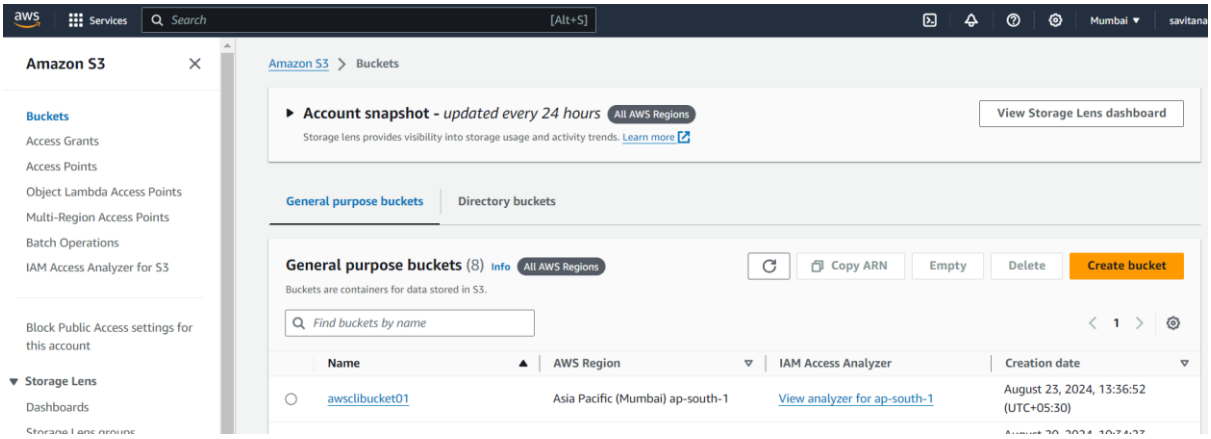
AWS CLI Practical Task **Savita-Nalawade**

Task 1 - Copy a object from one bucket to another bucket using cli

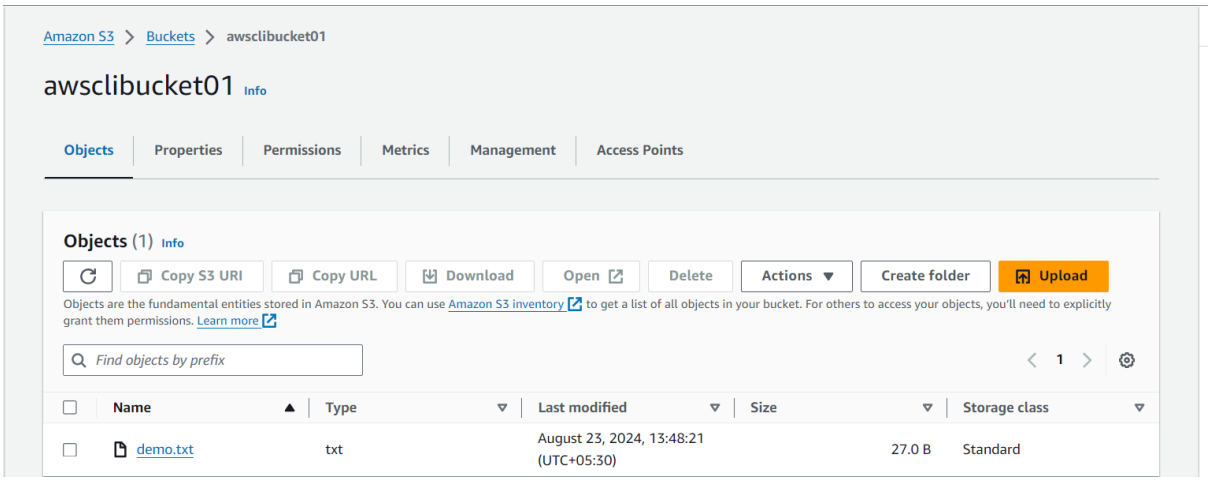
a. Create one bucket

```
C:\Users\HP>aws s3 mb s3://awsclibucket01
make_bucket: awsclibucket01
```



