AWS S3 buckets and their objects using CLI

Prerequisite commands

Aws configure

```
[ec2-user@ip-10-200-0-183 ~]$ AWS configure
-bash: AWS: command not found
[ec2-user@ip-10-200-0-183 ~]$ aws configure
AWS Access Key ID [None]: AKIA6KZLVL46FSJV5EPI
AWS Secret Access Key [None]: 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
Default region name [None]: us-west-2
Default output format [None]: json
[ec2-user@ip-10-200-0-183 ~]$
```

Implementation Steps

1) Create an S3 bucket.

   a) Open the CLI interface of any EC2 instance.

   b) Run the below command to create a S3 bucket.

   aws s3api create-bucket --bucket amzn-s3-adrina --region us-east-1

   You may go to AWS Management console to verify that the bucket is created.
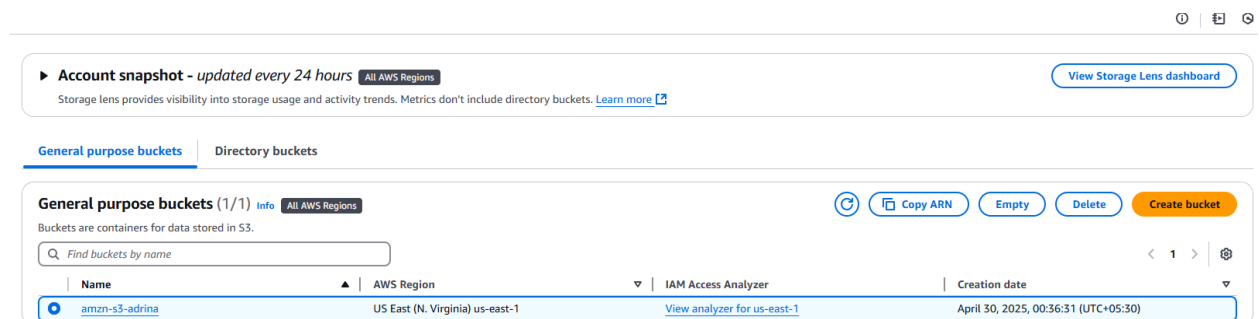
2) Upload an object into this bucket.

   a) Create a dummy text file.

   touch Adrina_testing.txt

   vim Adrina_testing.txt (An editor will open)

press "I" to initiate insert.

Insert "This file is created to test AWS S3 bucket uploads and public access" to the file.
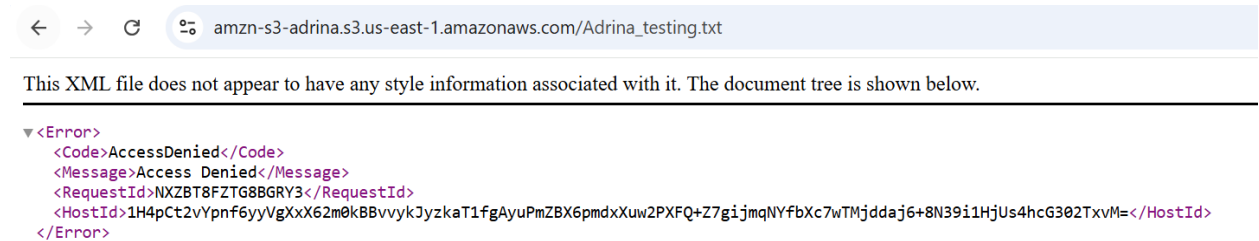
Press ESC and then ":wq"

b) Once you are back in the main CLI interface, run the below commands to upload the file into the S3 bucket.

aws s3 cp Adrina_testing.txt s3://amzn-s3-adrina/

aws s3 ls s3://amzn-s3-adrina --human-readable --summarize

3) Try to access the object by using a web browser.

