Task 5: AWS CLI

1.

2. Type the following command and press Enter:

   `aws --version`

   You should see output similar to:

   `aws-cli/2.x.x Python/3.x.x Windows/x64`

Step 4: Configure AWS CLI
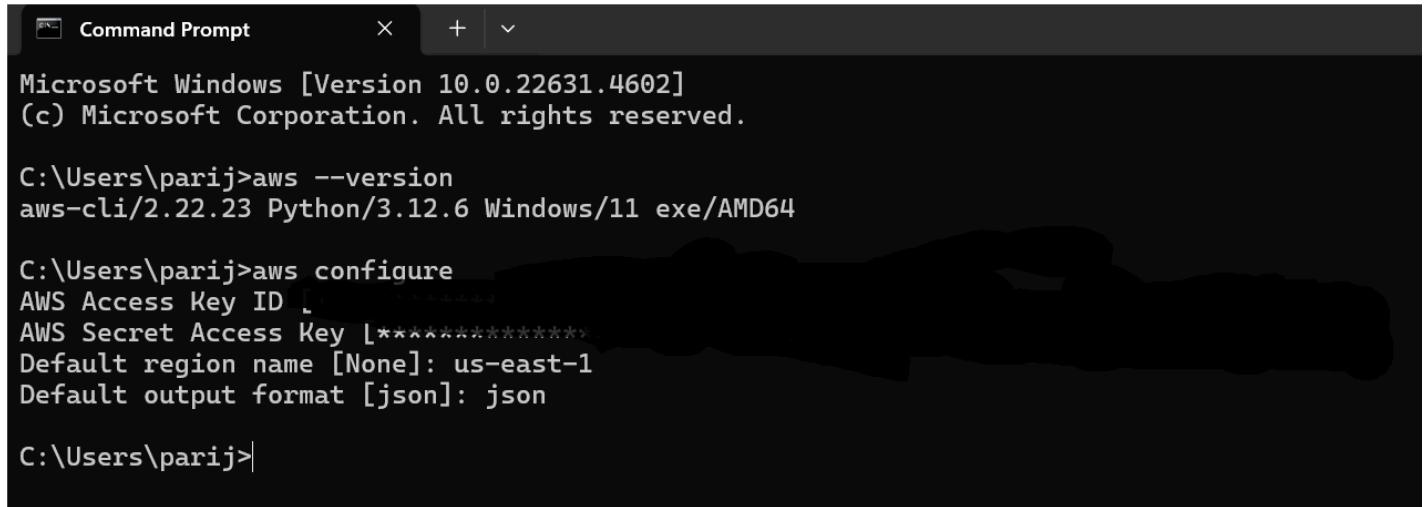Use the `aws configure` command to set up your credentials:
`aws configure`

1.
2. Provide the following details when prompted:
   - AWS Access Key ID: Obtain this from the AWS Management Console.
   - AWS Secret Access Key: Obtain this from the AWS Management Console.
   - Default Region Name: For example, `us-east-1` or `us-west-2`.
   - Default Output Format: Typically `json,` but you can choose `text` or `table`.

```
Command Prompt                    ×    +   ∨

Microsoft Windows [Version 10.0.22631.4602]
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C:\Users\parij>aws --version
aws-cli/2.22.23 Python/3.12.6 Windows/11 exe/AMD64

C:\Users\parij>aws configure
AWS Access Key ID [
AWS Secret Access Key [**************
Default region name [None]: us-east-1
Default output format [json]: json

C:\Users\parij>
```

Troubleshooting

1. Ensure the AWS CLI executable is in your system's PATH. If not, manually add the installation path
   (e.g., `C:\Program Files\Amazon\AWSCLI\bin`) to your system PATH environment variable.

Update AWS CLI regularly using the command:

```
aws --version
aws install update
```

2. Mount S3 bucket on Amazon Linux 2?

To mount an S3 bucket on an Amazon Linux 2 instance, you can use the `s3fs` utility. Here's how to set it up:

Step 1: Update the System
1. Update your packages:
   ```
   sudo yum update -y
   ```
2. Install the EPEL repository for access to `s3fs-fuse`:
   ```
   sudo amazon-linux-extras install epel -y
   ```

Step 2: Install `s3fs`
Install the `s3fs` package:
```
sudo yum install -y s3fs-fuse
```

Step 3: Configure AWS Credentials
1. Create a password file for `s3fs`:
   ```
   echo "ACCESS_KEY:SECRET_KEY" | sudo tee /etc/passwd-s3fs
   ```
2. Replace `ACCESS_KEY` and `SECRET_KEY` with your actual AWS access and secret keys.

Secure the file:

```
sudo chmod 600 /etc/passwd-s3fs
```

Step 4: Create a Mount Point
1. Create a directory where the S3 bucket will be mounted:

   ```
   sudo mkdir /mnt/s3bucket
   ```

Step 5: Mount the S3 Bucket

Mount the S3 bucket using `s3fs`:

```
s3fs BUCKET_NAME /mnt/s3bucket -o passwd_file=/etc/passwd-s3fs
```

1. Replace `BUCKET_NAME` with your S3 bucket name.

Step 6: Verify the Mount

Check if the bucket is mounted:

```
df -h
```

1. Navigate to the mount point:

   ```
   cd /mnt/s3bucket
   ```
2. `ls`

Step 7: Automate Mounting (Optional)

Open the `/etc/fstab` file for editing:

```
sudo nano /etc/fstab
```

3. Add the following entry:

   ```
   s3fs#BUCKET_NAME /mnt/s3bucket fuse _netdev,passwd_file=/etc/passwd-s3fs 0 0
   ```
4. Save and exit the editor.

Test the configuration by unmounting and remounting:

```
sudo umount /mnt/s3bucket
```

5. `sudo mount -a`

6. ## Create below using AWS CLI
   ## EC2
   Ec2 instance creation using AWS CLI
   You will get a command we have to change the ami, mykeypairname,
   instanceid, subnetid, Security groupID

EBS
EFS
S3 bucket

```
[root@ip-172-31-15-123 ~]# aws s3 ls
2024-12-12 02:03:03 sampledecember13
[root@ip-172-31-15-123 ~]# aws s3 ls s3://sampledecember13
[root@ip-172-31-15-123 ~]#
```