

EXPERIMENT – 4

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B2

STEP 1: Enable Monitoring for EC2

● Creating Instance

The screenshot shows the AWS CloudFront interface with the URL `us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances`. The page is titled 'Launch an instance'. It includes sections for 'Name and tags', 'Application and OS Images (Amazon Machine Image)', and 'Summary'. The 'Summary' section shows 1 instance, the Software Image (AMI) as Amazon Linux 2023 AMI, and the Virtual server type as t2.micro. A tooltip for the Free tier provides details about usage limits. The 'Launch instance' button is visible.

This screenshot shows the same AWS CloudFront interface as above, but with more detailed configurations visible. The 't2.micro' instance type is selected, showing its family, generation, and various On-Demand and On-Demand Linux base pricing options. The 'Summary' section remains the same. The 'Key pair (login)' section is expanded, showing 'Mykeypair' as the key pair name. The 'Network settings' section is also expanded, showing network and subnet details, and a note about auto-assigning public IP. A tooltip for the Free tier is shown again. The 'Launch instance' button is present.

Practice - 4 Course Invitation - tc8424@srmist.edu.in Launch AWS Academy Learner Launch an instance | EC2 us-east-1 Verify it's you

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#LaunchInstances:

Firewall security groups

A security group is a set of firewall rules that control the traffic for your instance. Add rules to allow specific traffic to reach your instance.

Create security group Select existing security group

We'll create a new security group called 'launch-wizard-1' with the following rules:

- Allow SSH traffic from Anywhere 0.0.0.0/0
- Allow HTTPS traffic from the internet To set up an endpoint, for example when creating a web server
- Allow HTTP traffic from the internet To set up an endpoint, for example when creating a web server

⚠ Rules with source of 0.0.0.0/0 allow all IP addresses to access your instance. We recommend setting security group rules to allow access from known IP addresses only.

Configure storage Advanced

1x 8 GiB gp3 Root volume 3000 IOPS (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

Summary

Number of instances 1

Software Image (AMI) Amazon Linux 2023 AMI ami-0c614deef691cbfbf37

Virtual server type (instance type) t2.micro

Firewall (security group) New security group

Storage (volumes) 1 volume(s) - 8 GiB

Free tier: In your first year includes 750 hours of t2.micro (or t3.micro in the Regions in which t2.micro is unavailable) instance usage on free tier AMIs per month, 750 hours of public IPv4 address usage per month, 30 GiB of EBS storage, 2 million I/Os, 1 GB of snapshots, and 100 GB of bandwidth to the internet.

Cancel Launch instance Preview code

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Practice - 4 Course Invitation - tc8424@srmist.edu.in Launch AWS Academy Learner Instances | EC2 us-east-1 Verify it's you

us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:

Instances (1/1)

Last updated less than a minute ago

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone	Public IPv4 DNS	Private IP
CloudWatch-Test	i-0f1ddac956b066ce5	Running	t2.micro	Initializing	View alarms +	us-east-1d	ec2-44-204-23-189.co...	44.204.23.189

i-0f1ddac956b066ce5 (CloudWatch-Test)

Details Status and alarms Monitoring Security Networking Storage Tags

Instance summary

Instance ID	Public IPv4 address	Private IPv4 addresses
i-0f1ddac956b066ce5	44.204.23.189 open address	172.31.89.190
IPv6 address	Instance state	Public IPv4 DNS
-	Running	ec2-44-204-23-189.compute-1.amazonaws.com open address
Hostname type	Private IP DNS name (IPv4 only)	

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Instances

- Instances
- Instance Types
- Launch Templates
- Spot Requests
- Savings Plans
- Reserved Instances
- Dedicated Hosts
- Capacity Reservations

