St. JOSEPH'S GROUP OF INSTITUTIONS
OMR, CHENNAI - 119

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

Cloud CLI tools, such as AWS CLI, allow users to interact with cloud services directly from the terminal, enabling automation and efficient resource management. This task involves installing the AWS CLI, configuring it with AWS credentials, and using it to perform basic operations like listing resources, uploading files to S3, and managing EC2 instances. CLI tools offer a faster and scriptable alternative to the AWS Management Console, improving productivity. By completing this task, you 'll gain hands-on experience in cloud automation and resource control using command-line commands.

Objective

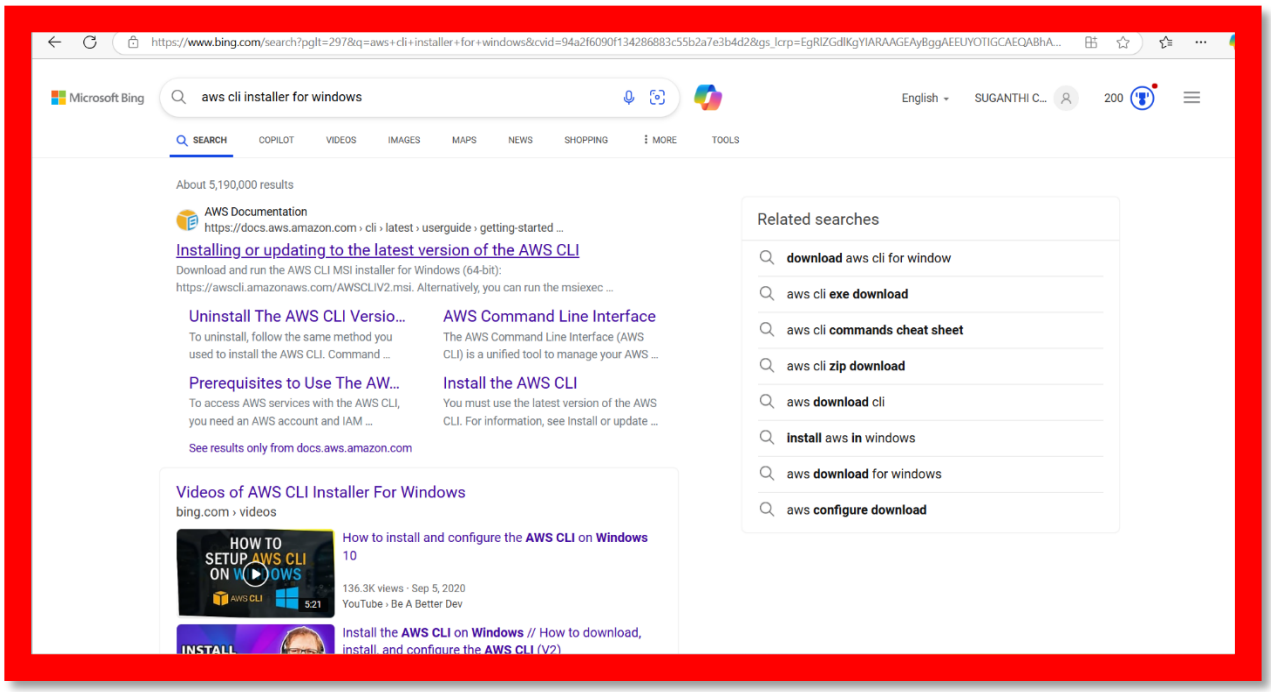
The goal of this project is to:

- Learn Cloud CLI Basics – Install and configure AWS CLI to interact with cloud resources using command-line commands.
- Manage Cloud Resources – Use AWS CLI to list cloud resources, upload files to S3, and manage EC2 instances efficiently.
- Enhance Automation Skills – Gain hands-on experience in automating cloud tasks, improving efficiency over manual AWS Management Console operations.

