

++++++
Amazon Cloud Watch
++++++

-> Application and Infrastructure Monitoring service

-> Amazon CloudWatch is a component of Amazon Web Services that provides monitoring for AWS resources and the customer applications running on the Amazon infrastructure.

-> CloudWatch enables real-time monitoring of AWS resources such as Amazon Elastic Compute Cloud (EC2) instances, Amazon Elastic Block Store (EBS) volumes, Elastic Load Balancing and Amazon Relational Database Service (RDS) instances.

-> The application automatically collects and provides metrics for CPU utilization, latency and request counts.

-> Users can also stipulate additional metrics to be monitored, such as memory usage, transaction volumes or error rate.

Cloud Watch & SNS - Lab Task
++++++

- 1) Create SNS Topic (ashokit_sns_topic)
- 2) Configure Email Subscription in SNS Topic (Confirm Subscription recieved in email)
- 3) Go To Ec2 -> Actions -> Monitoring and Troubleshoot -> Cloud Watch Alarms -> Create cloud watch with Alarm

Alarm Trigger Condition : If given threshold reaches send notification to SNS
Threshold : Avg CPU >= 50%

- 4) Connect to EC2 instance
- 5) Increase load on the EC2 instance using "stress" software

```
$ sudo amazon-linux-extras install epel -y
$ sudo yum install stress -y
$ uptime
$ sudo stress --cpu 8 -v --timeout 180s
$ uptime
```

- 6) Observe the behaviour of Cloud Watch / Alarm / SNS
(We should get Email Notification)