

Task 5: AWS CLI

1.

```
[root@ip-172-31-23-111 ~]# wget msiexec.exe /i https://awscli.amazonaws.com/AWSCLIV2.msi
--2025-01-05 09:40:40-- http://msiexec.exe/
Resolving msiexec.exe (msiexec.exe)... failed: Name or service not known.
wget: unable to resolve host address 'msiexec.exe'
/i: Scheme missing.
--2025-01-05 09:40:40-- https://awscli.amazonaws.com/AWSCLIV2.msi
Resolving awscli.amazonaws.com (awscli.amazonaws.com)... 18.67.76.28, 18.67.76.51, 18.67.76.40, ...
Connecting to awscli.amazonaws.com (awscli.amazonaws.com)|18.67.76.28|:443... connected.
HTTP request sent, awaiting response... 200 OK
Length: 42635264 (41M) [binary/octet-stream]
Saving to: 'AWSCLIV2.msi'

AWSCLIV2.msi                               100%[=====>] 40.66
2025-01-05 09:40:41 (101 MB/s) - 'AWSCLIV2.msi' saved [42635264/42635264]

FINISHED --2025-01-05 09:40:41--
Total wall clock time: 0.5s
Downloaded: 1 files, 41M in 0.4s (101 MB/s)
[root@ip-172-31-23-111 ~]#
```

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]
(c) Microsoft Corporation. All rights reserved.

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 ~]#
```