# **Cloud Metric using Cloud Watch**

# Step 1: Generate policy using

# https://awspolicygen.s3.amazonaws.com/policygen.html

AWS Policy Generator				
The AWS Policy Generator is a tool that enables you to create policies that control access to Amazon Web Services (AWS) products and resources. For more information about creating policies, see key concepts in Using AWS Identity and Access Management. Here are sample policies.				
Step 1: Select Policy Type				
A Policy is a container for permissions. The different types of policies you can create are an IAM Policy, an S3 Bucket Policy, an SNS Topic Policy, a VPC Endpoint Policy, and an SQS Queue Policy.				
Select Type of Policy [IAM Policy ]				
Step 2: Add Statement(s)				
A statement is the formal description of a single permission. See a description of elements that you can use in statements.				
Effect   Allow   Deny				
AWS Service Amazon EC2 □ All Services (**)				
Use multiple statements to add permissions for more than one service.				
Actions Select Actions				
Amazon Resource Name (ARN)				
		ARN should follow the following format: arn:aws:ec2: <region>:<account>:<resourcetype>/<resourcepath>.  Use a comma to separate multiple values.</resourcepath></resourcetype></account></region>		
		Add Conditions (Optional)		
Add		Add Statement		
You added the following statements. Click the button below to Generate a policy.				
Effect Action			Resource	Conditions
• clou	udwatch:Lis	ttMetricStatistics ttMetrics tMetricData	*	None
Allow • ec2:	:DescribeTa	ags	*	None
Step 3: Generate Policy				
A policy is a document (written in the Access Policy Language) that acts as a container for one or more statements.				
		Generate Policy Start Over		

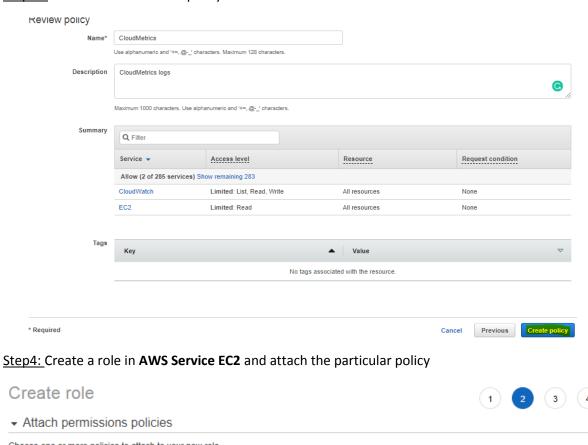
# Step:2 Create a new policy and paste the json code there

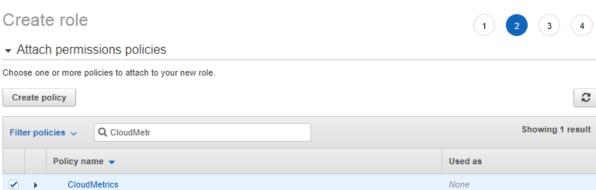


# Step 3: Review and Create the policy

Set permissions boundary

\* Required



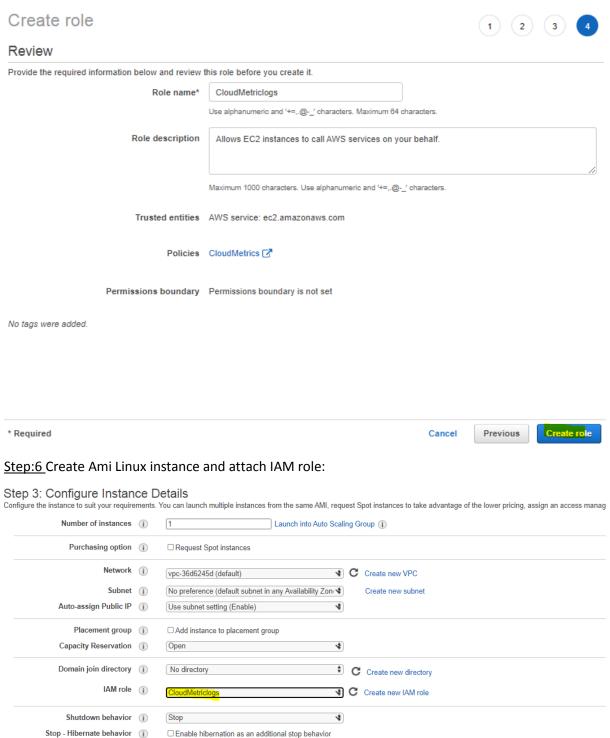


Cancel

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### Step5: And Create a role



### Step:7 Install all this in Amazon Linux AMI

### **Install Curl**

sudo yum install -y perl-Switch perl-DateTime perl-Sys-Syslog perl-LWP-Protocol-https perl-Digest-SHA.x86\_64

you want to store the monitoring scripts and run the following command to download them:

curl https://aws-cloudwatch.s3.amazonaws.com/downloads/CloudWatchMonitoringScripts-1.2.2.zip -O

Run the following commands to install the monitoring scripts you downloaded

unzip CloudWatchMonitoringScripts-1.2.2.zip && \

rm CloudWatchMonitoringScripts-1.2.2.zip && \

cd aws-scripts-mon

Step:8 The following example performs a simple test run without posting data to CloudWatch.

./mon-put-instance-data.pl --mem-util --verify -verbose

### Step:9 To report the log one time in cloudwatch

```
[ec2-user@ip-172-31-3-71 aws-scripts-mon]$ ./mon-put-instance-data.pl --mem-used-incl-cache-buff --mem-util --mem-used --mem-avail

Successfully reported metrics to CloudWatch. Reference Id: 1c84f326-9b9a-4eea-bde3-693f37477505

[ec2-user@ip-172-31-3-71 aws-scripts-mon]$ free
total used free shared buff/cache available

Mem: 1006892 95608 442056 440 469228 771108

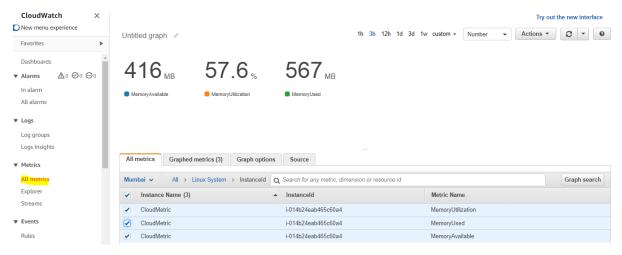
Swap: 0 0

[ec2-user@ip-172-31-3-71 aws-scripts-mon]$ free -m
total used free shared buff/cache available

Mem: 983 93 431 0 458 752

Swap: 0 0 0
```

### Step:10 Go to cloud watch log metric -System Linux



### Additional Commands: -

You can add in contab for continuous monitoring

#### For ex

\*/5 \* \* \* \* ~/aws-scripts-mon/mon-put-instance-data.pl --mem-used-incl-cache-buff --mem-util --disk-space-util --disk-path=/ --from-cron