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(Deemed to be University under section 3 of UGC Act, 1956)

SCOPE

FALL SEMESTER 2025-2026

LAB ASSESSMENT -5

Slot: L13+L14

Class: VL2025260105679

Programme Name & Branch: B. Tech CSBS

Course code & Title: CBS3005- CLOUD, MICROSERVICES AND APPLICATIONS LAB BASED COMPONENTS

Faculty Name: NITHYA K

SUBMITTED BY: -DIPANGSHU KUNDU

REGISTRATION NUMBER: - 22BBS0148

QUESTION:

VIT
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(Deemed to be University under section 3 of UGC Act, 1956)

School of Computer Science and Engineering
(SCOPE)
Fall Semester 2025-26
CBS3005 - Cloud, Microservices and Applications

LAB ASSESSMENT 5

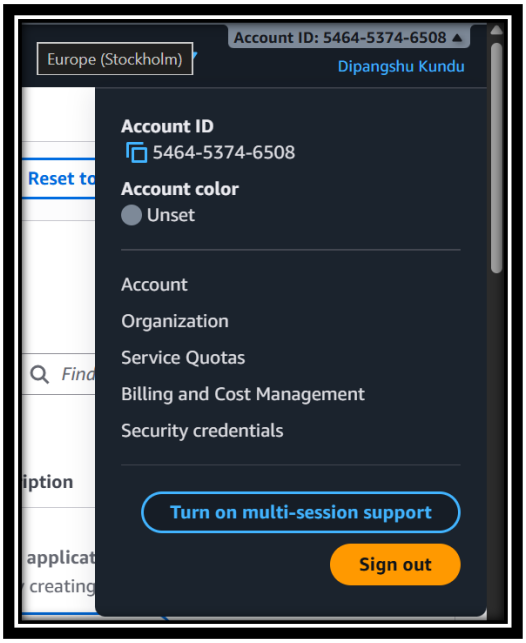
Task 2: Analyze API Activities using AWS CloudTrail

Description:
Enable AWS CloudTrail to monitor and log all API activities in the AWS account. Also, analyze events to detect unauthorized or unusual access.

Steps:
1. Go to CloudTrail Console → Trails → Create Trail.
2. Choose:
   - Trail name: MySecurityTrail
   - Apply trail to All regions
   - Store logs in a new S3 bucket
   - Enable CloudWatch Logs Integration (optional).
3. Perform a few activities in your AWS account:
   - Launch or stop an EC2 instance.
   - Create an S3 bucket.
4. Return to CloudTrail → Event History and view recent events.
5. Identify:
   - Who performed the action (IAM user or role)
   - Time of action
   - Source IP address
   - Affected resource

Expected Output:
- Screenshot of CloudTrail event list.
- Sample JSON event record for one operation.
- Short explanation of how CloudTrail supports auditing and incident investigation.

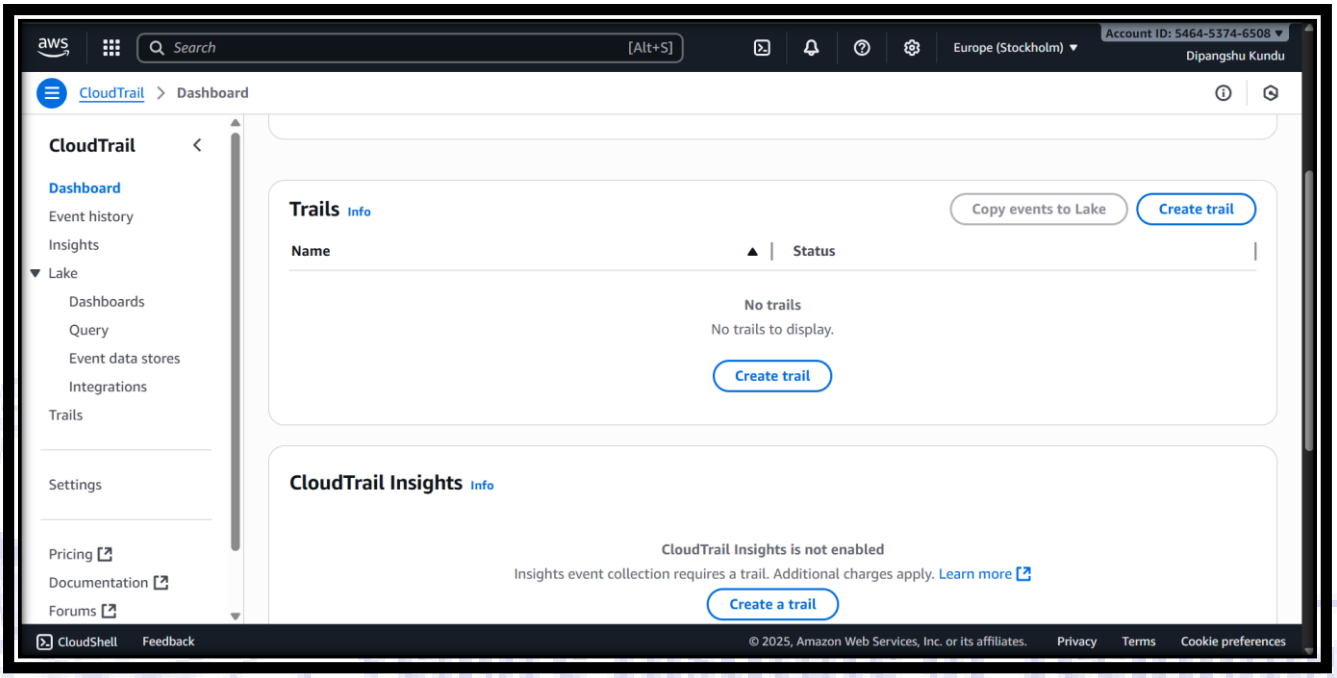
SOLUTION: -

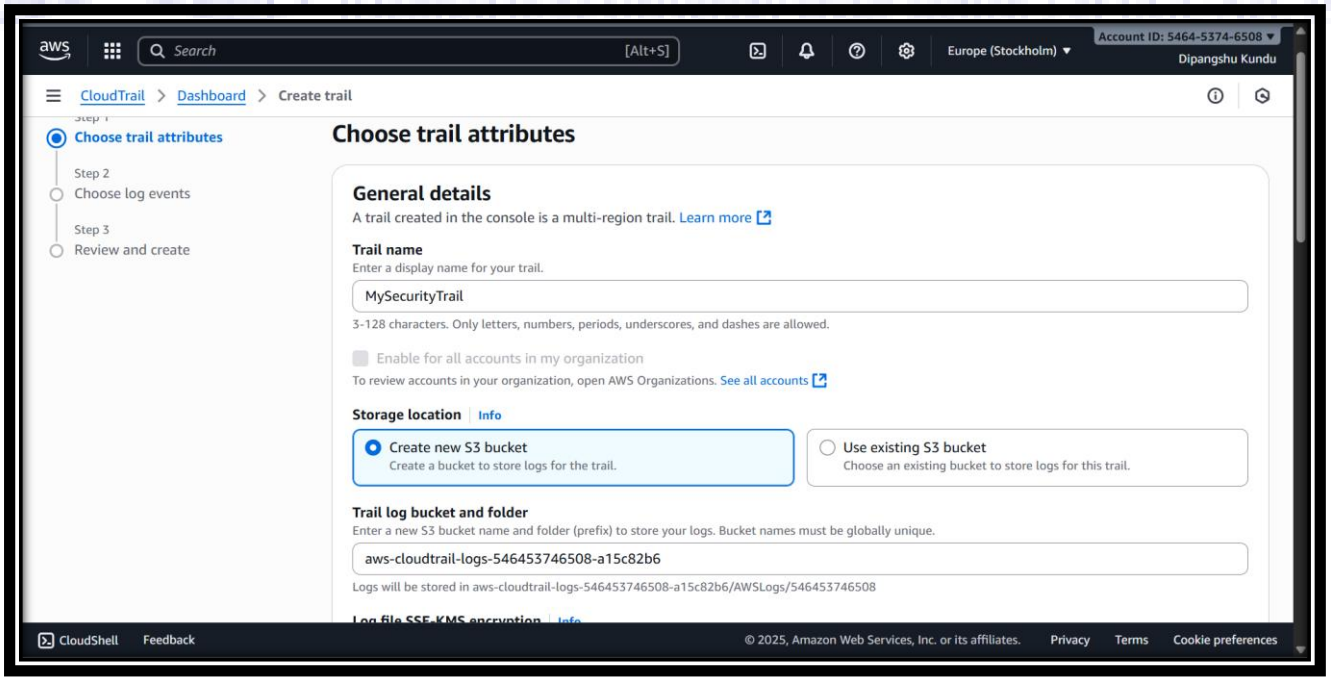


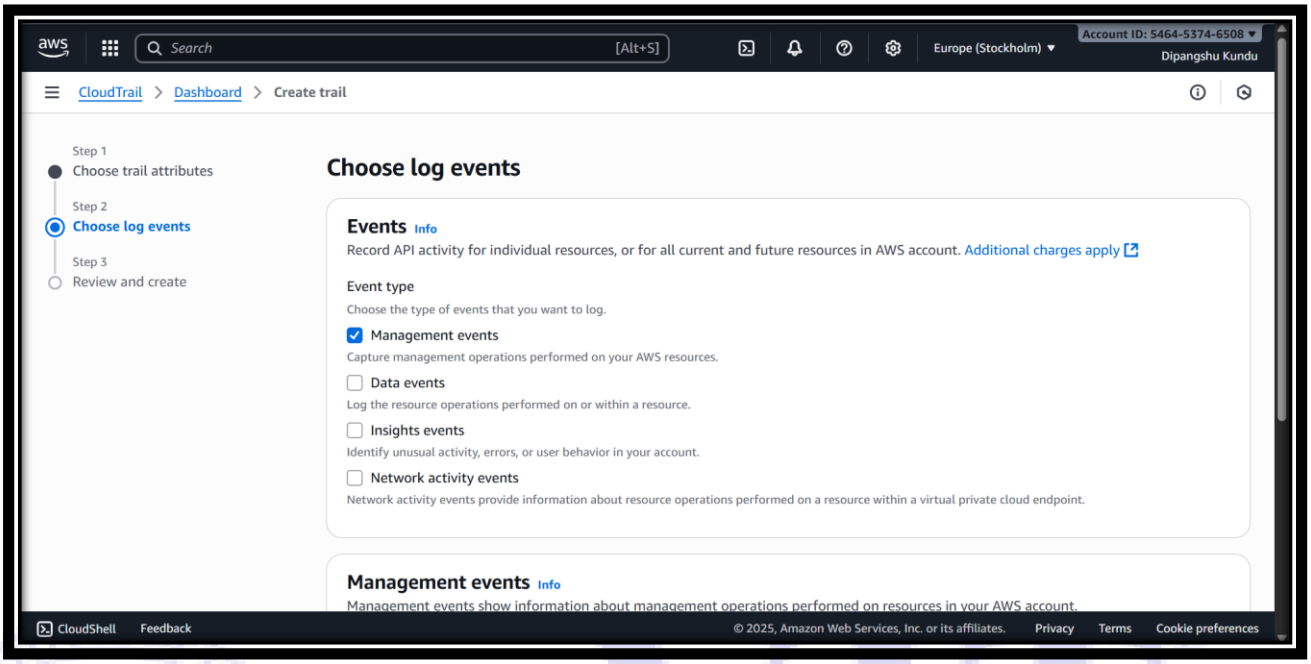
STEP 1: -

Go to CloudTrail Console → Trails → Create Trail
Choose:

- **Trail name: MySecurityTrail**
- **Apply trail to All regions o Store logs in a new S3 bucket**
- **Enable CloudWatch Logs Integration (optional).**






aws
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Account ID: 5464-5374-6508
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CloudTrail > Dashboard > Create trail
Step 1
Choose trail attributes
Step 2
Choose log events
Step 3
Review and create
Choose log events
Events Info
Record API activity for individual resources, or for all current and future resources in AWS account. Additional charges apply
Event type
Choose the type of events that you want to log.
Management events
Capture management operations performed on your AWS resources.
Data events
Log the resource operations performed on or within a resource.
Insights events
Identify unusual activity, errors, or user behavior in your account.
Network activity events
Network activity events provide information about resource operations performed on a resource within a virtual private cloud endpoint.
Management events Info
Management events show information about management operations performed on resources in your AWS account.
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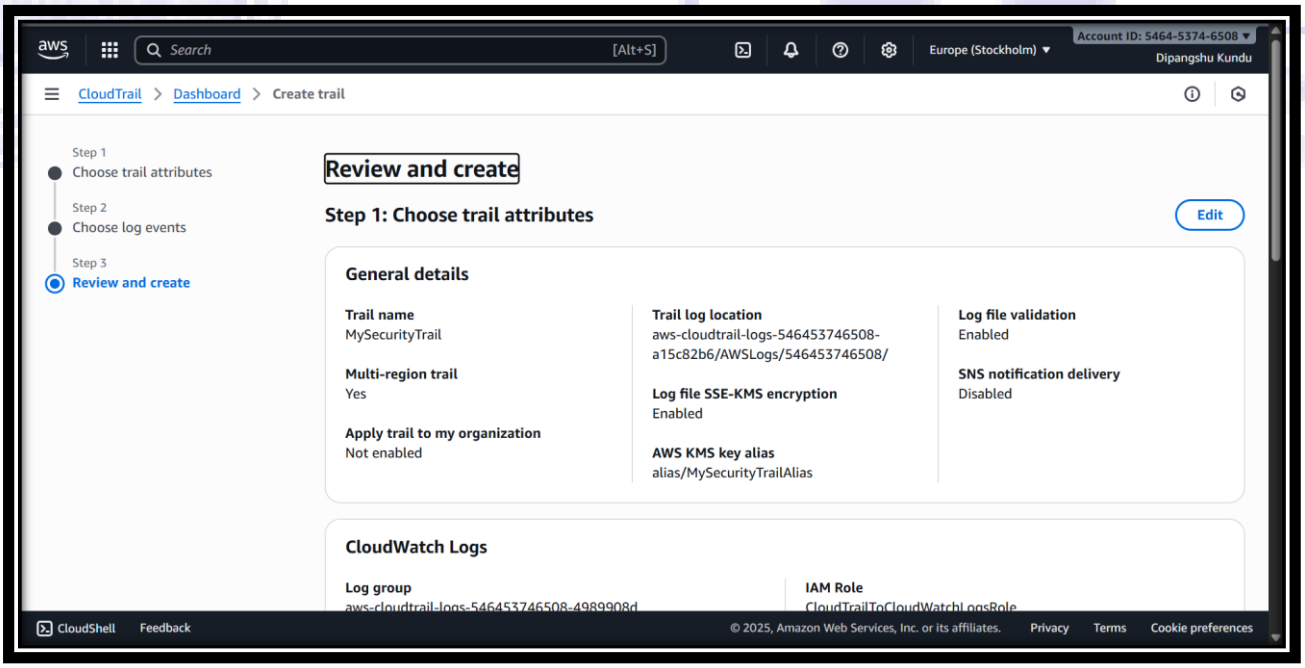
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Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
CloudTrail > Dashboard > Create trail
Step 1
Choose trail attributes
Step 2
Choose log events
Step 3
Review and create
Review and create
Step 1: Choose trail attributes
Edit
General details
Trail name
MySecurityTrail
Multi-region trail
Yes
Apply trail to my organization
Not enabled
Trail log location
aws-cloudtrail-logs-546453746508-a15c82b6/AWSLogs/546453746508/
Log file SSE-KMS encryption
Enabled
AWS KMS key alias
alias/MySecurityTrailAlias
Log file validation
Enabled
SNS notification delivery
Disabled
CloudWatch Logs
Log group
IAM Role
CloudShell
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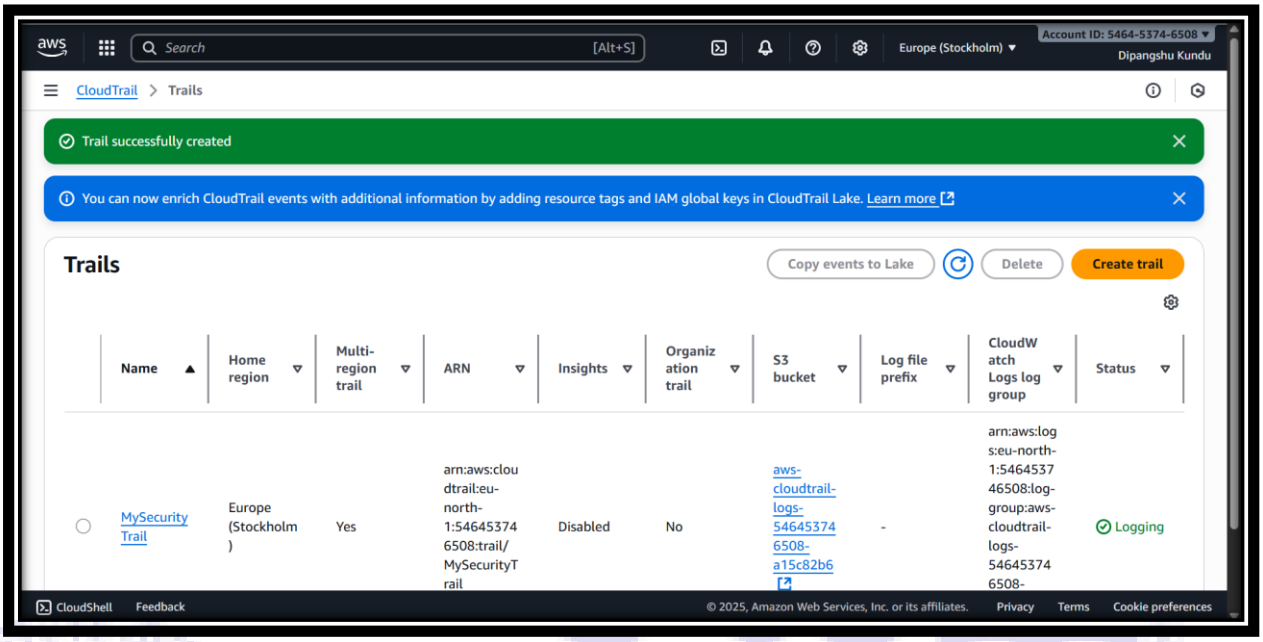
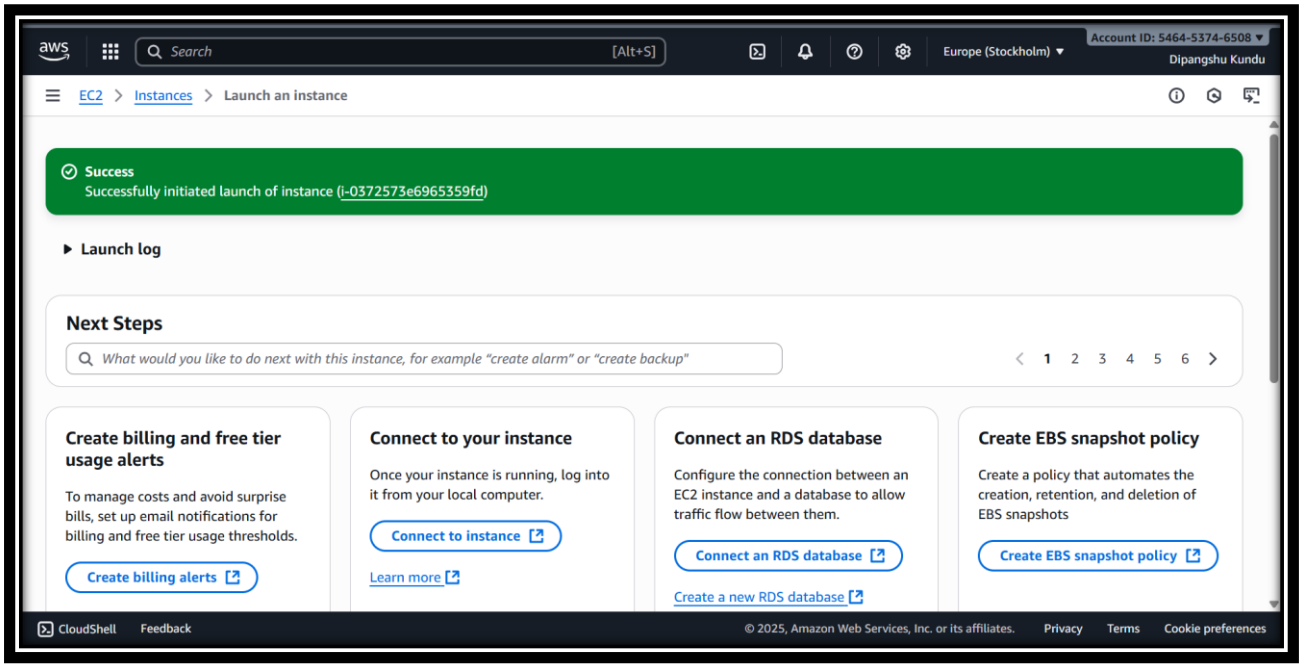
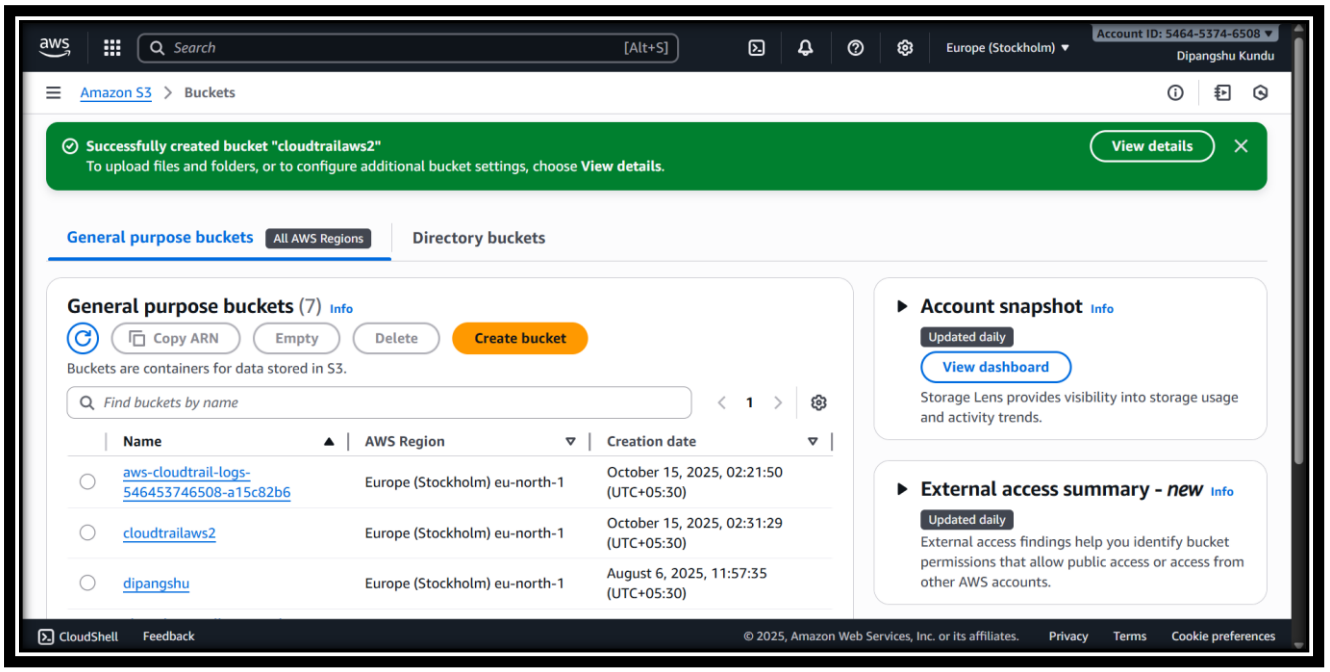