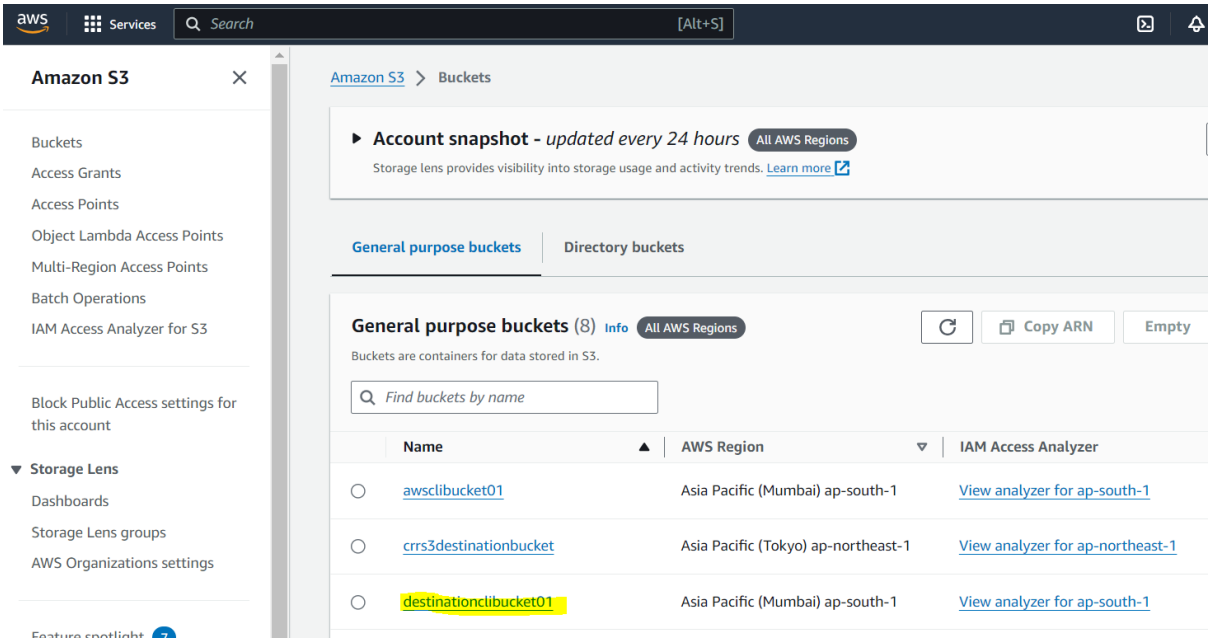
b. Upload object into the bucket

```
C:\Users\HP>aws s3 cp desktop/aws/demo.txt s3://awsclibucket01
upload: desktop\aws\demo.txt to s3://awsclibucket01/demo.txt

C:\Users\HP>
```



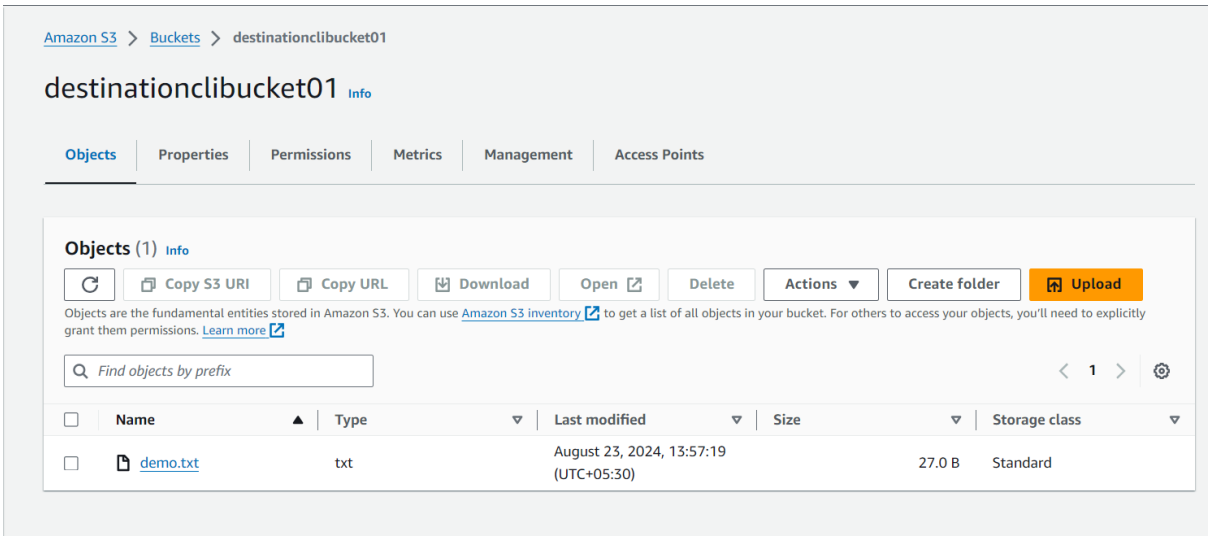
c. Create one more destination bucket to copy object from existing bucket

```
C:\Users\HP>aws s3 mb s3://destinationclibucket01
make_bucket: destinationclibucket01

C:\Users\HP>
```



