**Amazon cloud watch**

Amazon Cloud Watch is a monitoring service to monitor your AWS resources as well as the applications that you run on AWS.

***Cloud watch objects***

 Dashboards – Creates dashboards to see what is happening with your AWS environment

 Alarms – Allows you to set Alarms that notify you when particular thresholds are hit

 Events – Cloud Watch events helps you to respond to state changes in your AWS resources.

 Logs – Cloud Watch logs helps you to aggregate, monitor, and store logs

***Cloud watch and EC2***

Host Level Metrics Consists of

 CPU

 Network

 Disk

 Status Check

**Note:** RAM utilization is a custom metric! By default EC2 monitoring is 5 minute intervals, unless you enable detailed monitoring which will then make it 1 minute intervals.

***Cloud Watch Alarms***

You can create an alarm to monitor any Amazon Cloud Watch metric in your account. This can include EC2 CPU utilization, Elastic Load Balancer Latency or even the charges on your AWS bill. You can set the appropriate thresholds in which to trigger the alarms and also set the what actions should be taken if an alarm state is reached. This will be covered in a subsequent lecture.

***To configure Amazon cloud watch***

· Login to Amazon web console

· Click on services

· In the management tools

· Click on cloud watch

· Click on alarms

· Select EC2 metrics

· Click on per-instance metrics

· From create alarm page

· Select 1 select metric

· In search box provide instance id or name

· Under metric name, select CPU utilization check box

· Click next

· On create alarm page

· Select 2 define alarm

· Under alarm threshold

· Name: omni cpu utilization

· Description – cputest

· Under whenever cpu utilization

· Is >= 30

· For 1 consecutive periods

· Drag down

· Under actions

· Whenever this alarm – state is alarm

· Send notification to – click on new list

· Send notification to – cpu topic omni

· Email: [adminomni@omni.com](mailto:adminomni@omni.com)

· Click on create alarm

· Click on I will do it later

· Go to mail account check the mail

· Once mail is checked

· Config status – pending confirmation

· Verify the link from your mail

· Click on confirm subscription

· Verify by this output

· After confirmation from email config status has become blank

· Now login to instance

· Switch to root account

· # top

· # stress –cpu 40 –timeout 1000

· Now check top command

· Go to cloud watch service

· Check the status

· After 5 minutes alarm is generated

· Go to email and check mail