AWS Lab 31

Overview of the lab

In this lab you will learn how to monitor EC2 instance metrics using cloudwatch

CloudWatch

It is a monitoring service within aws cloud

It collects monitoring and operational data in the form of metrics, logs and events
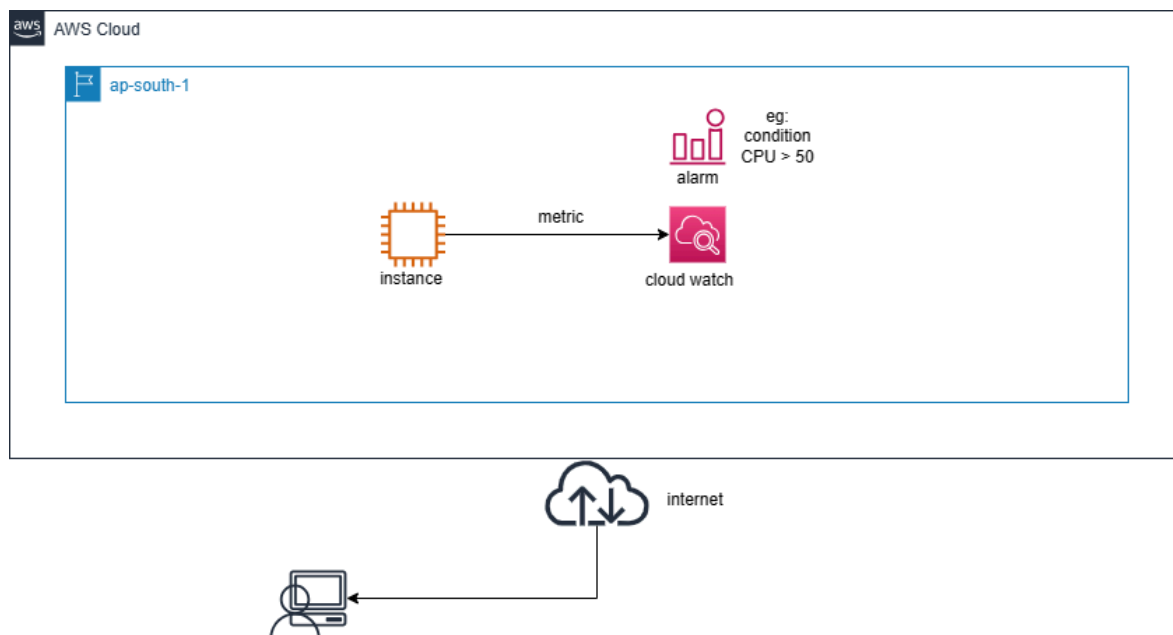
Metrics

It is the measurement on CPU, Memory, Disk and Network utilization

Monitoring for EC2

Two types of monitoring

- Basic (free)   - every 5 mins
- Detailed (charges applies)   - every min

Architecture

Step by Step Lab

Launch instance

1. In EC2 management console, launch instance

    1.1. Name and tag – linux-server

    1.2. Application and OS Images – Amazon Linux

    1.3. Instance type - t2.micro

    1.4. Key pair – select the existing keypair

    1.5. Edit Network settings

        a. Subnet – subnet in ap-south-1a (even no preference is fine)
        b. Firewall – select existing security group

2. Number of instances - 1 (Leave all other settings as default and launch instance)

CloudWatch monitoring

3. Open CloudWatch Management Console in a new browser tab
4. Click on Metrics and All metrics
5. Click on EC2 and Per-Instance-Metrics
6. Search with your instance id
7. Select the CPUUtilization Metric (see the graph for every 5 mins)

Stress within Linux OS

8. Login to the instance via EC2 instance connect
9. Run Stress within OS

   ```
   sudo yum install stress -y
   sudo stress --cpu 2
   ```

CloudWatch monitoring

10. Select the CPUUtilization Metric, wait for few mins to see high CPU utilization (see the graph for every 5 mins)

Clean Up Step

1. Select the instance and terminate it