d. Now copy object from awsclibucket01 to destinationclibucket01

```
C:\Users\HP>aws s3 sync s3://awsclibucket01 s3://destinationclibucket01
copy: s3://awsclibucket01/demo.txt to s3://destinationclibucket01/demo.txt

C:\Users\HP>
```



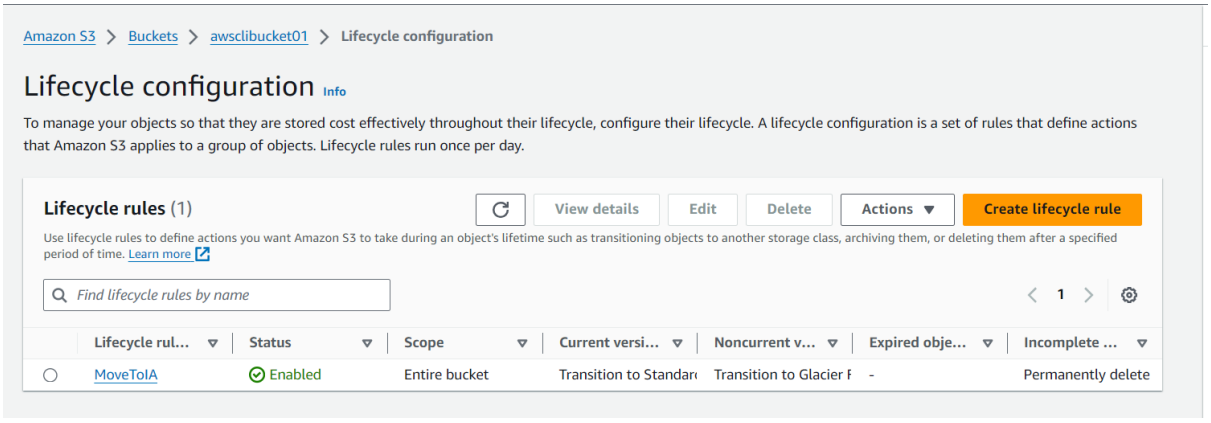
Task2 : Implement s3 life cycle policy using CLI

a. We are trying to apply life cycle policy to exsting bucket (awsclibucket01)

b. We have create one json file and editing as per requirement

```
[root@ip-172-31-11-241 ~]# cat > lifecycle.json
{
  "Rules": [
    {
      "ID": "MoveToIA",
      "Filter": {
        "Prefix": ""
      },
      "Status": "Enabled",
      "Transitions": [
        {
          "Days": 30,
          "StorageClass": "STANDARD_IA"
        }
      ],
      "Expiration": {
        "Days": 365
      },
      "NoncurrentVersionTransitions": [
        {
          "NoncurrentDays": 30,
          "StorageClass": "GLACIER"
        }
      ],
      "NoncurrentVersionExpiration": {
        "NoncurrentDays": 365
      },
      "AbortIncompleteMultipartUpload": {
        "DaysAfterInitiation": 7
      }
    }
  ]
}
[root@ip-172-31-11-241 ~]# aws s3api put-bucket-lifecycle-configuration --bucket
 awsclibucket01 --lifecycle-configuration file://lifecycle.json
[root@ip-172-31-11-241 ~]#
```