STEP 2: -

Perform a few activities in your AWS account:

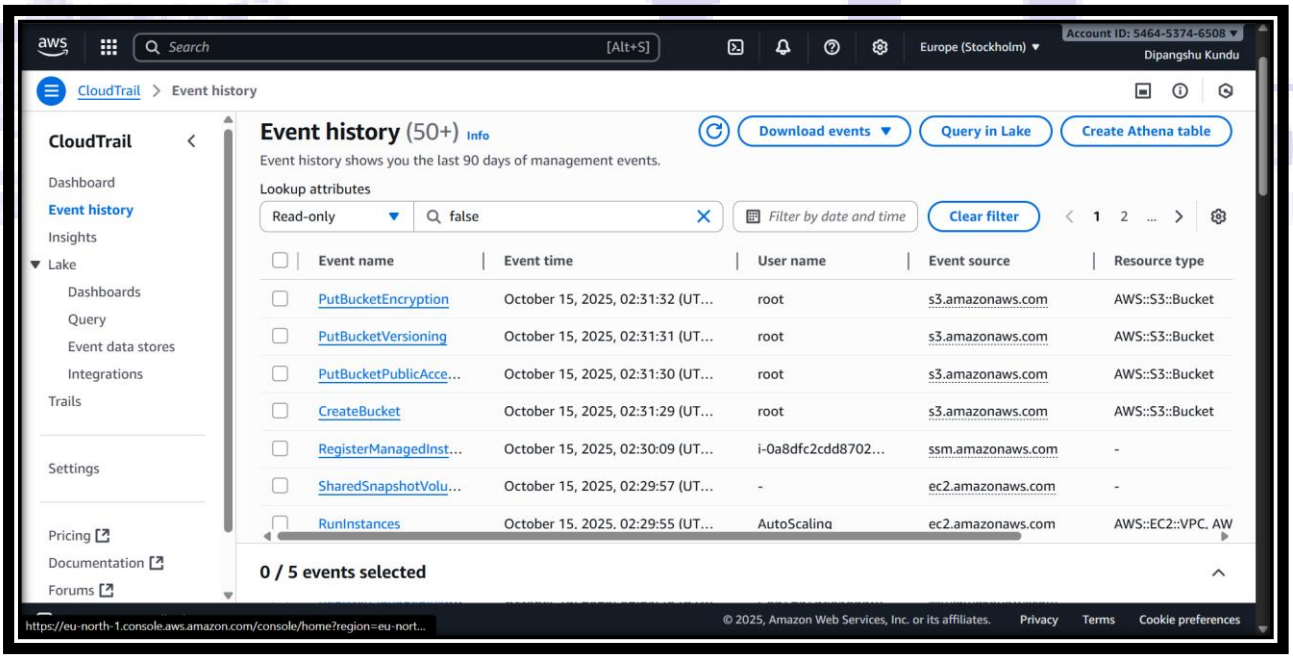
- Launch or stop an EC2 instance.
- Create an S3 bucket.

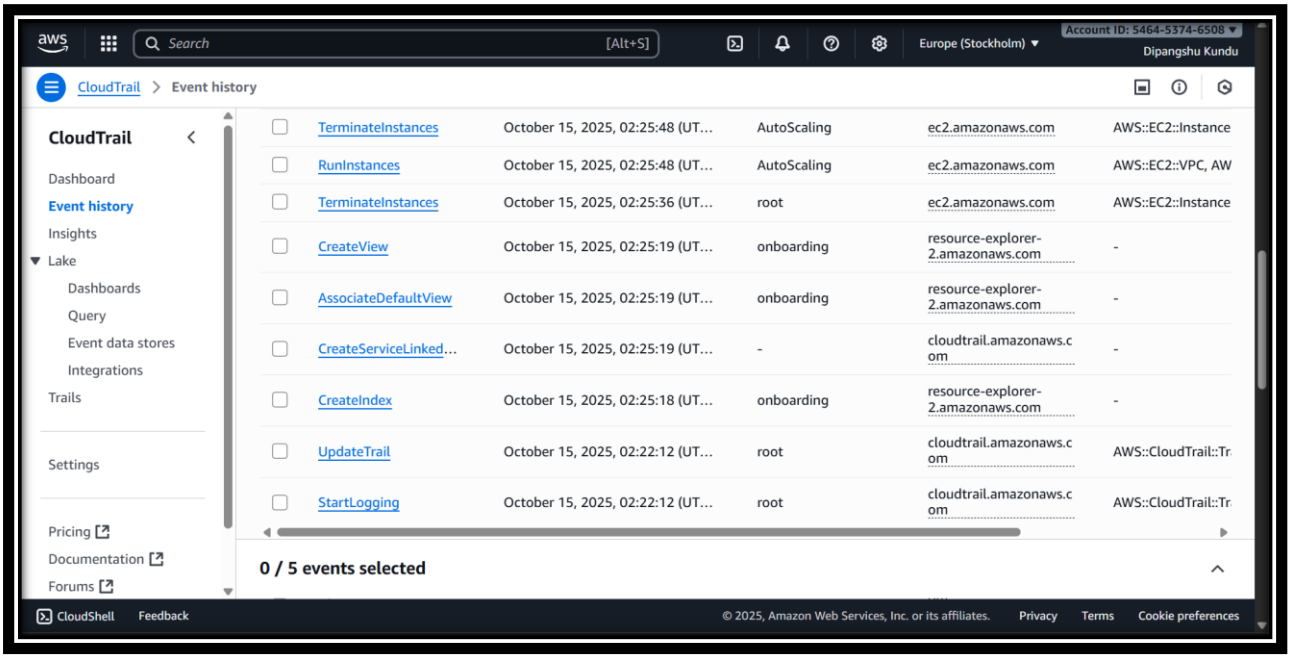




STEP 3: -

- Go back to **CloudTrail**.
- Click **Event history** on the left menu.
- We will now see a list of **recent events** from our account.





STEP 4: -

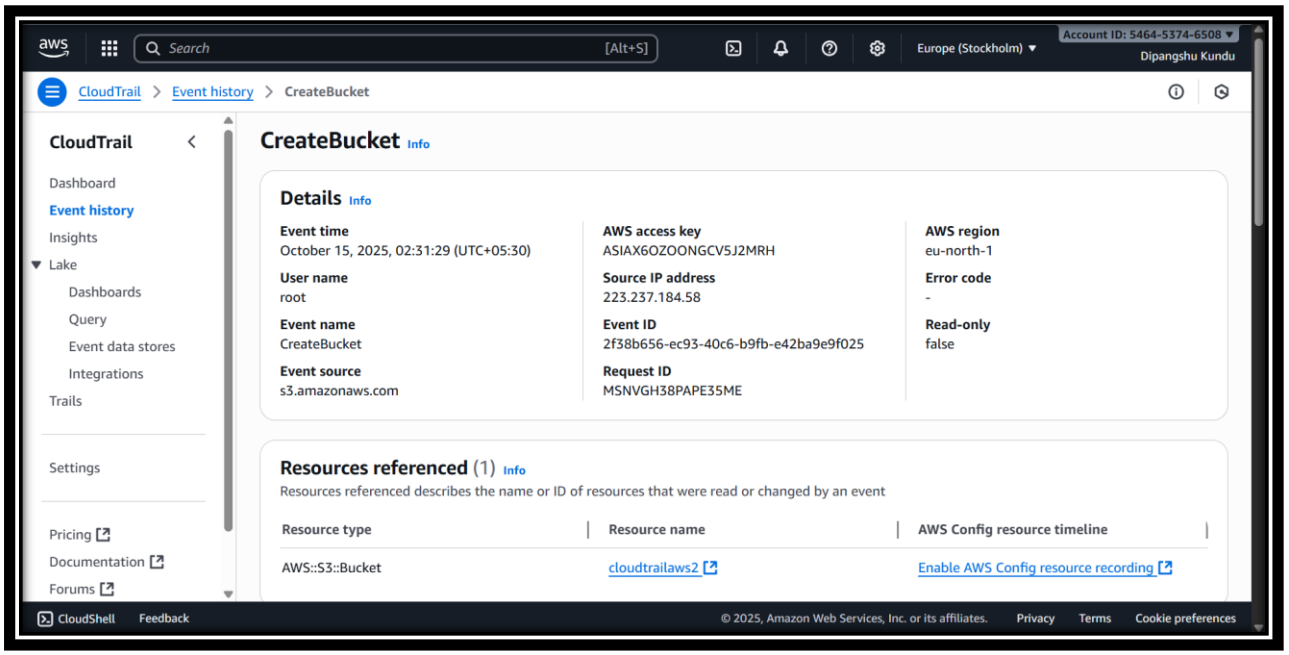
Click on any event to view full details. We should note:

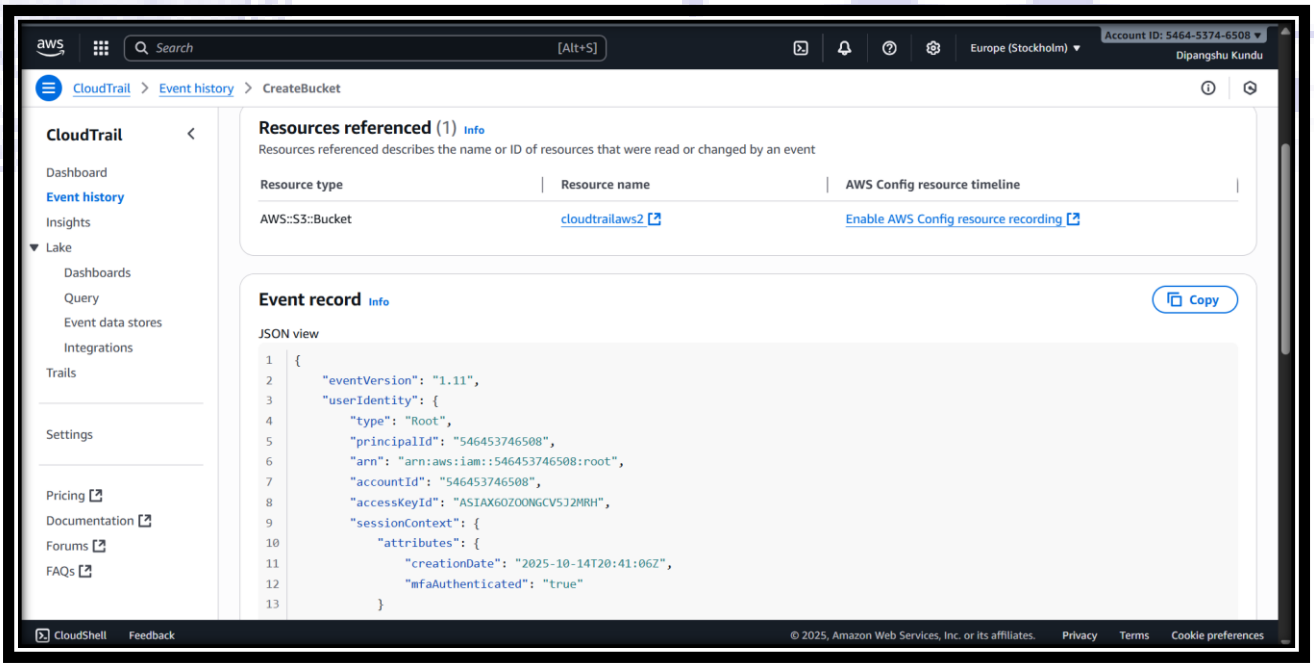
Detail	Meaning
Who performed the action	Shows the IAM user, root user, or role who triggered the event.
Time of action	Timestamp when the action was performed.
Source IP address	Location/IP where the request came from (like your network IP).
Affected resource	Which AWS resource was changed (e.g. EC2 ID, S3 bucket name).

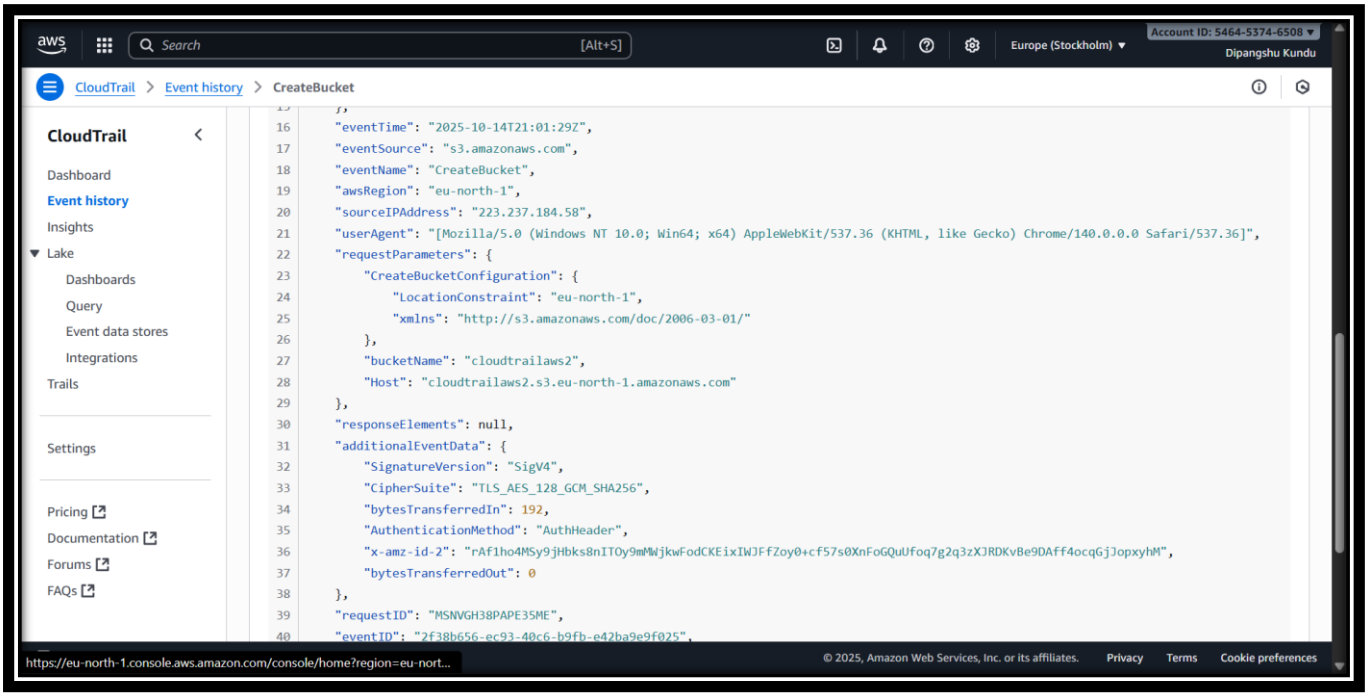
Example output when clicking an event:

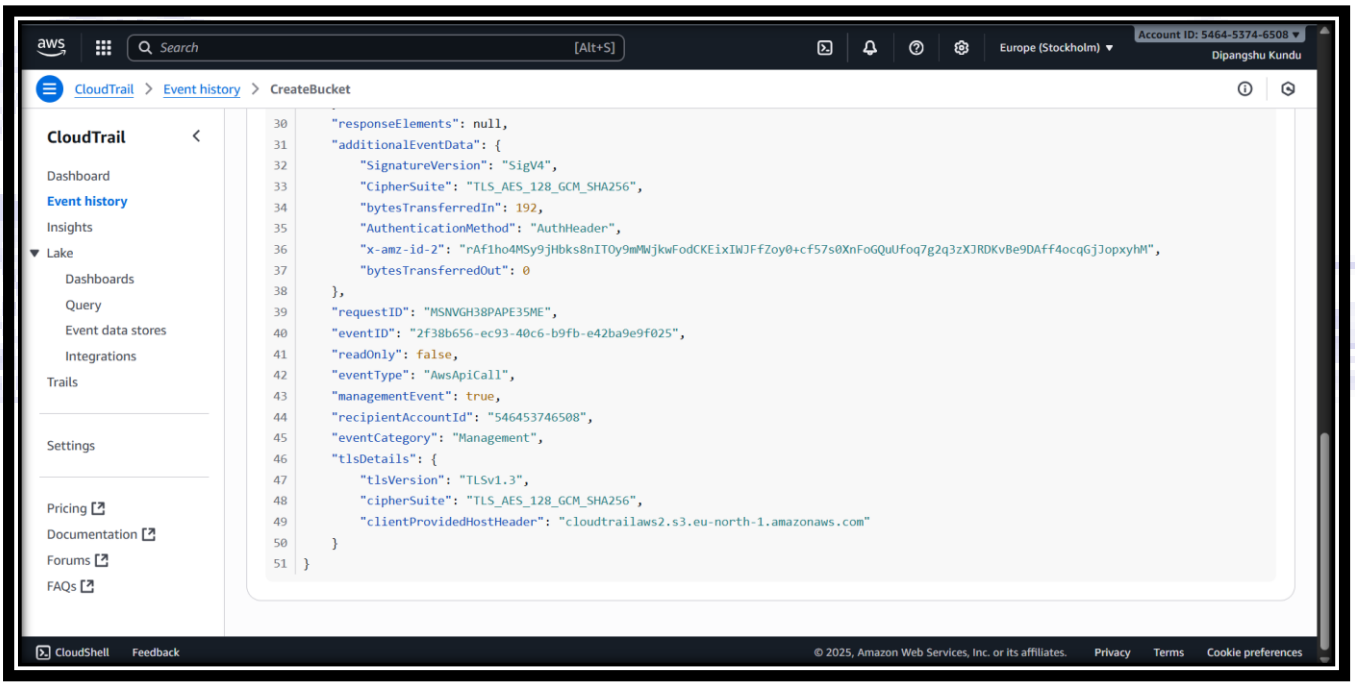
- **User**: arn:aws:iam::123456789012:user/Alice
- **Event time**: 2025-10-15 09:23:11 UTC
- **Source IP**: 203.122.14.55
- **Resource**: i-0abc123xyz456def

