

Hands On Amazon S3 using CLI

1. Create an S3 Bucket

```
[cloudshell-user@ip-10-130-82-62 ~]$ aws s3api create-bucket --bucket demo-shankar77 --region us-east-1 --create-bucket-configuration LocationConstraint=us-east-2
{
  "Location": "http://demo-shankar77.s3.amazonaws.com/"
}
```

2. Create a policy and apply policy to your Bucket

The screenshot shows the AWS CloudShell interface. At the top, it says "AWS CloudShell" with an "Actions" dropdown and a settings icon. Below that, the region "us-east-1" is selected. The main area shows a terminal window with the GNU nano 5.8 editor editing a file named "policy.json". The JSON content is as follows:

```
{
  "Id": "Policy1708927847695",
  "Version": "2012-10-17",
  "Statement": [
    {
      "Sid": "Stmt1708927846580",
      "Action": [
        "s3:GetObject"
      ],
      "Effect": "Allow",
      "Resource": "arn:aws:s3:::demo-shankar77/*",
      "Principal": "*"
    }
  ]
}
```

Below the terminal, a command is executed: `[cloudshell-user@ip-10-130-82-62 ~]$ aws s3api put-bucket-policy --bucket demo-shankar77 --policy file://policy.json`. The bottom part of the screenshot shows the AWS Management Console for the bucket "demo-shankar77". It displays the "Block public access (bucket settings)" section, which is currently "OFF". Below that, the "Bucket policy" section is shown, displaying the same JSON policy that was created in the terminal. There are "Edit" and "Delete" buttons for the policy, and a "Copy" button for the JSON content.

3. Upload an Object to S3 bucket

```
[cloudshell-user@ip-10-130-82-62 ~]$ aws s3 cp /home/cloudshell-user/hello.html s3://demo-shankar77
upload: ./hello.html to s3://demo-shankar77/hello.html
```

Amazon S3 > Buckets > demo-shankar77

demo-shankar77 Info Publicly accessible

[Objects](#) | [Properties](#) | [Permissions](#) | [Metrics](#) | [Management](#) | [Access Points](#)

Objects (1) Info

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	hello.html	html	February 26, 2024, 12:05:07 (UTC+05:30)	217.0 B	Standard

4. Generate a Public URL

```
[cloudshell-user@ip-10-130-82-62 ~]$ aws s3 cp /home/cloudshell-user/hello.html s3://demo-shankar77
upload: ./hello.html to s3://demo-shankar77/hello.html
[cloudshell-user@ip-10-130-82-62 ~]$ aws s3 presign s3://demo-shankar77/hello.html --expires-in 604800
https://demo-shankar77.s3.us-east-1.amazonaws.com/hello.html?X-Amz-Algorithm=AWS4-HMAC-SHA256&X-Amz-Credential=AKIASAXQWPQJSACKC7ZB%2F20240226%2Fus-east-1%2Fs3%2Faws4_request&X-Amz-Date=20240226T063823Z&X-Amz-Expires=604800&X-Amz-SignedHeaders=host&X-Amz-Signature=ddf3527da71e00e632b3bef628d89444cdfadc202d226935143696b90e17984f
```

<https://demo-shankar77.s3.us-east-2.amazonaws.com/hello.html>

Hello World!