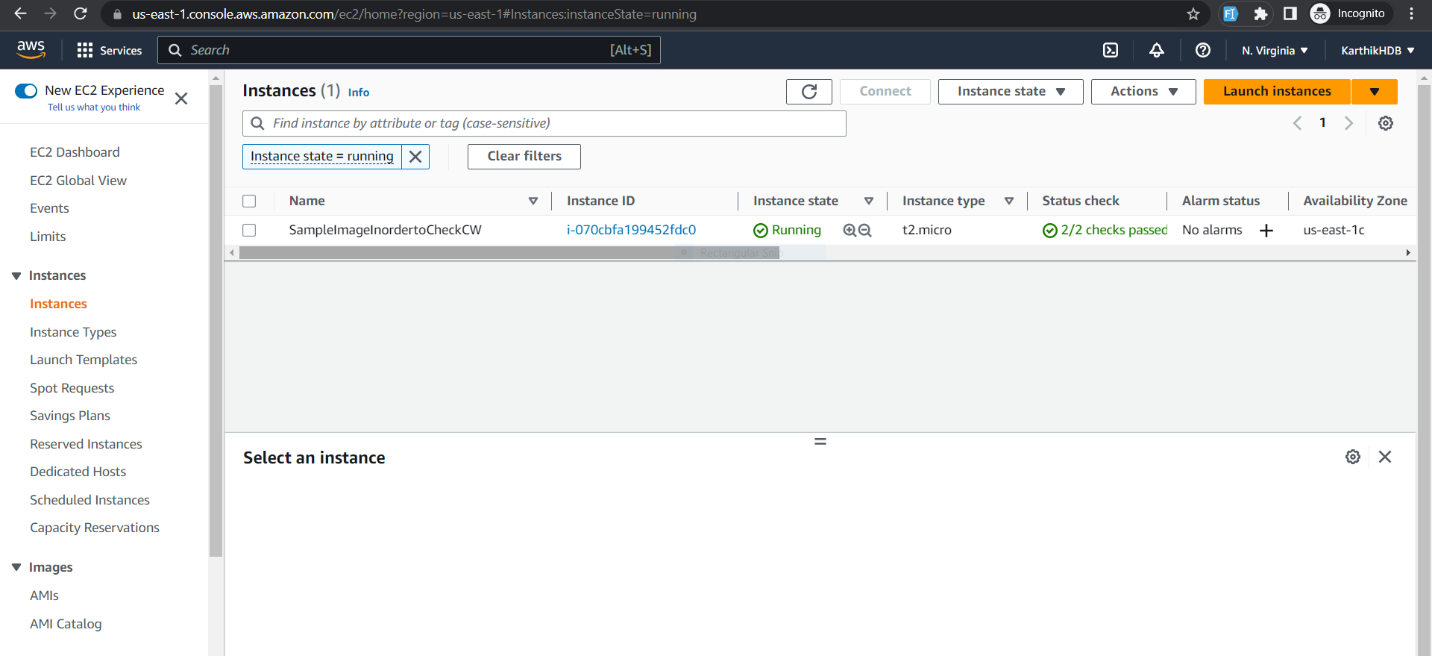
1.Configure CloudWatch logs: Configure CloudWatch logs to capture logs from your AWS resources, such as EC2 instances and Lambda functions.

A screenshot of a computer

Description automatically generated

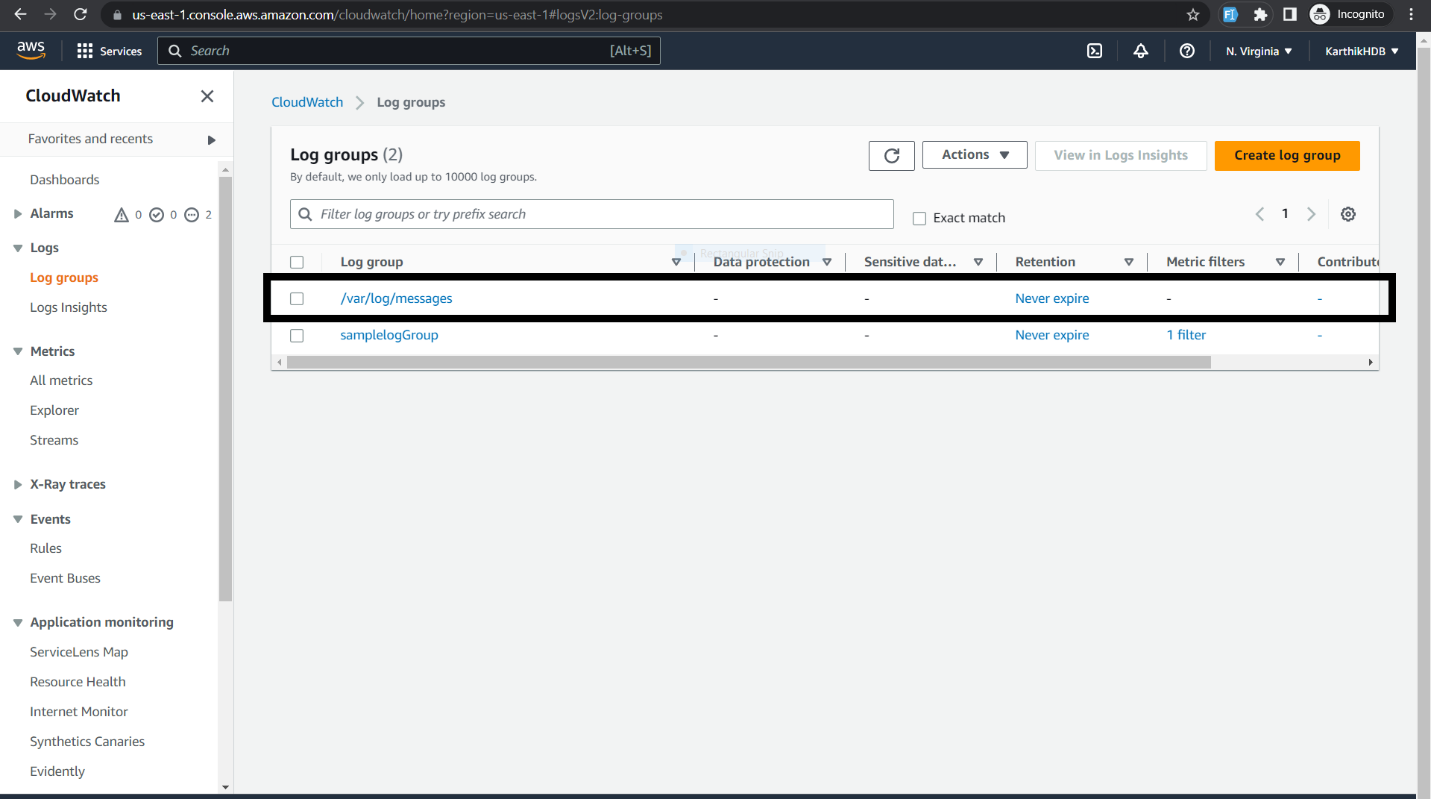
Connect it through ssh and run the following commands to install cloudwatch log agent

sudo yum update -y

sudo yum install -y awslogs //to install awslogs agent

sudo systemctl start awslogsd (to start awslogs)

You will see the logs in the cloudwatch logs in aws management console like below