DETAILS OF CREATING BUCKET









THE ABOVE CODE: -


```
{
  "eventVersion": "1.11",
  "userIdentity": {
    "type": "Root",
    "principalId": "546453746508",
    "arn": "arn:aws:iam::546453746508:root",
    "accountId": "546453746508",
```

```
      "accessKeyId": "ASIAX6OZOONGCV5J2MRH",
      "sessionContext": {
        "attributes": {
          "creationDate": "2025-10-14T20:41:06Z",
          "mfaAuthenticated": "true"
        }
      }
    },
    "eventTime": "2025-10-14T21:01:29Z",
    "eventSource": "s3.amazonaws.com",
    "eventName": "CreateBucket",
    "awsRegion": "eu-north-1",
    "sourceIPAddress": "223.237.184.58",
    "userAgent": "[Mozilla/5.0 (Windows NT 10.0; Win64; x64)
AppleWebKit/537.36 (KHTML, like Gecko) Chrome/140.0.0.0 Safari/537.36]",
    "requestParameters": {
      "CreateBucketConfiguration": {
        "LocationConstraint": "eu-north-1",
        "xmlns": "http://s3.amazonaws.com/doc/2006-03-01/"
      },
      "bucketName": "cloudtrailaws2",
      "Host": "cloudtrailaws2.s3.eu-north-1.amazonaws.com"
    },
    "responseElements": null,
    "additionalEventData": {
      "SignatureVersion": "SigV4",
      "CipherSuite": "TLS_AES_128_GCM_SHA256",
      "bytesTransferredIn": 192,
      "AuthenticationMethod": "AuthHeader",
      "x-amz-id-2":
"rAf1ho4MSy9jHbks8nITOy9mMWjkwFodCKEixIWJFfZoy0+cf57s0XnFoGQ
uUfoq7g2q3zXJRDKvBe9DAff4ocqGjJopxyhM",
      "bytesTransferredOut": 0
    },
    "requestID": "MSNVGH38PAPE35ME",
    "eventID": "2f38b656-ec93-40c6-b9fb-e42ba9e9f025",
    "readOnly": false,
    "eventType": "AwsApiCall",
    "managementEvent": true,
    "recipientAccountId": "546453746508",
    "eventCategory": "Management",
```

```
   "tlsDetails": {
      "tlsVersion": "TLSv1.3",
      "cipherSuite": "TLS_AES_128_GCM_SHA256",
      "clientProvidedHostHeader": "cloudtrailaws2.s3.eu-north-
1.amazonaws.com"
   }
}
```


Detail to Identify	Answer from the Event
Who performed the action	Root user of AWS account 546453746508
Time of action	2025-10-14T21:01:29Z
Source IP address	223.237.184.58
Affected resource	S3 bucket named **cloudtrailaws2**
What action was done	CreateBucket (an S3 bucket was created)

This CloudTrail log records that the **root user** created an **S3 bucket** from IP address **223.237.184.58** in the AWS **eu-north-1 region** at a specific time. This level of detail helps in **security auditing and incident investigation**, because it clearly shows:

- Which user made the change
- What resource was affected
- When and from where the request was made

This helps detect **unauthorized access**, monitor **critical actions**, and maintain **accountability** in AWS environments.

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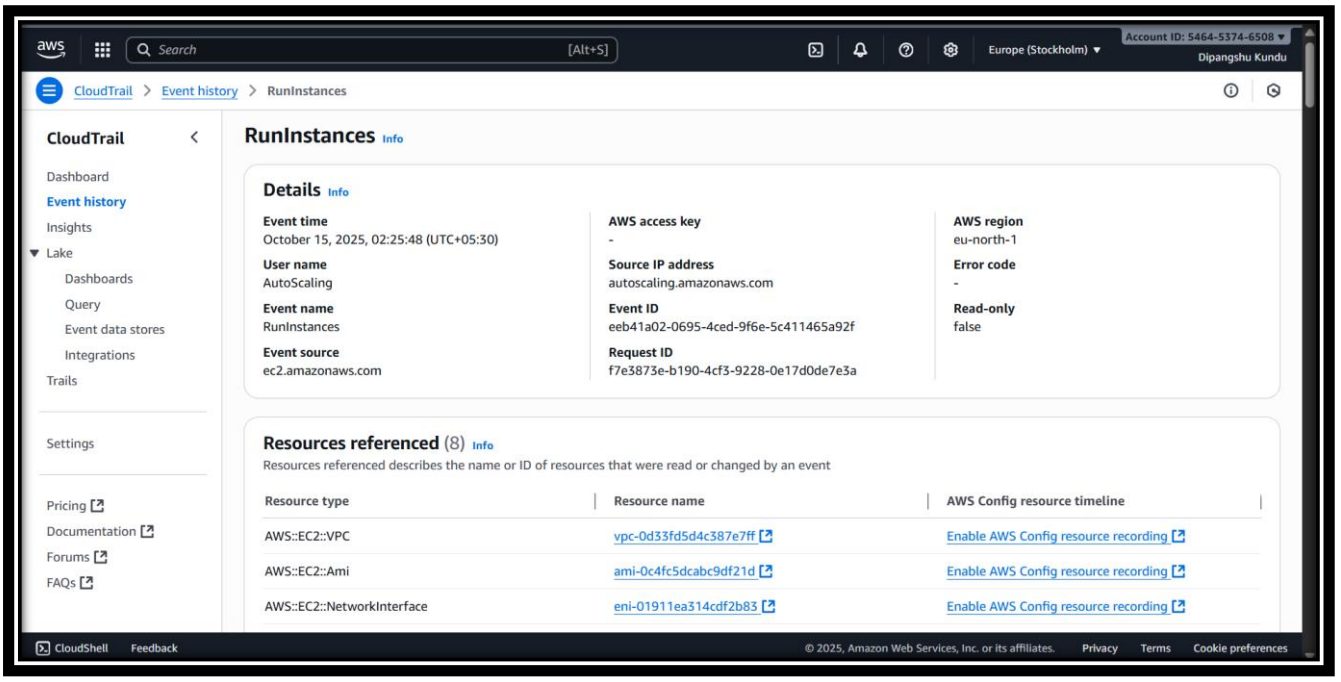
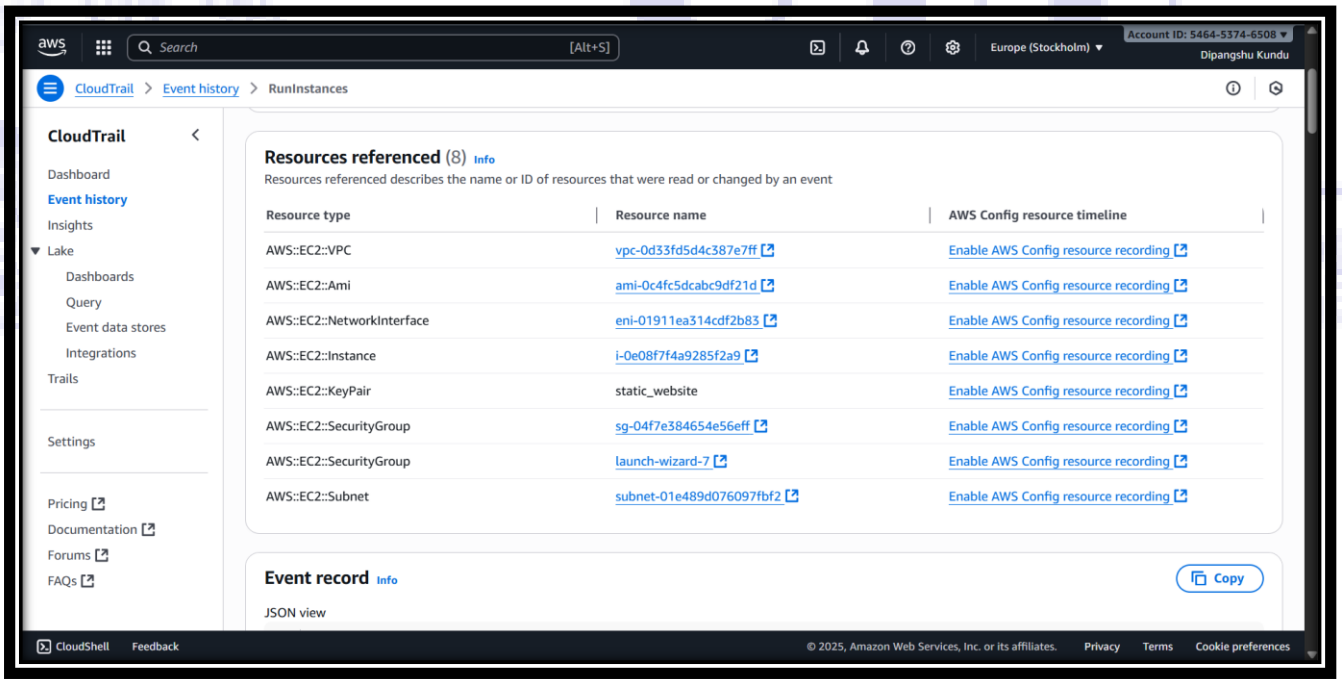
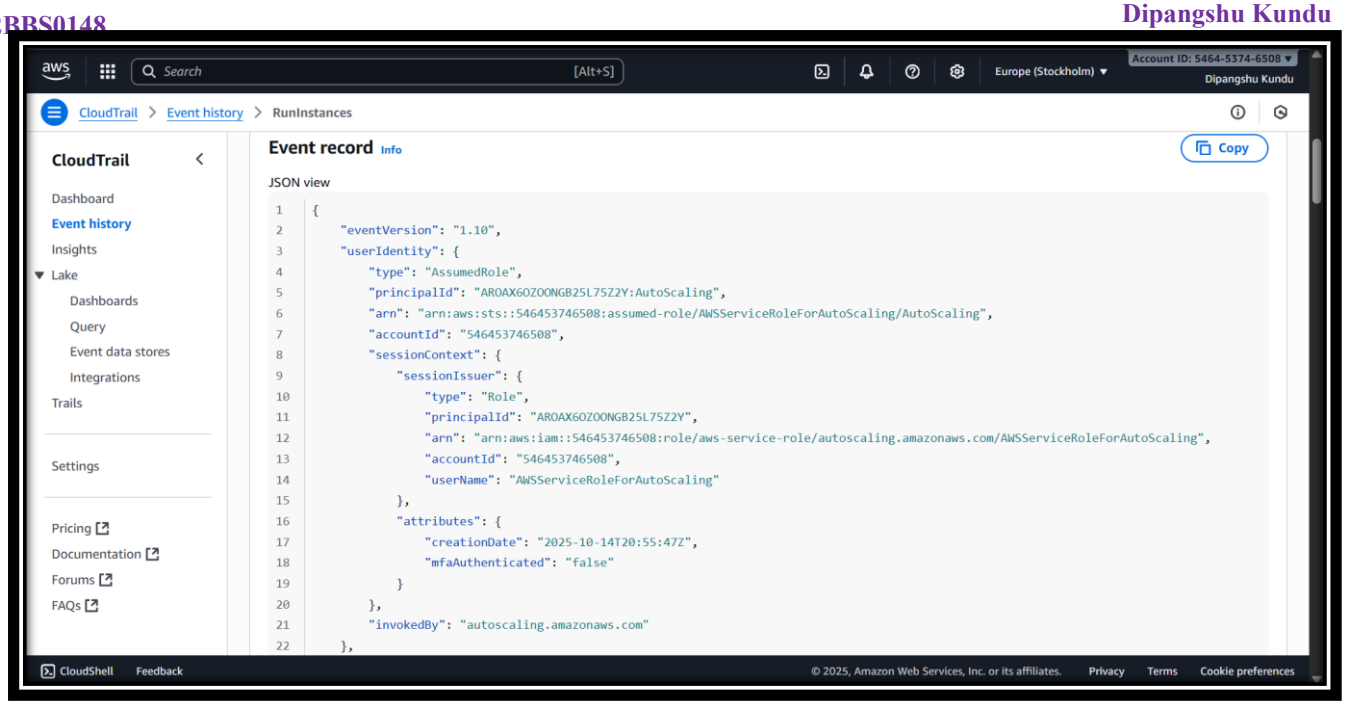
DETAILS OF RUNNING INSTANCES



