

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.

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Introduction and Overview

Using CLI tools for cloud providers like AWS, Azure, or Google Cloud can greatly simplify managing your cloud resources. These tools allow you to interact with your cloud infrastructure directly from your terminal or command prompt, enabling you to automate and streamline many tasks.

Objective

Cloud CLI tools are designed to help you interact with and manage your cloud resources efficiently from your command line. They offer a wide range of functionalities, such as listing resources, uploading files to storage, and managing virtual machines.

Importance

Efficiency: Automate repetitive tasks and save time.

Flexibility: Manage resources from any machine with CLI access.

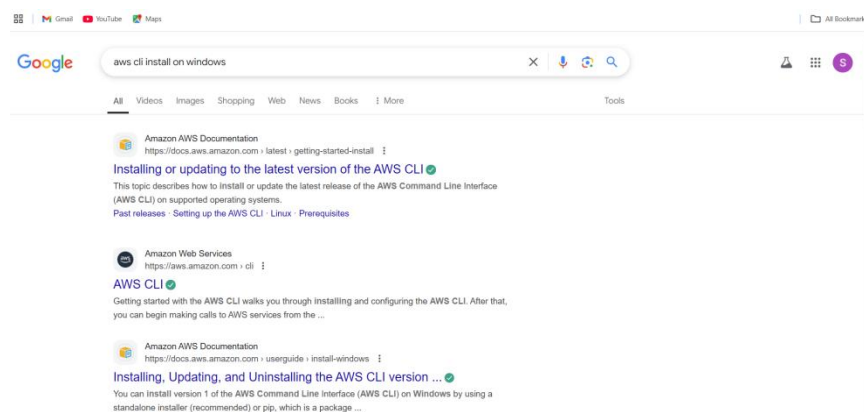
Scalability: Easily script and scale operations to handle large cloud infrastructures.

Control: Fine-grained control over your cloud resources without needing navigate through graphical interfaces.

Step-by-Step Overview

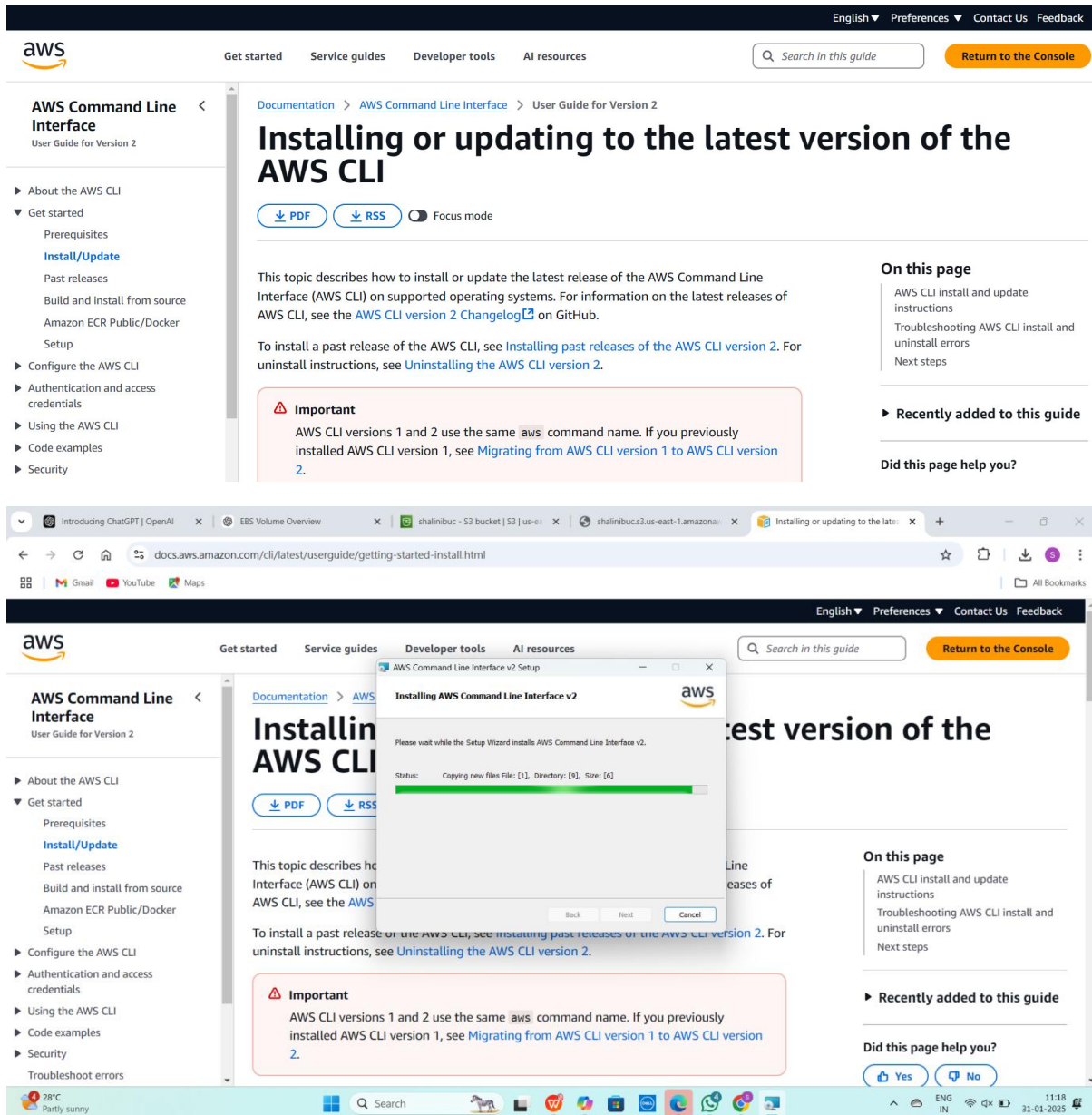
Step1:

Search for "AWS CLI Installer for Windows"



Step 2 :

Click on the "Install/Update" option located on the left-hand side of the Apache Lounge website.



Step 3 :

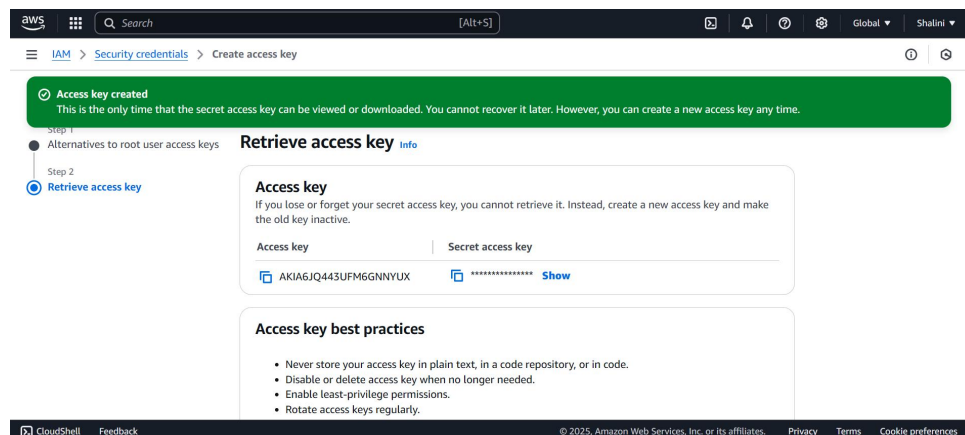
Verify the installation by opening Command Prompt (cmd) or PowerShell and running **aws --version**

```
C:\Users\shalni>aws --version
aws-cli/2.23.10 Python/3.12.6 Windows/11 exe/AMD64
```

Step 4 :

Open Command Prompt and type **aws configure**

```
C:\Users\shalni>aws configure
AWS Access Key ID [*****DS4R]: AKIA6JQ443UFM6GNNYUX
AWS Secret Access Key [*****zlgq]: 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
Default region name [us-east-1]: us-east-1
Default output format [None]:
```



Step 5 :

To see all storage buckets, Type **aws s3 ls** in cmd

To check running EC2 instances **aws ec2 describe-instances** in cmd

```
C:\Users\shalni>aws s3 ls
2025-01-31 10:48:05 shalinibuc
```

```
C:\Users\shalni>aws ec2 describe-instances
{
  "Reservations": [
    {
      "ReservationId": "r-0caa1b7ae34113ded",
      "OwnerId": "982534380810",
      "Groups": [],
      "Instances": [
        {
          "Architecture": "x86_64",
          "BlockDeviceMappings": [
            {
              "DeviceName": "/dev/xvda",
              "Ebs": {
                "AttachTime": "2024-12-22T16:02:46+00:00",
                "DeleteOnTermination": true,
                "Status": "attached",
                "VolumeId": "vol-01156e5bc517543a1"
              }
            }
          ],
          "ClientToken": "a2d37596-b387-49e7-83e3-e8e1e85b0501",
          "EbsOptimized": false,
          "EnaSupport": true,
          "Hypervisor": "xen",
          "NetworkInterfaces": [
            {
              "Association": {
```