Images

- AMIs
- AMI Catalog

Elastic Block Store

- Volumes
- Snapshots
- Lifecycle Manager

Network & Security

- Security Groups
- Elastic IPs

CloudShell Feedback

```

ec2-user@ip-172-31-89-190:~ + - ×
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

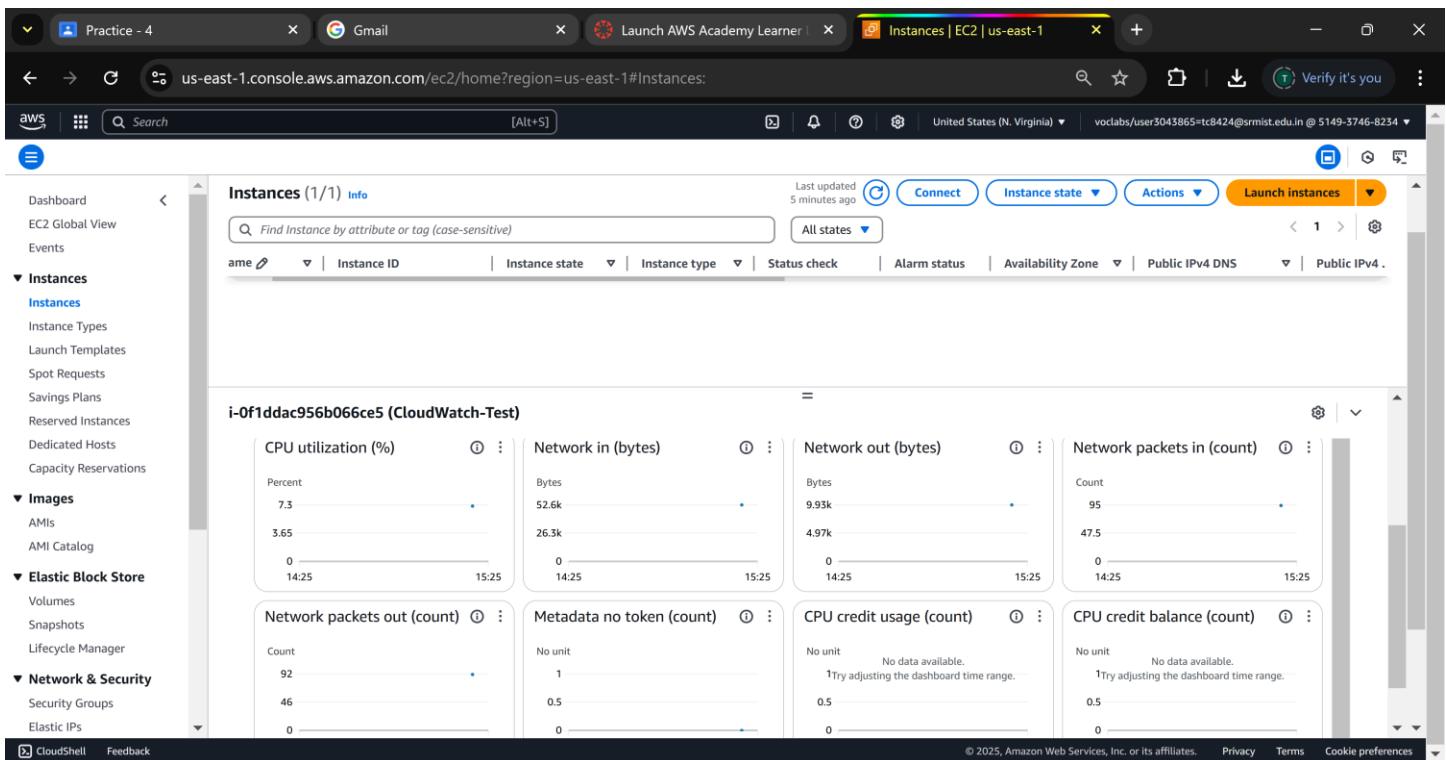
PS C:\Users\tharu> cd "C:\Users\tharu\Downloads"
PS C:\Users\tharu\Downloads> ssh -i "MyKeyPair.pem" ec2-user@44.204.23.189
The authenticity of host '44.204.23.189 (44.204.23.189)' can't be established.
ED25519 key fingerprint is SHA256:hdvji+Gaj6Uf/NI1Qi6R7oN8/6Wg2YVL4ZLAc7NAfA.
This key is not known by any other names.
Are you sure you want to continue connecting (yes/no/[fingerprint])? Yes
Warning: Permanently added '44.204.23.189' (ED25519) to the list of known hosts.

      #_
      ~\_ #####_      Amazon Linux 2023
      ~\_#####\_
      ~~ \###|_
      ~~ \#/ _--> https://aws.amazon.com/linux/amazon-linux-2023
      ~~ V~' _-->
      ~~~ / /
      ~~~ -.- / /
      ~~~ / / /
      _/m/'

[ec2-user@ip-172-31-89-190 ~]$ |

```

● Enable CloudWatch Monitoring for EC2



STEP 2: Create a CloudWatch Alarm

The screenshot shows the AWS CloudWatch Alarms page. The left sidebar includes sections for AI Operations, Logs, Metrics, X-Ray traces, Events, Application Signals, Network Monitoring, and Insights. The main content area displays a table titled "Alarms (0)" with columns for Name, State, Last state update (UTC), Conditions, and Actions. A search bar at the top allows filtering by Name, State, Last state update, Conditions, and Actions status. A prominent blue button labeled "Create alarm" is located in the top right corner.