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Event record Info
Copy
JSON view
{
"eventVersion": "1.10",
"userIdentity": {
"type": "AssumedRole",
"principalId": "AROAX6OZOONGB25L75Z2Y:AutoScaling",
"arn": "arn:aws:sts::546453746508:assumed-role/AWSServiceRoleForAutoScaling/AutoScaling",
"accountId": "546453746508",
"sessionContext": {
"sessionIssuer": {
"type": "Role",
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"arn": "arn:aws:iam::546453746508:role/aws-service-role/autoscaling.amazonaws.com/AWSServiceRoleForAutoScaling",
"accountId": "546453746508",
"userName": "AWSServiceRoleForAutoScaling"
},
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"mfaAuthenticated": "false"
}
},
"invokedBy": "autoscaling.amazonaws.com"
},
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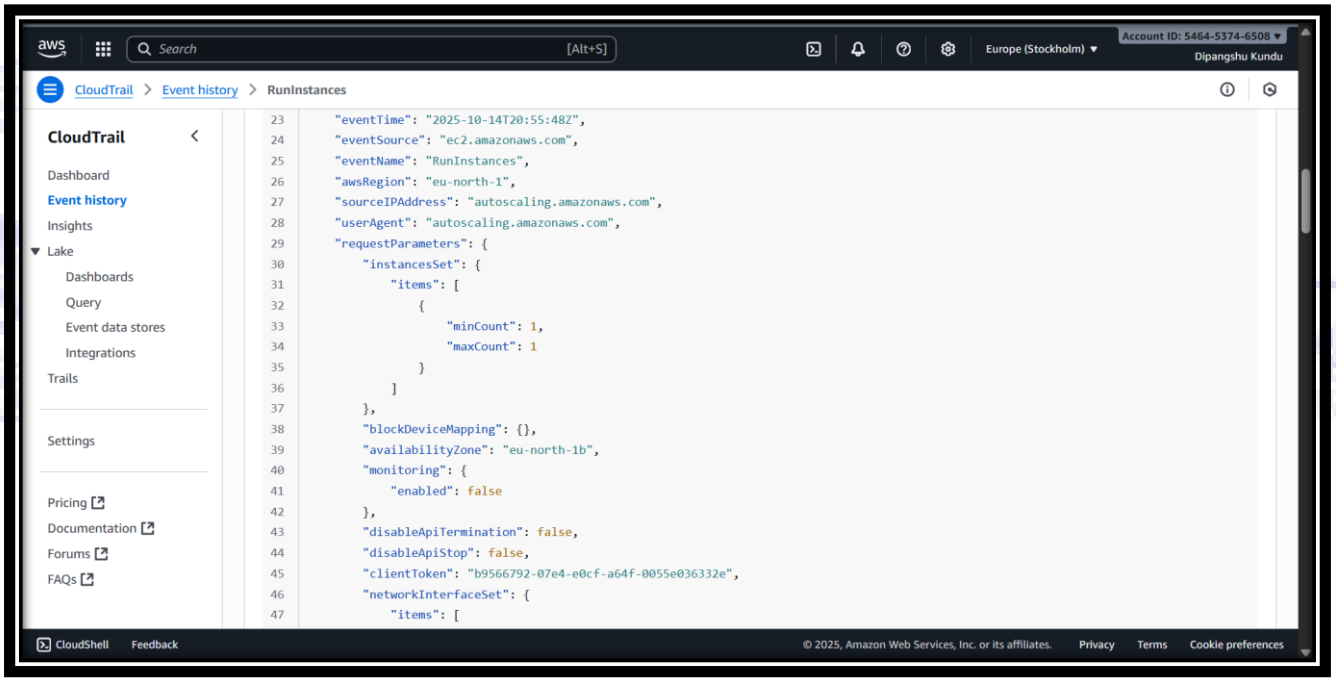
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FAQs
"eventTime": "2025-10-14T20:55:48Z",
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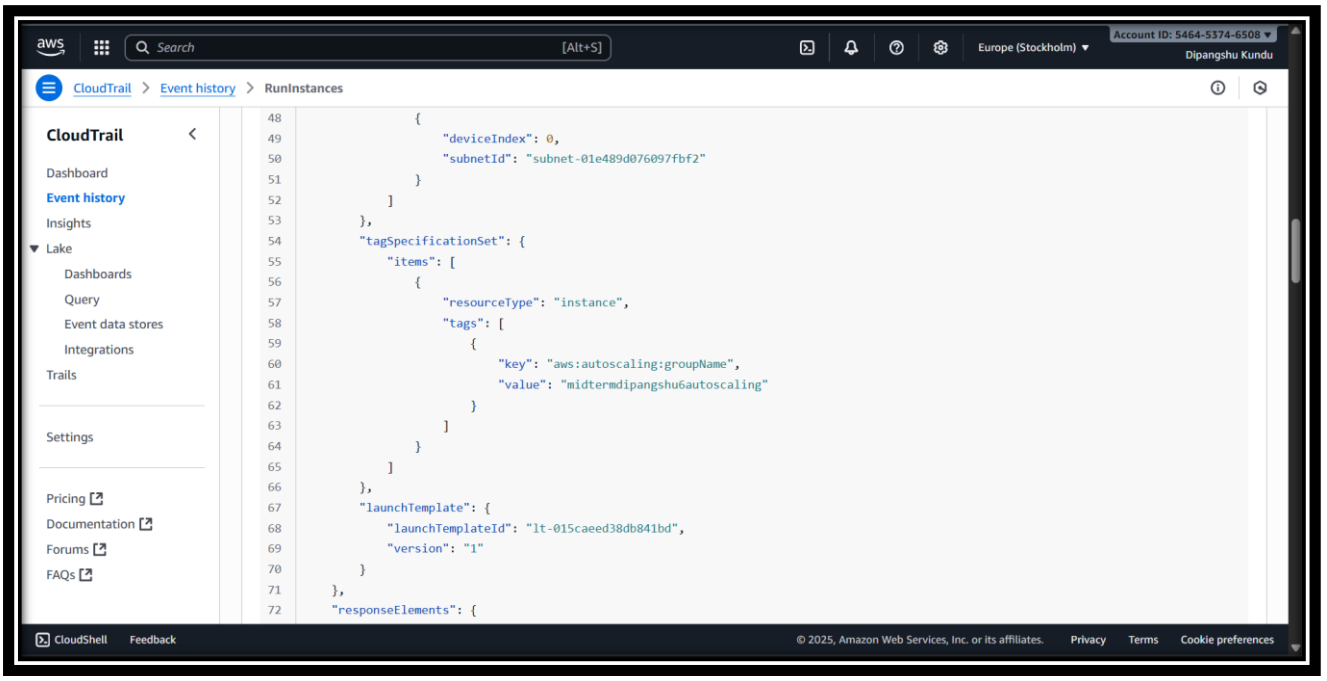
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FAQs
{
"deviceIndex": 0,
"subnetId": "subnet-01e489d076097fbf2"
}
]
},
"tagSpecificationSet": {
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"resourceType": "instance",
"tags": [
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"key": "aws:autoscaling:groupName",
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},
"launchTemplate": {
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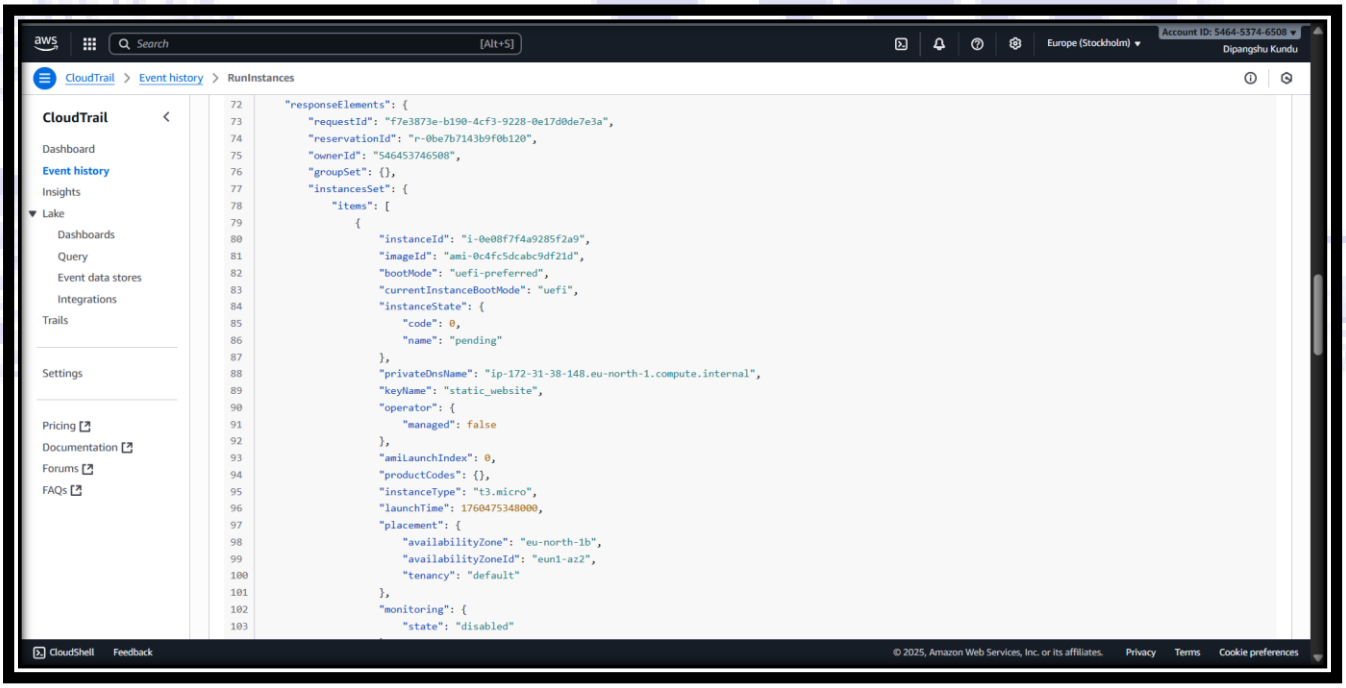
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"groupSet": {},
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"bootMode": "uefi-preferred",
"currentInstanceBootMode": "uefi",
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"code": 0,
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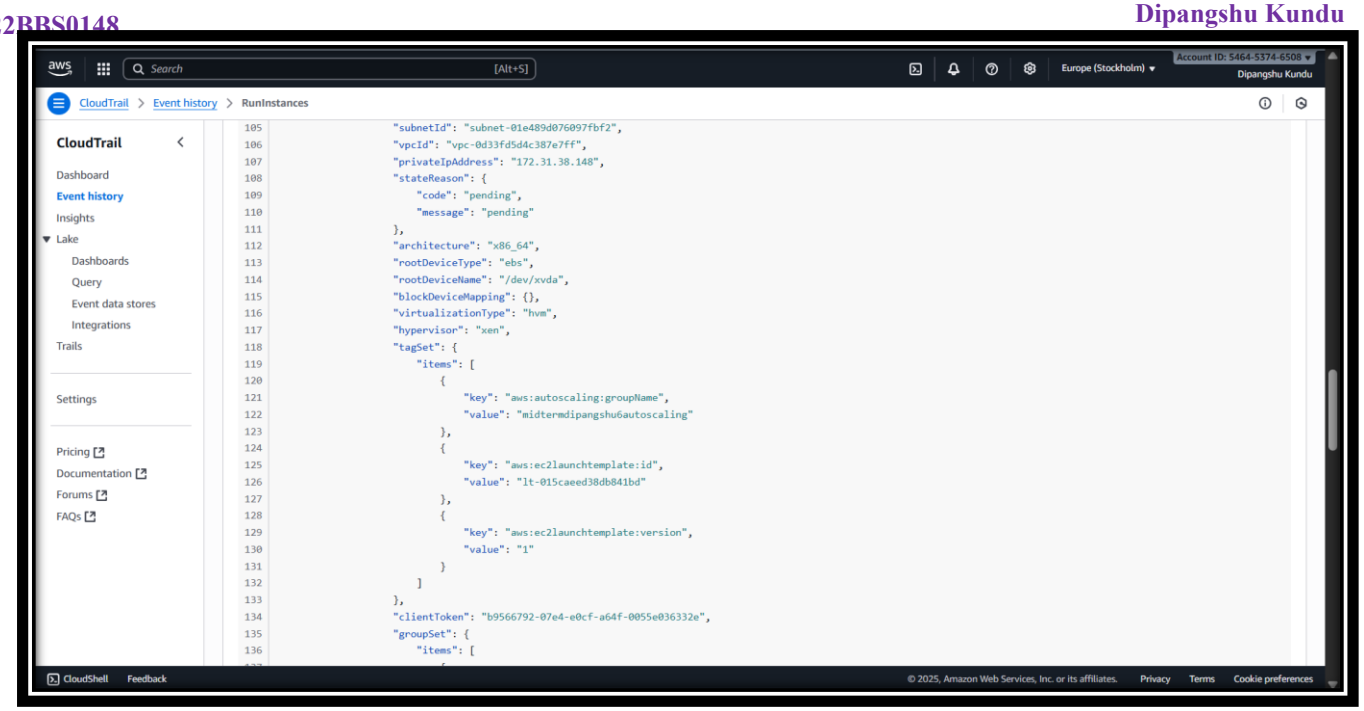
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Event data stores
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Settings
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Forums
FAQs
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"rootDeviceName": "/dev/xvda",
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"hypervisor": "xen",
"tagSet": {
"items": [
{
"key": "aws:autoscaling:groupName",
"value": "midtermdipangshu6autoscaling"
},
{
"key": "aws:ec2launchtemplate:id",
"value": "lt-015caeed38db841bd"
},
{
"key": "aws:ec2launchtemplate:version",
"value": "1"
}
]
},
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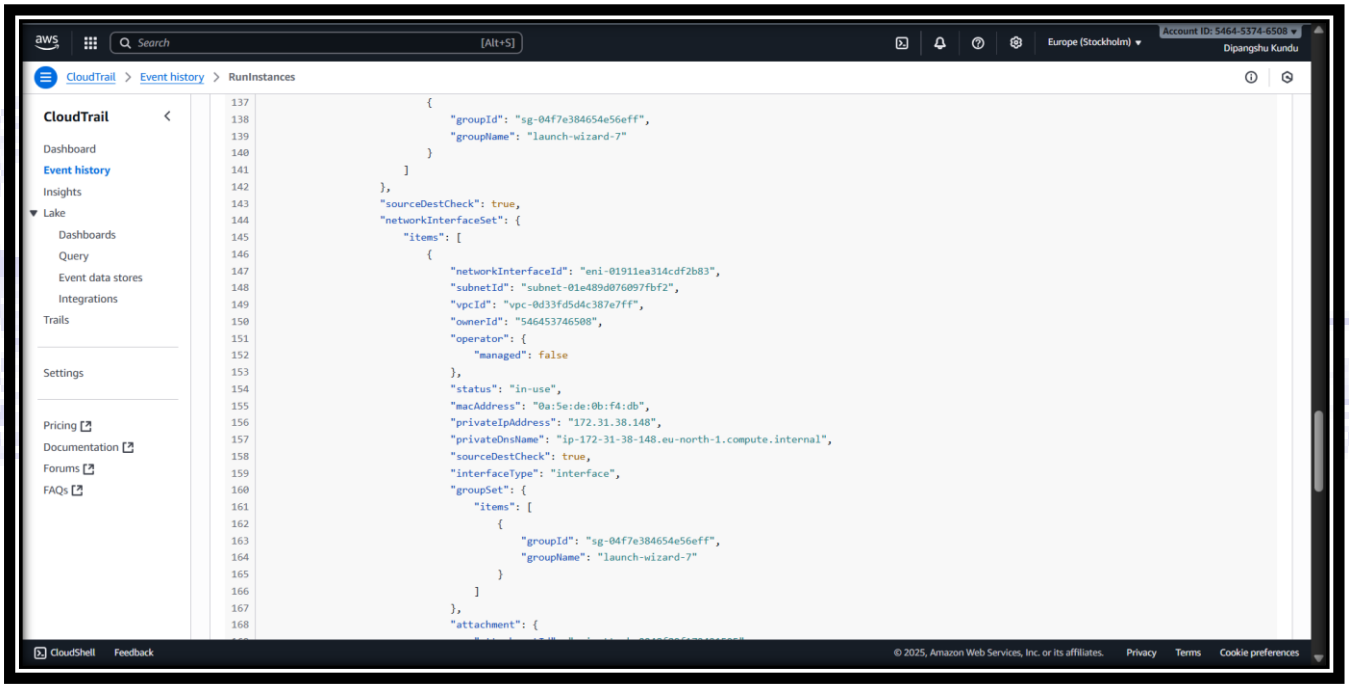
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Pricing
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Forums
FAQs
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"groupName": "launch-wizard-7"
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"ownerId": "546453746508",
"operator": {
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},
"status": "in-use",
"macAddress": "0a:5e:de:0b:f4:db",
"privateIpAddress": "172.31.38.148",
"privateDnsName": "ip-172-31-38-148.eu-north-1.compute.internal",
"sourceDestCheck": true,
"interfaceType": "interface",
"groupSet": {
"items": [
{
"groupId": "sg-04f7e384654e56eff",
"groupName": "launch-wizard-7"
}
]
},
"attachment": {
CloudShell
Feedback
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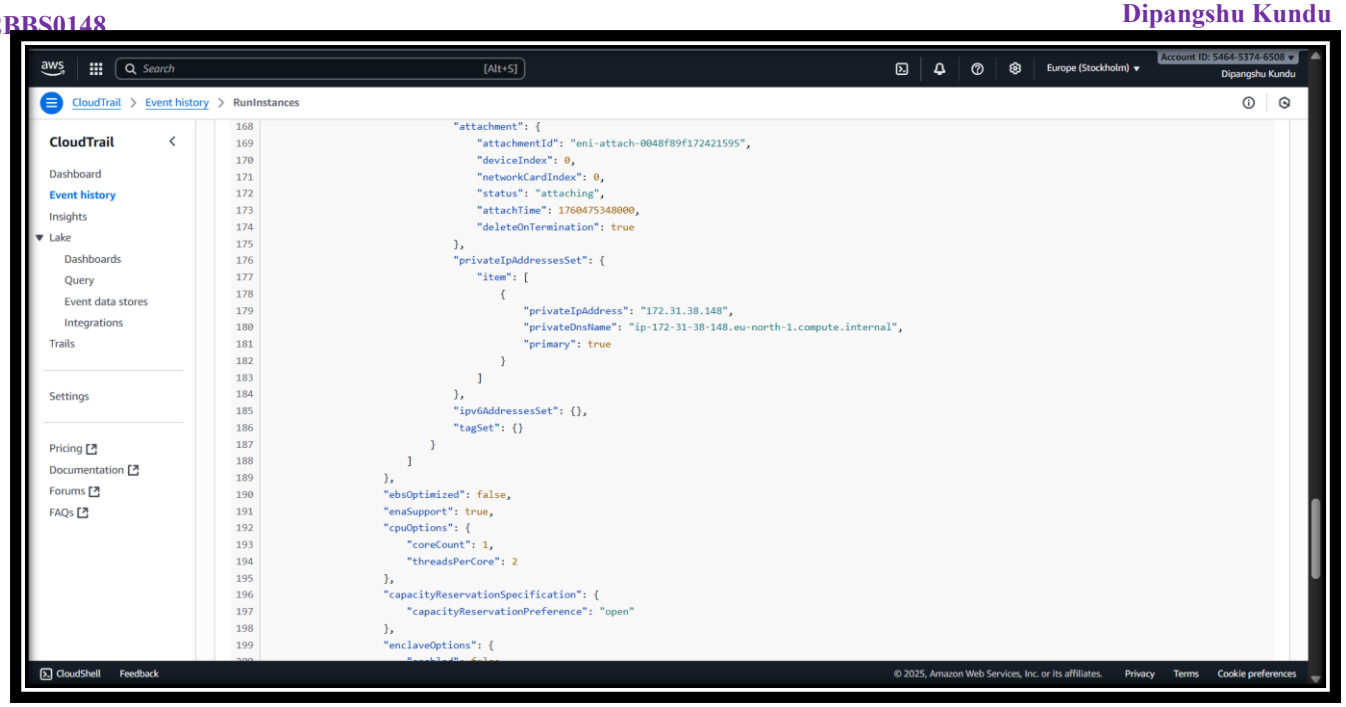
aws
Search
[Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
CloudTrail > Event history > RunInstances
CloudTrail
Dashboard
Event history
Insights
Lake
Dashboards
Query
Event data stores
Integrations
Trails
Settings
Pricing
Documentation
Forums
FAQs
"attachment": {
"attachmentId": "eni-attach-0048f89f172421595",
"deviceIndex": 0,
"networkCardIndex": 0,
"status": "attaching",
"attachTime": 1760475348000,
"deleteOnTermination": true
},
"privateIpAddressesSet": {
"item": [
{
"privateIpAddress": "172.31.38.148",
"privateDnsName": "ip-172-31-38-148.eu-north-1.compute.internal",
"primary": true
}
]
},
"ipv6AddressesSet": {},
"tagSet": {}
}
]
},
"ebsOptimized": false,
"enaSupport": true,
"cpuOptions": {
"coreCount": 1,
"threadsPerCore": 2
},
"capacityReservationSpecification": {
"capacityReservationPreference": "open"
},
"enclaveOptions": {
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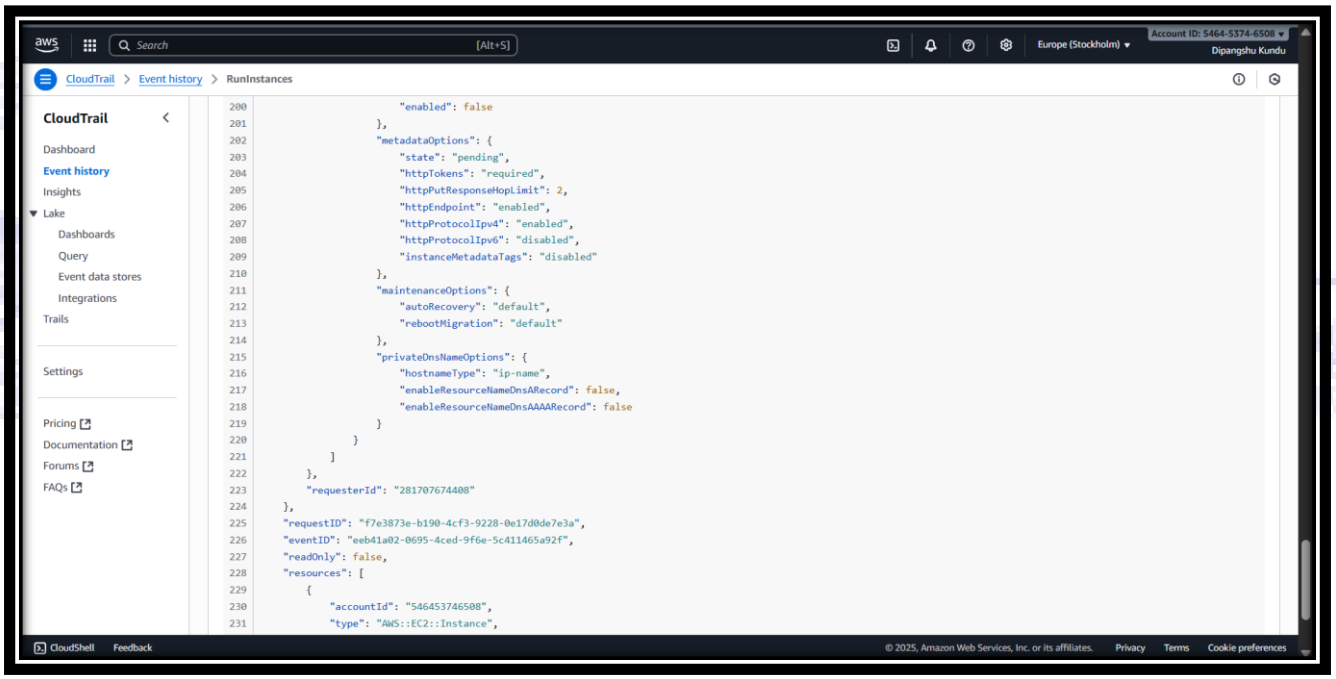
aws
Search
[Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
CloudTrail > Event history > RunInstances
CloudTrail
Dashboard
Event history
Insights
Lake
Dashboards
Query
Event data stores
Integrations
Trails
Settings
Pricing
Documentation
Forums
FAQs
"enabled": false
},
"metadataOptions": {
"state": "pending",
"httpTokens": "required",
"httpPutResponseHopLimit": 2,
"httpEndpoint": "enabled",
"httpProtocolIpv4": "enabled",
"httpProtocolIpv6": "disabled",
"instanceMetadataTags": "disabled"
},
"maintenanceOptions": {
"autoRecovery": "default",
"rebootMigration": "default"
},
"privateDnsNameOptions": {
"hostnameType": "ip-name",
"enableResourceNameDnsARecord": false,
"enableResourceNameDnsAAAARecord": false
}
}
]
},
"requesterId": "281707674408"
},
"requestID": "f7e3873e-b190-4cf3-9228-0e17d0de7e3a",
"eventID": "eeb41a02-0695-4ced-9f6e-5c411465a92f",
"readOnly": false,
"resources": [
{
"accountId": "546453746508",
"type": "AWS::EC2::Instance",
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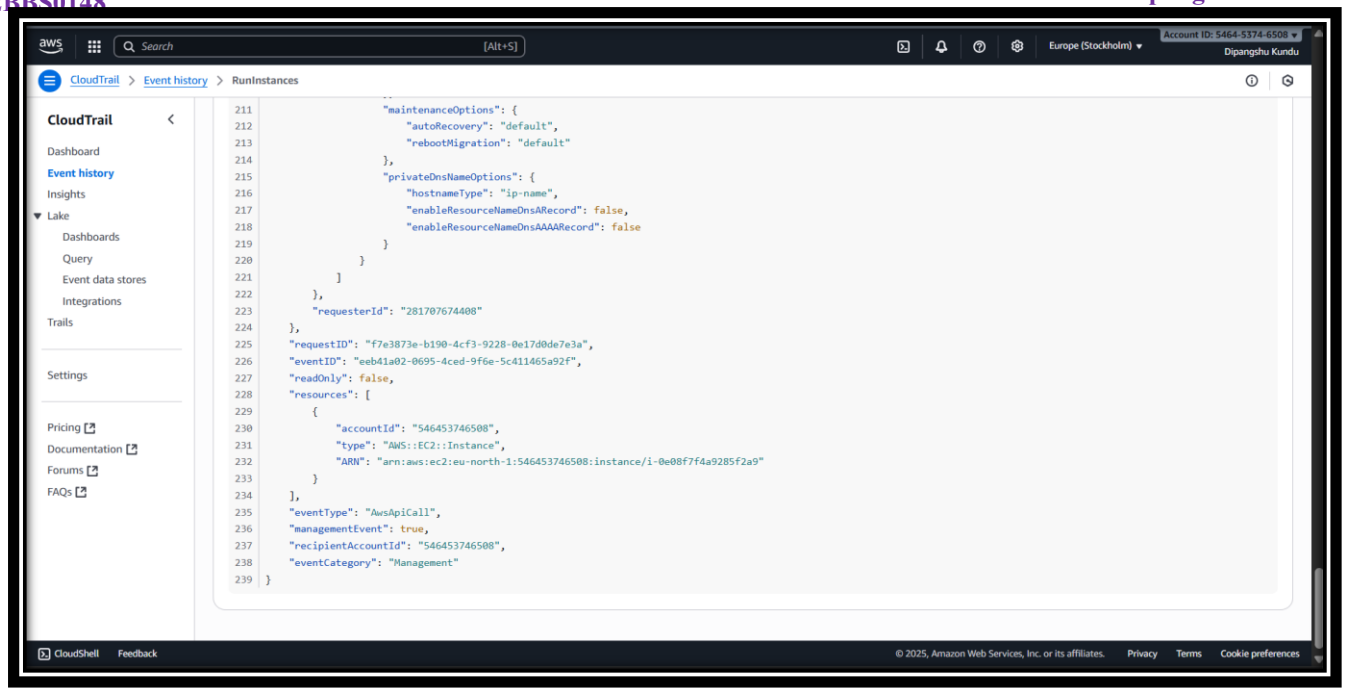


