1. AWS CLI Configuration

- Command:
 - AWS Access Key ID → Example: AKIAIOSFODNN7EXAMPLE
 - AWS Secret Access Key → Example: wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY
 - **Default region name** → Example: us-east-1 or ap-south-1
 - Default output format → Example: json (or text, yaml)

Result:

This stores your credentials in:

- ~/.aws/credentials
- ~/.aws/config

2. S3 (Simple Storage Service)

Create a Bucket

aws s3 mb s3://your-bucket-name

List Buckets

aws s3 ls

Upload a File

aws s3 cp myfile.txt s3://your-bucket-name/

Download a File

aws s3 cp s3://your-bucket-name/myfile.txt.

Sync Folder to S3

aws s3 sync ./local-folder s3://your-bucket-name/

Delete a File from S3

aws s3 rm s3://your-bucket-name/myfile.txt

Delete Bucket with Force

aws s3 rb s3://your-bucket-name --force

3. EC2 (Elastic Compute Cloud)

Find Amazon Linux 2 AMI ID

aws ec2 describe-images --owners amazon --filters "Name=name,Values=amzn2-ami-hvm-*-x86_64-gp2"

Launch an EC2 Instance

aws ec2 run-instances --image-id ami-0abcdef1234567890 --instance-type t2.micro --key-name MyKeyPair --security-group-ids sg-0123456789abcdef0 --subnet-id subnet-0123456789abcdef0 --count 1

Describe All EC2 Instances

aws ec2 describe-instances

Start an Instance

aws ec2 start-instances --instance-ids i-1234567890abcdef0 aws ec2 stop-instances --instance-ids i-1234567890abcdef0

Terminate an Instance

aws ec2 terminate-instances --instance-ids i-1234567890abcdef0

4. Security Groups

Create a Security Group

aws ec2 create-security-group --group-name MySecurityGroup --description "My security group"

Describe Security Groups

aws ec2 describe-security-groups

Add Ingress Rule for SSH

aws ec2 authorize-security-group-ingress --group-id sg-0123456789abcdef0 --protocol tcp --port 22 -- cidr 0.0.0.0/0

Add Ingress Rule for HTTP

aws ec2 authorize-security-group-ingress --group-id sg-0123456789abcdef0 --protocol tcp --port 80 -- cidr 0.0.0.0/0

5. Key Pairs

Create a Key Pair

aws ec2 create-key-pair --key-name MyKeyPair --query 'KeyMaterial' --output text > MyKeyPair.pem

Describe Existing Key Pairs

aws ec2 describe-key-pairs

✓ 6. Cleanup Commands

Terminate an EC2 Instance

aws ec2 terminate-instances --instance-ids i-1234567890abcdef0

Delete a Security Group

aws ec2 delete-security-group --group-id sg-0123456789abcdef0

Delete a Key Pair

aws ec2 delete-key-pair --key-name MyKeyPair

7. Bonus Queries & Output Customization

aws sts get-caller-identity

Show Instances with Output Format

aws ec2 describe-instances -- output json

Get Only Instance IDs

aws ec2 describe-instances --query "Reservations[*].Instances[*].InstanceId" --output text