The screenshot shows the "Select metric" page for creating a new alarm. It features a graph titled "Untitled graph" showing CPUUtilization over time. Below the graph is a table listing various metrics from "CloudWatch-Test" with their corresponding ARN and source. The "CPUUtilization" metric is selected, indicated by a checked checkbox. At the bottom right, there are "Cancel" and "Select metric" buttons.

Browse	Multi source query	Graphed metrics (1)	Options	Source
<input type="checkbox"/> CloudWatch-Test	i-0f1ddac956b066...	NetworkPacketsIn ⓘ		No alarms
<input type="checkbox"/> CloudWatch-Test	i-0f1ddac956b066...	NetworkPacketsOut ⓘ		No alarms
<input type="checkbox"/> CloudWatch-Test	i-0f1ddac956b066...	NetworkOut ⓘ		No alarms
<input type="checkbox"/> CloudWatch-Test	i-0f1ddac956b066...	NetworkIn ⓘ		No alarms
<input type="checkbox"/> CloudWatch-Test	i-0f1ddac956b066...	StatusCheckFailed ⓘ		No alarms
<input type="checkbox"/> CloudWatch-Test	i-0f1ddac956b066...	StatusCheckFailed_System ⓘ		No alarms
<input type="checkbox"/> CloudWatch-Test	i-0f1ddac956b066...	StatusCheckFailed_Instance ⓘ		No alarms
<input checked="" type="checkbox"/> CloudWatch-Test	i-0f1ddac956b066...	CPUUtilization ⓘ		No alarms

Rate your experience with this CloudWatch console. ⭐ ⭐ ⭐ ⭐ ⭐

CloudWatch Alarms Create alarm

Specify metric and conditions

Step 2 Configure actions Step 3 Add name and description Step 4 Preview and create

Metric

Graph
This alarm will trigger when the blue line goes above the red line for 1 datapoints within 5 minutes.

Percent

70

36.8

3.68

12:30 13:00 13:30 14:00 14:30 15:00 15:30

CPUUtilization

Namespace AWS/EC2

Metric name CPUUtilization

InstanceId i-0f1ddac956b066ce5

Instance name CloudWatch-Test

Statistic Average

Period 5 minutes

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Rate your experience with this CloudWatch console. ⭐ ⭐ ⭐ ⭐ ⭐

CloudWatch Alarms Create alarm

Conditions

Threshold type

Static Use a value as a threshold

Anomaly detection Use a band as a threshold

Whenever CPUUtilization is...
Define the alarm condition.

Greater > threshold

Greater/Equal >= threshold

Lower/Equal <= threshold

Lower < threshold

than...
Define the threshold value.

70

Must be a number

► Additional configuration

Cancel Next

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Rate your experience with this CloudWatch console. ⭐ ⭐ ⭐ ⭐ ⭐

CloudWatch Alarms Create alarm

Step 1 Specify metric and conditions
Step 2 Configure actions **Configure actions**
Step 3 Add name and description
Step 4 Preview and create

Configure actions

Notification

Alarm state trigger Define the alarm state that will trigger this action.

In alarm The metric or expression is outside of the defined threshold.

OK The metric or expression is within the defined threshold.

Insufficient data The alarm has just started or not enough data is available. [Remove](#)

Send a notification to the following SNS topic Define the SNS (Simple Notification Service) topic that will receive the notification.

Select an existing SNS topic
 Create new topic
 Use topic ARN to notify other accounts

Send a notification to... [X](#)

Only topics belonging to this account are listed here. All persons and applications subscribed to the selected topic will receive notifications.

Email (endpoints)
tc8424@srmist.edu.in - [View in SNS Console](#)

[Add notification](#)

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Rate your experience with this CloudWatch console. ⭐ ⭐ ⭐ ⭐ ⭐

CloudWatch Alarms Create alarm

① Alarm recommendations available Turn on Recommendations to pre-populate the wizard with the recommended alarms.

Step 1 Specify metric and conditions
Step 2 Configure actions
② Add name and description **Add name and description**
Step 3
Step 4 Preview and create

Add name and description

Name and description

Alarm name

Alarm description - optional [View formatting guidelines](#)

[Edit](#) [Preview](#)

This is an H1
double asterisks will produce strong character
This is [an example](https://example.com/) inline link.