THE ABOVE CODE: -


```
{
  "eventVersion": "1.10",
  "userIdentity": {
    "type": "AssumedRole",
    "principalId": "AROAX6OZOONGB25L75Z2Y:AutoScaling",
    "arn": "arn:aws:sts::546453746508:assumed-
role/AWSServiceRoleForAutoScaling/AutoScaling",
    "accountId": "546453746508",
    "sessionContext": {
      "sessionIssuer": {
        "type": "Role",
        "principalId": "AROAX6OZOONGB25L75Z2Y",
        "arn": "arn:aws:iam::546453746508:role/aws-service-
role/autoscaling.amazonaws.com/AWSServiceRoleForAutoScaling",
        "accountId": "546453746508",
        "userName": "AWSServiceRoleForAutoScaling"
      },
      "attributes": {
        "creationDate": "2025-10-14T20:55:47Z",
        "mfaAuthenticated": "false"
      }
    },
    "invokedBy": "autoscaling.amazonaws.com"
  },
```

```
  "eventTime": "2025-10-14T20:55:48Z",
  "eventSource": "ec2.amazonaws.com",
  "eventName": "RunInstances",
  "awsRegion": "eu-north-1",
  "sourceIPAddress": "autoscaling.amazonaws.com",
  "userAgent": "autoscaling.amazonaws.com",
  "requestParameters": {
    "instancesSet": {
      "items": [
        {
          "minCount": 1,
          "maxCount": 1
        }
      ]
    },
    "blockDeviceMapping": {},
    "availabilityZone": "eu-north-1b",
    "monitoring": {
      "enabled": false
    },
    "disableApiTermination": false,
    "disableApiStop": false,
    "clientToken": "b9566792-07e4-e0cf-a64f-0055e036332e",
    "networkInterfaceSet": {
      "items": [
        {
          "deviceIndex": 0,
          "subnetId": "subnet-01e489d076097fbf2"
        }
      ]
    },
    "tagSpecificationSet": {
      "items": [
        {
          "resourceType": "instance",
          "tags": [
            {
              "key": "aws:autoscaling:groupName",
              "value": "midtermdipangshu6autoscaling"
            }
          ]
```

```
            }
          ]
        },
        "launchTemplate": {
          "launchTemplateId": "lt-015caeed38db841bd",
          "version": "1"
        }
      },
      "responseElements": {
        "requestId": "f7e3873e-b190-4cf3-9228-0e17d0de7e3a",
        "reservationId": "r-0be7b7143b9f0b120",
        "ownerId": "546453746508",
        "groupSet": {},
        "instancesSet": {
          "items": [
            {
              "instanceId": "i-0e08f7f4a9285f2a9",
              "imageId": "ami-0c4fc5dcabc9df21d",
              "bootMode": "uefi-preferred",
              "currentInstanceBootMode": "uefi",
              "instanceState": {
                "code": 0,
                "name": "pending"
              },
              "privateDnsName": "ip-172-31-38-148.eu-north-
1.compute.internal",
              "keyName": "static_website",
              "operator": {
                "managed": false
              },
              "amiLaunchIndex": 0,
              "productCodes": {},
              "instanceType": "t3.micro",
              "launchTime": 1760475348000,
              "placement": {
                "availabilityZone": "eu-north-1b",
                "availabilityZoneId": "eun1-az2",
                "tenancy": "default"
              },
              "monitoring": {
                "state": "disabled"
```

```
},
"subnetId": "subnet-01e489d076097fbf2",
"vpcId": "vpc-0d33fd5d4c387e7ff",
"privateIpAddress": "172.31.38.148",
"stateReason": {
   "code": "pending",
   "message": "pending"
},
"architecture": "x86_64",
"rootDeviceType": "ebs",
"rootDeviceName": "/dev/xvda",
"blockDeviceMapping": {},
"virtualizationType": "hvm",
"hypervisor": "xen",
"tagSet": {
   "items": [
      {
         "key": "aws:autoscaling:groupName",
         "value": "midtermdipangshu6autoscaling"
      },
      {
         "key": "aws:ec2launchtemplate:id",
         "value": "lt-015caeed38db841bd"
      },
      {
         "key": "aws:ec2launchtemplate:version",
         "value": "1"
      }
   ]
},
"clientToken": "b9566792-07e4-e0cf-a64f-0055e036332e",
"groupSet": {
   "items": [
      {
         "groupId": "sg-04f7e384654e56eff",
         "groupName": "launch-wizard-7"
      }
   ]
},
"sourceDestCheck": true,
"networkInterfaceSet": {
```

```
            "items": [
              {
                "networkInterfaceId": "eni-01911ea314cdf2b83",
                "subnetId": "subnet-01e489d076097fbf2",
                "vpcId": "vpc-0d33fd5d4c387e7ff",
                "ownerId": "546453746508",
                "operator": {
                  "managed": false
                },
                "status": "in-use",
                "macAddress": "0a:5e:de:0b:f4:db",
                "privateIpAddress": "172.31.38.148",
                "privateDnsName": "ip-172-31-38-148.eu-north-
1.compute.internal",
                "sourceDestCheck": true,
                "interfaceType": "interface",
                "groupSet": {
                  "items": [
                    {
                      "groupId": "sg-04f7e384654e56eff",
                      "groupName": "launch-wizard-7"
                    }
                  ]
                },
                "attachment": {
                  "attachmentId": "eni-attach-0048f89f172421595",
                  "deviceIndex": 0,
                  "networkCardIndex": 0,
                  "status": "attaching",
                  "attachTime": 1760475348000,
                  "deleteOnTermination": true
                },
                "privateIpAddressesSet": {
                  "item": [
                    {
                      "privateIpAddress": "172.31.38.148",
                      "privateDnsName": "ip-172-31-38-148.eu-north-
1.compute.internal",
                      "primary": true
                    }
                  ]
```

```
                    },
                    "ipv6AddressesSet": {},
                    "tagSet": {}
                }
            ]
        },
        "ebsOptimized": false,
        "enaSupport": true,
        "cpuOptions": {
            "coreCount": 1,
            "threadsPerCore": 2
        },
        "capacityReservationSpecification": {
            "capacityReservationPreference": "open"
        },
        "enclaveOptions": {
            "enabled": false
        },
        "metadataOptions": {
            "state": "pending",
            "httpTokens": "required",
            "httpPutResponseHopLimit": 2,
            "httpEndpoint": "enabled",
            "httpProtocolIpv4": "enabled",
            "httpProtocolIpv6": "disabled",
            "instanceMetadataTags": "disabled"
        },
        "maintenanceOptions": {
            "autoRecovery": "default",
            "rebootMigration": "default"
        },
        "privateDnsNameOptions": {
            "hostnameType": "ip-name",
            "enableResourceNameDnsARecord": false,
            "enableResourceNameDnsAAAARecord": false
        }
    }
  ]
 },
 "requesterId": "281707674408"
},
```

```
  "requestID": "f7e3873e-b190-4cf3-9228-0e17d0de7e3a",
  "eventID": "eeb41a02-0695-4ced-9f6e-5c411465a92f",
  "readOnly": false,
  "resources": [
    {
      "accountId": "546453746508",
      "type": "AWS::EC2::Instance",
      "ARN": "arn:aws:ec2:eu-north-1:546453746508:instance/i-
0e08f7f4a9285f2a9"
    }
  ],
  "eventType": "AwsApiCall",
  "managementEvent": true,
  "recipientAccountId": "546453746508",
  "eventCategory": "Management"
}
```


Detail to Identify	Answer from the Event
Who performed the action	AWSServiceRoleForAutoScaling (Assumed IAM Role)
Type of user	AWS Service Role (Auto Scaling)
Time of action	2025-10-14T20:55:48Z
Source IP address	autoscaling.amazonaws.com
Event name (what action happened)	RunInstances (EC2 instance launched)
AWS Region	eu-north-1
Affected resource	EC2 Instance ID: i-0e08f7f4a9285f2a9
Triggered by	AWS Auto Scaling service

This CloudTrail log shows that the **Auto Scaling service** automatically launched a new **EC2 instance** using the **RunInstances** API call. The action was performed by the IAM service role **AWSServiceRoleForAutoScaling** on behalf of Auto Scaling, not by a human user. It happened in the **eu-north-1 region** at the time **2025-10-14T20:55:48Z**. The request came from **autoscaling.amazonaws.com**, which means it was triggered automatically by AWS to scale the system based on demand.

CloudTrail captured **who triggered the action, when it occurred, and which EC2 instance was affected**, which helps with auditing and understanding system behavior.

QUESTION:

Task 2: Configure CloudWatch for EC2 Instance Monitoring

Description:

Create and monitor a simple EC2 instance using **Amazon CloudWatch** , configure alarms, monitor system metrics, and analyze performance data to understand how CloudWatch helps in proactive threat and performance monitoring.

Steps:

1. Launch a **t2.micro EC2 instance** (Free Tier eligible) running Amazon Linux 2.
2. Install and configure the **CloudWatch Agent** using:

   ```
   sudo yum install amazon-cloudwatch-agent -y
   sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-config-wizard
   ```

