

=====

Cloud Watch

=====

=> It is used for monitoring aws resources.

=> It collects and tracks metrics, monitors log files, sets alarms, and automates responses based on predefined rules.

=====

Usecase

=====

=> Create EC2 instance in aws cloud

=> Monitor that EC2 Instance 24/7

=> If EC2 instance CPU utilization is above 50 % then trigger Cloud watch alarm.

=> When alarm got triggered send email notification to management team.

=====

How to send Email notification in AWS

=====

=> In AWS we have SNS to send notifications

SNS : Simple Notification Service

=> SNS works based on Pub and Sub Model

pub : publisher

sub : subscriber

=====

Cloud Watch & SNS - Lab Task

=====

1) Create SNS Topic with Standard Create option

Topic Name : ashokit

2) Create Email Subscription in SNS Topic (Confirm Subscription recieved in email)

3) Create EC2 Instance and Configure Cloud Watch Alaram To Monitor

-> Select EC2 Instance -> Action -> Monitor and trouble Shoot -> Manager Cloud Watch Alarms -> Create cloud watch Alarm

Alaram Notification : Select SNS Topic which we have created

Alaram Thresh Hold : Avg CPU Utiliation >= 3%

4) Connect to EC2 VM using ssh client and increase load

```
$ sudo yum install stress -y
$ sudo stress --cpu 8 -v --timeout 180s
```

Note: Execute stress command 3 to 4 times...

5) Observe the behaviour of Cloud Watch / Alaram / SNS

(We should get Email Notification)

Note: When Alarm got triggered, its status will be changed to 'In Alarm'

=> We can Monitor our Alarm history (how many times it got triggered)

(Goto Cloud Watch -> Select Alarms -> Click Alarm -> Click on History).