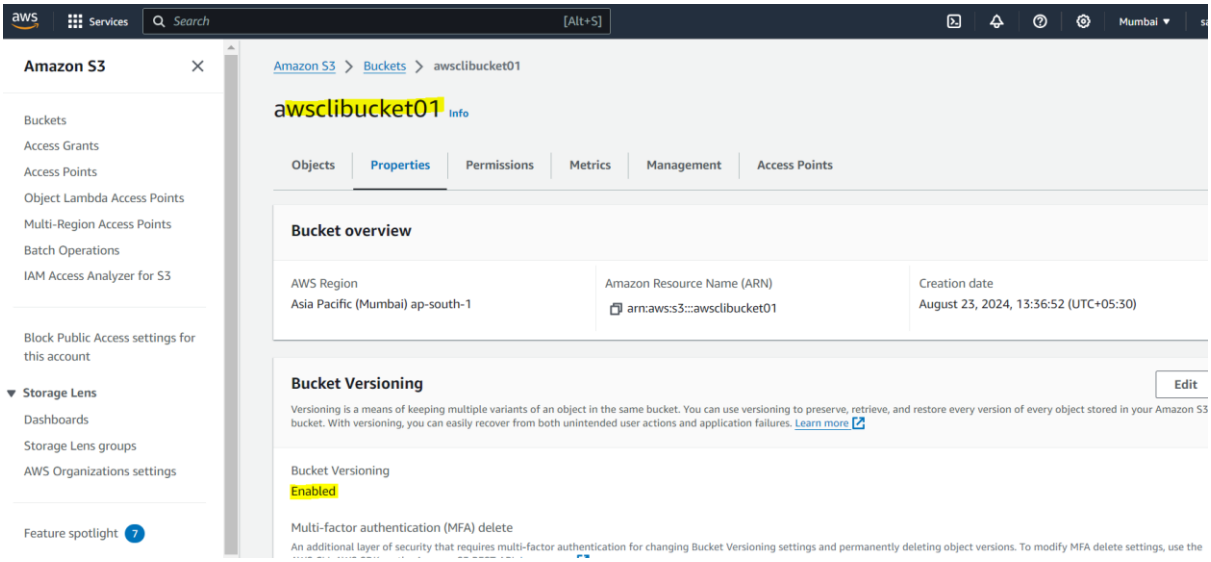
c. Lifepolicy have been applied



Task3- Impletement cross region replication using CLI

a. Enabled versioning of awsclibucket01

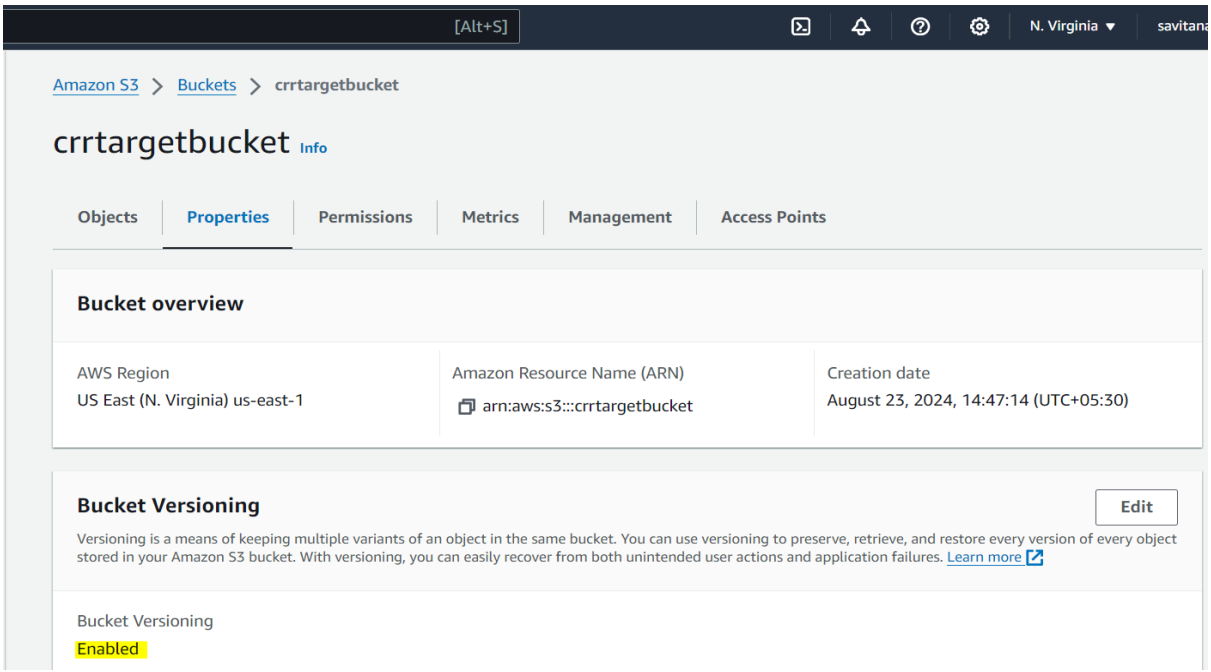
```
C:\Users\HP>aws s3api put-bucket-versioning --bucket awsclibucket01 --versioning-configuration Status=Enabled

C:\Users\HP>
```