A screenshot of a computer

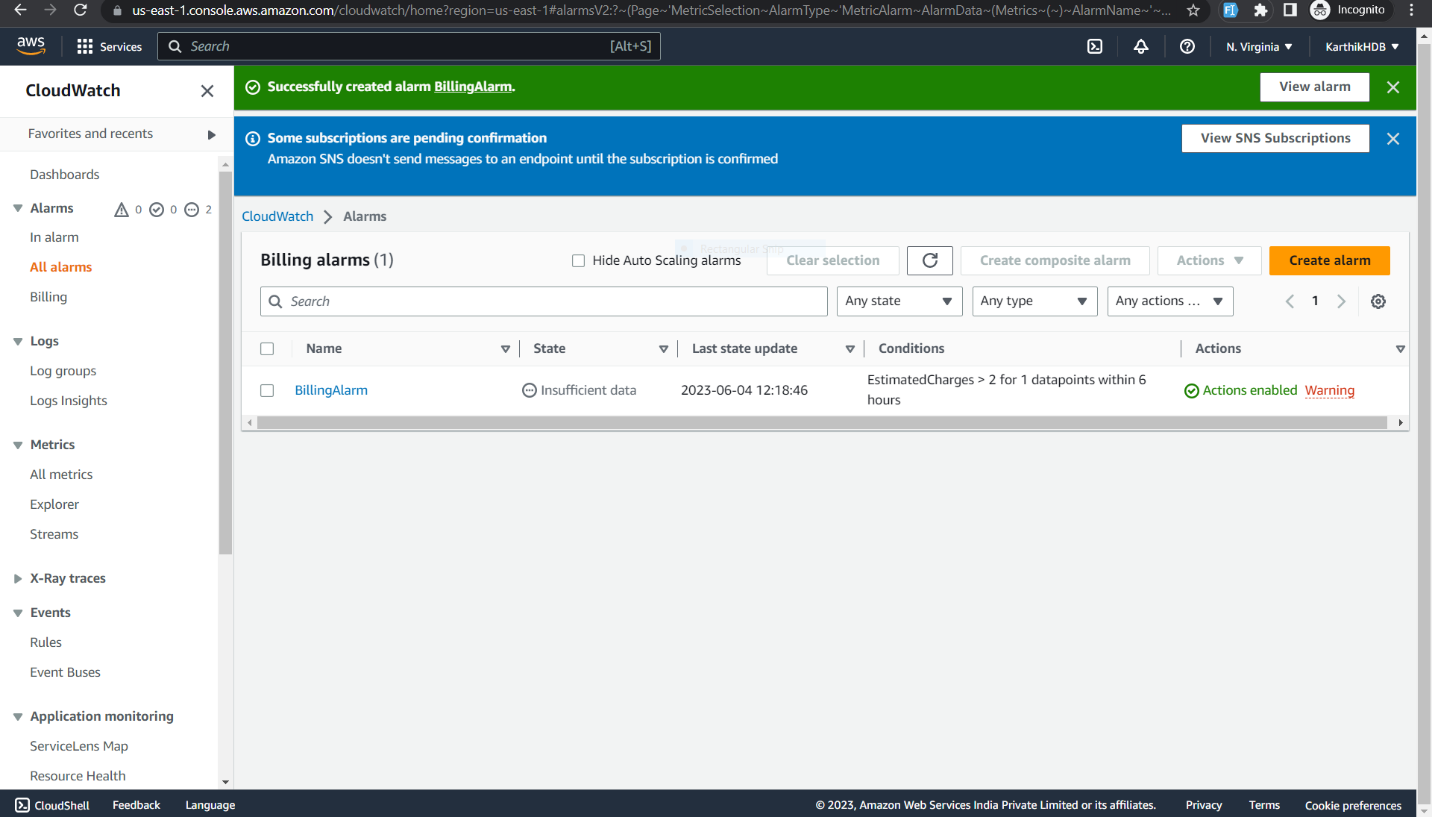
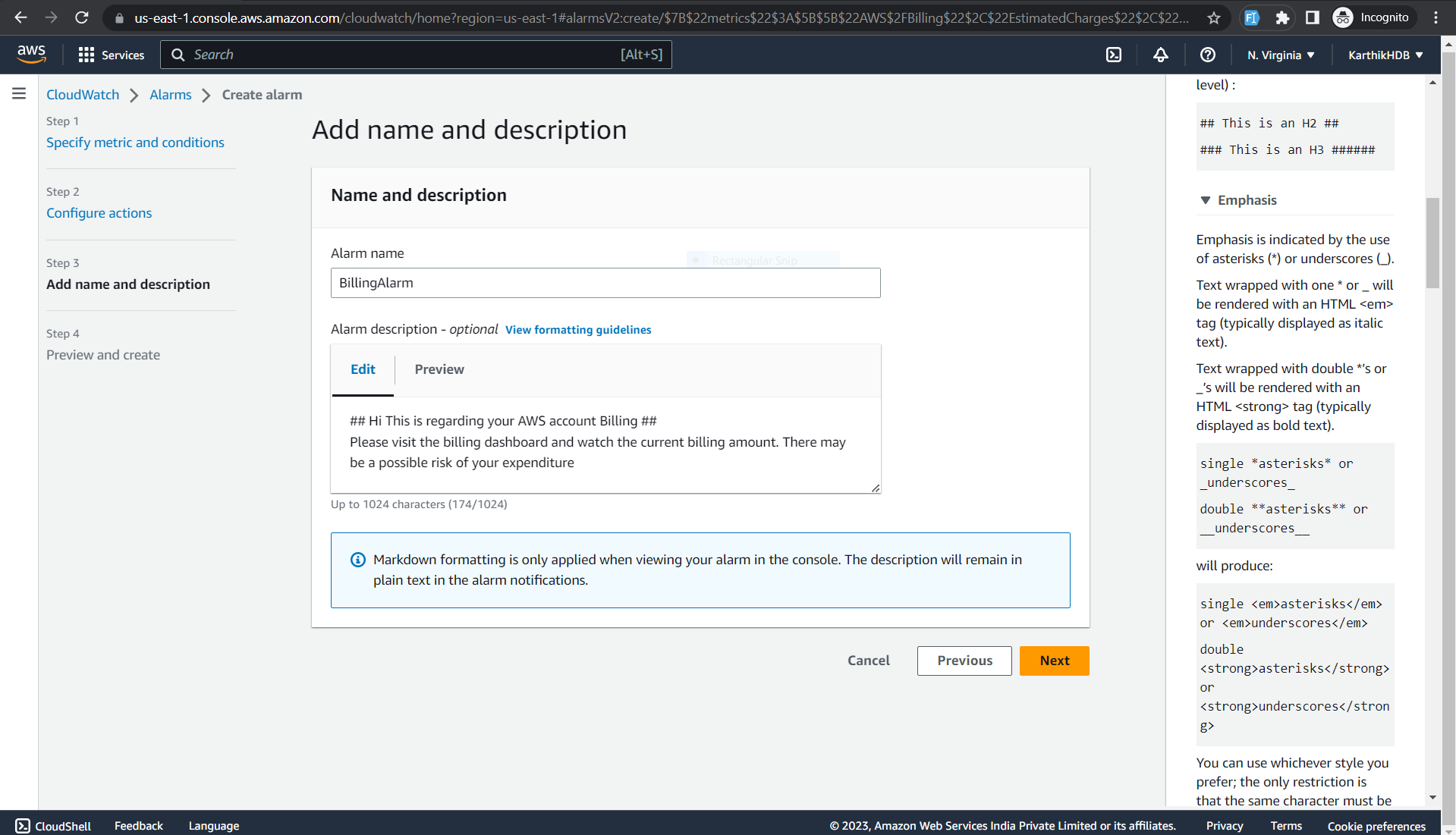
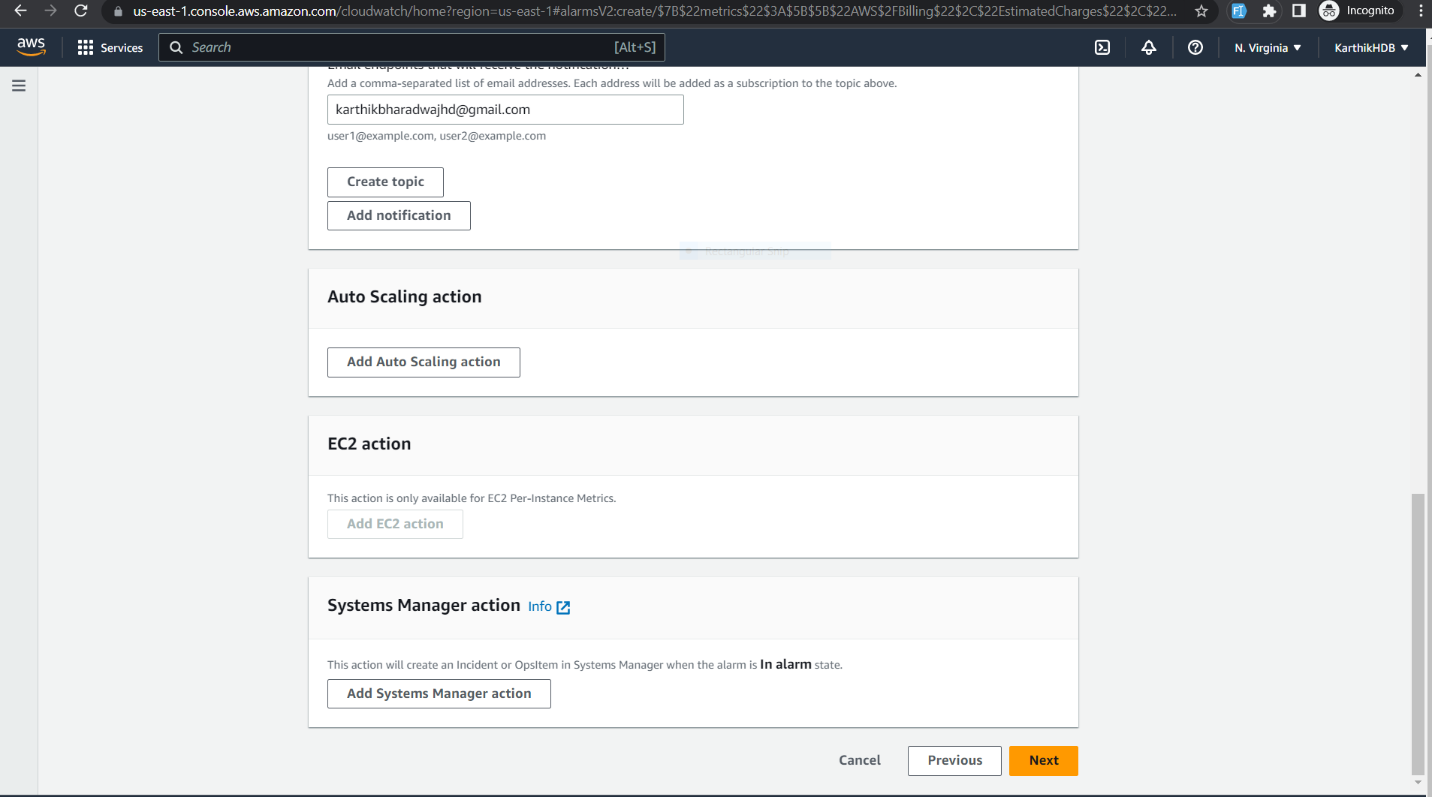
