# CONFIGURE RAM & DISK UTILIZATION IN CLOUDWATCH

## (USING CLOUDWATCH AGENT)

**STEP1:** CREATE IAM ROLE

Create IAM Role & connect EC2 with CloudWatch (Full Access)

**STEP2:** CREATE EC2 INSTANCE

Create EC2 instance (Ubuntu) & attach the created IAM role

**STEP3:** CONFIGURE CLOUDWATCH AGENT TO EC2

Server access to EC2

a. Download CloudWatch Agent                (see below command)

b. Unpack & Install CloudWatch Agent       (see below command)

c. Create configuration file for Agent (json)   (see below command)

d. Start the agent                                          (see below command)

**STEP4:** CHECK IF AGENT IS VISIBLE ON CLOUDWATCH CONSOLE

Login to your AWS account & check if CWAgent is shown under 'Metrics' inside CloudWatch dashboard

## #COMMANDS FOR STEP3:

### a. Download CloudWatch Agent

```
wget https://s3.amazonaws.com/amazoncloudwatch-
agent/ubuntu/amd64/latest/amazon-cloudwatch-agent.deb
```

### b. Unpack & Install CloudWatch Agent

```
sudo dpkg -i -E ./amazon-cloudwatch-agent.deb
```

### c. Create json configuration file for Agent

```
vi /opt/aws/amazon-cloudwatch-agent/bin/config.json (Paste
below command)
```

```
{
    "metrics": {
        "append_dimensions": {
            "InstanceId": "${aws:InstanceId}"
        },
        "metrics_collected": {
            "mem": {
                "measurement": [
                    "mem_used_percent"
                ],
                "metrics_collection_interval": 60
            },
                "disk": {
                "measurement": [
                        "disk_used_percent"
                ],
                "metrics_collection_interval": 60
            }
        }
    }
}
```

### d. Start the agent

```
sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-
agent-ctl -a fetch-config -m ec2 -c file:/opt/aws/amazon-
cloudwatch-agent/bin/config.json -s
```

## #REFERENCE AWS DOCUMENT LINKS:

### 1. To download & configure CloudWatch Agent

*https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/download-cloudwatch-agent-commandline.html*


### 2. Creating json file for Agent

*https://docs.aws.amazon.com/AmazonCloudWatch/latest/monitoring/Install-CloudWatch-Agent-New-Instances-CloudFormation.html*

**Note:** (JSON file taken from AWS website & modified as per our requirement)