b. create new bucket in another region and Enabled versioning of crrtargetbucket

```
C:\Users\HP>aws s3api create-bucket --bucket crrtargetbucket --region us-east-1
{
    "Location": "/crrtargetbucket"
}
```

```
C:\Users\HP>aws s3api put-bucket-versioning --bucket crrtargetbucket --versioning-configuration Status=Enabled

C:\Users\HP>
```

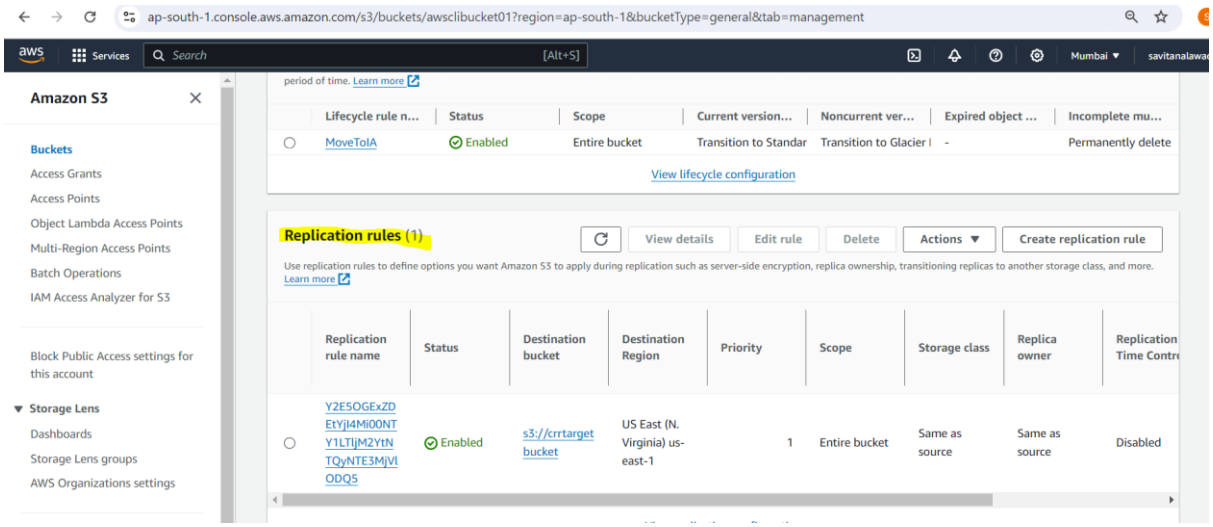


c. now applying replication rule to awsclibucket(sourcebucket)

```
[root@ip-172-31-11-241 ~]# cat > replication.json
{
    "Role": "arn:aws:iam::664418982701:role/CRRclirole",
    "Rules": [
        {
            "Status": "Enabled",
            "Priority": 1,
            "DeleteMarkerReplication": { "Status": "Disabled" },
            "Filter" : { "Prefix": ""},
            "Destination": {
                "Bucket": "arn:aws:s3:::crrtargetbucket"
            }
        }
    ]
}
[root@ip-172-31-11-241 ~]#
```

```
[root@ip-172-31-11-241 ~]# aws s3api put-bucket-replication --bucket awsclibucket01 --replication-configuration file://replication.json
[root@ip-172-31-11-241 ~]#
```