3. Choose to monitor:
   - CPU utilization
   - Memory usage
   - Disk I/O

4. Start the CloudWatch 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
   ```

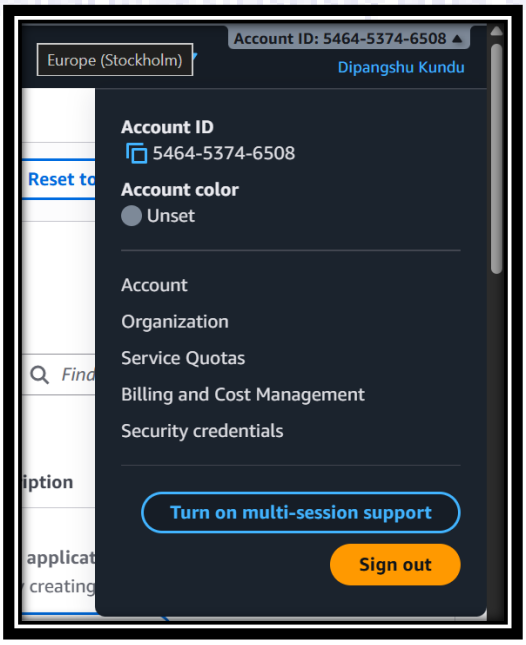
5. Go to **CloudWatch Console → Metrics → EC2** and verify data collection.

6. Create a **CloudWatch Alarm**:
   - Metric: CPUUtilization
   - Condition: >70% for 2 consecutive periods
   - Notification: via **SNS topic** (send email alert).

Expected Output:

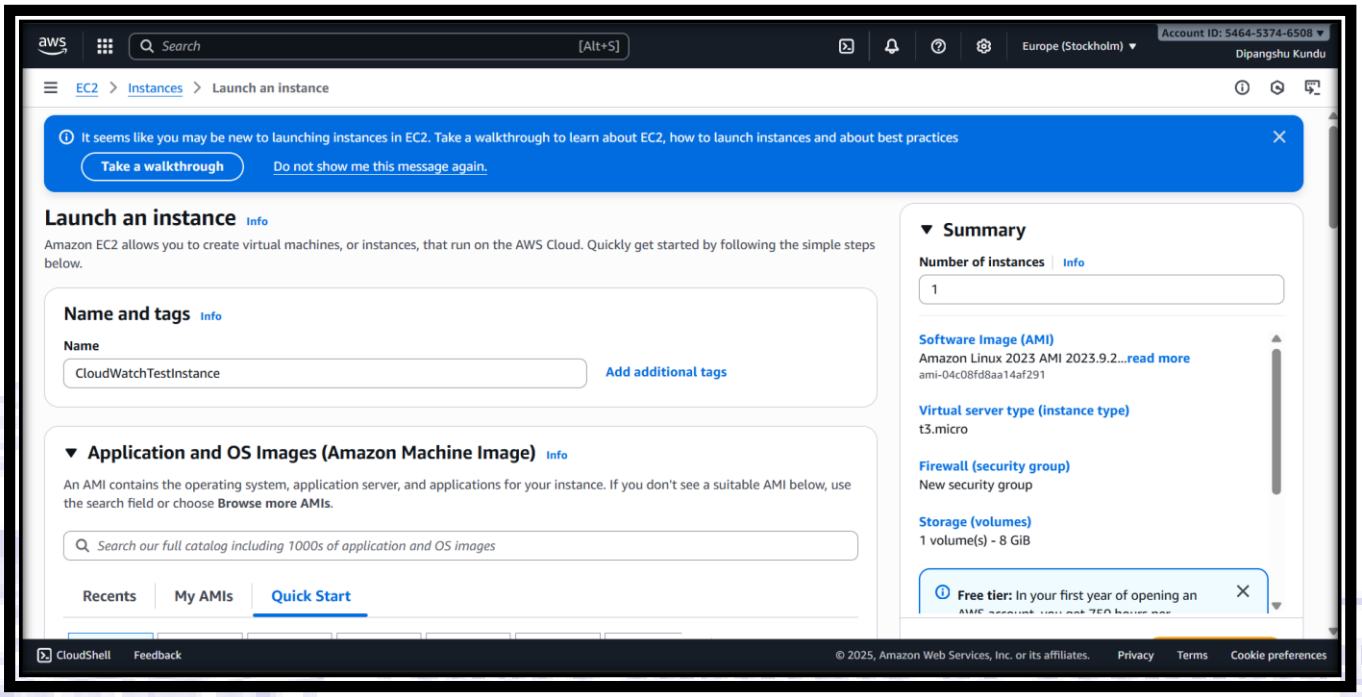
- CloudWatch dashboard showing metrics (CPU, Memory).
- Alarm configuration screenshot.
- Email alert showing triggered event.

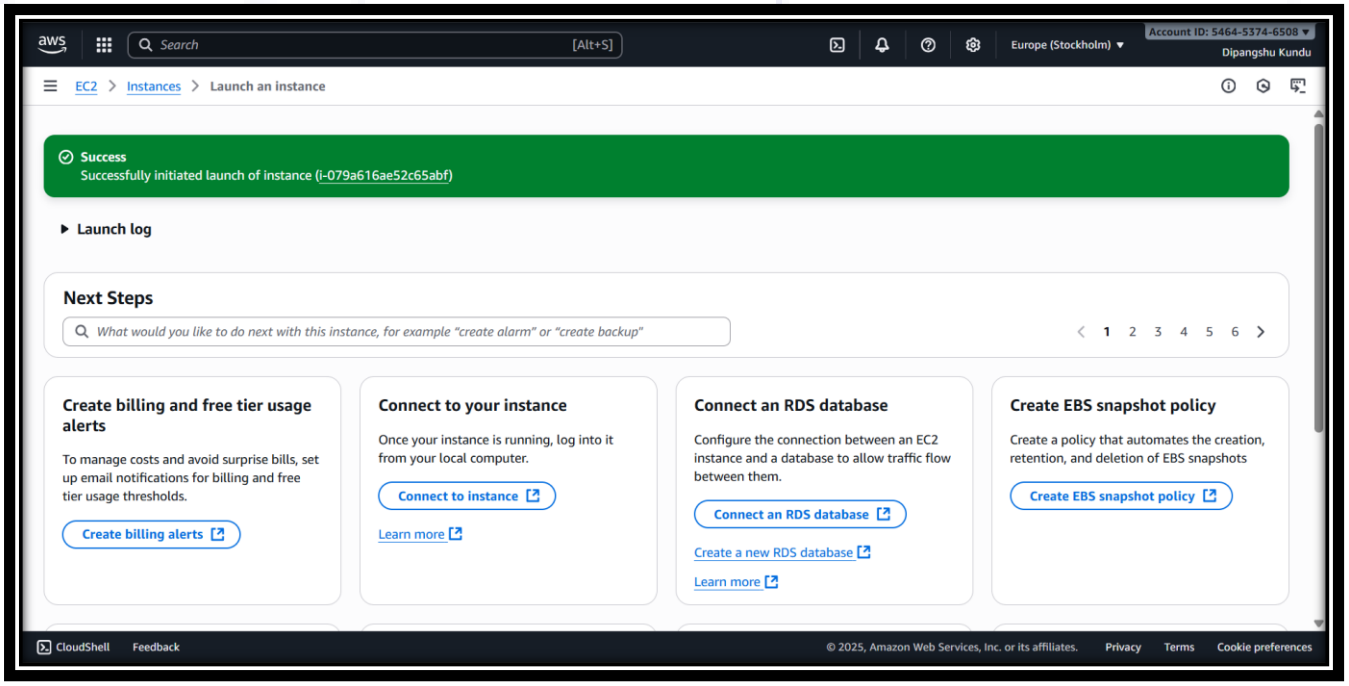
SOLUTION: -



Step 1: Launch an EC2 Instance

- Open AWS Console → EC2 → Launch Instance
- Name: CloudWatchTestInstance
- AMI: Amazon Linux 2
- Instance type: t2.micro (Free Tier eligible)
- Key pair: Select or create one
- Security group: Allow SSH (port 22), and optionally HTTP (port 80)
- Click Launch Instance





Step 2: Install and Configure CloudWatch Agent

What to do:

Connect to the EC2 instance using SSH, then run:

sudo yum install amazon-cloudwatch-agent -y

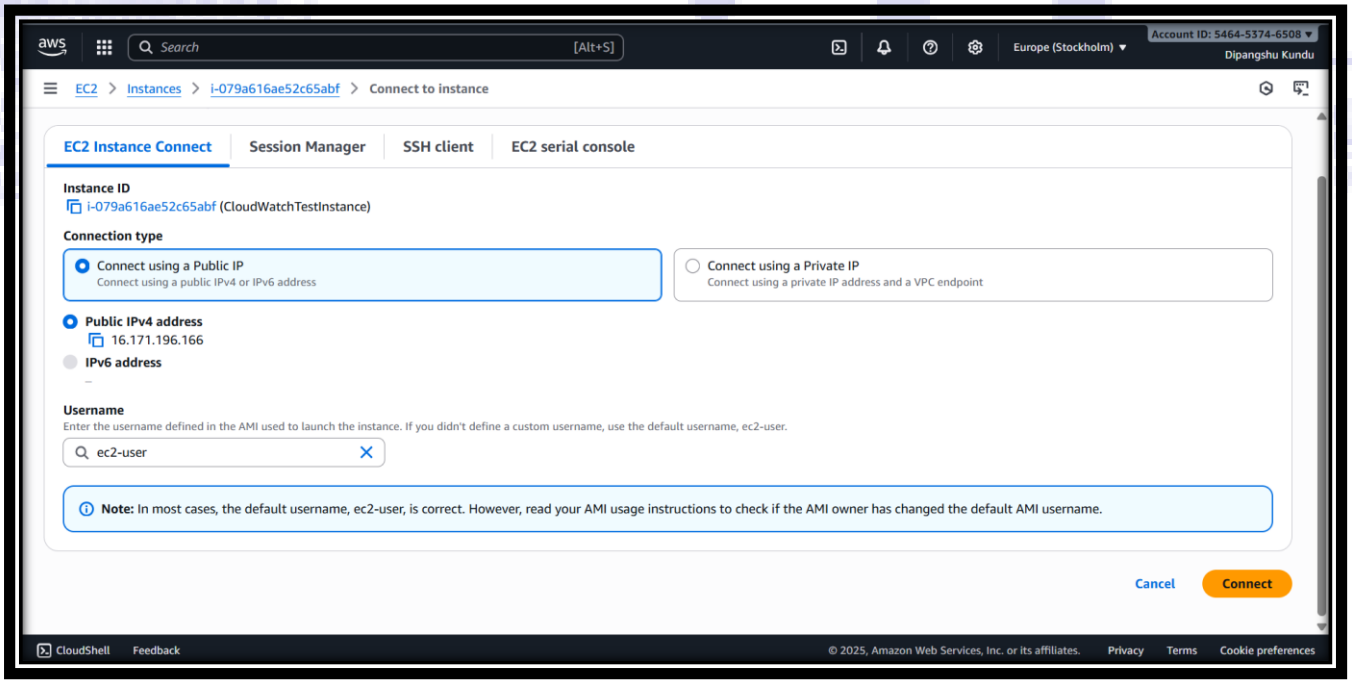
This installs the agent.

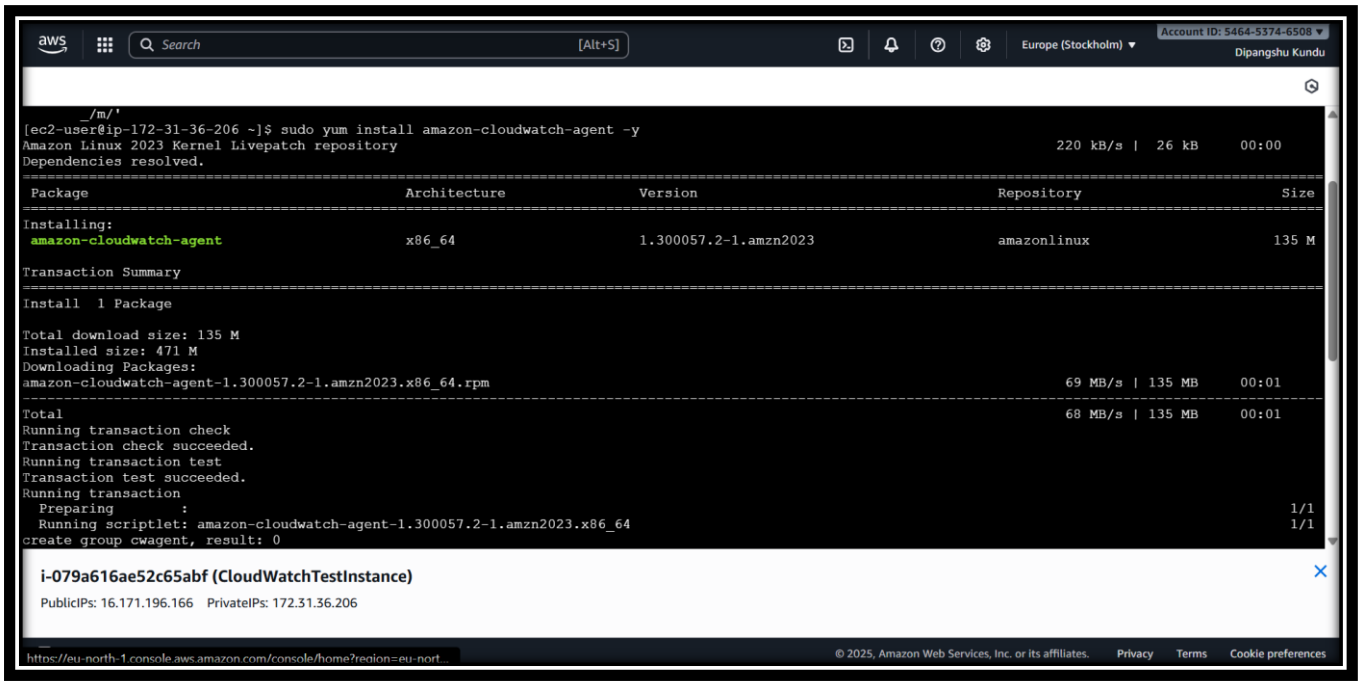
sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-config-wizard

This wizard asks simple questions to generate a config file. It will ask:

- **Install agent as root? → yes**
- **Format: json**
- **Collect CPU stats? → yes**
- **Collect memory metrics? → yes**
- **Collect disk metrics? → yes**
- **Log file collection? → no (optional)**

By default, CloudWatch only monitors basic EC2 metrics like CPU and network. To monitor memory and disk usage, you must install the CloudWatchAgent.




aws
Search
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Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
_/m/'
[ec2-user@ip-172-31-36-206 ~]$ sudo yum install amazon-cloudwatch-agent -y
Amazon Linux 2023 Kernel Livepatch repository 220 kB/s | 26 kB 00:00
Dependencies resolved.
Package Architecture Version Repository Size
Installing:
amazon-cloudwatch-agent x86_64 1.300057.2-1.amzn2023 amazonlinux 135 M
Transaction Summary
Install 1 Package
Total download size: 135 M
Installed size: 471 M
Downloading Packages:
amazon-cloudwatch-agent-1.300057.2-1.amzn2023.x86_64.rpm 69 MB/s | 135 MB 00:01
Total 68 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-1.300057.2-1.amzn2023.x86_64 1/1
create group cwagent, result: 0
i-079a616ae52c65abf (CloudWatchTestInstance)
PublicIPs: 16.171.196.166 PrivateIPs: 172.31.36.206
https://eu-north-1.console.aws.amazon.com/console/home?region=eu-nort...
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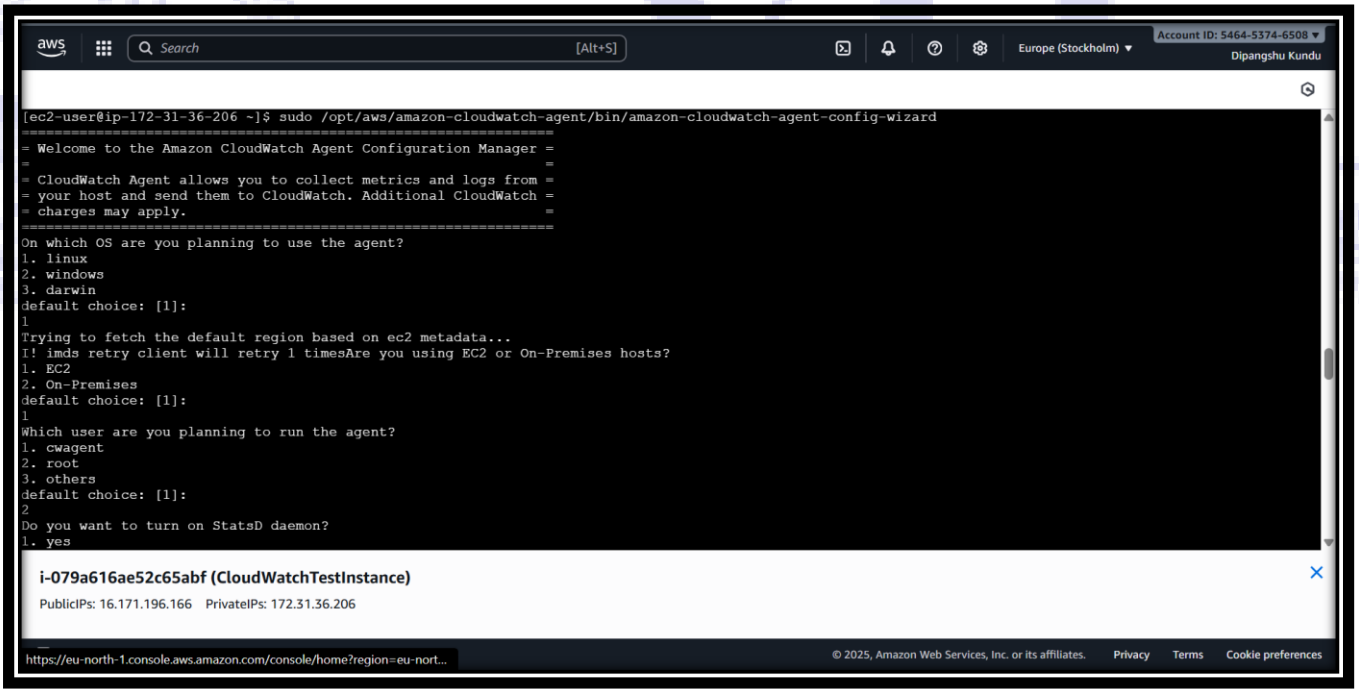
aws
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Account ID: 5464-5374-6508
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[ec2-user@ip-172-31-36-206 ~]$ sudo /opt/aws/amazon-cloudwatch-agent/bin/amazon-cloudwatch-agent-config-wizard
= Welcome to the Amazon CloudWatch Agent Configuration 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]:
1
Trying to fetch the default region based on ec2 metadata...
I! imds retry client will retry 1 timesAre you using EC2 or On-Premises hosts?
1. EC2
2. On-Premises
default choice: [1]:
1
Which user are you planning to run the agent?
1. cwagent
2. root
3. others
