

## **Placement Empowerment Program**

### ***Cloud Computing and DevOps Centre***

**Use Cloud CLI Tools Install the CLI for your cloud provider (e.g., AWS CLI). Use it to list resources, upload files to storage, and manage VMs.**

Name: Priyadharshini S

Department : ADS

# Introduction and Overview

Cloud Command Line Interface (CLI) tools provide a powerful way to interact with cloud platforms such as AWS, Azure, and Google Cloud. These tools allow users to manage resources, automate tasks, and execute cloud operations efficiently without needing a graphical interface.

## Objective

The goal of using Cloud CLI tools is to simplify cloud resource management by executing commands for tasks such as listing resources, uploading files, and managing virtual machines (VMs).

## Importance

- ❑ Efficiency: Faster execution compared to GUI-based operations.
- ❑ Automation: Enables scripting and automation of repetitive cloud tasks.
- ❑ Flexibility: Allows remote cloud management from any terminal.
- ❑ Cost-Effective: Reduces operational overhead by enabling quick and precise resource control.

## Step-by-Step Overview

### STEP 1: Install the AWS CLI:

o For Windows:

- Download the installer from the AWS CLI official page.

# Run the installer and follow the on-screen instructions.

The screenshot shows the AWS CLI installation guide on the AWS website. The browser address bar shows the URL: docs.aws.amazon.com/cli/latest/userguide/getting-started-install.html. The page title is "AWS Command Line Interface" and the subtitle is "User Guide for Version 2". The left sidebar contains a navigation menu with the following items: "About the AWS CLI", "Get started" (selected), "Prerequisites", "Install/Update" (highlighted), "Past releases", "Build and install from source", "Amazon ECR Public/Docker", "Setup", "Configure the AWS CLI", "Authentication and access credentials", "Using the AWS CLI", "Code examples", "Security", "Troubleshoot errors", "Migration guide", "Uninstall", and "Document History". The main content area is titled "Install or update the AWS CLI" and contains the following text: "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](#)." Below this text is a numbered list: "1. Download and run the AWS CLI MSI installer for Windows (64-bit): <https://awscli.amazonaws.com/AWSCLIV2.msi>". An alternative command is provided: "Alternatively, you can run the `msiexec` command to run the MSI installer." A code block shows the command: `C:\> msiexec.exe /i https://awscli.amazonaws.com/AWSCLIV2.msi`. Below this is a note: "For various parameters that can be used with `msiexec`, see [msiexec](#) on the [Microsoft Docs](#) website. For example, you can use the `/qn` flag for a silent installation." Another code block shows the command: `C:\> msiexec.exe /i https://awscli.amazonaws.com/AWSCLIV2.msi /qn`. A second numbered list item follows: "2. To confirm the installation, open the **Start** menu, search for `cmd` to open a command prompt window, and at the command prompt use the `aws --version` command." A final code block shows the command: `C:\> aws --version` and the output: `aws-cli/2.19.1 Python/3.11.6 Windows/10 exe/AMD64 prompt/off`. On the right side of the page, there is a "Recently added to this guide" section with a link to "AWS CLI install and update instructions". At the bottom right, there is a blue box with the text "Introducing Amazon Q" and a sub-header "Receive guidance, get troubleshooting tips, and learn about AWS services and capabilities." A download notification for "AWSCLIV2 (1).msi" (40.7 MB - Done) is visible in the top right corner of the browser window.