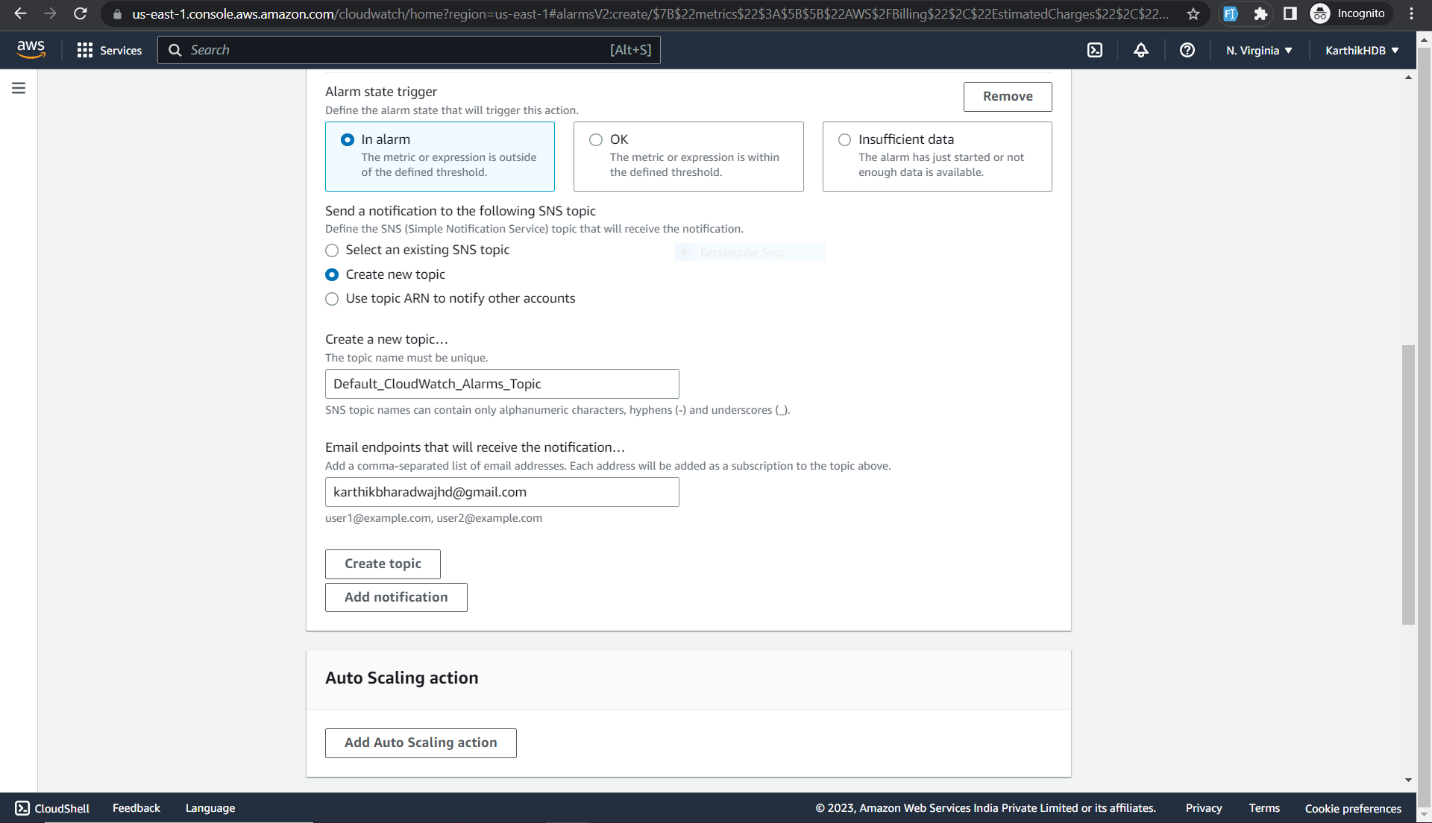
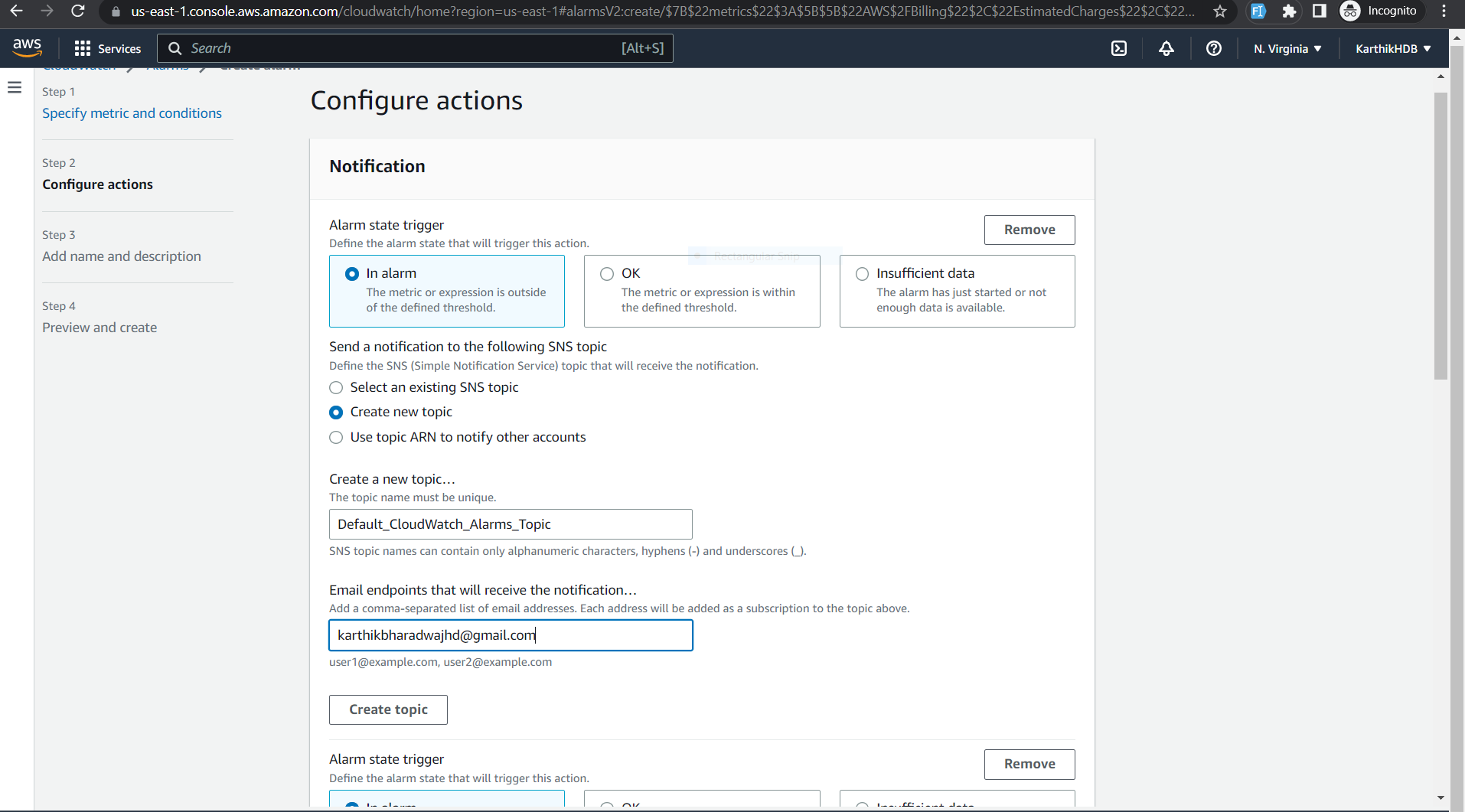
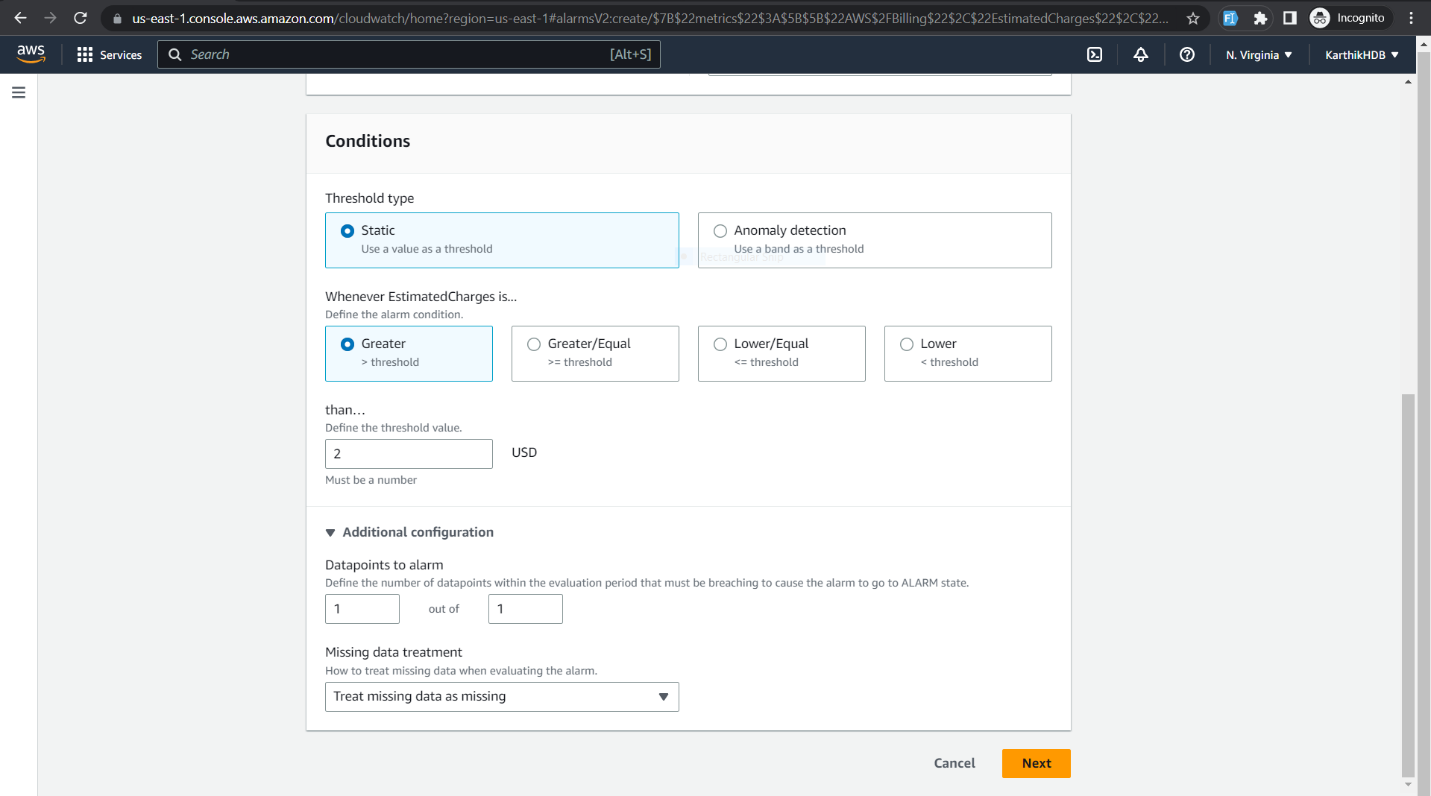