Step-by-Step Overview

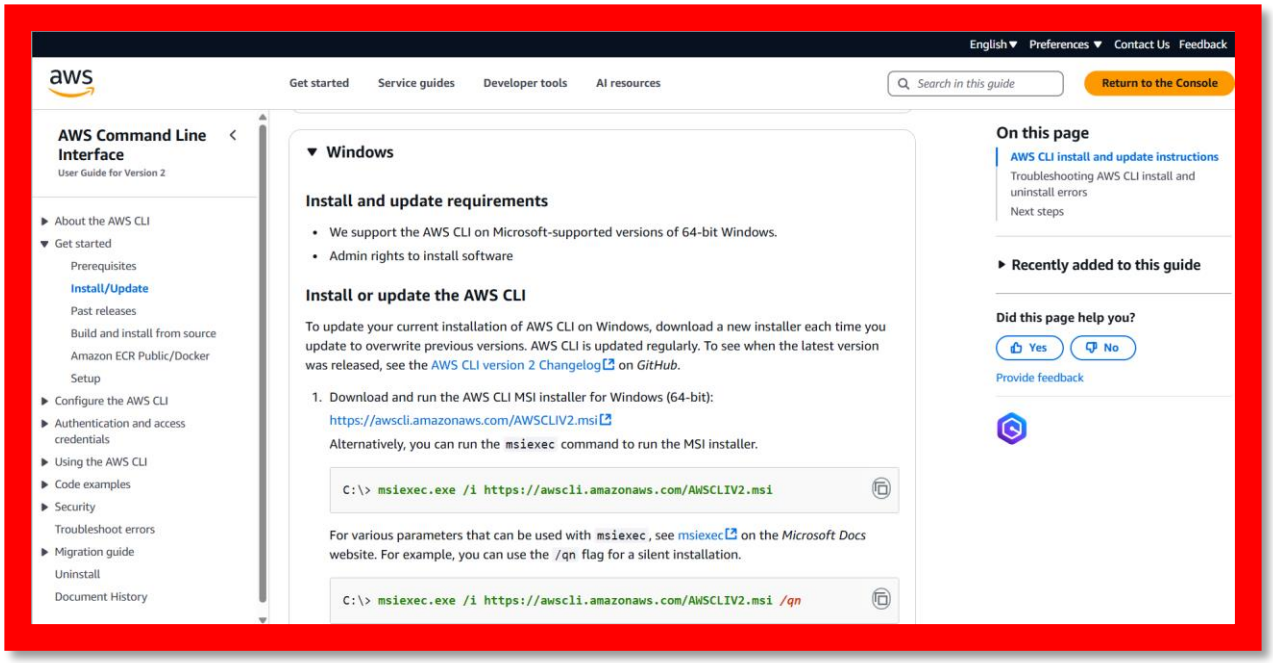
Step1:

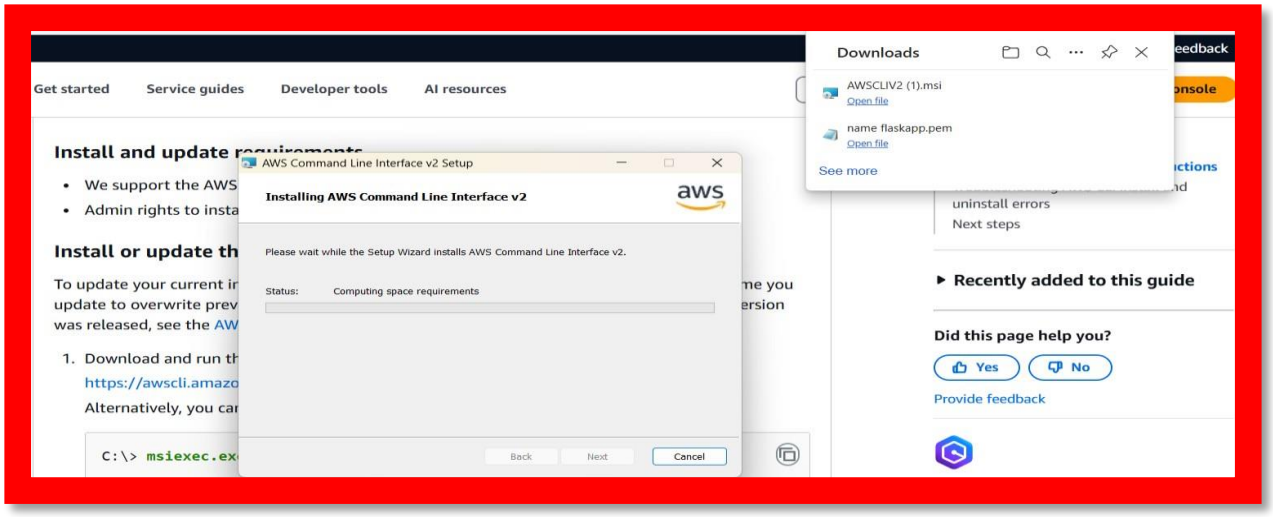
- Search for "AWS CLI Installer for Windows" on Google and click the first link to access the official website.



