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=====
AWS CLI
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=> AWS provides multiple ways to configure and manage infrastructure

=> We can manage infrastructure in aws cloud with below approaches

- 1) Web Console
- 2) AWS CLI
- 3) Terraform

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=====
Using the AWS web console
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=> It is a graphical user interface to connect with various AWS resources, their configuration, modification, etc.

=> It is very simple to use and does not require knowledge of scripting.

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=====
AWS Command Line Interface
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=> Using AWS CLI we can manage infrastructure in AWS cloud using commands

Ex:

```
$ aws s3 ls
```

```
$ aws ec2 describe-instances
```

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=====
Configuring AWS CLI
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```

- 1) Login into AWS account & generate access keys

```
Access Key : AKIA2RP6H2FDCHYERR
Secret Access key : oLnT0tmBi1szsu4SU16d1nslc2o1p3qxKJ
```

- 2) Download and Install AWS CLI s/w

For windows : <https://awscli.amazonaws.com/AWSCLIV2.msi>

- 3) Open command prompt and configure AWS CLI

```
$ aws --version
```

```
$ aws configure
```

Note: AWS configure command will ask for access key, secret access key, region and output format.

##### CLI Documentation : <https://docs.aws.amazon.com/cli/latest/reference/> #####

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=====
Working with AWS S3 Service using AWS CLI
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```
# list down all buckets available
$ aws s3 ls

# list down all objects of bucket
$ aws s3 ls s3://mybucket --recursive

# create bucket in s3
$ aws s3 mb s3://ashokit097978

# copy file into bucket
$ aws s3 cp test.txt s3://ashokit097978/test.txt

# remove file from bucket
$ aws s3 rm s3://ashokit097978/test.txt

# remove bucket
$ aws s3 rb s3://ashokit097978
```

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=====
Working with EC2 AWS CLI
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```
# list down all ec2 instances available
$ aws ec2 describe-instances

# create key-pair in ec2
$ aws ec2 create-key-pair --key-name test --output text > test.pem

# Launch EC2 instance
$ aws ec2 run-instances --image-id ami-0d682f26195e9ec0f --instance-type t2.micro --key-name test

Instance ID : i-03cec5835807f5d8a

# stop ec2 instance
$ aws ec2 stop-instances --instance-ids i-03cec5835807f5d8a

# start ec2 instance
$ aws ec2 start-instances --instance-ids i-03cec5835807f5d8a

# terminate ec2 instance
$ aws ec2 terminate-instances --instance-ids i-03cec5835807f5d8a
```

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=====
Installing AWS CLI in Ubuntu Linux VM
=====
```

```
$ sudo apt-get install -y python-dev python-pip
$ sudo pip install awscli
$ aws --version
$ aws configure
```

```
=====
Installing AWS CLI in Amazon Linux VM
=====
```

```
curl "https://awscli.amazonaws.com/awscli-exe-linux-x86_64.zip" -o "awscliv2.zip"
unzip awscliv2.zip
sudo ./aws/install
```