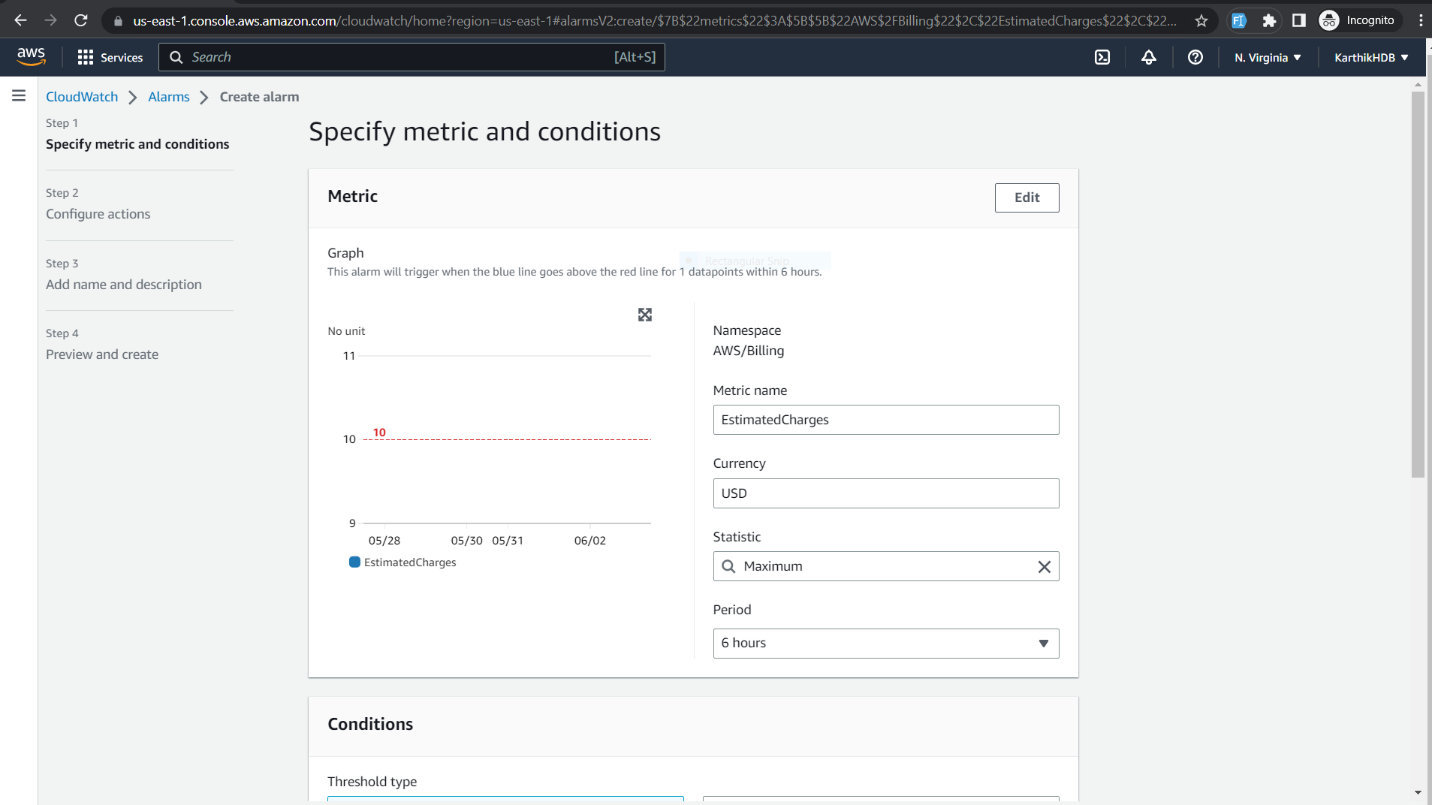
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A screenshot of a computer