Up to 1024 characters (0/1024)

Markdown formatting is only applied when viewing your alarm in the console. The description will remain in plain text in the alarm notifications.

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Rate your experience with this CloudWatch console. ⭐ ⭐ ⭐ ⭐ ⭐

CloudWatch Alarms Create alarm

Step 1 Specify metric and conditions Step 2 Configure actions Step 3 Add name and description Step 4 Preview and create

Preview and create

Step 1: Specify metric and conditions

Metric

Graph
This alarm will trigger when the blue line goes above the red line for 1 datapoints within 5 minutes.

Percent

70

36.8

3.68

13:00 13:30 14:00 14:30 15:00 15:30

CPUUtilization

Namespace AWS/EC2
Metric name CPUUtilization
InstanceId i-0f1ddac956b066ce5
Instance name CloudWatch-Test
Statistic Average
Period 5 minutes

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Rate your experience with this CloudWatch console. ⭐ ⭐ ⭐ ⭐ ⭐

CloudWatch Alarms CloudWatch | us-east-1

CloudWatch Alarms (0)

Successfully created alarm High-CPU-Usage. View alarm

Hide Auto Scaling alarms Clear selection Create composite alarm Actions Create alarm

Search Alarm state: In alarm Alarm type: Any Actions status: Any

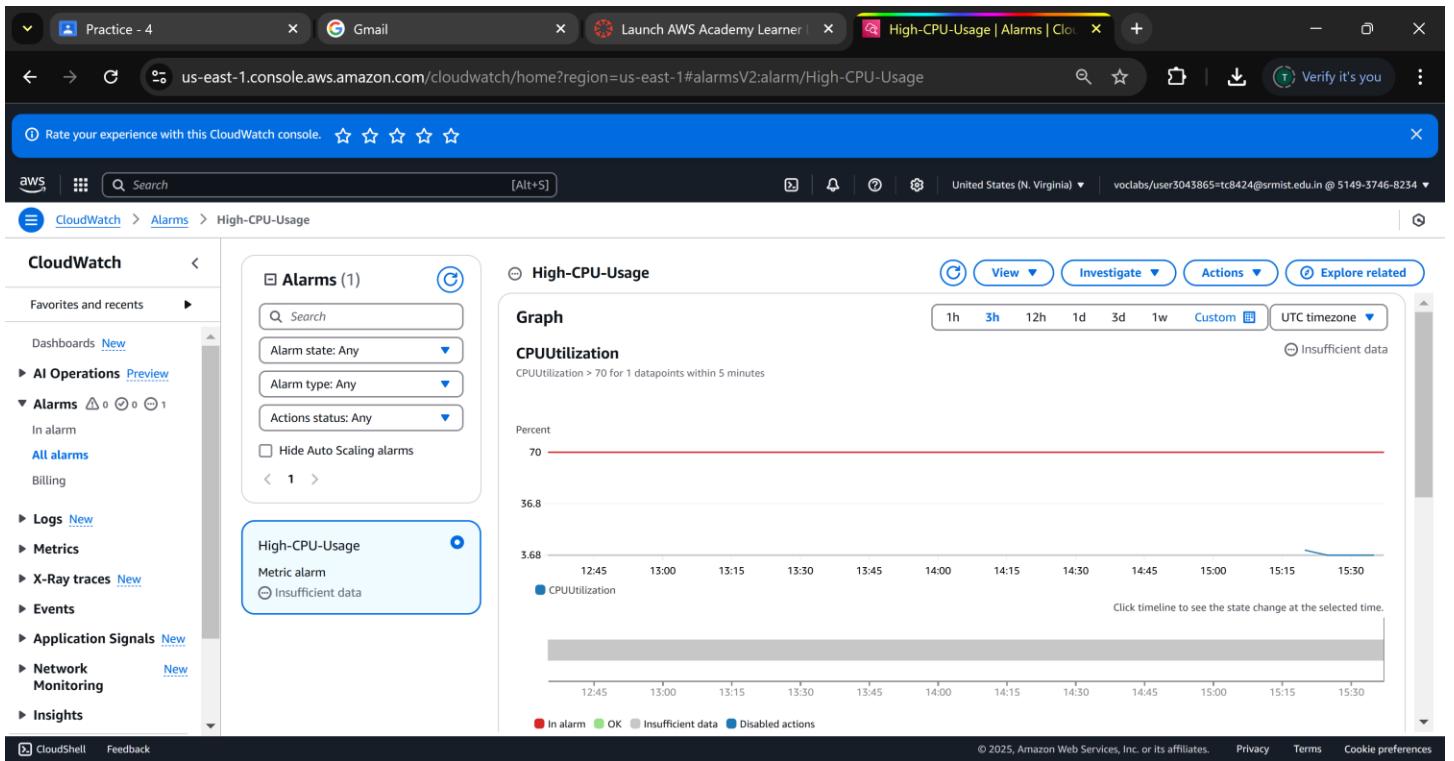
Name State Last state update (UTC) Conditions Actions