## STEP 2:

### Verify the Installation:

`aws --version`

Output should display the AWS CLI version installed.

```
Command Prompt
Microsoft Windows [Version 10.0.22631.4602]
(c) Microsoft Corporation. All rights reserved.

C:\Users\mathimalar>aws -version

usage: aws [options] <command> <subcommand> [<subcommand> ...] [parameters]
To see help text, you can run:

    aws help
    aws <command> help
    aws <command> <subcommand> help

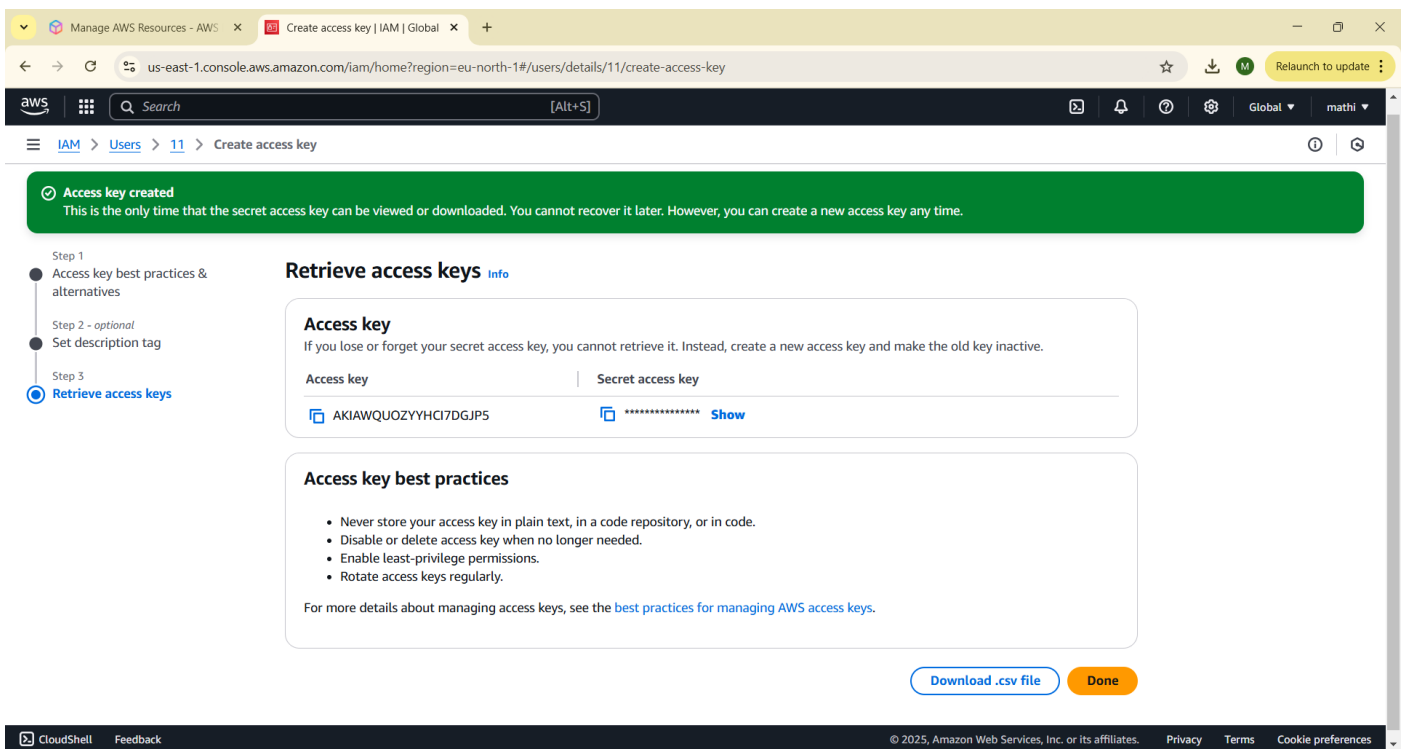
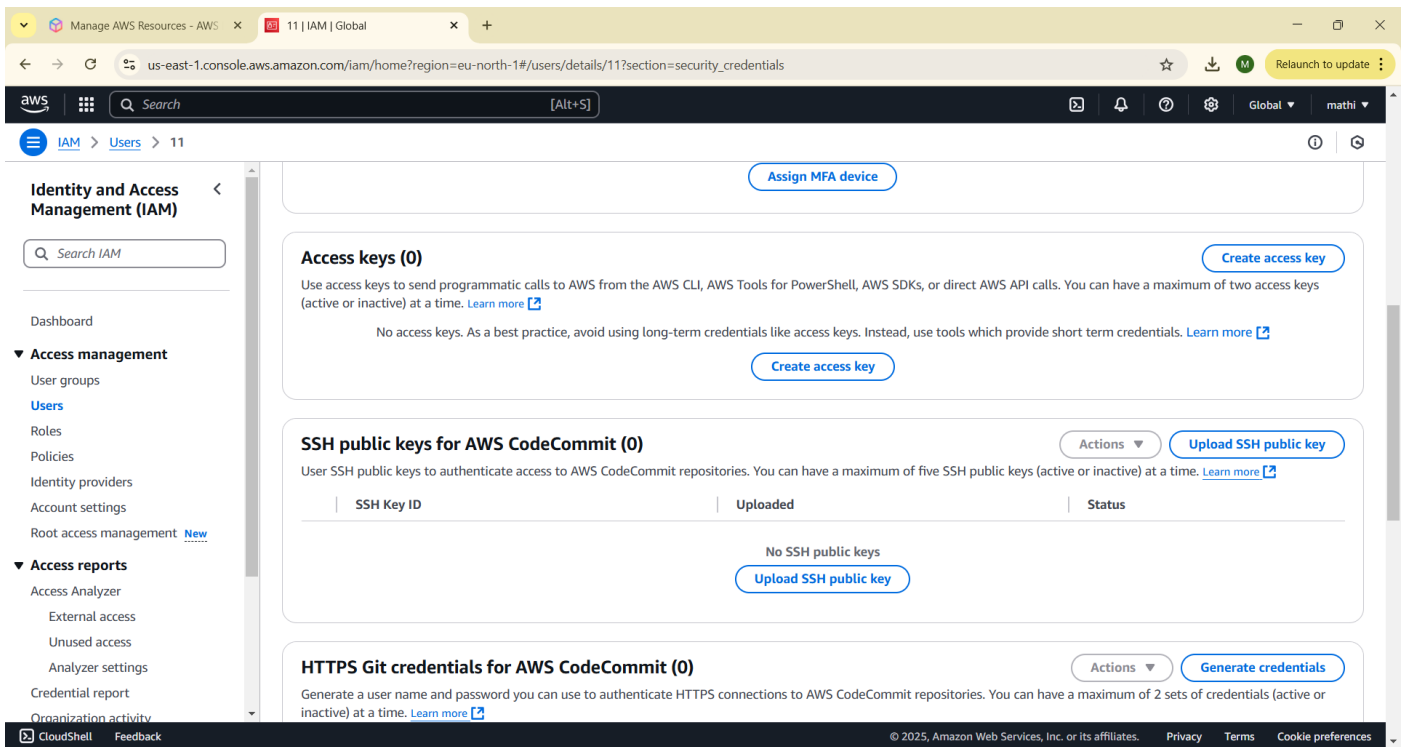
aws: error: argument command: Invalid choice, valid choices are:

accessanalyzer          | account
acm                     | acm-pca
amp                     | amplify
amplifybackend          | amplifyuibuilder
apigateway              | apigatewaymanagementapi
apigatewayv2            | appconfig
appconfigdata           | appfabric
appflow                 | appintegrations
application-autoscaling | application-insights
application-signals     | applicationcostprofiler
appmesh                 | apprunner
appstream               | appsync
apptest                 | arc-zonal-shift
artifact                | athena
auditmanager            | autoscaling
autoscaling-plans       | b2bi
```

## STEP 3:

Create an Access Key for AWS CLI:

- Sign in to the AWS Management Console.
- Go to the Security credentials tab.
- Under Access keys, click Create access key.
- Select Command Line Interface as Use case
  - Download the .csv file containing your Access Key ID and Secret Access Key



## STEP 4:

### Configure the AWS CLI:

aws configure

Provide the following details when prompted:

- o AWS Access Key ID
- o AWS Secret Access Key
- o Default region name (e.g., us-east-1)
- o Default output format (e.g., json)

```
C:\Users\mathimalar>aws configure
AWS Access Key ID [None]: AKIAWQUOZYHHC17DGJP5
AWS Secret Access Key [None]: fUsvjtG1IHSj9mQhAS/YH1NKeWCWBGhPw0vbUQQo
Default region name [None]: us-east-1
Default output format [None]: json
```

## STEP 5:

List AWS Resources:

- o List all S3 buckets:

aws s3 ls

```
C:\Users\mathimalar>aws s3 ls
```

## Outcome

By mastering Cloud CLI tools, users can efficiently interact with their cloud infrastructure, automate workflows, and enhance productivity in cloud-based projects.

