**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

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