No alarms
No alarms to display

Read more about Alarms Create alarm

Favorites and recents Dashboards New AI Operations Preview Alarms 0 1 In alarm All alarms Billing Logs New Metrics X-Ray traces New Events Application Signals New Network Monitoring Insights

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STEP 3: Analyze Logs

```
ec2-user@ip-172-31-89-190:~ % Last login: Wed Jan 29 15:26:35 2025 from 27.68.173.180
[ec2-user@ip-172-31-89-190 ~]$ sudo yum install amazon-cloudwatch-agent -y
Last metadata expiration check: 0:14:47 ago on Wed Jan 29 15:24:01 2025.
Dependencies resolved.
=====
Package          Arch    Version      Repository  Size
=====
Installing:
amazon-cloudwatch-agent.x86_64 1.300044.0-1.amzn2023 amazonlinux 135 M

Transaction Summary
=====
Install 1 Package

Total download size: 135 M
Installed size: 445 M
Downloading Packages:
amazon-cloudwatch-agent-1.300044.0-1.amzn2023.x86_64
Total          69 MB/s | 135 MB  00:01
Running transaction check
Transaction check succeeded.
Running transaction test
Transaction test succeeded.
Running transaction
Preparing : 1/1
Running scriptlet: amazon-cloudwatch-agent-1.300044.0-1 1/1
create group cwagent, result: 0
create user cwagent, result: 0

Installing   : amazon-cloudwatch-agent-1.300044.0-1.amzn2023.x86_64
Running scriptlet: amazon-cloudwatch-agent-1.300044.0-1.amzn2023.x86_64
Verifying   : amazon-cloudwatch-agent-1.300044.0-1.amzn2023.x86_64
1/1
1/1
1/1

Installed:
amazon-cloudwatch-agent-1.300044.0-1.amzn2023.x86_64

Complete!
[ec2-user@ip-172-31-89-190 ~]$ |
```

```
Complete!
[ec2-user@ip-172-31-89-190 ~]$ sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-config-wizard
=====
= Welcome to the Amazon CloudWatch Agent Configuration Manager =
= 
= CloudWatch Agent allows you to collect metrics and logs from =
= your host and send them to CloudWatch. Additional CloudWatch =
= charges may apply.
=====

On which OS are you planning to use the agent?
1. Linux
2. windows
3. darwin
default choice: [1]:
2
Trying to fetch the default region based on ec2 metadata...
1! imds retry client will retry 1 timesAre you using EC2 or On-Premises hosts?
1. EC2
2. On-Premises
default choice: [1]:
1
Do you want to turn on StatsD daemon?
1. yes
2. no
default choice: [1]:
1
which port do you want StatsD daemon to listen to?
default choice: [8125]

What is the collect interval for StatsD daemon?
1. 10s
2. 30s
3. 60s
default choice: [1]:
1
What is the aggregation interval for metrics collected by StatsD daemon?
1. Do not aggregate
2. 10s
3. 30s
4. 60s
default choice: [4]:
4
Do you have any existing CloudWatch Log Agent configuration file to import for migration?
1. yes
2. no
default choice: [2]:
2
Do you want to monitor any host metrics? e.g. CPU, memory, etc.
1. yes
2. no
default choice: [1]:
1
Do you want to monitor cpu metrics per core?
1. yes
2. no
```

```
default choice: [1]:
1
Do you want to add ec2 dimensions (ImageId, InstanceId, InstanceType, AutoScalingGroupName) into all of your metrics if the info is available?
1. yes
2. no
default choice: [1]:
1
Do you want to aggregate ec2 dimensions (InstanceId)?
1. yes
2. no
default choice: [1]:
1
Would you like to collect your metrics at high resolution (sub-minute resolution)? This enables sub-minute resolution for all metrics, but you can customize for specific metrics in the output json file.
1. 1s
2. 10s
3. 30s
4. 60s
default choice: [4]:
4
Which default metrics config do you want?
1. Basic
2. Standard
3. Advanced
4. None
default choice: [1]:
2
Current config as follows:
{
    "metrics": {
        "aggregation_dimensions": [
            "InstanceId"
        ]
    },
    "append_dimensions": {
        "AutoScalingGroupName": "${aws:AutoScalingGroupName}",
        "ImageId": "${aws:ImageId}",
        "InstanceId": "${aws:InstanceId}",
