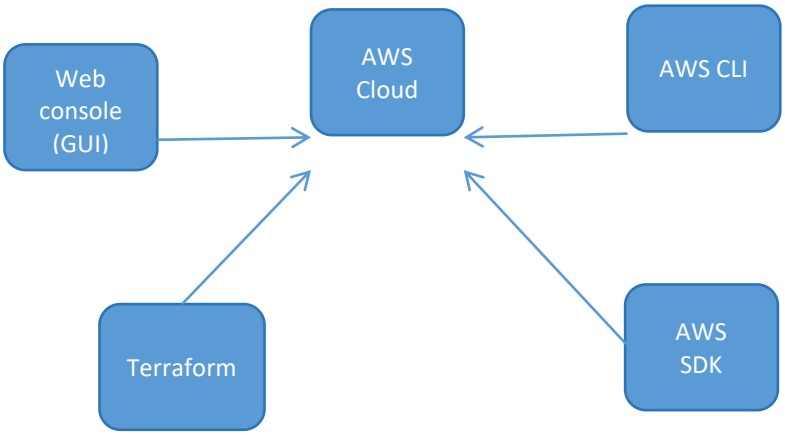
AWS CLI:
We are able to access AWS Cloud from Web console



For DevOps Engineer, which option is trending in industry, it is Terraform

AWS CLI: Command-line interface

Ways for infrastructure configuration: AWS management web console, AWS CLI (Command-Line Interface)

AWS CLI ---> Usually the script provides you with flexibility to manage AWS resources and infrastructure

We need an AccessKey and SecretKey
Go to : https://docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html

Click on this link:

▼ **Windows**

Install and update requirements

- We support the AWS CLI on Microsoft-supported versions of 64-bit Windows.
- Admin rights to install software

Install or update the AWS CLI

To update your current installation of AWS CLI on Windows, download a new installer each time you update to overwrite previous versions. AWS CLI is updated regularly. To see when the latest version was released, see the AWS CLI version 2 Changelog on *GitHub*.

1. Download and run the AWS CLI MSI installer for Windows (64-bit):
   https://awscli.amazonaws.com/AWSCLIV2.msi
   Alternatively, you can run the `msiexec` command to run the MSI installer.

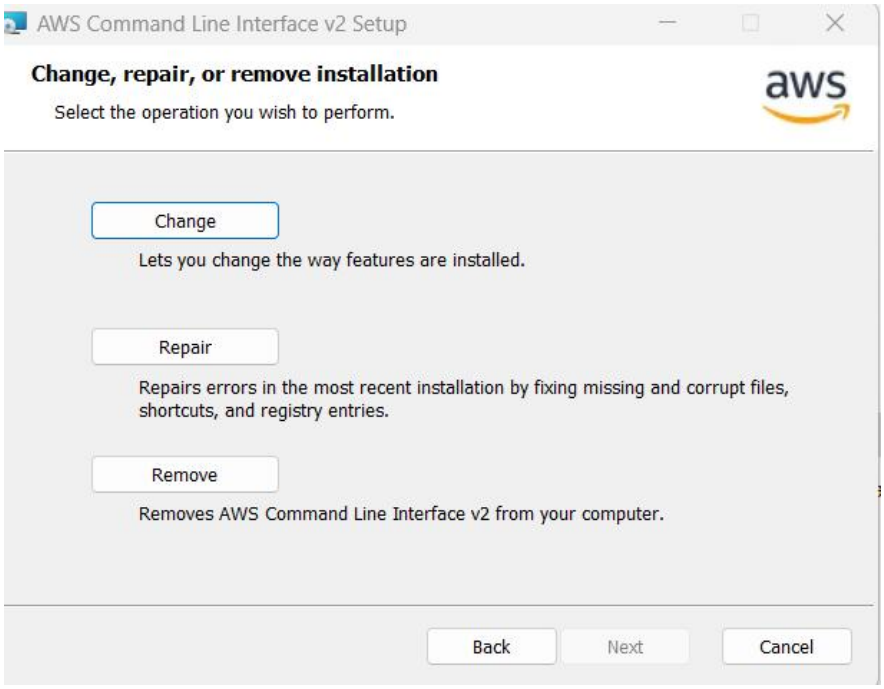
```
C:\> msiexec.exe /i https://awscli.amazonaws.com/AWSCLIV2.msi
```