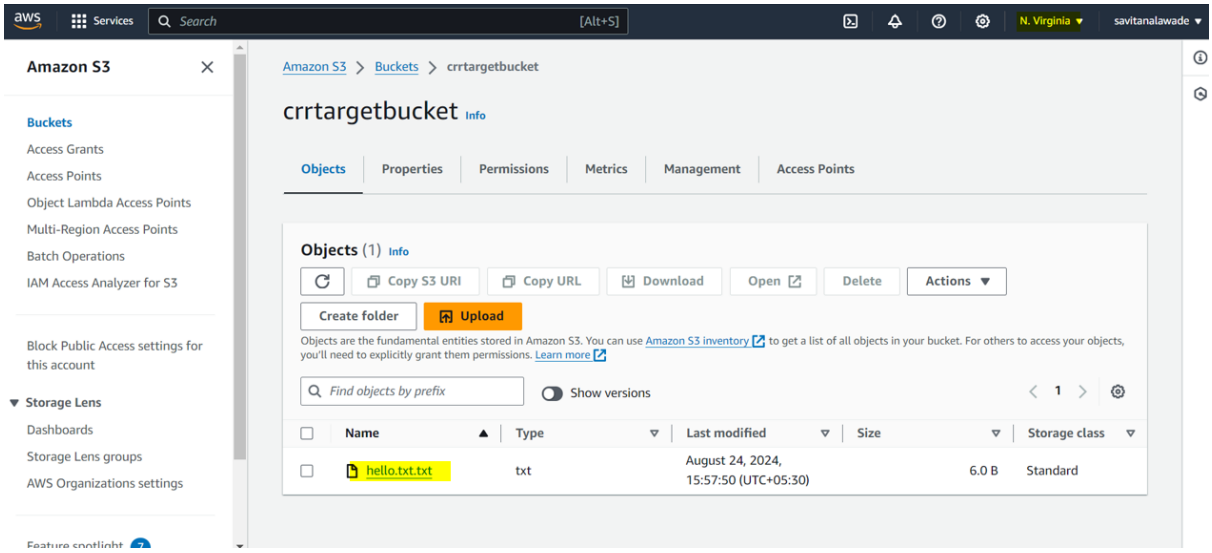
[root@ip-172-31-11-241 ~]# aws s3api put-bucket-replication --bucket awsclibucket01 --replication-configuration file://replication.json



d. After applying CRR now I have uploaded one file to source bucket it should visible in destination as well.

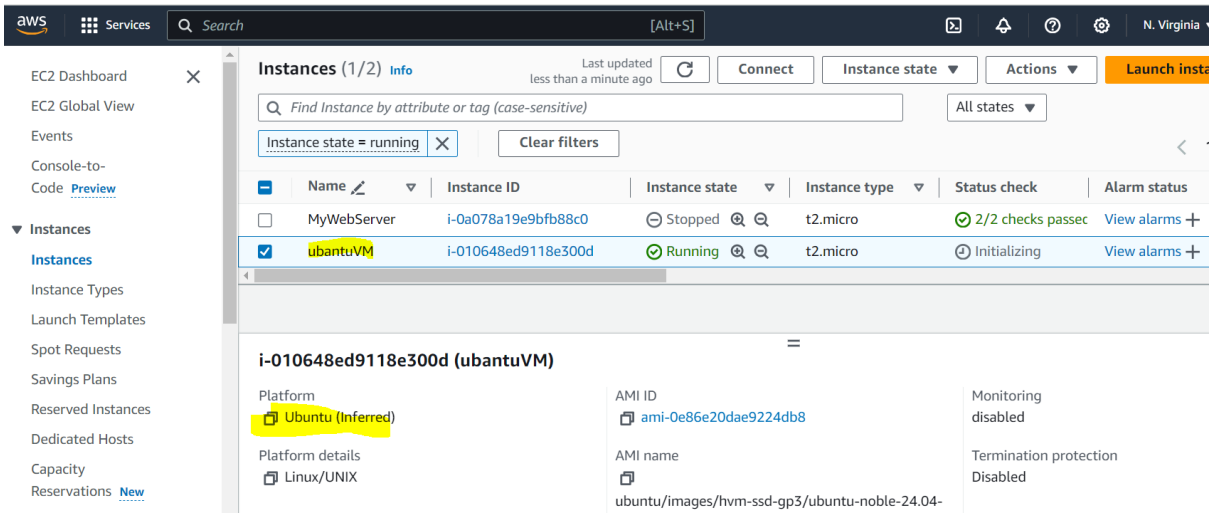
```
C:\Users\HP>aws s3 cp desktop/aws/hello.txt.txt s3://awsclibucket01
upload: desktop\aws\hello.txt.txt to s3://awsclibucket01/hello.txt.txt

C:\Users\HP>
```

e. We can see object is there is destination bucket.