Step 2:

- Click on the "Install/Update" option located on the left-hand side of the Apache Lounge website. Select the link regarding your OS, Install by using the link provided else use the *msiexec* command





Step 3:

- Once installed, verify the installation by opening Command Prompt (cmd) or PowerShell and running aws --version It should return something like aws-cli/2.x.x Python/3.x.x Windows/x86_64

Step 4:

- Before using AWS CLI, you need to configure it with your AWS credentials.
- Open Command Prompt and type aws configure

It will ask for:

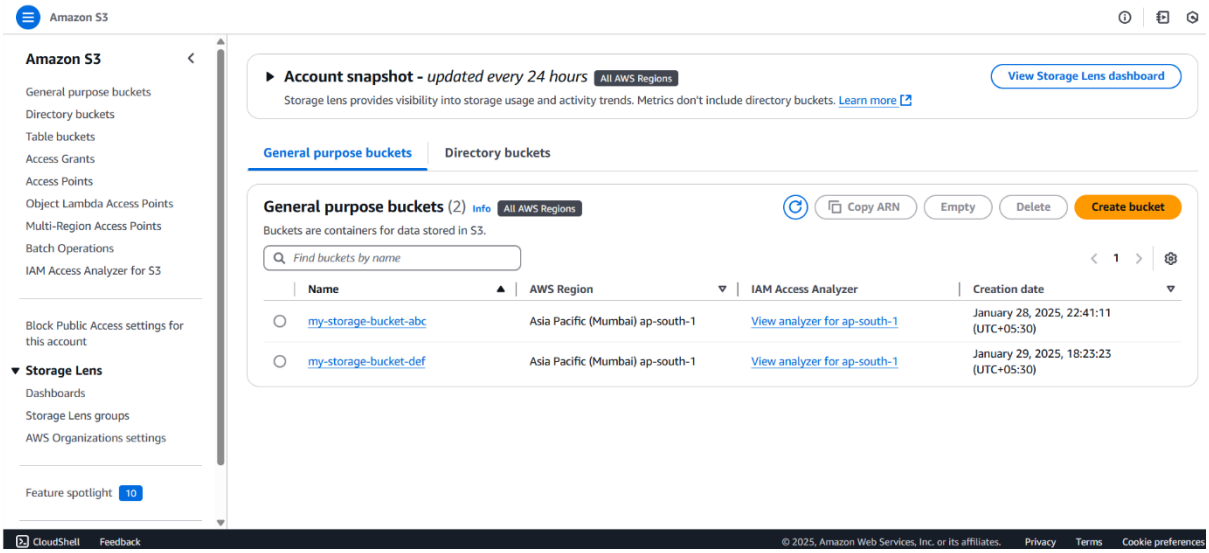
- AWS Access Key ID → Get it from AWS IAM > Security Credentials
- AWS Secret Access Key → Get it from AWS IAM > Security Credentials Default region name → Example: us-east-1 (Find yours in AWS Console)
- Default output format → Keep it as json or press Enter for default

