

# AWS S3 buckets and their objects using CLI

## Prerequisite commands

Aws configure

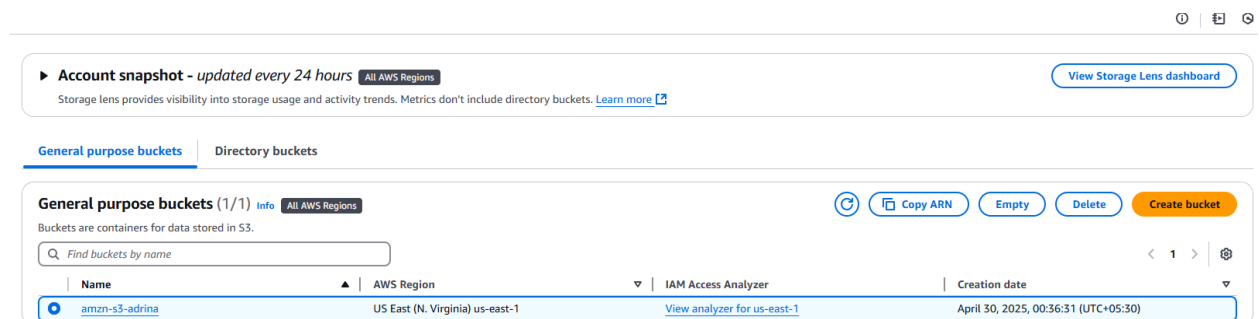
```
[ec2-user@ip-10-200-0-183 ~]$ AWS configure
-bash: AWS: command not found
[ec2-user@ip-10-200-0-183 ~]$ aws configure
AWS Access Key ID [None]: AKIA6KZLVL46FSJV5EPI
AWS Secret Access Key [None]: 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
Default region name [None]: us-west-2
Default output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

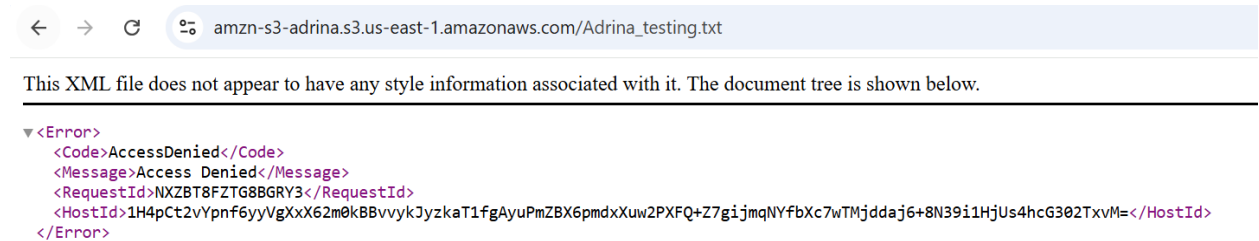
- b) Once you are back in the main CLI interface, run the below commands to upload the file into the S3 bucket.

```
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",
```

```

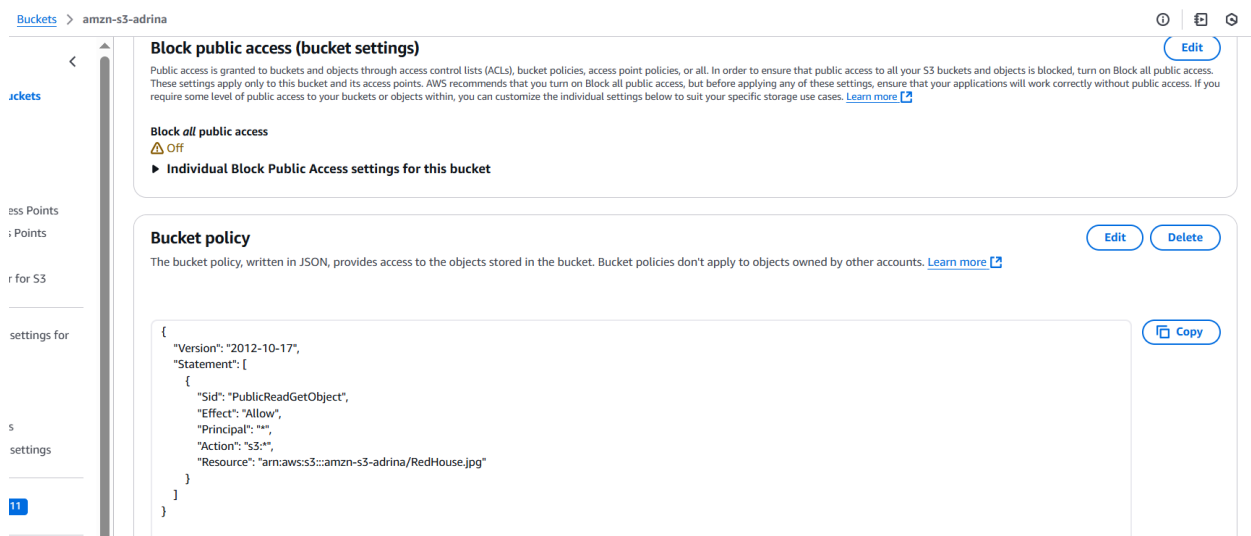
    "Effect": "Allow",
    "Principal": "*",
    "Action": "s3:*",
    "Resource": "arn:aws:s3:::amzn-s3-adrina/RedHouse.jpg"
  }
]
}

```

- c) Run this command to update the bucket policy.

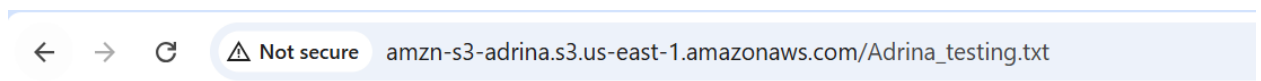
```
aws s3api put-bucket-policy --bucket amzn-s3-adrina --policy file://public_policy.json
```

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/
```

```

[ec2-user@ip-10-200-0-183 ~]$ aws s3 ls s3://amzn-s3-adrina/
2025-05-03 13:54:21          45 Adrina_testing.txt

```