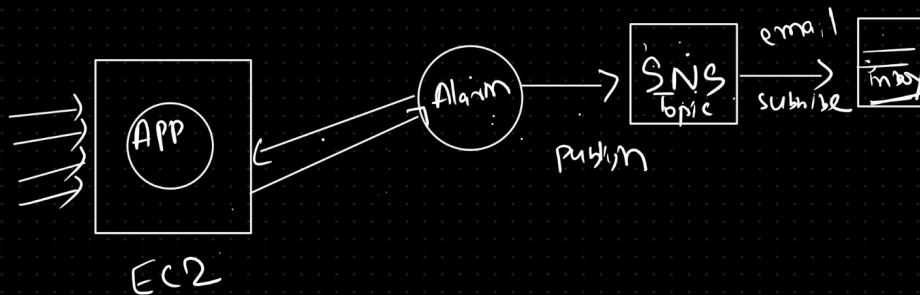


=> { Cloud Watch & SNS }
 { AWS CLI }

=> NPC }

Cloud Watch and SNS

=====



Amazon CloudWatch is a component of AWS that provides monitoring for AWS Resources and the Customer apps running on the AWS infrastructure

It enables real time monitoring of AWS Resources EC2 instances, Loadbalancers Amazon RDS, EBS.....

The app automatically collects and provides metrics for latency, request counts, CPU utilization.....

Lab/Practical Task on Cloud Watch and SNS

=====

Create SNS Topic with Email Notification(Standard Create)

Configure Email Subscription in SNS Topic (We have confirm subscription received in email)

To demonstrate we have taken EC2 resource so create EC2 VM after which

Select EC2 Instance --> Action --> Monitor and trouble shoot --> Manage Cloud Watch Alarms --> Create Cloud watch alarm

Alarm Notification : Select SNS Topic which we have created

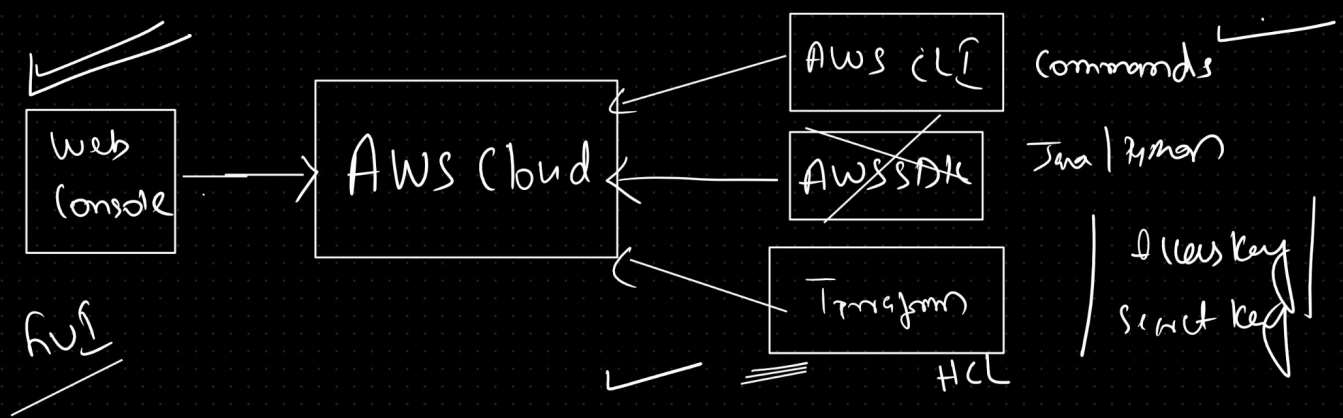
Alarm Threshold : AVG CPU >=2

To connect to VM and increase the stress to utilise cpu

Observe the behaviour of Cloud Watch /SNS (We should be getting Email notification)

When Alarm is triggered its status will change to 'In Alarm'

If you want to monitor Alarm History CloudWatch--> select Alarm --> Click Alarm-->Click on History)



AWS CLI :Command Line Interface

Ways for Infrastructure Configuration

--> AWS Management Web Console

---> AWS CLI (Command Line Interface)

AWS CLI--> Usually the script provides you with flexibility to manage AWS Resources and infrastructure .

Install AWS CLI on Windows

Download and run the AWS CLI MSI installer for Windows (64-bit):

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

Configuring AWS CLI

Create an AWS in order to configure AWS CLI(Use existing if you already have one)

Create IAM user with security Credentials (Access key and Secret key)

```
najaf@Telusko MINGW64 ~
$ aws --version
aws-cli/2.25.1 Python/3.12.9 Windows/11 exe/AMD64
```

```
najaf@Telusko MINGW64 ~
$ aws configure
AWS Access Key ID [None]: AKIASDRANAWRGQ
AWS Secret Access Key [None]: Odmh8C8wWZcw4zdCqdI/c/
Default region name [None]: ap-south-1
Default output format [None]: table
```

CLI Documentation : <https://awscli.amazonaws.com/v2/documentation/api/latest/index.html>

For every action we need to use commands and which command to run the details are available in Aws documentation (Link given above)

For example :

To Display bucket list)

```
$ aws s3 ls
```

Create a new Bucket

```
$ aws s3 mb s3://telusko123
```

To Delete empty bucket

```
$ aws s3 rb s3://telusko123
```