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Aim : Install and learn AWS CLI

1] AWS Help

The built-in AWS CLI help command. You can get help with any command when using the AWS Command Line Interface (AWS CLI). To do so, simply type help at the end of a command name. For example, the following command displays help for the general AWS CLI options and the available top-level commands.

```
[cloudshell-user@ip-10-0-81-125 ~]$ aws help
AWS()

NAME
    aws -

DESCRIPTION
    The AWS Command Line Interface is a unified tool to manage your AWS
    services.

SYNOPSIS
    aws [options] <command> <subcommand> [parameters]

    Use aws command help for information on a specific command. Use aws
    help topics to view a list of available help topics. The synopsis for
    each command shows its parameters and their usage. Optional parameters
    are shown in square brackets.

GLOBAL OPTIONS
    --debug (boolean)

    Turn on debug logging.
```

2] AWS – version

The AWS CLI version 2 is the most recent major version of the AWS CLI and supports all of the latest features

```
Last login: Mon Sep  5 11:22:21 2022 from ec2-13-233-177-3.ap-south-1.compute.amazonaws.com

 _ | _ | _ )
 _ | ( _ /
 _ | \ _ | _ |
      Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
3 package(s) needed for security, out of 8 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-34-35 ~]$ aws --version
aws-cli/1.18.147 Python/2.7.18 Linux/5.10.130-118.517.amzn2.x86_64 botocore/1.18.6
[ec2-user@ip-172-31-34-35 ~]$
```

3] AWS configure

AWS Config is a service that enables you to assess, audit, and evaluate the configurations of your AWS resources. Config continuously monitors and records your AWS resource configurations and allows you to automate the evaluation of recorded configurations against desired configurations.

```

    _|_  _|_  )
    _|_ (  _/  )
    _|_ \_/_|_ )

Amazon Linux 2 AMI

https://aws.amazon.com/amazon-linux-2/
3 package(s) needed for security, out of 8 available
Run "sudo yum update" to apply all updates.
[ec2-user@ip-172-31-34-35 ~]$ aws configure
AWS Access Key ID [None]: AKIA4FHVYDANUYI2ZPUD
AWS Secret Access Key [None]: 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
Default region name [None]: Mumbai
Default output format [None]: JSON
[ec2-user@ip-172-31-34-35 ~]$
```

4] sts get-caller-identity

To get your account id using AWS CLI, run the `sts get-caller-identity` command, setting the `--query` parameter to `Account` to filter the output. Copied! The `get-caller-identity` command returns the `User Id`, `Account Id`, and the `ARN` of the caller

```
[cloudshell-user@ip-10-0-81-125 ~]$ aws sts get-caller-identity
{
  "UserId": "AIDA4FHVYD4NQ32I3W4PU",
  "Account": "835886522139",
  "Arn": "arn:aws:iam:835886522139:user/AWSMangloo"
}
[cloudshell-user@ip-10-0-81-125 ~]$
```

5] aws s3 ls

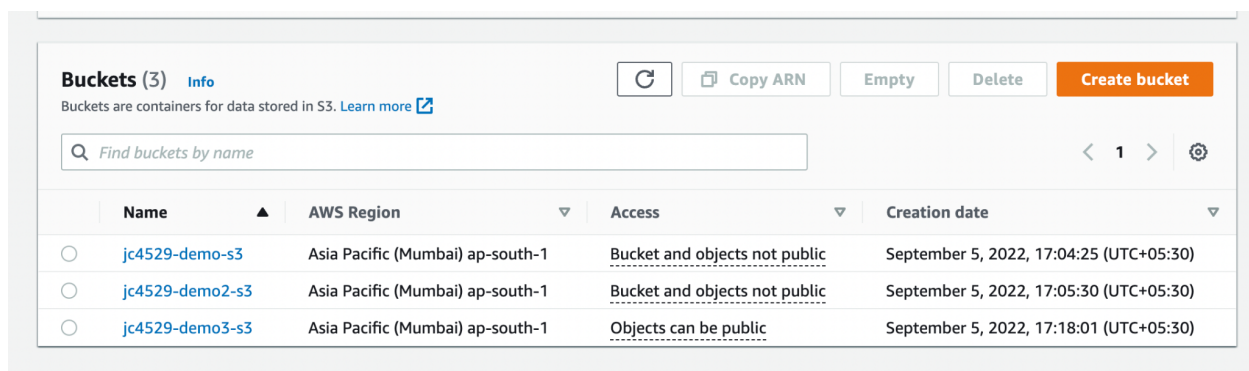
To list your buckets, folders, or objects, use the `s3 ls` command. Using the command without a target or options lists all buckets.

```
[cloudshell-user@ip-10-0-81-125 ~]$ aws s3 ls
2022-09-05 11:34:27 jc4529-demo-s3
2022-09-05 11:35:31 jc4529-demo2-s3
[cloudshell-user@ip-10-0-81-125 ~]$ $
```