Install AWS CLI on Windows

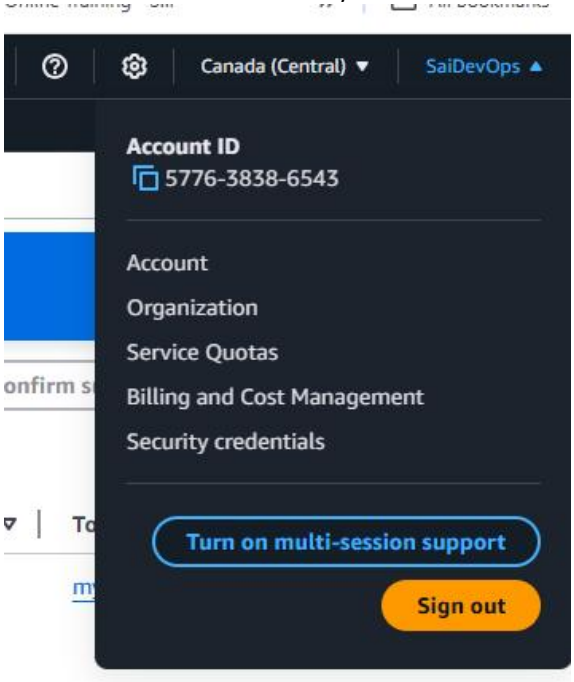
msiexec.exe /i https://awscli.amazonaws.com/AWSCLIV2.msi

Or click on https://awscli.amazonaws.com/AWSCLIV2.msi

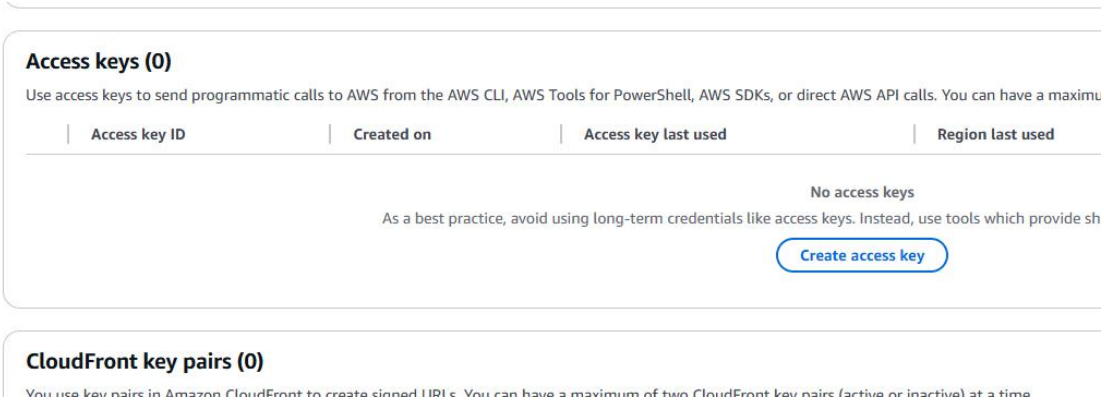
Install AWS CLI



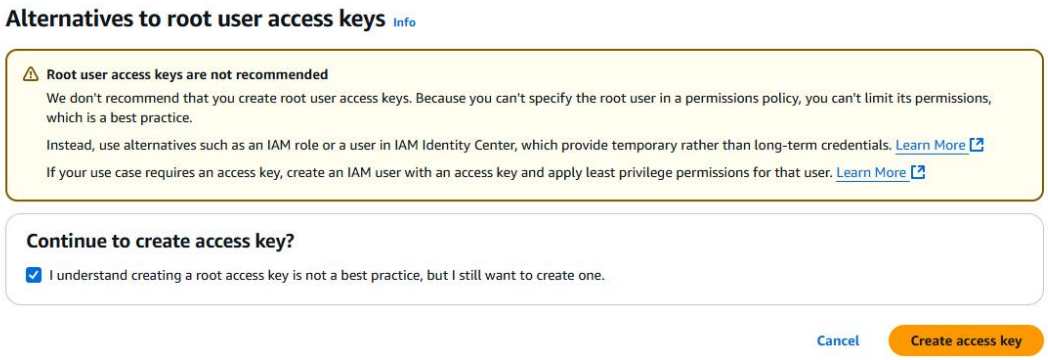
Go to AWS Console ---> Security credentials