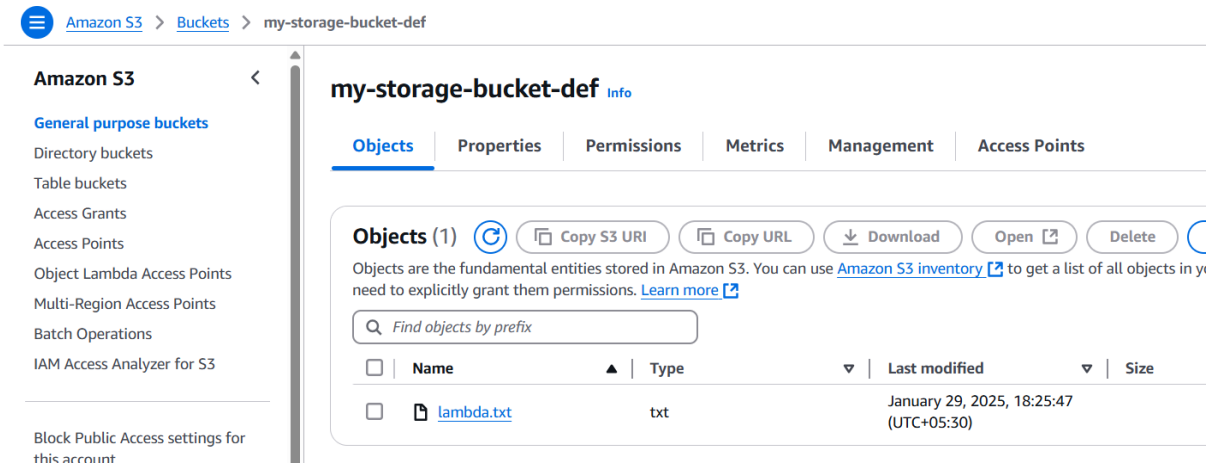
Step 5:

- To see all storage buckets, Type aws s3 ls in cmd
- To check running EC2 instances aws ec2 describe-instances in cmd

Step 6:

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





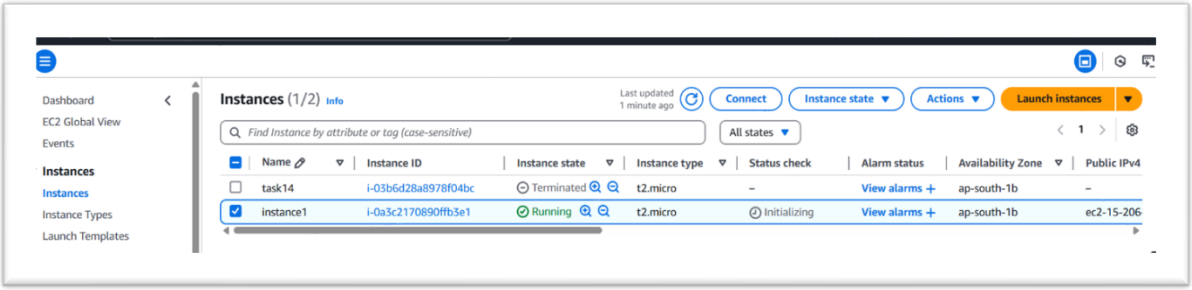
Step 7:

To Start an EC2 Instance, Type aws ec2 start-instances --instance-ids

<INSTANCE_ID> in cmd

Replace <INSTANCE_ID> with your actual instance ID

```
{
    "StartingInstances": [
        {
            "InstanceId": "i-0a3c2170890ffb3e1",
            "CurrentState": {
                "Code": 0,
                "Name": "pending"
            },
            "PreviousState": {
                "Code": 80,
                "Name": "stopped"
            }
        }
    ]
}
```

THANK YOU!