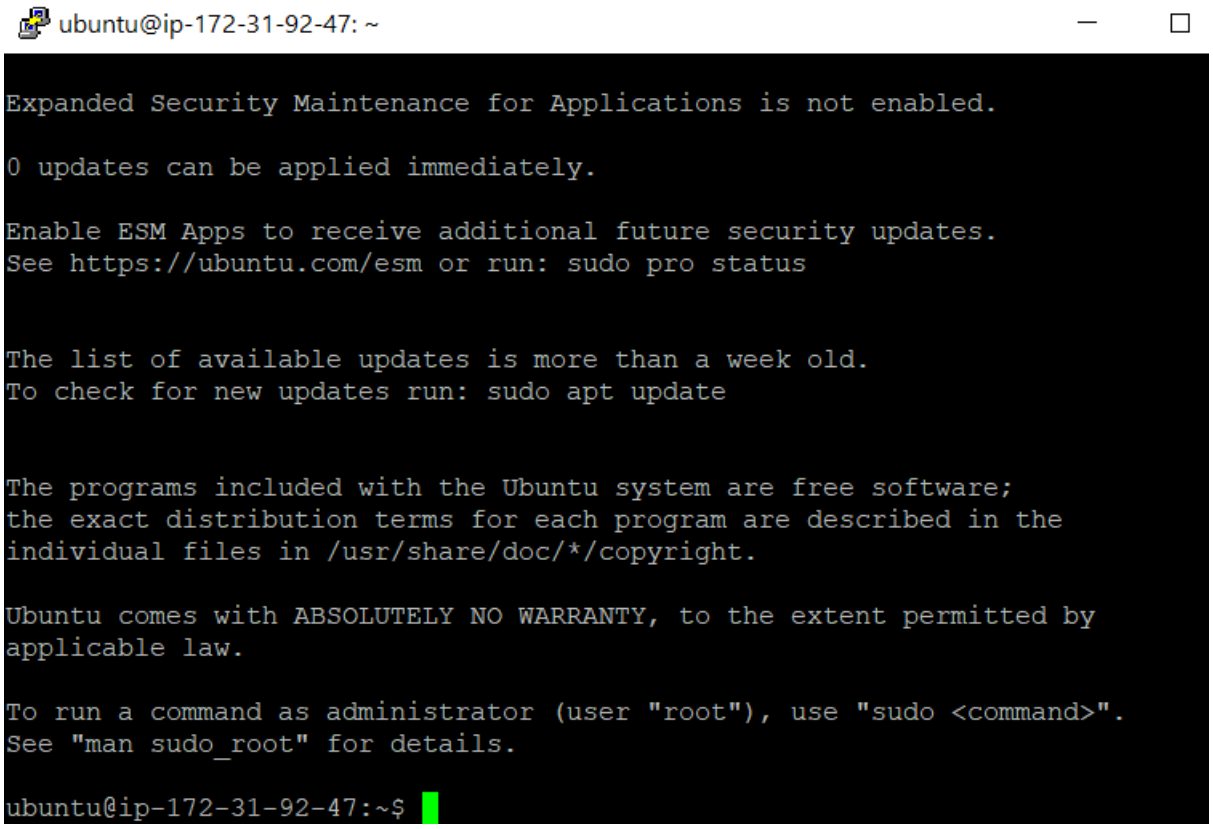


Created one instance using ubuntu OS **24th August 2024**

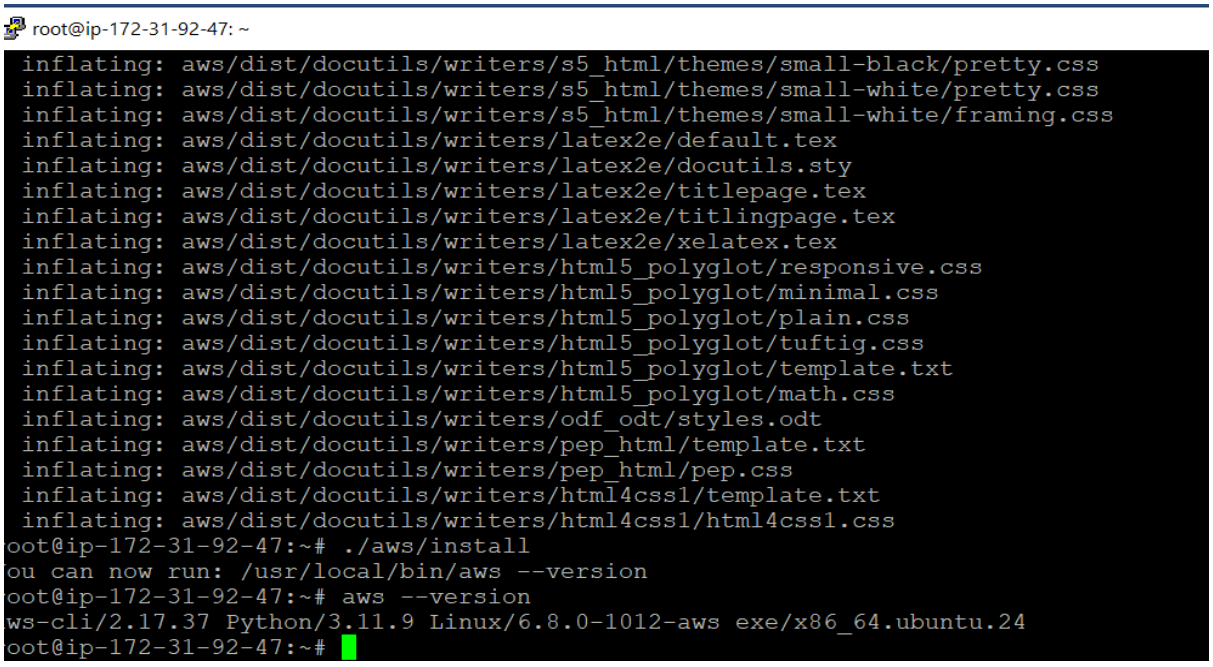
1. created one instance with ubuntu OS



2.Connected to putty as a ubuntu user



3.AWS CLI is successfully installed



4.Attached IAM role to instance

```
root@ip-172-31-92-47:~# aws configure list
      Name                    Value             Type    Location
      ----                    -----             ----    --------
   profile                <not set>             None    None
access_key     ****************ESYZ         iam-role
secret_key     ****************fBV1         iam-role
    region                us-east-1             imds
root@ip-172-31-92-47:~#
```

5.Created user and group

```
root@ip-172-31-46-93:~# aws iam create-user --user ubuntu-user001
{
    "User": {
        "Path": "/",
        "UserName": "ubuntu-user001",
        "UserId": "AIDAZVMTVDMW55IQBYKYR",
        "Arn": "arn:aws:iam::664418982701:user/ubuntu-user001",
        "CreateDate": "2024-08-24T13:42:14+00:00"
    }
}
root@ip-172-31-46-93:~# aws iam create-group --group ubuntugrp01
{
    "Group": {
        "Path": "/",
        "GroupName": "ubuntugrp01",
        "GroupId": "AGPAZVMTVDMW6MGUSNW5O",
        "Arn": "arn:aws:iam::664418982701:group/ubuntugrp01",
        "CreateDate": "2024-08-24T13:42:40+00:00"
    }
}
root@ip-172-31-46-93:~#
```