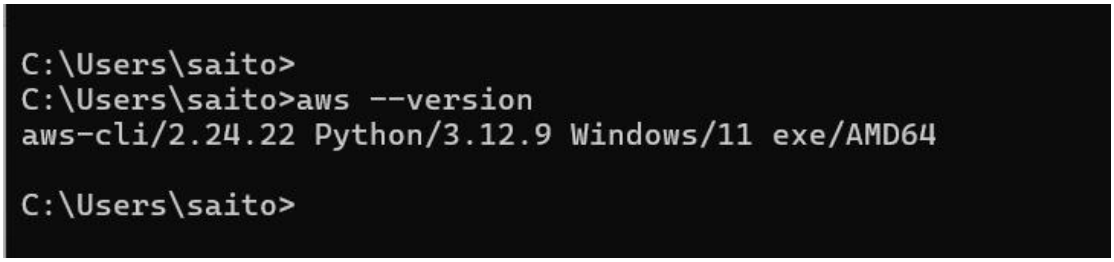
Create access key --> What's recommended is. Create an IAM user first then create access key for that IAM user



I will delete access key right after using it



Configuring AWS CLI
1. Create an AWS account in order to configure AWS CLI (Use existing if you already have one)
2. Create IAM user with Security credentials (Access key and Secret key)
3. Open Command prompt and connect



Next type --> aws configure
Enter AWS Access key and secret key

Correct the region to ca-central-1

Go to AWS CLI Command Reference
https://docs.aws.amazon.com/cli/latest/

AWS CLI Command Reference ¶

The AWS Command Line Interface is a unified tool that provides a consistent interface for interac
all parts of AWS.

- Command Reference
  - accessanalyzer
  - account
  - acm
  - acm-pca
  - amp
  - amplify
  - amplifybackend
  - amplifyuibuilder
  - apigateway
  - apigatewaymanagementapi
  - apigatewayv2
  - appconfig

CLI Documentation: https://docs.aws.amazon.com/cli/latest/
Example for EC2: https://docs.aws.amazon.com/cli/latest/reference/ec2/

Example to attach volume to EC2

[aws . ec2]

attach-volume ¶

Description ¶

Attaches an EBS volume to a running or stopped instance and exposes it to the instance with the specifie
device name.

Encrypted EBS volumes must be attached to instances that support Amazon EBS encryption. For more information, see Amazon EBS encryption in the *Amazon EBS User Guide* .

After you attach an EBS volume, you must make it available. For more information, see Make an EBS volume available for use .

If a volume has an Amazon Web Services Marketplace product code:

- The volume can be attached only to a stopped instance.
- Amazon Web Services Marketplace product codes are copied from the volume to the instance.
- You must be subscribed to the product.
- The instance type and operating system of the instance must support the product. For example, you can't detach a volume from a Windows instance and attach it to a Linux instance.

For more information, see Attach an Amazon EBS volume to an instance in the *Amazon EBS User Guide*

See also: AWS API Documentation

Example 1: Create a bucket

The following `mb` command creates a bucket. In this example, the user makes the bucket `amzn-s3-dem` `bucket` . The bucket is created in the region specified in the user's configuration file:

```
aws s3 mb s3://amzn-s3-demo-bucket
```