        "InstanceType": "${aws:InstanceType}"
    },
    "metrics_collected": {
        "LogicalDisk": {
            "measurement": [
                "% Free Space"
            ],
            "metrics_collection_interval": 60,
            "resources": [
                "*"
            ]
        },
        "Memory": {
            "measurement": [
                "% Committed Bytes In Use"
            ],
            "metrics_collection_interval": 60
        }
    }
},
```

```
ec2-user@ip-172-31-89-190:~ - + v
        "metrics_collection_interval": 60
    },
    "Paging File": {
        "measurement": [
            "% Usage"
        ],
        "metrics_collection_interval": 60,
        "resources": [
            "*"
        ]
    },
    "PhysicalDisk": {
        "measurement": [
            "% Disk Time"
        ],
        "metrics_collection_interval": 60,
        "resources": [
            "*"
        ]
    },
    "Processor": {
        "measurement": [
            "% User Time",
            "% Idle Time",
            "% Interrupt Time"
        ],
        "metrics_collection_interval": 60,
        "resources": [
            "*"
        ]
    },
    "statsd": {
        "metrics_aggregation_interval": 60,
        "metrics_collection_interval": 10,
        "service_address": ":8125"
    }
}
}

Are you satisfied with the above config? Note: it can be manually customized after the wizard completes to add additional items.
1. yes
2. no
default choice: [1]:
1

Do you want to monitor any customized log files?
1. yes
2. no
default choice: [1]:
1

Log file path:
/var/log/messages
Log group name:
default choice: [messages]
Log group class:
1. STANDARD
```

```
ec2-user@ip-172-31-89-190:~ - + v
Log group class:
1. STANDARD
2. INFREQUENT_ACCESS
default choice: [1]:
1

Log stream name:
default choice: [{instance_id}]

Log Group Retention in days
1. -1
2. 1
3. 3
4. 5
5. 7
6. 14
7. 30
8. 60
9. 90
10. 120
11. 150
12. 180
13. 365
14. 400
15. 545
16. 731
17. 1096
18. 1827
19. 2192
20. 2557
21. 2922
22. 3288
23. 3653
default choice: [1]:
1

Do you want to specify any additional log files to monitor?
1. yes
2. no
default choice: [1]:
1

Log file path:
/var/log/secure
Log group name:
default choice: [secure]

Log group class:
1. STANDARD
2. INFREQUENT_ACCESS
default choice: [1]:
1

Log stream name:
default choice: [{instance_id}]

Log Group Retention in days
1. -1
2. 1
3. 3
```

```
ec2-user@ip-172-31-89-190:~ + v - □ ×
4. 5
5. 7
6. 14
7. 38
8. 68
9. 98
10. 120
11. 150
12. 180
13. 365
14. 480
15. 565
16. 731
17. 1096
18. 1827
19. 2192
20. 2557
21. 2922
22. 3288
23. 3653
default choice: [1]:
1:
Do you want to specify any additional log files to monitor?
1. yes
2. no
default choice: [1]:
2:
Do you want to monitor any Windows event log?
1. yes
2. no
default choice: [1]:
2:
Do you want the CloudWatch agent to also retrieve X-ray traces?
1. yes
2. no
default choice: [1]:
2:
Existing config JSON identified and copied to: /opt/aws/amazon-cloudwatch-agent/etc/backup-configs
Saved config file to /opt/aws/amazon-cloudwatch-agent/bin/config.json successfully.
Current config as follows:
{
    "logs": {
        "logs_collected": {
            "files": {
                "collect_list": [
                    {
                        "file_path": "/var/log/messages",
                        "log_group_class": "STANDARD",
                        "log_group_name": "messages",
                        "log_stream_name": "{instance_id}",
                        "retention_in_days": -1
                    },
                    {
                        "file_path": "/var/log/secure",
                        "log_group_class": "STANDARD",
                        "log_group_name": "secure",
                        "log_stream_name": "{instance_id}",
                        "retention_in_days": -1
                    }
