**Cloudwatch - UNIFIED CLOUDWATCH AGENT LAB**

Step 1: login to aws management console and navigate to ec2

Step 2 : create an instance of linux 2 without no key- pair ,and add HTTP rule in security group and rest settings will be default.

Step 3 : after creating an instance then create an IAM role having policies :

CloudwatchAgentAdminPolicy

CloudWatchAgentServerPolicy

Step 4:connect the role created in above step ,attach to the ec2 instance.

Step 5: then connect the ec2 instance ,here we choose ec2 instance connect.

Step 6 : after connecting to ec2 instance ,then first change from sudo user to root user using “sudo su” and then apply the following commands :

sudo su

yum install httpd

echo "hello world" > /var/www/html/index.html

sudo systemctl start httpd

sudo systemctl enable httpd

cat /var/log/httpd/access\_log

cat /var/log/httpd/error\_log

#to install the agent on amazon linux-2

sudo yum install amazon-cloudwatch-agent

#to run the wizard

sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-config-wizard

Step 7: after run the wizard now it will ask you the configuration for your ssm ,you have to choose the following configuration:

On which Os are you planning to use the agent? linux

Are you using ec2 or on-premises hosts? Ec2

Which user are you planning to run the agent? root

Do you want to turn on the StatsD daemon? yes

Which port do you want StatsD daemon to listen to? 8125

What is the collect interval for statsD daemon? 10s

What is the aggregation interval for metrics collected by StatsD daemon ? 60s

Do you want to monitor metrics from collectD? yes

Do you want to monitor any host metrics? yes

Do you want to monitor cpu metrics per core? yes

Do you want to add ec2 dimensions into all of your metrics if the info is available? yes

Do you want to aggregate ec2 dimensions ? yes

Would you like to collect your metrics at high resolution? 60s

Which default metrics config do you want? basic

Are you satisfied with the above config? yes

Do you want an existing cloudwatch log agent? no

Do you want to monitor any log files ? yes

log file path:

/var/log/httpd/access\_log

log group retention in days? 5

Do you want to specify any additional log files to monitor?

yes

log file path:

/var/log/httpd/error\_log

log group retention in days ? 5

Do you want to specify any additional log files to monitor ? no

Do you want to store the config in the SSM parameter store? 1

Which parameter store name do you want to use to store your config? 1

Which region do you want to store the config in the parameter store ? press enter

Which AWS credentials should be used to send json config to the parameter store? 1

Step 7: after specifying all the configuration stated in step 6 ,:the it will be successfully installed then we have certain options ,run the following commands of options on linux .

sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-ctl -a fetch-config -m ec2 -c ssm:AmazonCloudWatch-linux -s

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

Step 8: now,you can go to cloudwatch and can access your log files (i.e.,access\_log and error\_log).

Successfully done!!!