



Core Commands & Configuration

Basic AWS CLI Usage

<code>aws <command> <subcommand> [options] [parameters]</code> - General command structure.
Example: <code>aws s3 ls s3://mybucket</code>
<code>aws --version</code> - Check AWS CLI version.
<code>aws help</code> - Get help on AWS CLI usage.
<code>aws <command> help</code> - Get help on specific command.
<code>aws configure</code> - Configure AWS credentials, region, and output format.
Example: <code>aws configure</code> AWS Access Key ID [None]: AKIAIOSFODNN7EXAMPLE AWS Secret Access Key [None]: wJalrXUtnFEMI/K7MDENG/bPxRfiCYEXAMPLEKEY Default region name [None]: us-west-2 Default output format [None]: json
<code>aws configure list</code> - List current AWS CLI configuration.
<code>aws configure get region</code> - Get the configured region.

Configuration Profiles

Creating profiles	<code>aws configure --profile project1</code> <code>aws configure --profile project2</code>
Using profiles	<code>aws s3 ls s3://mybucket --profile project1</code>
Setting environment variables	<code>export AWS_PROFILE=project1</code>

Output Options

<code>--output</code> <value>	Specify the output format: <code>json</code> , <code>text</code> , <code>table</code>
Example: <code>aws ec2 describe-instances --output table</code>	
<code>--query</code> <expression>	Filter output using JMESPath expressions.
Example: <code>aws ec2 describe-instances --query 'Reservations[*].Instances[*].InstanceId'</code>	

EC2 Management

Instance Operations

<code>aws ec2 describe-instances</code> - Describe EC2 instances.
<code>aws ec2 describe-instances --instance-ids i-1234567890abcdef0</code> - Describe specific instance.
<code>aws ec2 start-instances --instance-ids i-1234567890abcdef0</code> - Start EC2 instance.
<code>aws ec2 stop-instances --instance-ids i-1234567890abcdef0</code> - Stop EC2 instance.
<code>aws ec2 terminate-instances --instance-ids i-1234567890abcdef0</code> - Terminate EC2 instance.
<code>aws ec2 reboot-instances --instance-ids i-1234567890abcdef0</code> - Reboot EC2 instance.

Security Groups

<code>aws ec2 describe-security-groups</code>	Describe security groups.
<code>aws ec2 create-security-group</code>	Create a new security group.
<code>aws ec2 authorize-security-group-ingress</code>	Add ingress rule to a security group.
<code>aws ec2 revoke-security-group-ingress</code>	Remove ingress rule from a security group.

Key Pairs

<code>aws ec2 describe-key-pairs</code>	Describe key pairs.
<code>aws ec2 create-key-pair --key-name MyKeyPair</code>	Create a new key pair.
<code>aws ec2 delete-key-pair --key-name MyKeyPair</code>	Delete a key pair.

S3 Bucket Management

Basic S3 Operations

<code>aws s3 ls s3://mybucket</code> - List objects in S3 bucket.
<code>aws s3 cp myfile.txt s3://mybucket/</code> - Copy file to S3 bucket.
<code>aws s3 cp s3://mybucket/myfile.txt .</code> - Copy file from S3 bucket to current directory.
<code>aws s3 mv s3://mybucket/oldfile.txt s3://mybucket/newfile.txt</code> - Move object in S3 bucket.
<code>aws s3 rm s3://mybucket/myfile.txt</code> - Remove object from S3 bucket.

Recursive Operations & Sync

Recursive remove	<code>aws s3 rm s3://mybucket/folder --recursive</code>
Recursive copy	<code>aws s3 cp myfolder s3://mybucket/folder --recursive</code>
Sync local folder with S3 bucket	<code>aws s3 sync myfolder s3://mybucket/folder</code> <code>aws s3 sync myfolder s3://mybucket/folder --exclude *.tmp</code>

Bucket Management

<code>aws s3api create-bucket --bucket mybucket --region us-west-2</code>	Create a new S3 bucket.
<code>aws s3api delete-bucket --bucket mybucket --region us-west-2</code>	Delete an empty S3 bucket.
<code>aws s3api put-bucket-acl --bucket mybucket --acl public-read</code>	Set bucket ACL.

ECS & Elastic Beanstalk

ECS Cluster Management

<code>aws ecs create-cluster --cluster-name mycluster</code> - Create ECS cluster.
<code>aws ecs describe-clusters --clusters mycluster</code> - Describe ECS clusters.
<code>aws ecs delete-cluster --cluster mycluster</code> - Delete ECS cluster.

ECS Service Management

<code>aws ecs create-service</code>	Create ECS service. Requires cluster, task definition, etc.
<code>aws ecs update-service</code>	Update ECS service.
<code>aws ecs delete-service</code>	Delete ECS service.

Elastic Beanstalk Configuration

Configuration files:

`.elasticbeanstalk/config.yml` - Application config.

`.elasticbeanstalk/dev-env.env.yml` - Environment config.

`eb config` - Open environment configuration in editor.

ebextensions:

Customize containers.

<https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/customize-containers.html>

<https://docs.aws.amazon.com/elasticbeanstalk/latest/dg/customize-containers-ec2.html>