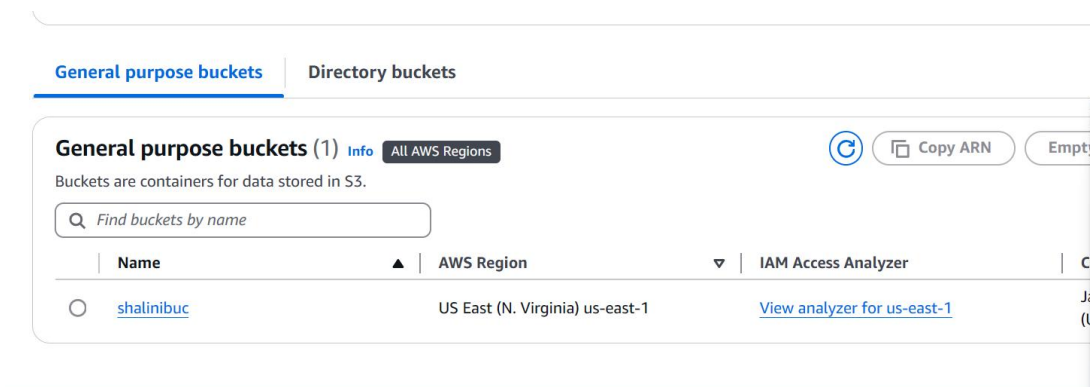
Step 6 :

Create an S3 Bucket

```
PS C:\Users\shalni> aws s3 mb s3://shalinibuc
make_bucket: shalinibuc
PS C:\Users\shalni> |
```

Upload a file to S3 Bucket by typing **aws s3 cp yourfile.txt s3://your-unique-bucket-name/** in cmd

```
PS C:\Users\shalni> aws s3 cp "C:\Users\shalni\Downloads\flower.jpg" s3://shalinibuc
upload: Downloads\flower.jpg to s3://shalinibuc/flower.jpg
PS C:\Users\shalni> |
```



Objects (1)



Copy S3 URI

Copy URL

Download

Open

Delete

Actions

Create folder

Upload

Objects are the fundamental entities stored in Amazon S3. You can use [Amazon S3 inventory](#) to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. [Learn more](#)

Find objects by prefix

<input type="checkbox"/>	Name	Type	Last modified	Size	Storage class
<input type="checkbox"/>	flower.jpg	jpg	February 1, 2025, 22:39:02 (UTC+05:30)	6.8 KB	Standard

Step 7 :

To Start an EC2 Instance, Type **aws ec2 start-instances --instance-ids <INSTANCE_ID>** in cmd

```
PS C:\Users\shalni> aws ec2 start-instances --instance-ids i-060bf3da9045b5190
{
  "StartingInstances": [
    {
      "InstanceId": "i-060bf3da9045b5190",
      "CurrentState": {
        "Code": 16,
        "Name": "running"
      },
      "PreviousState": {
        "Code": 16,
        "Name": "running"
      }
    }
  ]
}
```

Instances (2) [info](#) Last updated less than a minute ago [Connect](#) [Instance state](#) [Actions](#) [Launch instances](#)

Find Instance by attribute or tag (case-sensitive) All states

<input type="checkbox"/>	Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Av
<input type="checkbox"/>	demo	i-060bf3da9045b5190	Running	t2.micro	2/2 checks passed	View alarms	us
<input type="checkbox"/>	instance1	i-0c3ee5bd462752f42	Running	t2.micro	2/2 checks passed	View alarms	us

Select an instance

Expected Outcome

1. Effortless Installation & Configuration:

Achieve seamless interaction with AWS services by installing and configuring AWS CLI with the correct credentials.

2. Efficient Cloud Resource Listing:

Easily list AWS resources like S3 buckets, EC2 instances, and IAM users with simple CLI commands.

3. Mastery of S3 File Management:

Gain practical experience uploading, downloading, and managing files in Amazon S3 using the CLI.

4. Command Over EC2 Instances:

Master control over EC2 instances, learning to start, stop, and reboot them right from the command line, enhancing your cloud management expertise.

5. Enhanced Automation Skills:

Develop essential automation capabilities for DevOps and cloud computing by using CLI over the AWS Console, streamlining processes and increasing efficiency.