAT. AND USING THE OBJECT URL OF THE IMAGE IN THE NEW TAB WHEN WE PASTE IT WE GET THIS ERROR THAT IS SHOWN BELOW

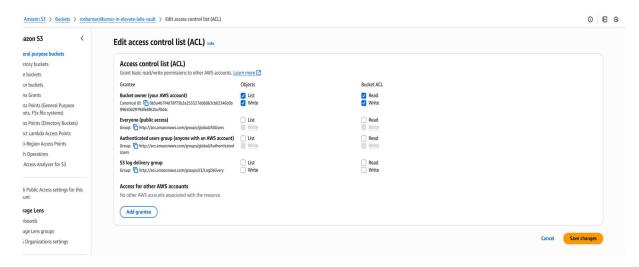


- THE ABOVE IMAGE INDICATES THAT THE XML ACCESS IS DENIED SO WE HAVE TO CHANGE THE PERMISSIONS AS THIS WAS MADE PRIVATE.FOR THE IMAGE
- SO THE SOLUTION FOR THIS IS THAT WE HAVE TO CHANGE THE OBJECT OWNERSHIP OF THE BUCKET BY EDITING IT MAKE SURE THAT ACL IS ENABLED AND ACKNOWLEDGE BOX HAS A TICK ON IT. THEN SAVE THE CHANGES TO GIVE PUBLIC ACCESS FOR THE IMAGE.AS THE BELOW IMAGE.



NOW AFTER SUCCESSFULLY CHANGING THE OBJECT OWNERSHIP I HAVE

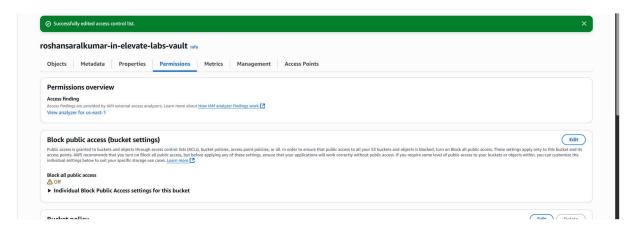
TO CHANGE THE ACL THE BELOW IMAGE SHOWS THAT WE ARE CHANGING THE ACL FOR THE BUCKET WHICH IS CREATED.



• AFTER THIS IAM GIVING THE READ OPTION FOR EVERYONE AND THE ACKNOWLDGMENT BOX GIVEN IS TICKED.



• AFTER THIS A MESSAGE POPS UP THAT WE HAVE SUCCESSFULLY COMPLETED EDITING THE ACCESS LIST FOR THE BUCKET.



 NOW GO TO THE IMAGE THAT WE HAVE CREATED AND AGAIN CHECK THE URL

```
This XML file does not appear to have any style information associated with it. The document tree is shown below.

**CError**

**Cerror**

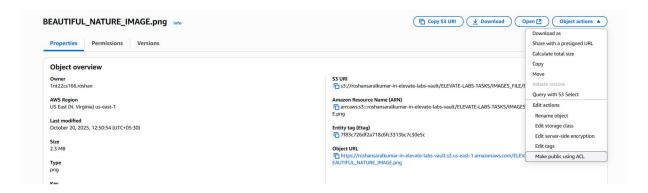
**Cerror**

**Cercor**

**Cencor**

**Cencor**
```

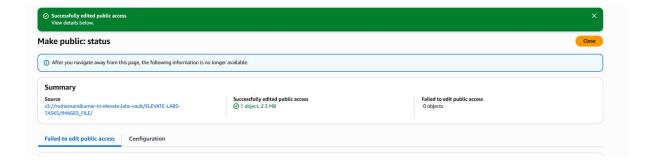
• AFTER DOING ALL MODIFICATIONS ALSO WE ARE GETTING THE SAME ISSUE NOW WHAT WE SHOULD DO IS **MAKE THE OBJECT AS PUBLIC** GO BACK TO THE IMAGES AND USE THE **OBJECT ACTIONS** TO MAKE THE **OBJECT PUBLIC** USE ACL . CLICK ON "**MAKE PUBLIC USING ACL**" OPTION



• AFTER CLICKING THE OPTIONS WE CAN MAKE IT AS PUBLIC AND NOW JUST CLICK THE OPTION "MAKE PUBLIC".



SHOWING SUCCESSFULLY MADE AS PUBLIC AND NOW WE GET THE IMAGE



- SO NOW WHEN WE REFRESH THE PAGE WE GOT OUR IMAGE OF OUR BEAUTIFULL NATURE.
- BY USING THE SAME OBJECT URL WHICH PREVIOUSLY FAILED BECAUSE THE
 OBJECT WAS PRIVATE NOW AS SOON AS WE CHANGED THE OBJECT
 OWNERSHIP AND EDITING THE ACL OF THE BUCKET WE COULD SEE THAT
 THE OBJECT BECAME PUBLIC AND NOW IT WAS EASIER TO ACCESS
 WITH THE URL.
- THE OBJECT URL FOR IMAGE IS:- https://roshansaralkumar-in-elevate-labs-vault.s3.us-east-1.amazonaws.com/ELEVATE-LABS-TASKS/IMAGES FILE/BEAUTIFUL NATURE IMAGE.png

OUTPUT .png IMAGE IN NEW TAB:-



• CONCLUSION WE HAVE DEPLOYED OUR IMAGE INTO THE WEBSITE AND WE CAN VIEW IT BY USING THE OBJECT URL WHICH AWS HAS PROVIDED US.

- Outcome: I could Understand the concept of object storage, bucket creation, and file accessibility in the cloud. It was a very nice journey to know the different types of s3 buckets and trouble shooting issues while uploading the image in North Virginia region.
- TEXT FILE KNOWN AS TASKS GIVEN TODAY IS UPLOADED AND MADE PUBLIC THE SAMEWAY AS WE MENTIONED WHILE UPLOADING THE IMAGE BUT DON'T NEED TO AGAIN CHANGE THE BUCKERET RULES INSTEAD ONLY MAKE CHANGES TO THE TEXTFILE WHICH IS AN OBJECT NAD MAKE THE OBJECT PUBLIC DON'T HAVE TO AGAIN CHANGE THE BUCKET RULES.

OUTPUT .txt TEXT IMAGE IN NEW TAB:-



- TEXT URL IS:- https://roshansaralkumar-in-elevate-labs-vault.s3.us-east-1.amazonaws.com/ELEVATE-LABS-TASKS/IMAGES FILE/Task1 GIVEN TODAY.txt
- SO WE UNDERSTOOD HOW TO VIEW A TEXT AND IMAGE USING AN OBJECT URL AND PASTING IT IN A DIFFERENT TAB. THIS WAY WE HAVE DEPLOYED OUR FIRST TEXT AND IMAGES THAT IS .PNG AND .TXT FILES IN THE BROWSER USING THE OBJECT URL AND MAKING THE OBJECT AS PUBLIC. INITIALLY WHEN ANY IMAGE OR OBJECT IS UPLOADED IT WILL BE MADE AS PRIVATE.