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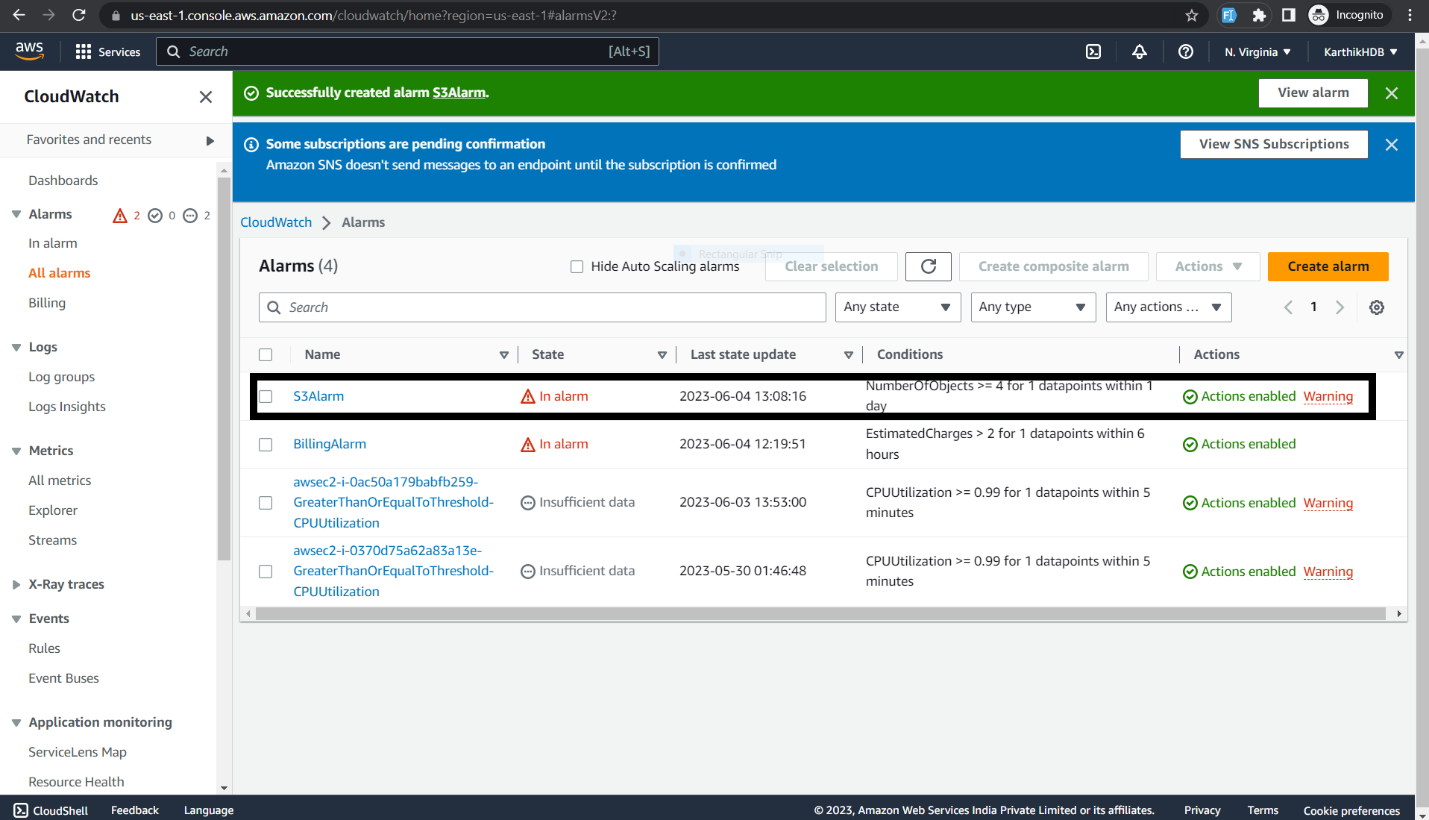
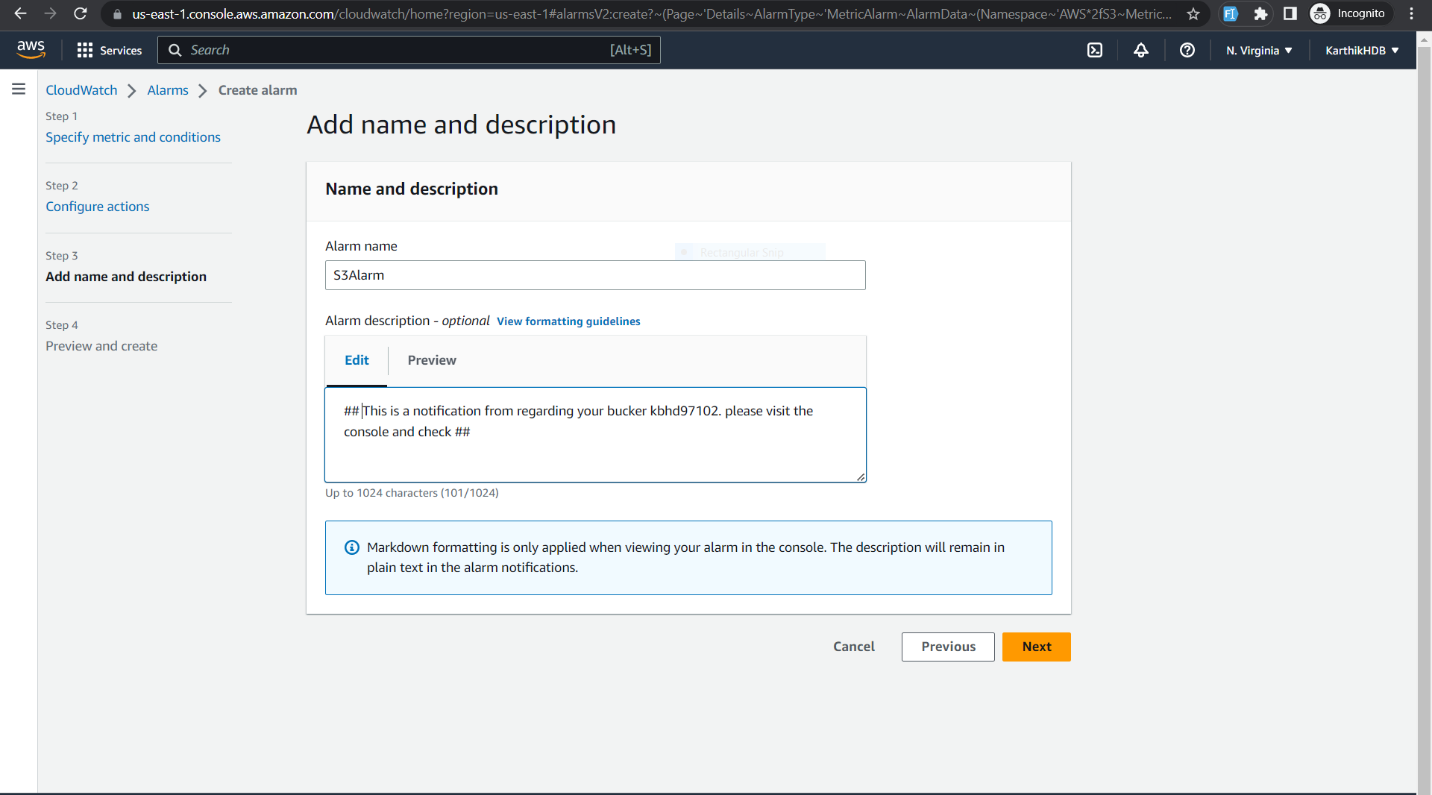
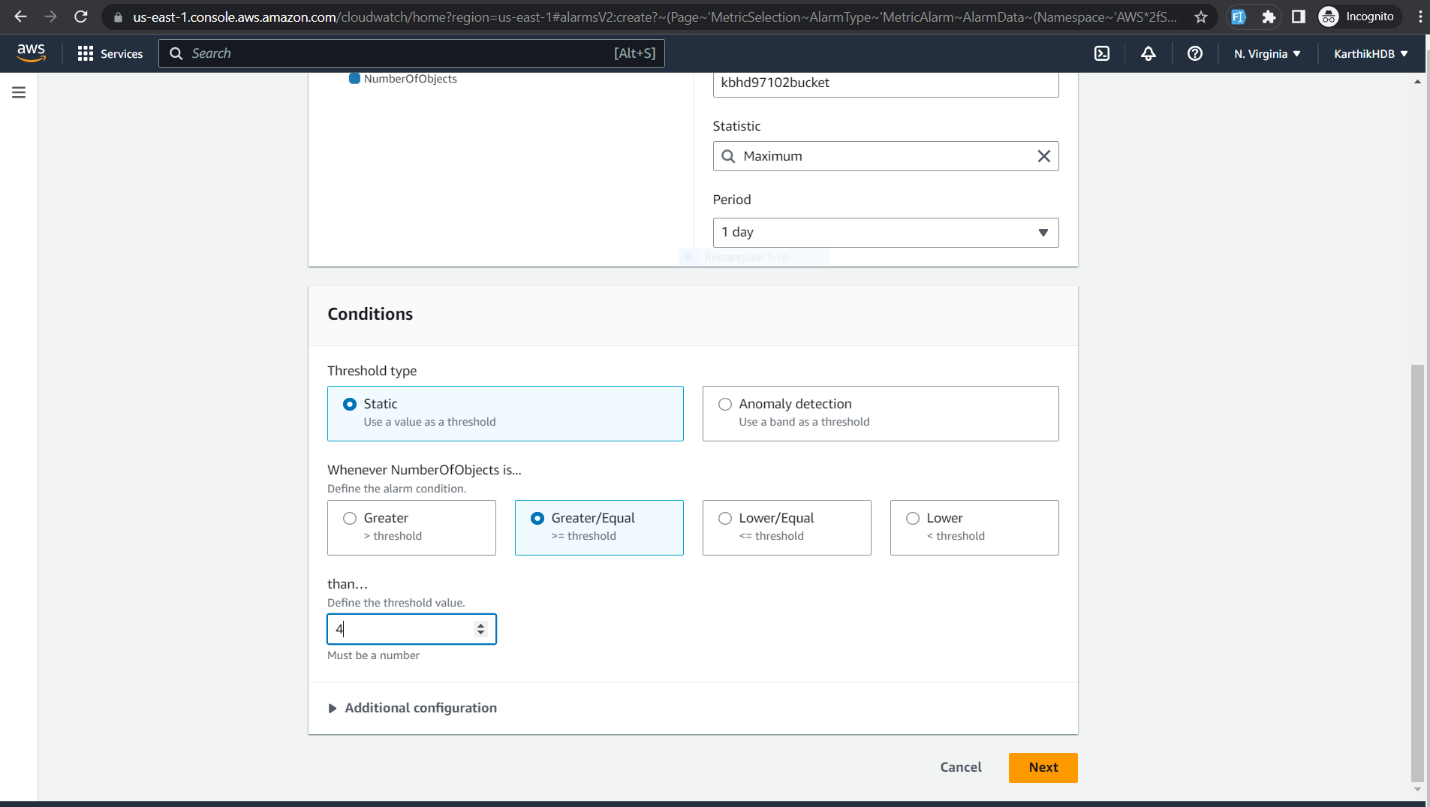
2.Monitor billing and cost with CloudWatch: Use CloudWatch to monitor your AWS billing and cost, and create alerts when certain thresholds are reached. A screenshot of a computer