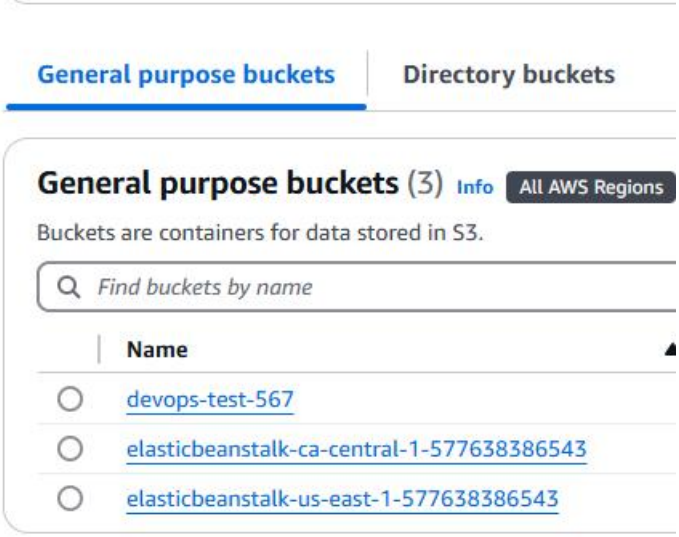
Output:

Create a new bucket

```
C:\Users\saito>
C:\Users\saito>aws s3 mb s3://devops-test
make_bucket failed: s3://devops-test An error occurred (BucketAlreadyExists) when calling t
e requested bucket name is not available. The bucket namespace is shared by all users of th
ferent name and try again.

C:\Users\saito>aws s3 mb s3://devops-test-567
make_bucket: devops-test-567
```

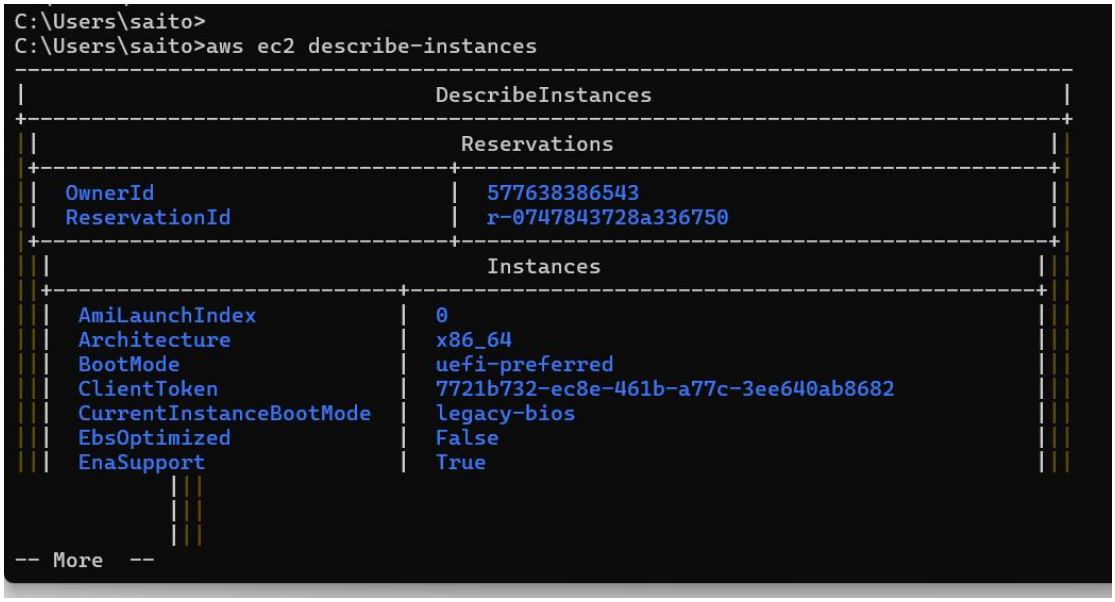
One more bucket is there




```
C:\Users\saito>aws s3 rb s3://devops-test-567
remove_bucket: devops-test-567
```

For every action we need to use commands and which command to run those details are available in AWS documentation

For example:
To Display bucket list: aws s3 ls
Create a new bucket: aws mb s3://<new_bucket>
Delete an empty bucket: aws rb s3://<bucket_name>


C:\Users\saito>
C:\Users\saito>aws ec2 describe-instances
DescribeInstances
Reservations
OwnerId
577638386543
ReservationId
r-0747843728a336750
Instances
AmiLaunchIndex
0
Architecture
x86_64
BootMode
uefi-preferred
ClientToken
7721b732-ec8e-461b-a77c-3ee640ab8682
CurrentInstanceBootMode
legacy-bios
EbsOptimized
False
EnaSupport
True
-- More --