Access denied

4) Make the object (not the bucket) publicly accessible.

a) Run the below command to disable "Block public access"

aws s3api put-public-access-block --bucket amzn-s3-adrina --public-access-block-configuration "BlockPublicAcls=false,IgnorePublicAcls=false,BlockPublicPolicy=false,RestrictPublicBuckets=false"

b) Create a public_policy.json file to update the bucket public policy.
touch public_policy.json
vim public_policy.json
An editor will open, add the below details in the file by clicking on 'I' and then Save by clicking on ESC → ":wq"

```
{
    "Version": "2012-10-17",
    "Statement": [
      {
        "Sid": "PublicReadGetObject",
```
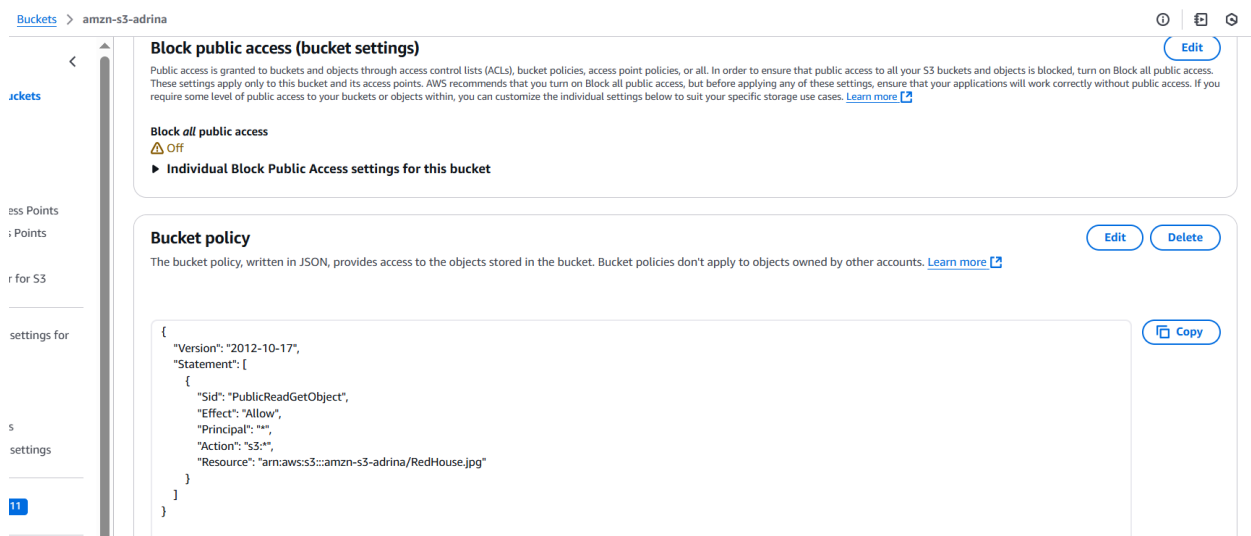
```
        "Effect": "Allow",
        "Principal": "*",
        "Action": "s3:*",
        "Resource": "arn:aws:s3:::amzn-s3-adrina/Adrina_testing.txt"
      }
    ]
}
```
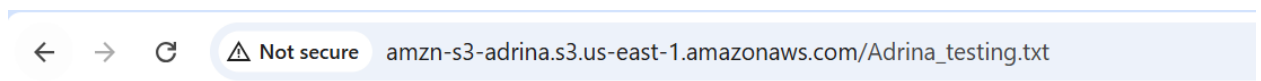
c) Run this command to update the bucket policy.

aws s3api put-bucket-policy --bucket amzn-s3-adrina --policy file://public_policy.json

Testing in Console. This is how you will see the S3 bucket "Block public access" and "Bucket policy".

5) Access the object by using a web browser.

a) Copy the object URL from the S3 bucket and place it in the browser.

b) s is a testing file created by Adrin Colaco.

6) List the contents of the S3 bucket by using the AWS CLI.

aws s3 ls s3://amzn-s3-adrina/