AWS CLOUDWATCH

General Overview

Aws CloudWatch is a service provided by Amazon AWS, which basically does collects logs and metrices and stores them. Also it helps in analysis, auto scaling, providing alerts , etc.

It’s working is in 4 stages-

* Collect Data-It collects logs and metrices.
* Monitor- It Visualize apps with dashboards, correlate logs & metrices side by side to troubleshoot.
* Act- It automates responses for operational changes like auto scaling.
* Analyze- Data retention for 15 months, real time analysis the use of CloudWatch Metric Math.

In case you are already using slf4j as your logging framework, the changes you have to configure in your logging to use AWS Cloudwatch for storing your logs are:

1)This can be used for applications which are running on AWS or on-premise.

If the application is running on an EC2 instance with an IAM profile :

<appender name="cloud-watch" class="io.github.dibog.AwsLogAppender">

<createLogGroup>true</createLogGroup>

<groupName>group-name</groupName>

<streamName>stream-name</streamName>

<dateFormat>yyyyMMdd\_HHmm</dateFormat>

<layout>

<pattern>[%thread] %-5level %logger{35} - %msg %n</pattern>

</layout>

</appender>

2) In case your application is not running on AWS or you don't want to use the IAM Profile of the  
EC2 instance, you have to specify the AWS credentials

<appender name="cloud-watch" class="io.github.dibog.AwsLogAppender">

<awsConfig>

<credentials>

<accessKeyId></accessKeyId>

<secretAccessKey></secretAccessKey>

</credentials>

<region></region>

<clientConfig class="com.amazonaws.ClientConfiguration">

<proxyHost></proxyHost>

<proxyPort></proxyPort>

</clientConfig>

</awsConfig>

<createLogGroup>false</createLogGroup>

<queueLength>100</queueLength>

<groupName>group-name</groupName>

<streamName>stream-name</streamName>

<dateFormat>yyyyMMdd\_HHmm</dateFormat>

<layout>

<pattern>[%thread] %-5level %logger{35} - %msg %n</pattern>

</layout>

</appender>