



AWS CLI

❖ AWS COMMAND LINE INTERFACE (CLI):

- **AWS CLI** is a unified tool to manage your AWS services. With just one tool to download and configure, you can control multiple AWS services from the command line and automate them through scripts.
- AWS CLI facilitates efficient management of AWS resources and automation of tasks.

Individual Interface: It provides a consistent command structure for managing various AWS services.

Configuration: AWS users have to configure the CLI with their AWS credentials and default region, enabling secure access to their AWS account.

Command Execution: It allows the execution of commands for a wide range of operations, such as launching instances, managing storage, and monitoring resources.

Scripting and Automation: It supports scripting for automating repetitive tasks and integrating with other tools and services.

Output Formatting: Offers multiple output formats (JSON, text, table) for easy parsing and readability.

PIP INSTALLS PYTHON (PIP)

- It is recommended method of installing AWS CLI on Linux Which is python-based tool helps in install, upgrade, and remove python packages.

REQUIREMENTS:

- Python, awscli tool
- Windows, Linux/Unix, macOS

➤ INSTALLING AWS CLI ON WINDOWS:

Download and run the AWS CLI MSI installer for Windows (64-bit):
<https://awscli.amazonaws.com/AWSCLIV2.msi>

To confirm the installation, Open cmd prompt or Powershell:
C:\> **aws --version**

CONFIGURATION OF AWS CLI:

Download User Keys:

- Before the AWS CLI can be configured for use, you need to create a user with the required permissions and download his access keys (**AWS access key id** and **AWS secret access key**) for use in the AWS CLI.
- The formatting style for command output.
 - json
 - text
 - table

```
C:\>aws configure
      Access_Key_Id: xxxxxxxxxxxx
      Secret_Key_Id: xxxxxxxxxxxx
      Region_name:    xxxxxxxxxxxx
      Output Format:  xxxxxxxxxxxx
```

```
C:\>cd ~/.aws
C:\>ls
```

➤ COMMAND SYNTAX HELP:

SYNTAX: aws [options] <command> <subcommand> [parameters]

Aws help

Aws ec2 help

aws ec2 create-key-pair help

→ **To describe all of your enabled Regions:**

aws ec2 describe-regions

→ **To describe all of your enabled Regions:**

aws ec2 describe-regions --output=text

aws ec2 describe-regions --output=table

→ **To List Instances:**

aws ec2 describe-instances

→ **Launch your instance:**

```
aws ec2 run-instances --image-id ami-xxxxxxx --count 1 --instance-type t2.micro --key-name MyKeyPair --security-group-ids sg-903004f8 --subnet-id subnet-6e7f829e
```

→ **List your instances:**

```
aws ec2 describe-instances
```

→ **To Stop Instances:**

```
aws ec2 stop-instances --instance-ids i-1348636c
```

→ **To Start Instances:**

```
aws ec2 start-instances --instance-ids i-1348636c
```

→ **Terminate your instance:**

```
aws ec2 terminate-instances --instance-ids i-5203422c
```

→ **To list S3 buckets:**

```
aws s3 ls
```

→ **To create a S3 bucket:**

```
aws s3 mb s3://cloud-data-aws
```

→ **To delete a bucket:**

```
aws s3 rb s3://cloud-data-aws
```

➤ **INSTALLING AWS CLI ON LINUX:**

To install the AWS CLI, run the following commands:

```
$curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"
```

```
$unzip awscliv2.zip
```

```
$sudo ./aws/install
```

Run aws configuration: \$aws configure