                ]
            }
        }
    },
    "metrics": {
        "aggregation_dimensions": [
            [
                "InstanceId"
            ]
        ],
        "append_dimensions": {
            "AutoScalingGroupName": "${aws:AutoScalingGroupName}",
            "ImageId": "${aws:ImageId}",
            "InstanceId": "${aws:InstanceId}",
            "InstanceType": "${aws:InstanceType}"
        },
        "metrics_collected": {
            "LogicalDisk": {
                "measurement": [
                    "% Free Space"
                ],
                "metrics_collection_interval": 60,
                "resources": [
                    "*"
                ]
            },
            "Memory": {
                "measurement": [
                    "% Committed Bytes In Use"
                ],
                "metrics_collection_interval": 60
            },
            "Paging File": {
                "measurement": [
                    "% Usage"
                ],
                "metrics_collection_interval": 60,
                "resources": [
                    "*"
                ]
            },
            "PhysicalDisk": {
                "measurement": [
                    "% Disk Time"
                ],
                "metrics_collection_interval": 60,
                "resources": [
                    "*"
                ]
            }
        }
    }
}
```

```
ec2-user@ip-172-31-89-190:~ + v - □ ×
},
{
    "file_path": "/var/log/secure",
    "log_group_class": "STANDARD",
    "log_group_name": "secure",
    "log_stream_name": "{instance_id}",
    "retention_in_days": -1
}
]
}
},
{
    "metrics": {
        "aggregation_dimensions": [
            [
                "InstanceId"
            ]
        ],
        "append_dimensions": {
            "AutoScalingGroupName": "${aws:AutoScalingGroupName}",
            "ImageId": "${aws:ImageId}",
            "InstanceId": "${aws:InstanceId}",
            "InstanceType": "${aws:InstanceType}"
        },
        "metrics_collected": {
            "LogicalDisk": {
                "measurement": [
                    "% Free Space"
                ],
                "metrics_collection_interval": 60,
                "resources": [
                    "*"
                ]
            },
            "Memory": {
                "measurement": [
                    "% Committed Bytes In Use"
                ],
                "metrics_collection_interval": 60
            },
            "Paging File": {
                "measurement": [
                    "% Usage"
                ],
                "metrics_collection_interval": 60,
                "resources": [
                    "*"
                ]
            },
            "PhysicalDisk": {
                "measurement": [
                    "% Disk Time"
                ],
                "metrics_collection_interval": 60,
                "resources": [
                    "*"
                ]
            }
        }
    }
}
```

```

        "measurement": [
            "% User Time",
            "% Idle Time",
            "% Interrupt Time"
        ],
        "metrics_collection_interval": 60,
        "resources": [
            "*"
        ]
    },
    "statsd": {
        "metrics_aggregation_interval": 60,
        "metrics_collection_interval": 10,
        "service_address": ":8125"
    }
}
}

Please check the above content of the config.
The config file is also located at /opt/aws/amazon-cloudwatch-agent/bin/config.json.
Edit it manually if needed.
Do you want to store the config in the SSM parameter store?
1. yes
2. no
default choice: [1]:
2
Program exits now.
[ec2-user@ip-172-31-89-190 ~]$ sudo systemctl start amazon-cloudwatch-agent
[ec2-user@ip-172-31-89-190 ~]$ |

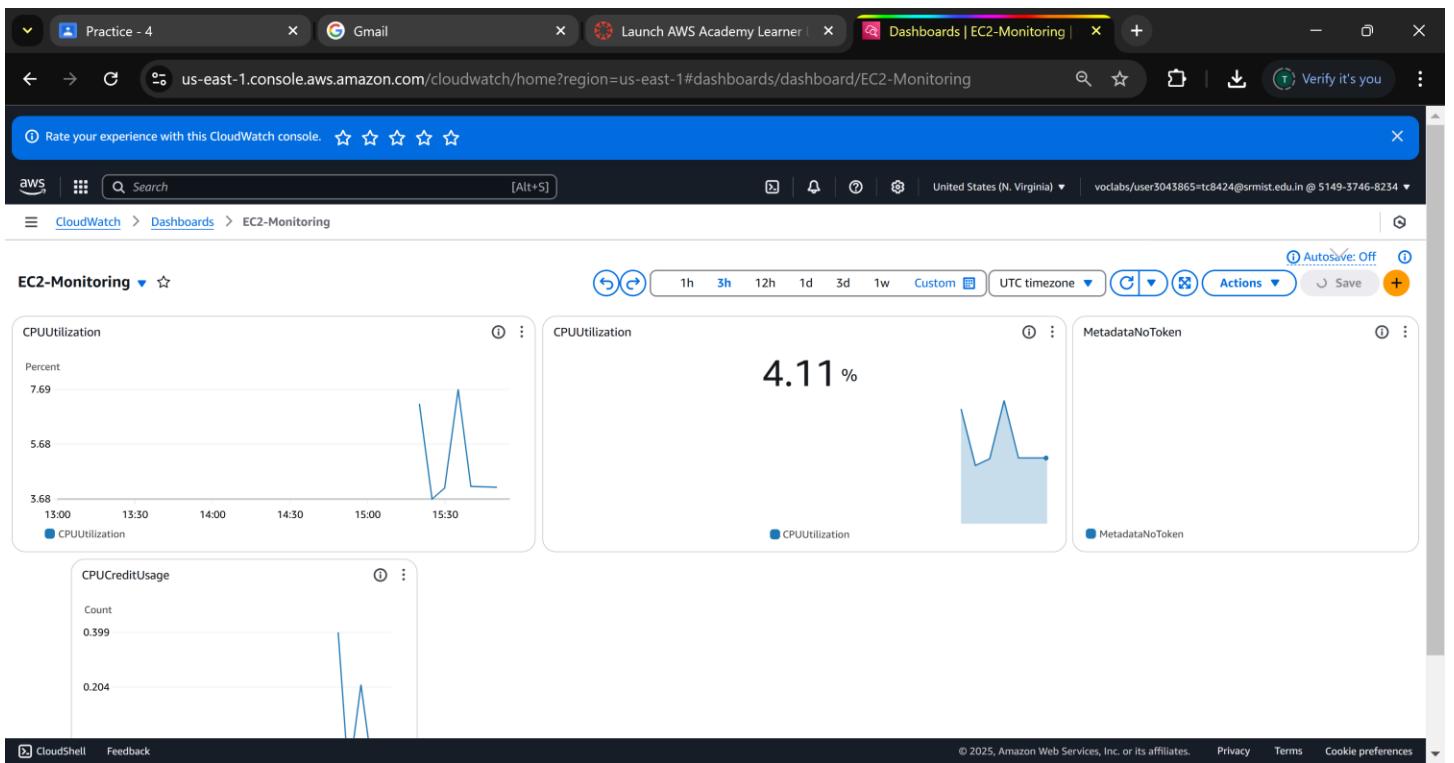
```