Description automatically generated



3.Create CloudWatch alarms for S3 buckets: Set up CloudWatch alarms to notify you when S3 buckets reach certain thresholds, such as when the number of objects in a bucket exceeds a certain limit or when the amount of data stored in a bucket reaches a certain size.A screenshot of a computer

Description automatically generated



4. Use CloudWatch to monitor EC2 instances: Set up CloudWatch to monitor the performance of your EC2 instances, such as CPU utilization, memory usage, network traffic, and disk I/O.

Create an EC2 instance “SampleImageInordertoCheckCW”

Connect to SSH client and run the following commands to install cloudwatch agent

wget <https://s3.amazonaws.com/amazoncloudwatch-agent/amazon_linux/amd64/latest/amazon-cloudwatch-agent.rpm> //downloading cloudagent package

sudo rpm -U ./amazon-cloudwatch-agent.rpm //running the cloudwatch-agent package

sudo nano /opt/aws/amazon-cloudwatch-agent/etc/amazon-cloudwatch-agent.json //creating json config file and paste the following code

{

"agent": {

"metrics\_collection\_interval": 60,

"run\_as\_user": "cwagent"

},

"metrics": {

"append\_dimensions": {

"InstanceId": "${aws:InstanceId}"

},

"metrics\_collected": {

"mem": {

"measurement": [

"mem\_used\_percent"

],

"metrics\_collection\_interval": 60

},

"swap": {

"measurement": [

"swap\_used\_percent"

],

"metrics\_collection\_interval": 60

}

}

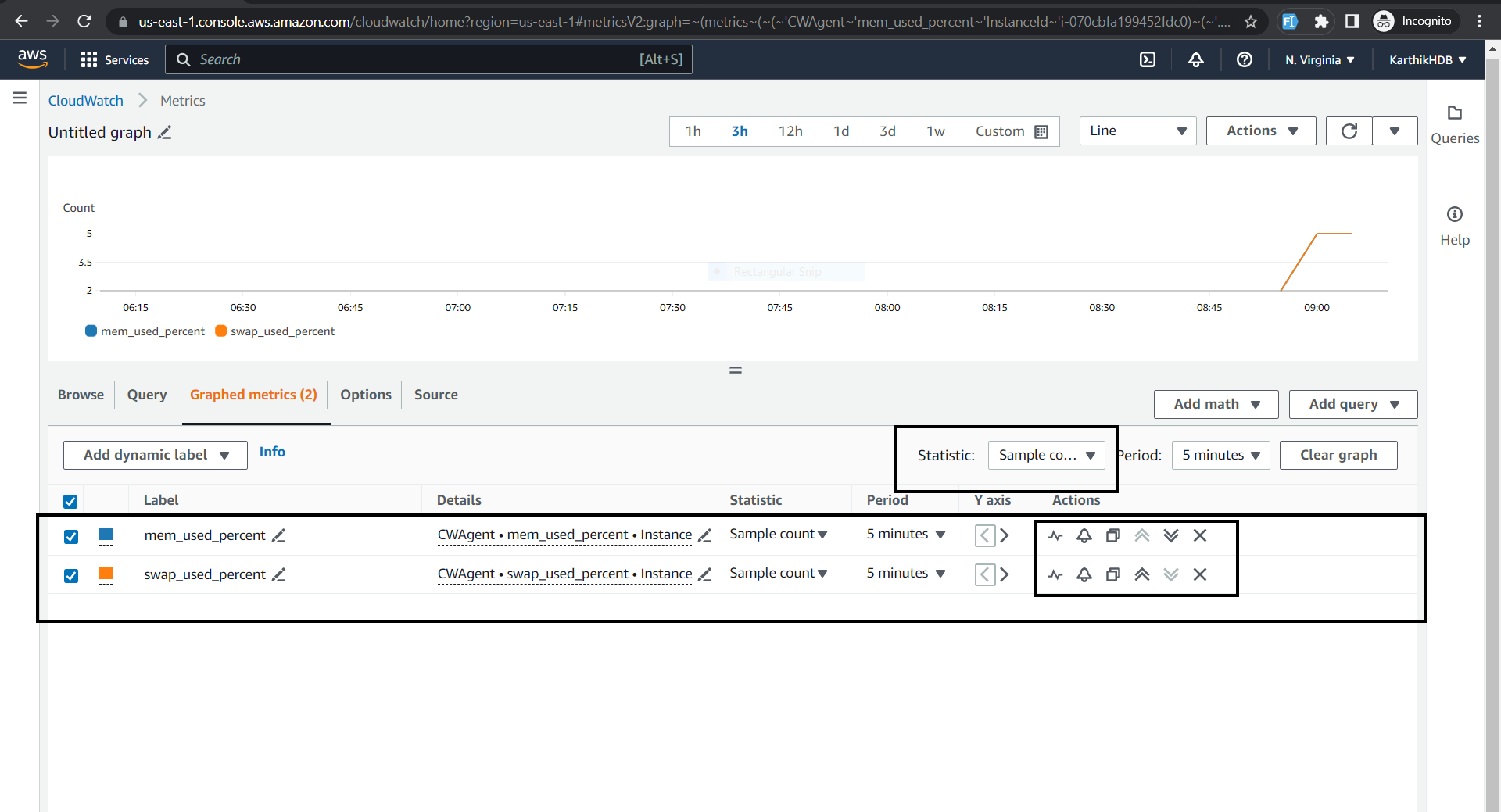
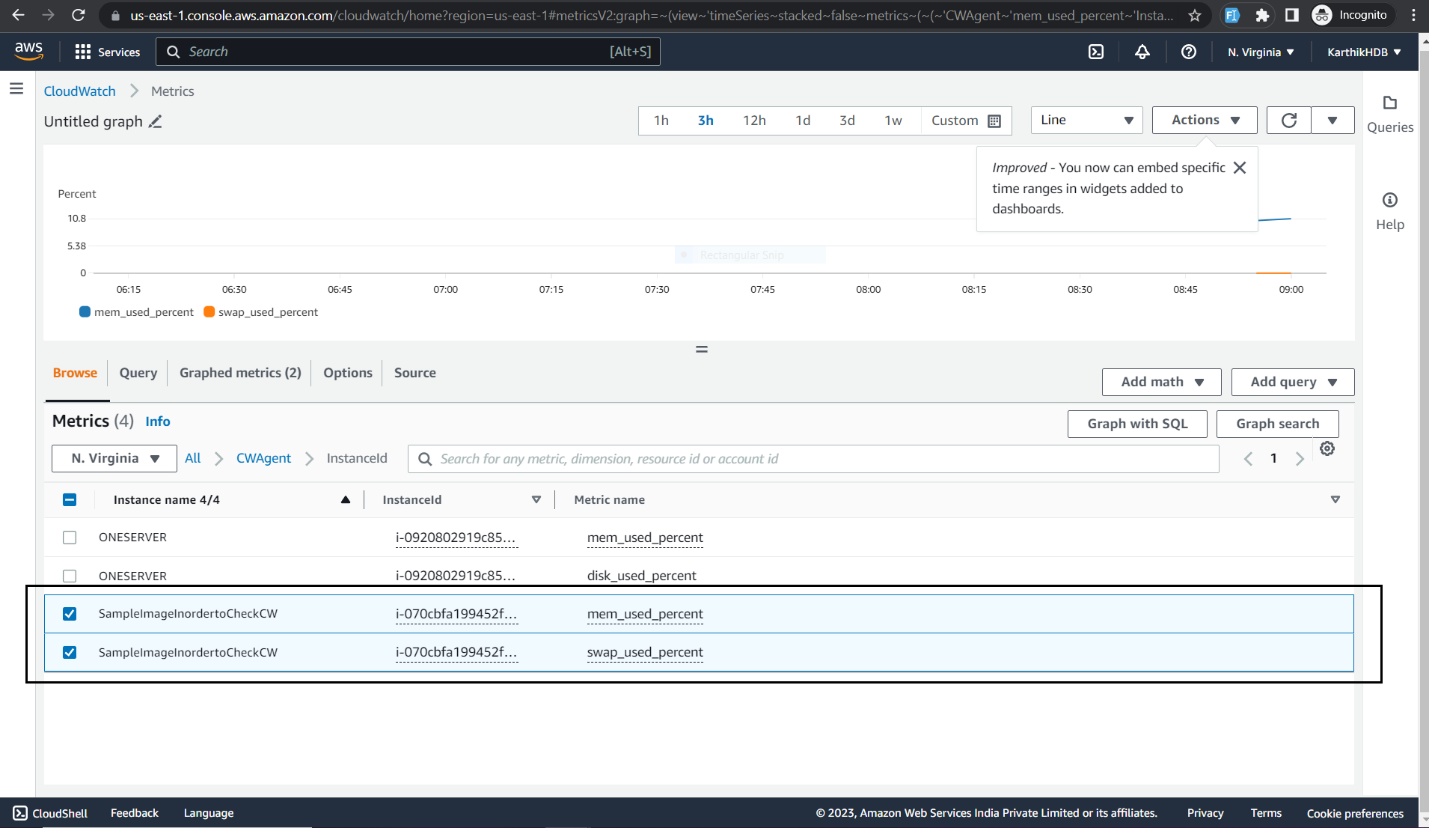
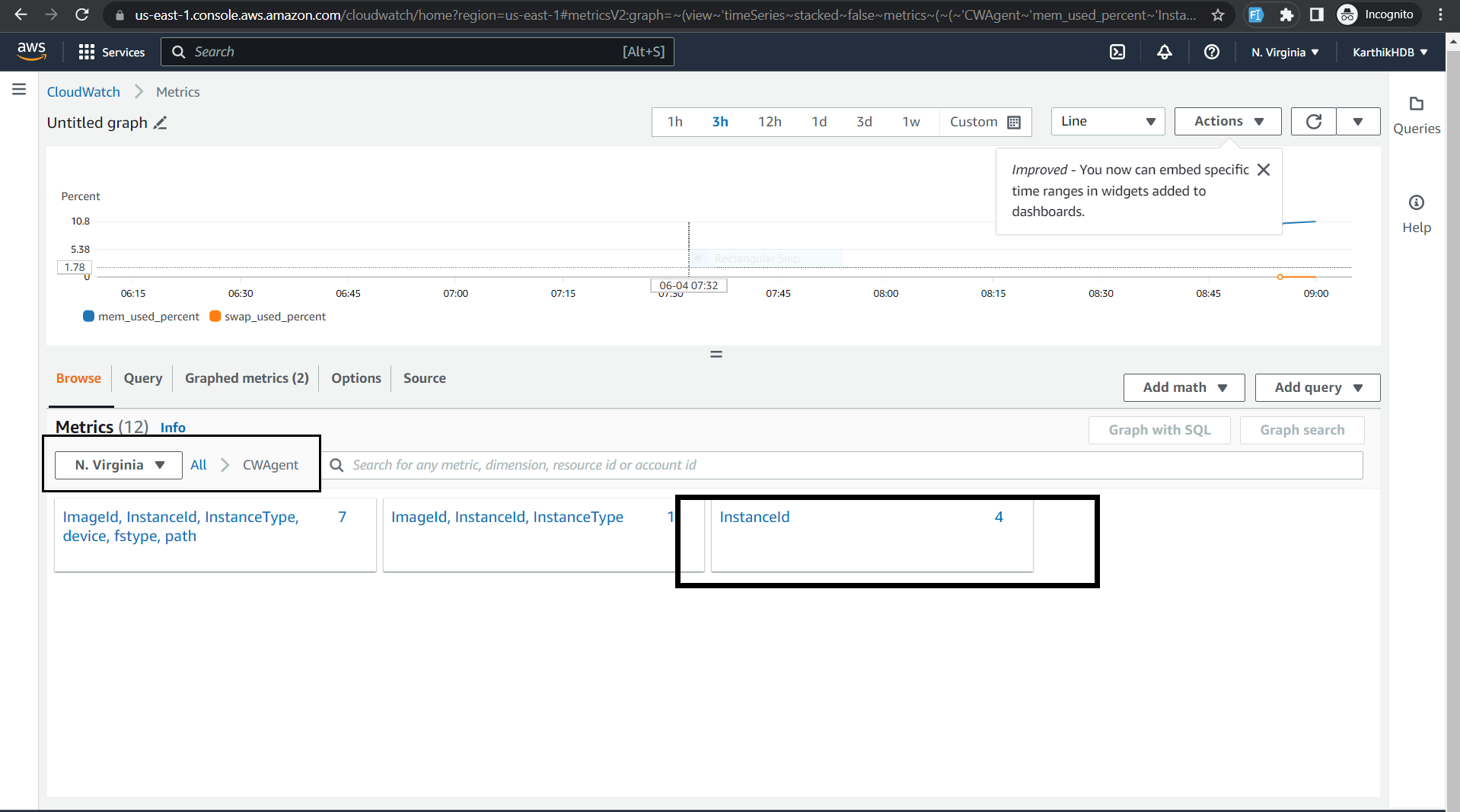
}

