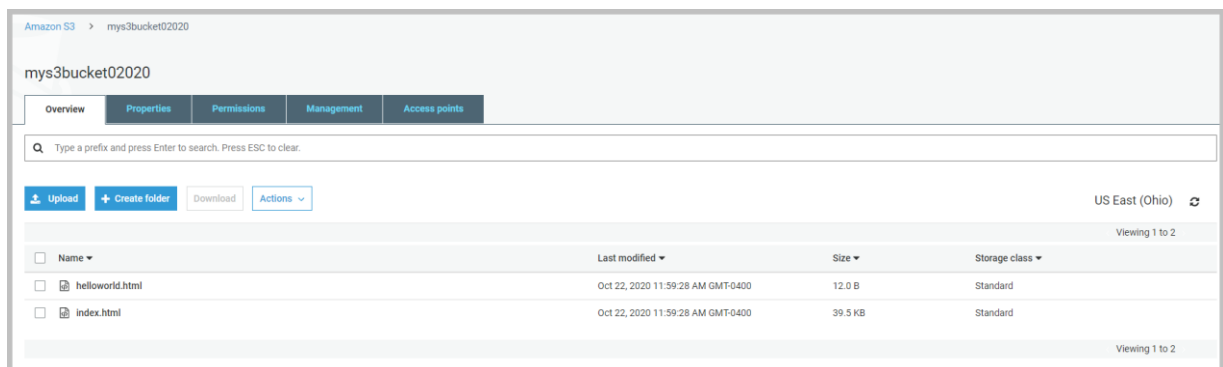# Module 2: Create and Configure S3 Bucket

1. Create an S3 bucket using the AWS Console or AWS Command Line Interface (e.g. aws s3 mb s3://<uniquebucketname1>)

2. Upload a few small files to the bucket.   Include at least one html file (e.g. echo "This is a test" | aws s3 cp – s3://<uniquebucketname1>/test.html)

3. Use the Console to verify that the files are uploaded and accessible from the bucket

4. Click the Permissions tab > Bucket Policy
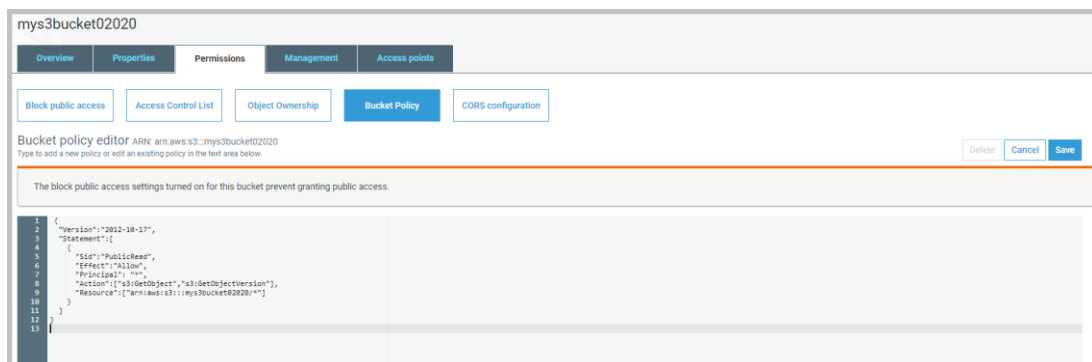
5. Test the effects of the three sample bucket policies below on your s3 bucket.

6. Review Question: What is an easy way to verify that a bucket is not publicly accessible?

7. Delete the bucket when you are finished.   If you wish to continue practicing, try the steps again using the AWS CLI if you did them in the

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Console.   You may also try the following exercises.   Ask your instructor for help or use the AWS Documentation web-site for assistance (https://docs.aws.amazon.com):

- Create a folder in the bucket and try to copy / move files to it
- Create an additional bucket and copy / move files between them
- Synchronize the content in two buckets
- Enable and test the versioning feature to retrieve older versions of a file

Notes: Test the following bucket policies on your s3 bucket before deleting it:

Anonymous Access:

```
{
   "Version":"2012-10-17",
   "Statement":[
     {
        "Sid":"PublicRead",
        "Effect":"Allow",
        "Principal": "*",
        "Action":["s3:GetObject","s3:GetObjectVersion"],
        "Resource":["arn:aws:s3:::mys3bucket02020/*"]
     }
   ]
}
```

User Account Access:

```
{
   "Version":"2012-10-17",
   "Statement":[
     {
        "Sid":"AddCannedAcl",
        "Effect":"Allow",
```

```
     "Principal": {"AWS":
["arn:aws:iam::111122223333:root","arn:aws:iam::444455556666:root"]},
        "Action":["s3:PutObject","s3:PutObjectAcl"],
        "Resource":"arn:aws:s3:::mys3bucket02020/*",
        "Condition":{"StringEquals":{"s3:x-amz-acl":["public-read"]}}
      }
   ]
}
```

IP Access:

```
{
     "Version": "2012-10-17",
     "Id": "S3PolicyId1",
     "Statement": [
        {
             "Sid": "IPAllow",
             "Effect": "Allow",
             "Principal": "*",
             "Action": "s3:*",
             "Resource": ["arn:aws:s3:::mys3bucket02020/*"],
             "Condition": {
                 "IpAddress": {
                     "aws:SourceIp": "63.63.63.0/24"
                 }
             }
        }
     ]
}
```