The screenshot shows the AWS CloudWatch Logs console interface. On the left, there's a navigation sidebar with sections for CloudWatch, AI Operations, Alarms, Metrics, and X-Ray traces. Under the 'Logs' section, 'Log groups' is selected, showing a list of three log groups: '/aws/lambda/RedshiftEventSubscription', '/aws/lambda/RedshiftOverwatch', and '/aws/lambda/RoleCreationFunction'. Each log group entry includes a 'Configure' button, an 'Actions' dropdown, a 'View in Logs Insights' button, a 'Start tailing' button, and a 'Create log group' button. The main content area displays the log entries for each group. At the bottom, there are links for CloudShell, Feedback, and a footer with copyright information.

STEP 4: Create a CloudWatch Dashboard

The screenshot shows the AWS CloudWatch console with the URL <https://us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#dashboards/dashboard/EC2-Monitoring>. A modal window titled "Add widget" is open, displaying the "Widget Configuration" section. Under "Data type", the "Metrics" tab is selected. Under "Widget type", the "Line" option is selected, showing a preview of a line chart. Other options include Data table, Number, Gauge, Stacked area, Bar, Pie, and Explorer. At the bottom right of the modal are "Cancel" and "Next" buttons.

The screenshot shows the AWS CloudWatch console with the same URL as the previous screenshot. A modal window titled "Add metric graph" is open, showing a line graph for CPUUtilization over time. The graph has data points at 7.69, 5.68, and 3.68. Below the graph, a table lists "Graphed metrics (1)" with one item selected: "CloudWatch-Test i-0f1ddac956b066 CPUUtilization". A tooltip explains that persisting the time range will keep it independent from the global dashboard time range picker. At the bottom right of the modal are "Cancel" and "Create widget" buttons.



STEP 5: Cleanup