}

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

sudo tail -f /opt/aws/amazon-cloudwatch-agent/logs/amazon-cloudwatch-agent.log

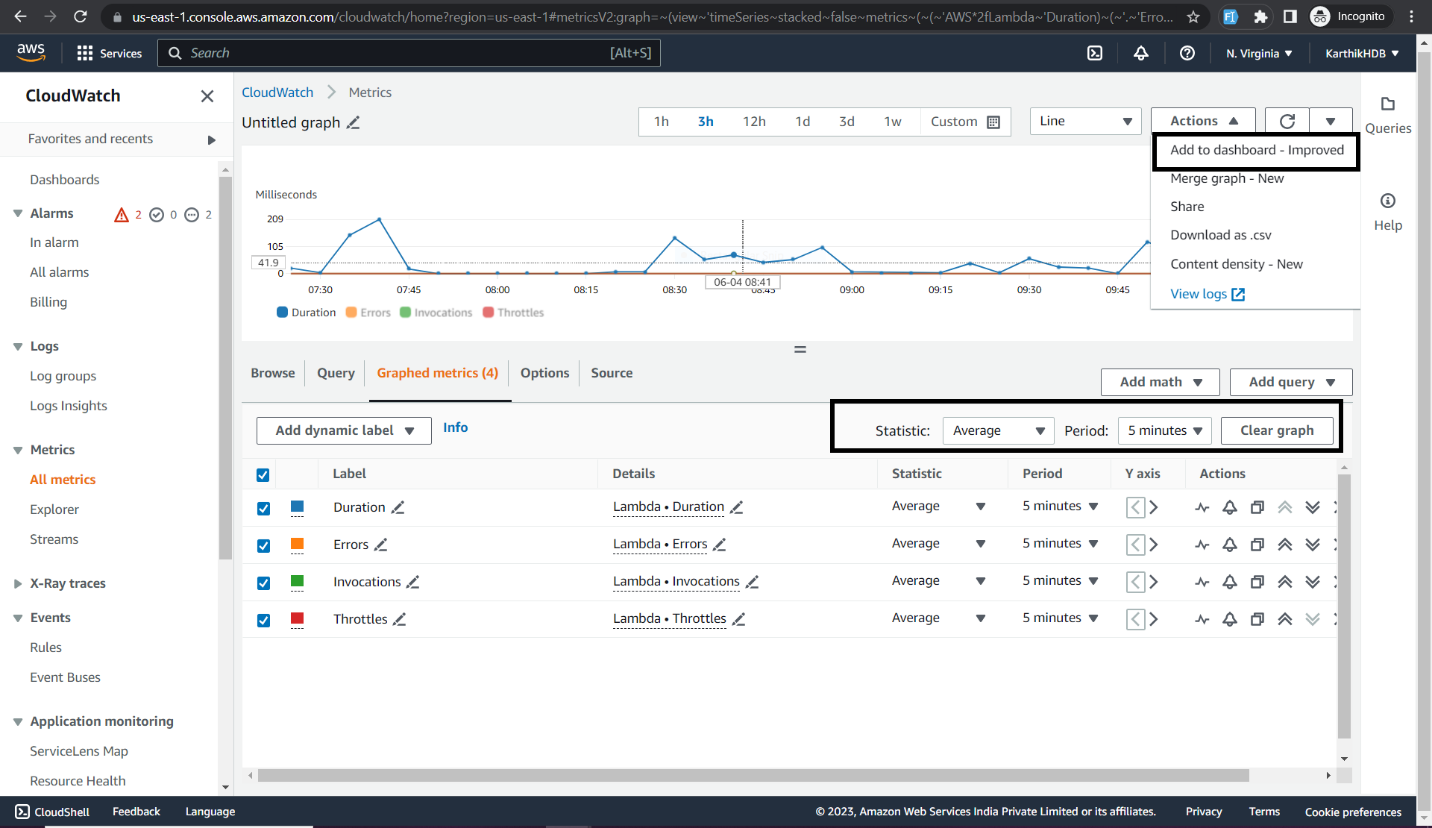
then you will get the following data in cloudwatch console



5.Monitor Lambda function performance with CloudWatch: Use CloudWatch to monitor the performance of your Lambda functions, such as memory usage, duration, and error rates.

A screenshot of a computer

Description automatically generated

A screenshot of a computer

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