6.Created AccessKey & secretaccesskey

```
root@ip-172-31-46-93:~# aws iam create-access-key --user-name ubuntu-user001
{
    "AccessKey": {
        "UserName": "ubuntu-user001",
        "AccessKeyId": "AKIAZVMTVDMWQU7BUEPH",
        "Status": "Active",
        "SecretAccessKey": "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",
        "CreateDate": "2024-08-24T13:47:34+00:00"
    }
}
root@ip-172-31-46-93:~#
```

7.Created instance using aws cli

```
root@ip-172-31-46-93:~# aws ec2 run-instances --image-id ami-0522ab6e1ddcc7055 -
-count 1 --instance-type t2.micro --key-name AWSdevops --security-group-ids sg-0
700c20b660b917ac
{
    "Groups": [],
    "Instances": [
        {
            "AmiLaunchIndex": 0,
            "ImageId": "ami-0522ab6e1ddcc7055",
            "InstanceId": "i-0d6b9ae0cc40a0836",
            "InstanceType": "t2.micro",
            "KeyName": "AWSdevops",
            "LaunchTime": "2024-08-24T13:36:22+00:00",
            "Monitoring": {
                "State": "disabled"
            },
            "Placement": {
                "AvailabilityZone": "ap-south-1a",
                "GroupName": "",
                "Tenancy": "default"
            },
            "PrivateDnsName": "ip-172-31-43-40.ap-south-1.compute.internal",
            "PrivateIpAddress": "172.31.43.40",
            "ProductCodes": [],
            "PublicDnsName": "",
```

Output