6] create bucket

To create a bucket, you must register with Amazon S3 and have a valid Amazon Web Services Access Key ID to authenticate requests. Anonymous requests are never allowed to create buckets. By creating the bucket, you become the bucket owner. Not every string is an acceptable bucket name.

```
[cloudshell-user@ip-10-0-81-125 ~]$ aws s3 mb s3://jc4529-demo3-s3 --region ap-south-1
make_bucket: jc4529-demo3-s3
[cloudshell-user@ip-10-0-81-125 ~]$ █
```

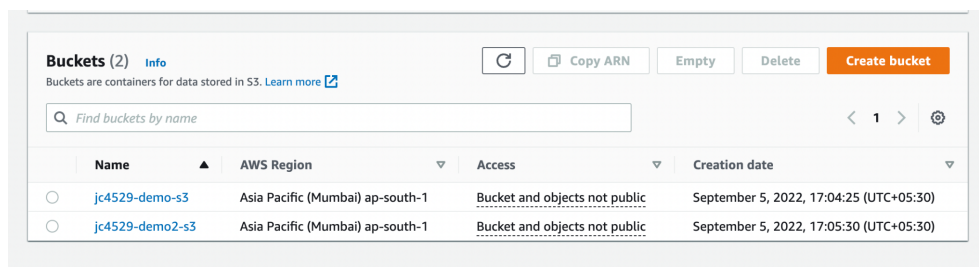


	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
<input type="radio"/>	jc4529-demo-s3	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	September 5, 2022, 17:04:25 (UTC+05:30)
<input type="radio"/>	jc4529-demo2-s3	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	September 5, 2022, 17:05:30 (UTC+05:30)
<input type="radio"/>	jc4529-demo3-s3	Asia Pacific (Mumbai) ap-south-1	Objects can be public	September 5, 2022, 17:18:01 (UTC+05:30)

7] delete bucket

If your bucket does not have versioning enabled, you can use the rb (remove bucket) AWS CLI command with the --force parameter to delete the bucket and all the objects in it. This command deletes all objects first and then deletes the bucket.

```
[cloudshell-user@ip-10-0-81-125 ~]$ aws s3 rb s3://jc4529-demo3-s3 --force
remove_bucket: jc4529-demo3-s3
[cloudshell-user@ip-10-0-81-125 ~]$ █
```



	Name ▲	AWS Region ▼	Access ▼	Creation date ▼
<input type="radio"/>	jc4529-demo-s3	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	September 5, 2022, 17:04:25 (UTC+05:30)
<input type="radio"/>	jc4529-demo2-s3	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	September 5, 2022, 17:05:30 (UTC+05:30)

8] IAM list users

IAM list users can see the list of users created with id and ARN numbers and details. aws iam list-users.

```
[cloudshell-user@ip-10-0-81-125 ~]$ aws iam list-users
{
  "Users": [
    {
      "Path": "/",
      "UserName": "AWSMangloo",
      "UserId": "AIDA4FHVYD4NQ32I3W4PU",
      "Arn": "arn:aws:iam::835886522139:user/AWSMangloo",
      "CreateDate": "2022-08-30T14:26:22+00:00",
      "PasswordLastUsed": "2022-09-05T11:04:37+00:00"
    }
  ]
}
```

9] EC2 Describe instance

This describes the EC2 instance created . aws ec2 describe-instances .

```
[cloudshell-user@ip-10-0-81-125 ~]$ aws ec2 describe-instances
{
  "Reservations": [
    {
      "Groups": [],
      "Instances": [
        {
          "AmiLaunchIndex": 0,
          "ImageId": "ami-06489866022e12a14",
          "InstanceId": "i-06ae521492b2ecc3e",
          "InstanceType": "t2.micro",
          "KeyName": "myec2key",
          "LaunchTime": "2022-09-05T11:10:37+00:00",
          "Monitoring": {
            "State": "disabled"
          },
          "Placement": {
            "AvailabilityZone": "ap-south-1a",
            "GroupName": "",
            "Tenancy": "default"
          },
          "PrivateDnsName": "ip-172-31-34-35.ap-south-1.compute.internal",
          "PrivateIpAddress": "172.31.34.35",
          "ProductCodes": []
        }
      ]
    }
  ]
}
```

10] aws s3 ls bucketName

The following ls command lists objects and common prefixes under a specified bucket and prefix. In this example, the user owns the bucket mybucket with the objects test.txt and somePrefix/test.txt. The LastWriteTime and Length are arbitrary. Note that since the ls command has no interaction with the local filesystem, the s3:// URI scheme is not required to resolve ambiguity and may be omitted

```
[cloudshell-user@ip-10-0-81-125 ~]$ aws s3 ls
2022-09-05 11:34:27 jc4529-demo-s3
2022-09-05 11:35:31 jc4529-demo2-s3
[cloudshell-user@ip-10-0-81-125 ~]$ $
```