default choice: [1]:
2
Do you want to turn on StatsD daemon?
1. yes
i-079a616ae52c65abf (CloudWatchTestInstance)
PublicIPs: 16.171.196.166 PrivateIPs: 172.31.36.206
https://eu-north-1.console.aws.amazon.com/console/home?region=eu-nort...
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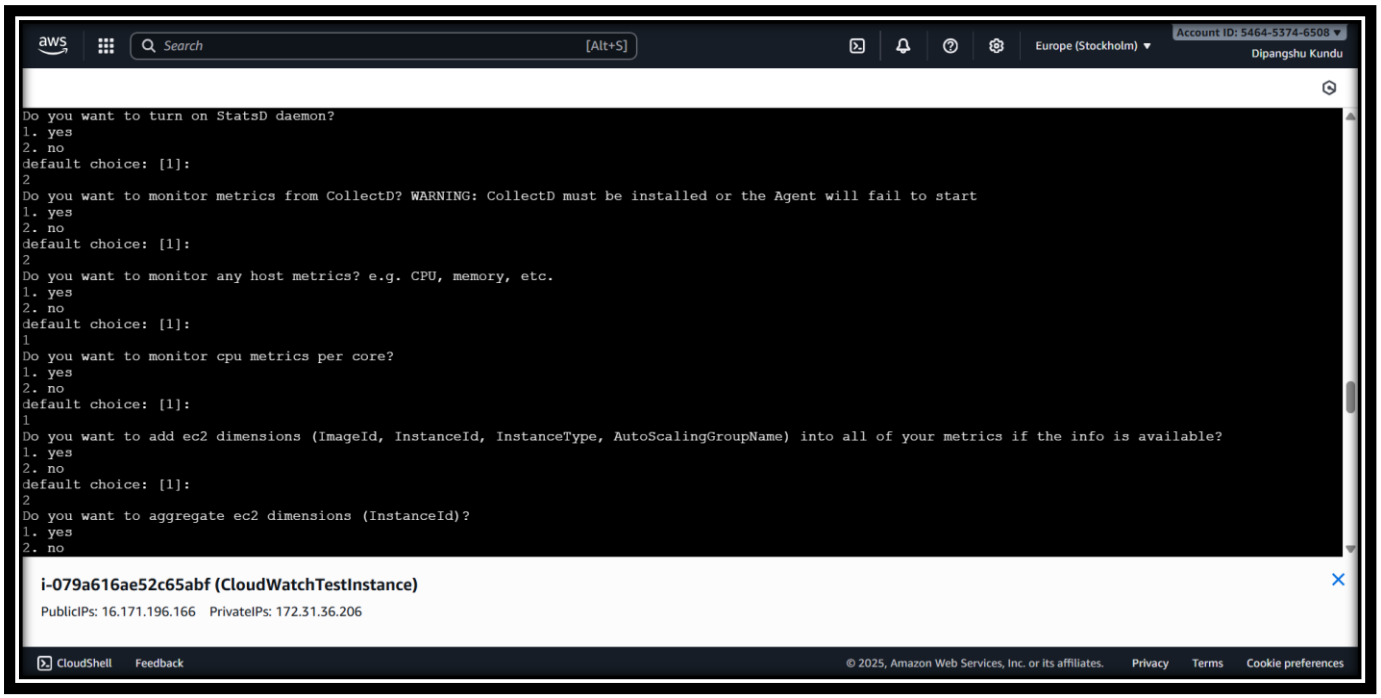
Search [Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
Do you want to turn on StatsD daemon?
1. yes
2. no
default choice: [1]:
2
Do you want to monitor metrics from CollectD? WARNING: CollectD must be installed or the Agent will fail to start
1. yes
2. no
default choice: [1]:
2
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]:
2
Do you want to aggregate ec2 dimensions (InstanceId)?
1. yes
2. no
i-079a616ae52c65abf (CloudWatchTestInstance)
PublicIPs: 16.171.196.166 PrivateIPs: 172.31.36.206
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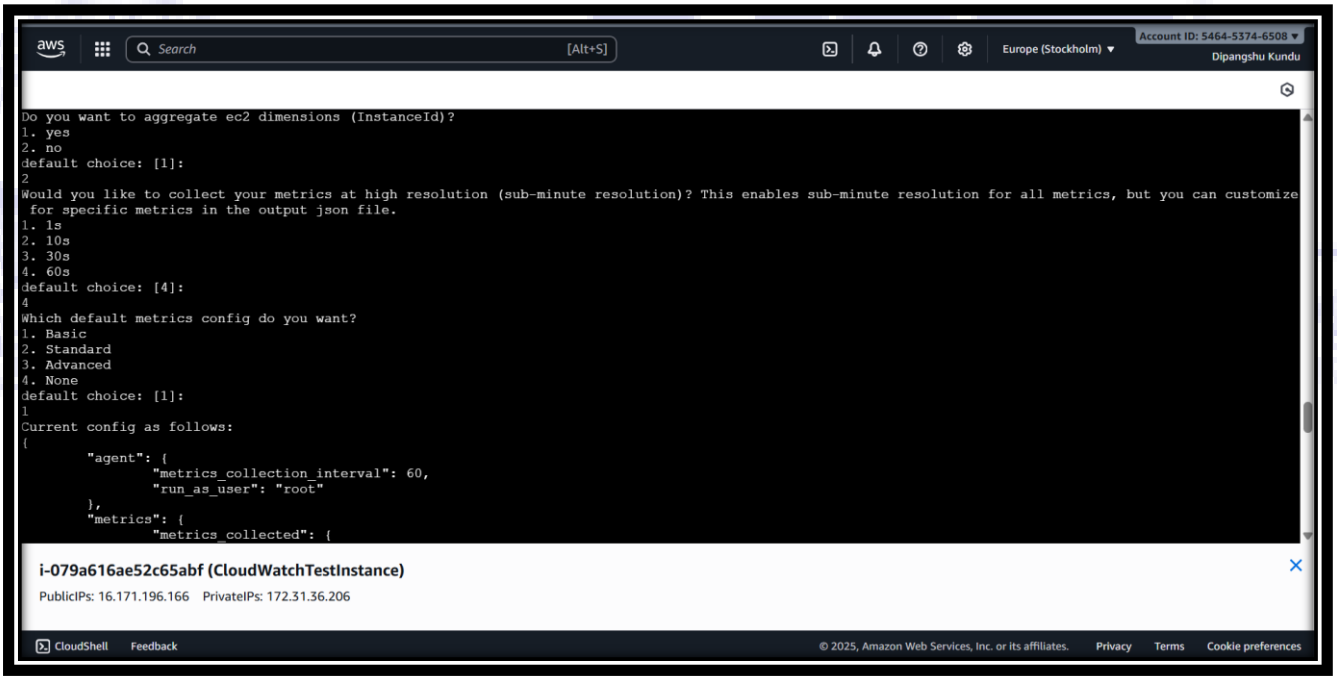
Search [Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
Do you want to aggregate ec2 dimensions (InstanceId)?
1. yes
2. no
default choice: [1]:
2
Would you like to collect your metrics at high resolution (sub-minute resolution)? This enables sub-minute resolution for all metrics, 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]:
1
Current config as follows:
{
"agent": {
"metrics_collection_interval": 60,
"run_as_user": "root"
},
"metrics": {
"metrics_collected": {
i-079a616ae52c65abf (CloudWatchTestInstance)
PublicIPs: 16.171.196.166 PrivateIPs: 172.31.36.206
CloudShell Feedback
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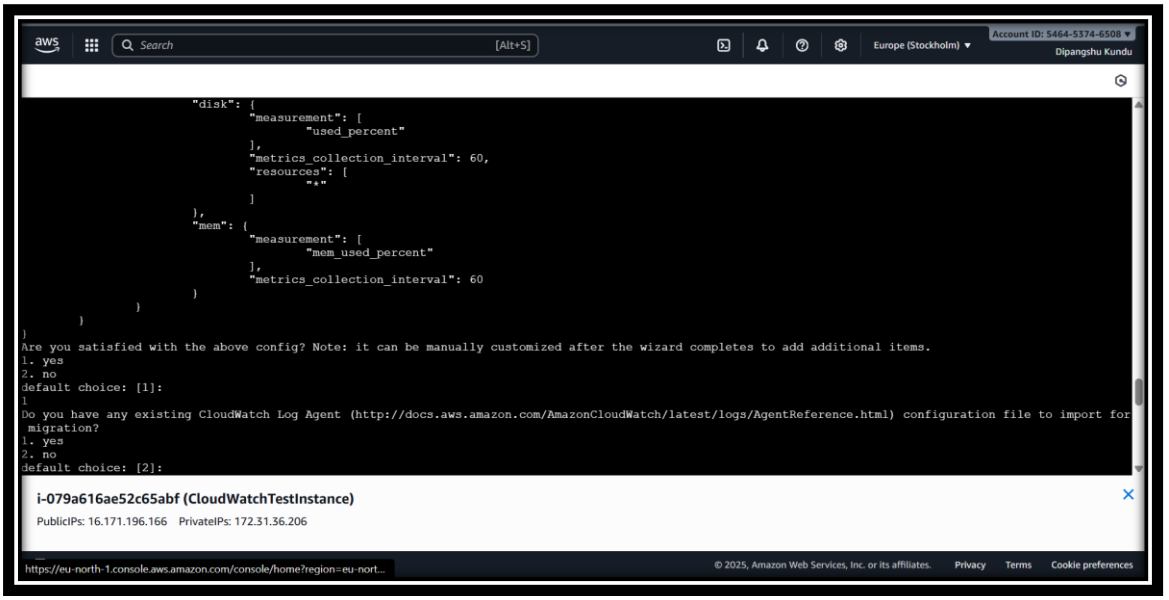
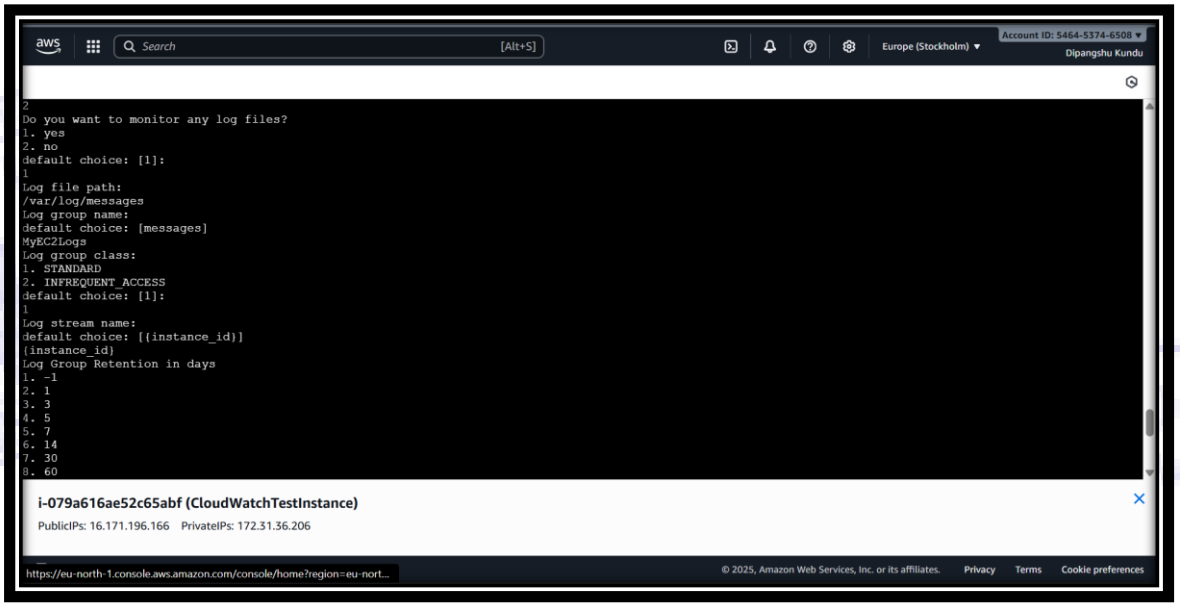
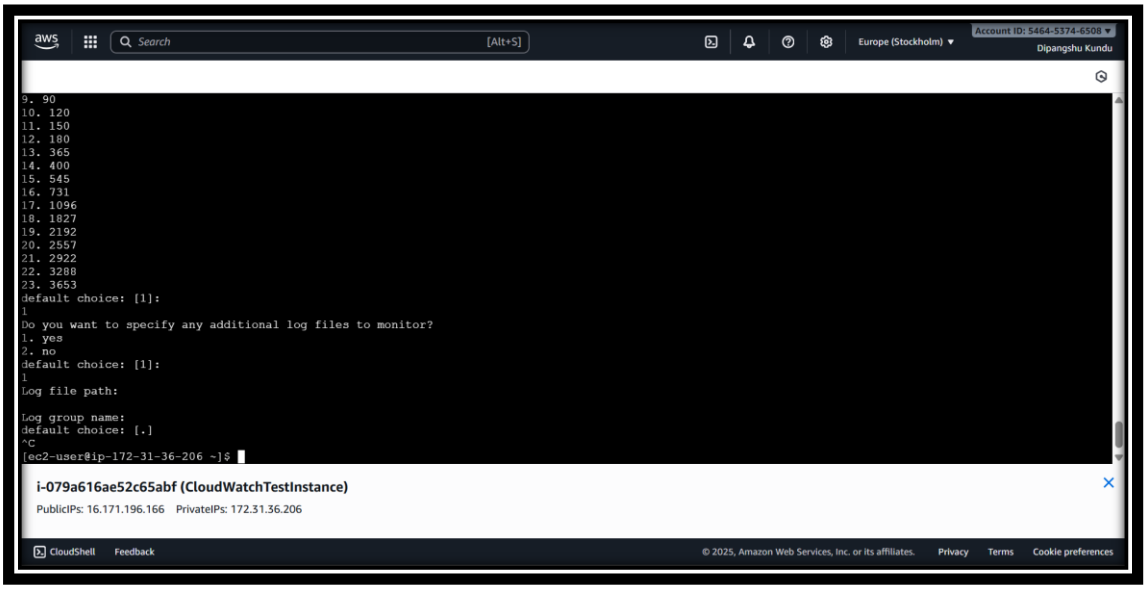

"disk": {
"measurement": [
"used_percent"
],
"metrics_collection_interval": 60,
"resources": [
"*"
]
},
"mem": {
"measurement": [
"mem_used_percent"
],
"metrics_collection_interval": 60
}
}
}
}
Are you satisfied with the above config? Note: it can be manually customized after the wizard completes to add additional items.
1. yes
2. no
default choice: [1]:
1
Do you have any existing CloudWatch Log Agent (http://docs.aws.amazon.com/AmazonCloudWatch/latest/logs/AgentReference.html) configuration file to import for migration?
1. yes
2. no
default choice: [2]:
i-079a616ae52c65abf (CloudWatchTestInstance)
PublicIPs: 16.171.196.166 PrivateIPs: 172.31.36.206


2
Do you want to monitor any log files?
1. yes
2. no
default choice: [1]:
1
Log file path:
/var/log/messages
Log group name:
default choice: [messages]
MyEC2Logs
Log group class:
1. STANDARD
2. INFREQUENT_ACCESS
default choice: [1]:
1
Log stream name:
default choice: [{instance_id}]
{instance_id}
Log Group Retention in days
1. -1
2. 1
3. 3
4. 5
5. 7
6. 14
7. 30
8. 60
i-079a616ae52c65abf (CloudWatchTestInstance)
PublicIPs: 16.171.196.166 PrivateIPs: 172.31.36.206

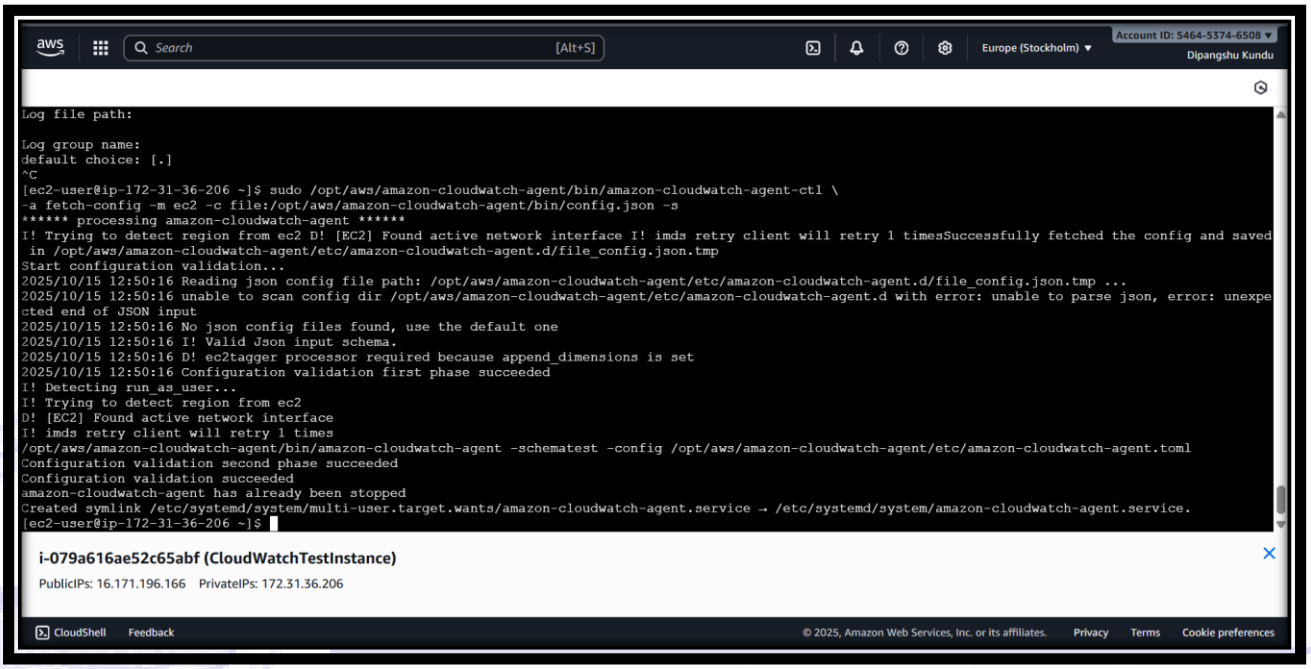

9. 90
10. 120
11. 150
12. 180
13. 365
14. 400
15. 545
16. 731
17. 1096
18. 1827
19. 2192
20. 2557
21. 2922
22. 3288
23. 3653
default choice: [1]:
1
Do you want to specify any additional log files to monitor?
1. yes
2. no
default choice: [1]:
1
Log file path:
Log group name:
default choice: [.]
^C
[ec2-user@ip-172-31-36-206 ~]$
i-079a616ae52c65abf (CloudWatchTestInstance)
PublicIPs: 16.171.196.166 PrivateIPs: 172.31.36.206

Step 3: Start the CloudWatch Agent

Once configuration is done, start the agent with:

```
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
```

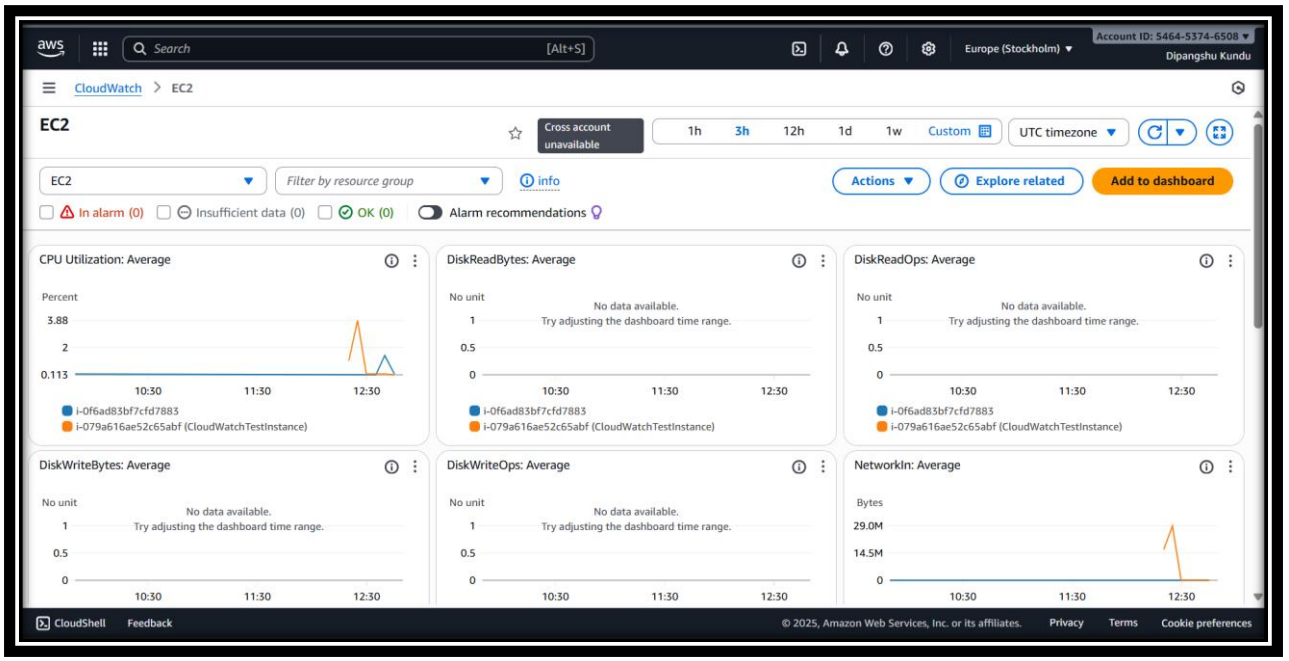
This fetches our monitoring configuration and starts sending metrics from our EC2 instance to CloudWatch.



Step 4: Verify Metrics in CloudWatch

- Go to AWS Console → CloudWatch → Metrics
- Click EC2 metrics
- We should see:
  - CPU Utilization
  - mem_used_percent (Memory)
  - disk_used_percent (Disk)

This confirms that our CloudWatch Agent is correctly sending data from your EC2 instance.


aws
Search
[Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
CloudWatch > EC2
EC2
Cross account unavailable
1h 3h 12h 1d 1w Custom
UTC timezone
EC2
Filter by resource group
info
Actions
Explore related
Add to dashboard
In alarm (0)
Insufficient data (0)
OK (0)
Alarm recommendations
CPU Utilization: Average
Percent
3.88
2
0.113
10:30 11:30 12:30
i-0f6ad83bf7cfd7883
i-079a616ae52c65abf (CloudWatchTestInstance)
DiskReadBytes: Average
No unit
No data available.
Try adjusting the dashboard time range.
DiskReadOps: Average
No unit
No data available.
Try adjusting the dashboard time range.
DiskWriteBytes: Average
No unit
No data available.
Try adjusting the dashboard time range.
DiskWriteOps: Average
No unit
No data available.
Try adjusting the dashboard time range.
NetworkIn: Average
Bytes
29.0M
14.5M
CloudShell
Feedback
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Privacy
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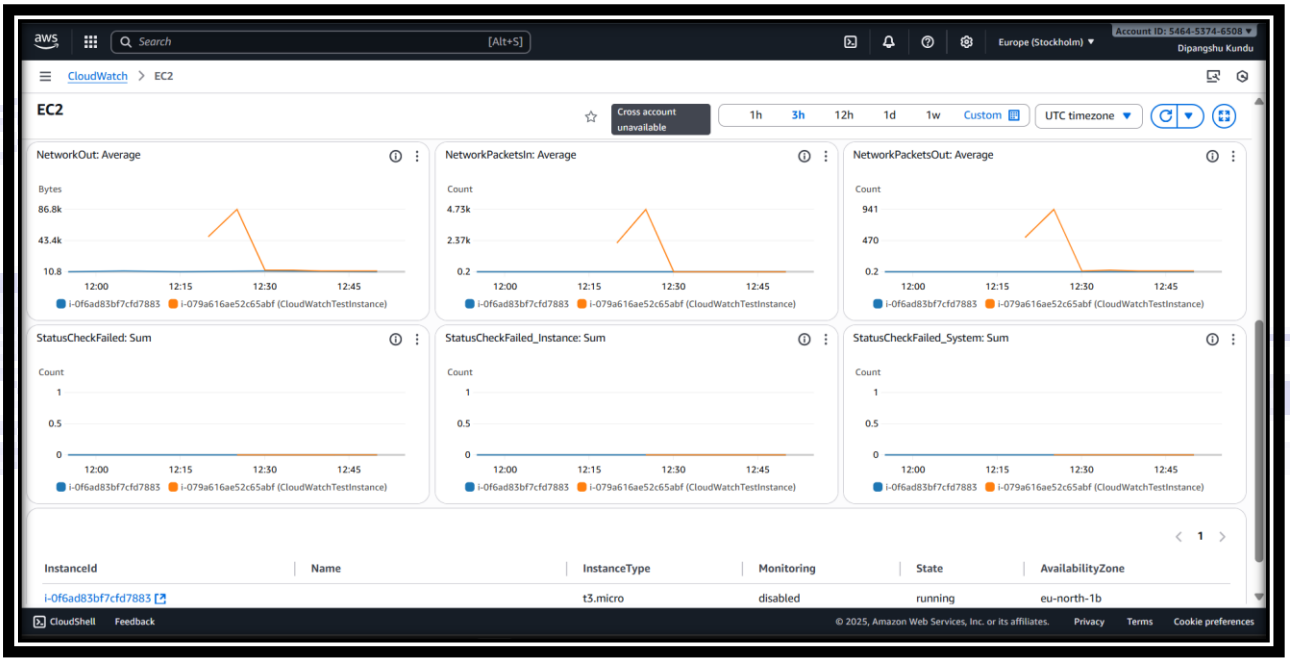
aws
Search
[Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
CloudWatch > EC2
EC2
Cross account unavailable
1h 3h 12h 1d 1w Custom
UTC timezone
NetworkOut: Average
Bytes
86.8k
43.4k
10.8
NetworkPacketsIn: Average
Count
4.73k
2.37k
0.2
NetworkPacketsOut: Average
Count
941
470
0.2
12:00 12:15 12:30 12:45
i-0f6ad83bf7cfd7883
i-079a616ae52c65abf (CloudWatchTestInstance)
StatusCheckFailed: Sum
StatusCheckFailed_Instance: Sum
StatusCheckFailed_System: Sum
Count
1
0.5
0
InstanceId
Name
InstanceType
Monitoring
State
AvailabilityZone
i-0f6ad83bf7cfd7883
t3.micro
disabled
running
eu-north-1b
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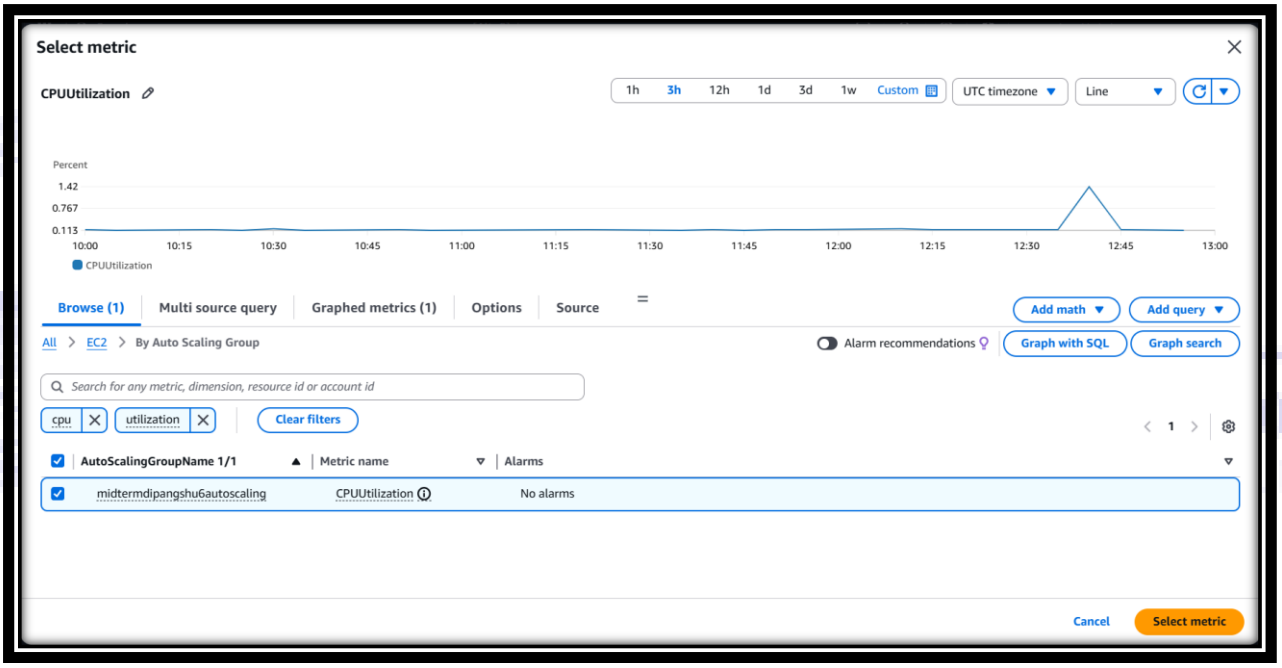
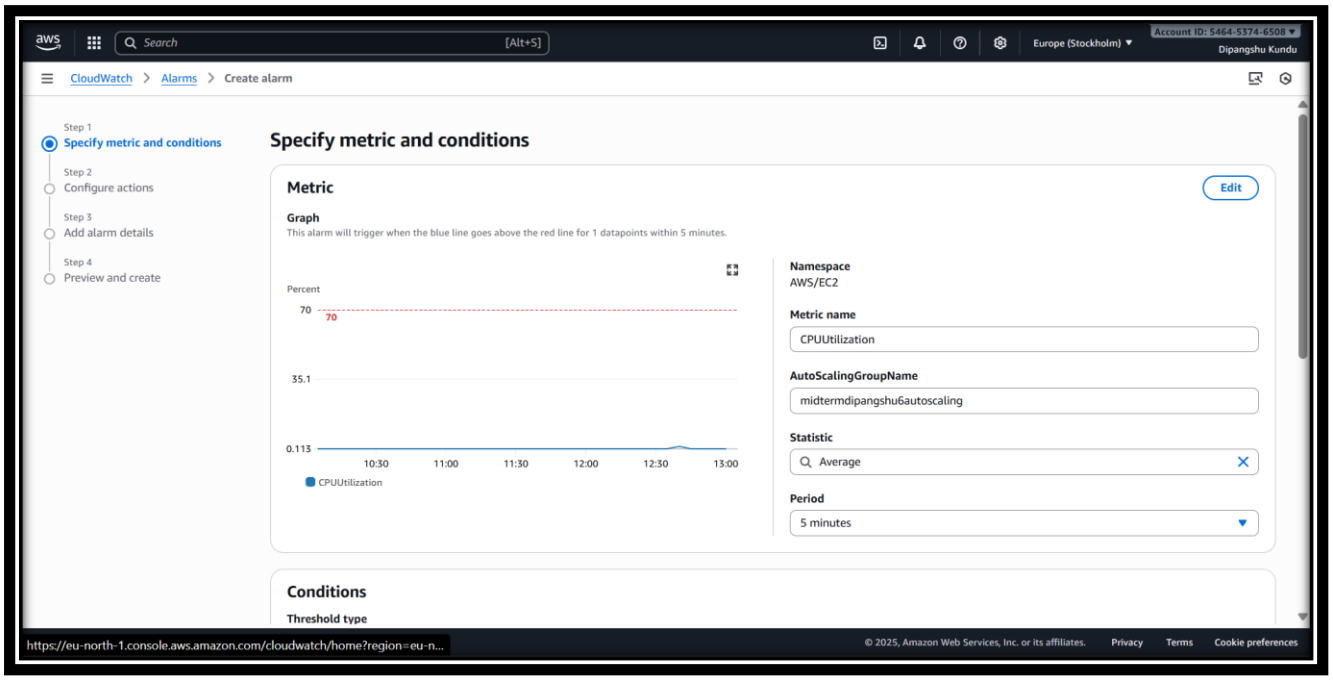
Step 5: Create a CloudWatch Alarm

- Go to **CloudWatch Console → Alarms → Create Alarm**
- Select metric: **CPU Utilization**
- Set condition:
  - **Greater than 70%**
  - For **2 consecutive 5-minute periods**
- Notification:
  - Create or select **SNS Topic**
  - Add our **email** to receive alerts
- Click **Create alarm**

A **CloudWatch Alarm** notifies you when something goes wrong. Here, if CPU usage goes too high, you'll get an **email alert**—this is proactive monitoring.




Search [Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
CloudWatch > Alarms > Create alarm
Step 1
Specify metric and conditions
Step 2
Configure actions
Step 3
Add alarm details
Step 4
Preview and create
Specify metric and conditions
Metric
Edit
Graph
This alarm will trigger when the blue line goes above the red line for 1 datapoints within 5 minutes.
Percent
70
35.1
0.113
10:30
11:00
11:30
12:00
12:30
13:00
CPUUtilization
Namespace
AWS/EC2
Metric name
CPUUtilization
AutoScalingGroupName
midtermdipangshu6autoscaling
Statistic
Average
Period
5 minutes
Conditions
Threshold type
https://eu-north-1.console.aws.amazon.com/cloudwatch/home?region=eu-n...
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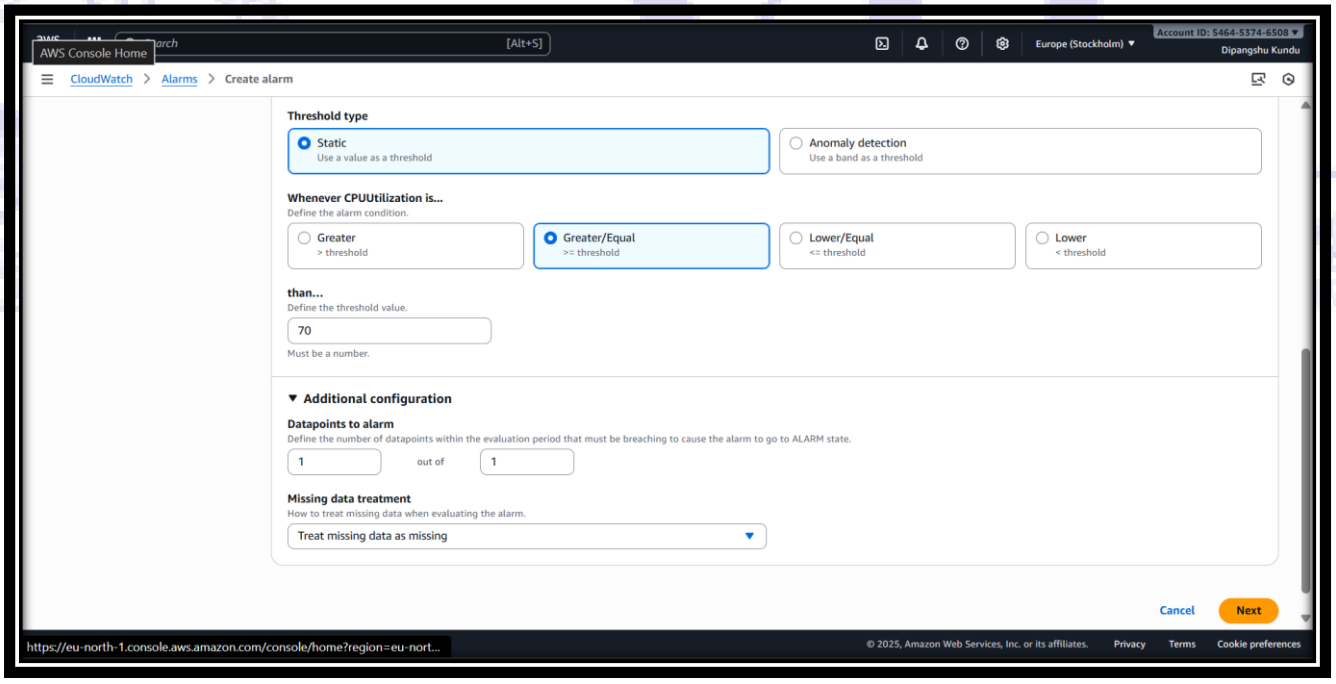
AWS Console Home
[Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
CloudWatch > Alarms > Create alarm
Threshold type
Static
Use a value as a threshold
Anomaly detection
Use a band as a threshold
Whenever CPUUtilization is...
Define the alarm condition.
Greater
> threshold
Greater/Equal
>= threshold
Lower/Equal
<= threshold
Lower
< threshold
than...
Define the threshold value.
70
Must be a number.
Additional configuration
Datapoints to alarm
Define the number of datapoints within the evaluation period that must be breaching to cause the alarm to go to ALARM state.
1
out of
1
Missing data treatment
How to treat missing data when evaluating the alarm.
Treat missing data as missing
Cancel
Next
https://eu-north-1.console.aws.amazon.com/console/home?region=eu-nort...
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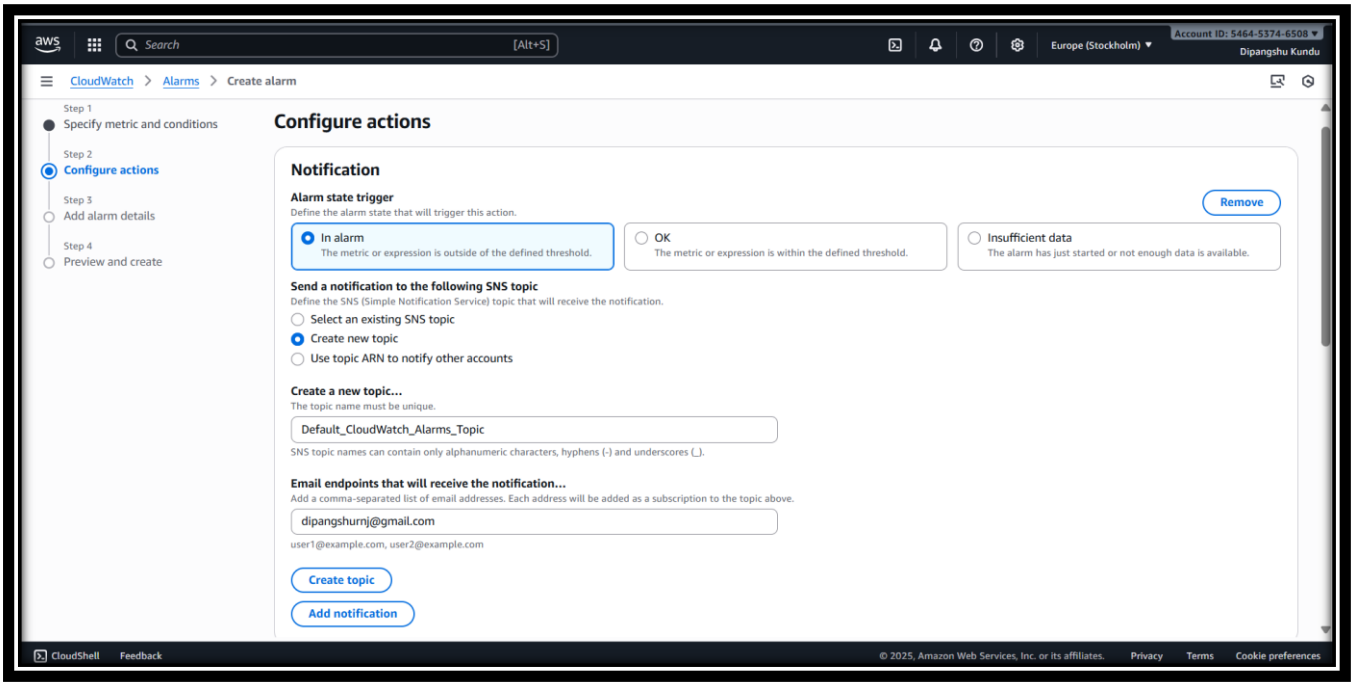
Search [Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
CloudWatch > Alarms > Create alarm
Step 1
Specify metric and conditions
Step 2
Configure actions
Step 3
Add alarm details
Step 4
Preview and create
Configure actions
Notification
Alarm state trigger
Define the alarm state that will trigger this action.
Remove
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.
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
Create a new topic...
The topic name must be unique.
Default_CloudWatch_Alarms_Topic
SNS topic names can contain only alphanumeric characters, hyphens (-) and underscores (_).
Email endpoints that will receive the notification...
Add a comma-separated list of email addresses. Each address will be added as a subscription to the topic above.
dipangshurnj@gmail.com
user1@example.com, user2@example.com
Create topic
Add notification
CloudShell
Feedback
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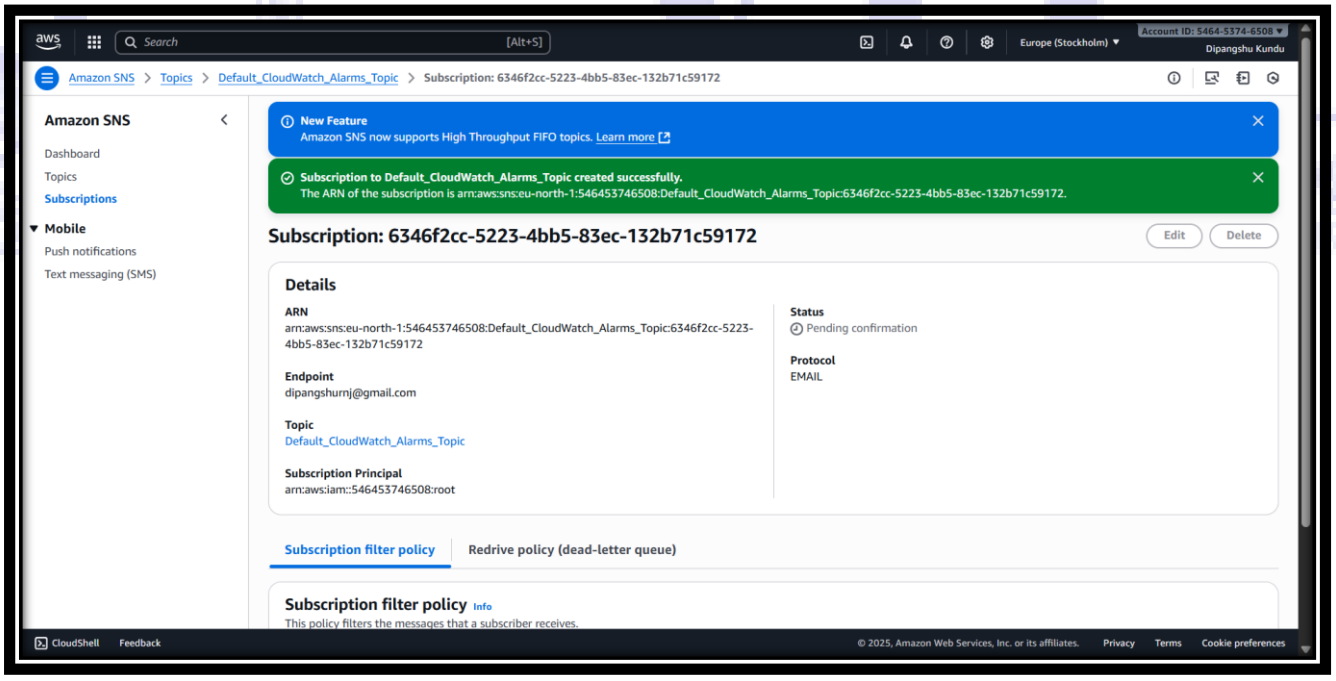
Search [Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
Amazon SNS > Topics > Default_CloudWatch_Alarms_Topic > Subscription: 6346f2cc-5223-4bb5-83ec-132b71c59172
Amazon SNS
Dashboard
Topics
Subscriptions
Mobile
Push notifications
Text messaging (SMS)
New Feature
Amazon SNS now supports High Throughput FIFO topics. Learn more
Subscription to Default_CloudWatch_Alarms_Topic created successfully.
The ARN of the subscription is arn:aws:sns:eu-north-1:546453746508:Default_CloudWatch_Alarms_Topic:6346f2cc-5223-4bb5-83ec-132b71c59172.
Subscription: 6346f2cc-5223-4bb5-83ec-132b71c59172
Edit
Delete
Details
ARN
arn:aws:sns:eu-north-1:546453746508:Default_CloudWatch_Alarms_Topic:6346f2cc-5223-4bb5-83ec-132b71c59172
Endpoint
dipangshurnj@gmail.com
Topic
Default_CloudWatch_Alarms_Topic
Subscription Principal
arn:aws:iam::546453746508:root
Status
Pending confirmation
Protocol
EMAIL
Subscription filter policy
Redrive policy (dead-letter queue)
Subscription filter policy Info
This policy filters the messages that a subscriber receives.
CloudShell
Feedback
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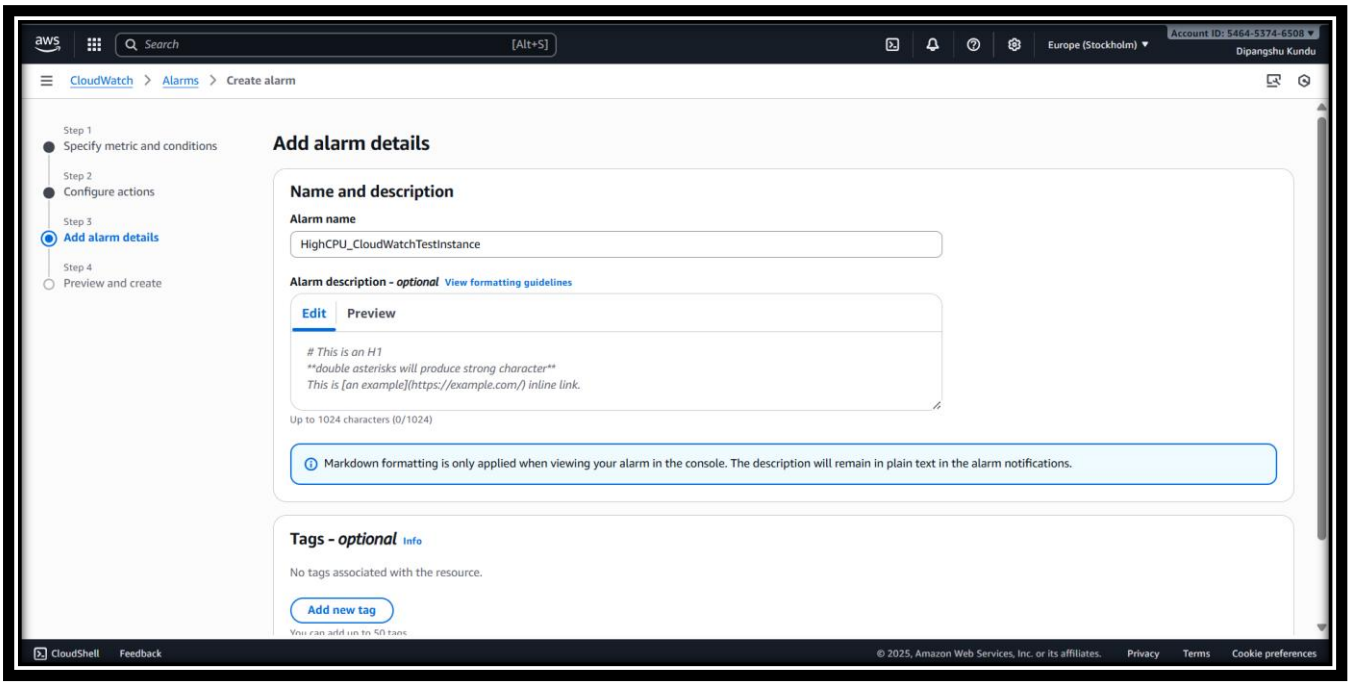
aws
Search
[Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
CloudWatch > Alarms > Create alarm
Step 1
Specify metric and conditions
Step 2
Configure actions
Step 3
Add alarm details
Step 4
Preview and create
Add alarm details
Name and description
Alarm name
HighCPU_CloudWatchTestInstance
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.
Tags - optional Info
No tags associated with the resource.
Add new tag
You can add up to 50 tags
CloudShell
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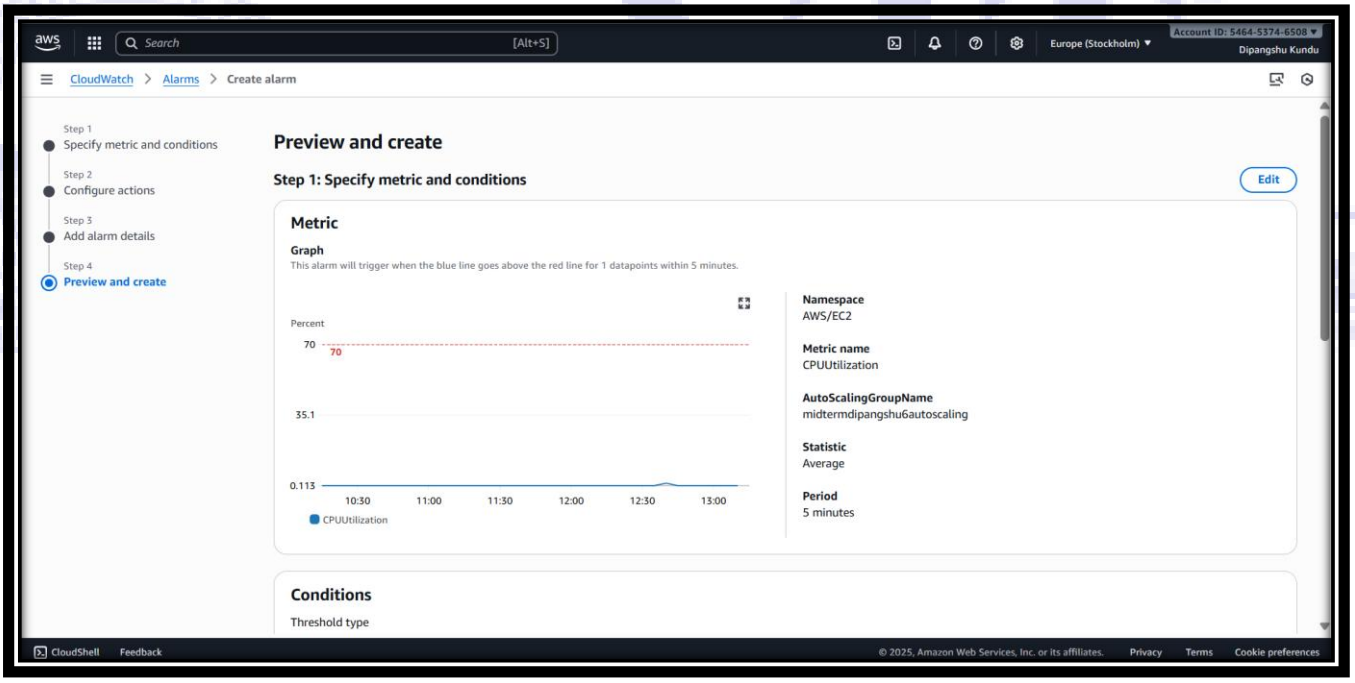
aws
Search
[Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
CloudWatch > Alarms > Create alarm
Step 1
Specify metric and conditions
Step 2
Configure actions
Step 3
Add alarm details
Step 4
Preview and create
Preview and create
Step 1: Specify metric and conditions
Edit
Metric
Graph
This alarm will trigger when the blue line goes above the red line for 1 datapoints within 5 minutes.
Percent
70
70
35.1
0.113
10:30
11:00
11:30
12:00
12:30
13:00
CPUUtilization
Namespace
AWS/EC2
Metric name
CPUUtilization
AutoScalingGroupName
midtermdipangshu6autoscaling
Statistic
Average
Period
5 minutes
Conditions
Threshold type
CloudShell
Feedback
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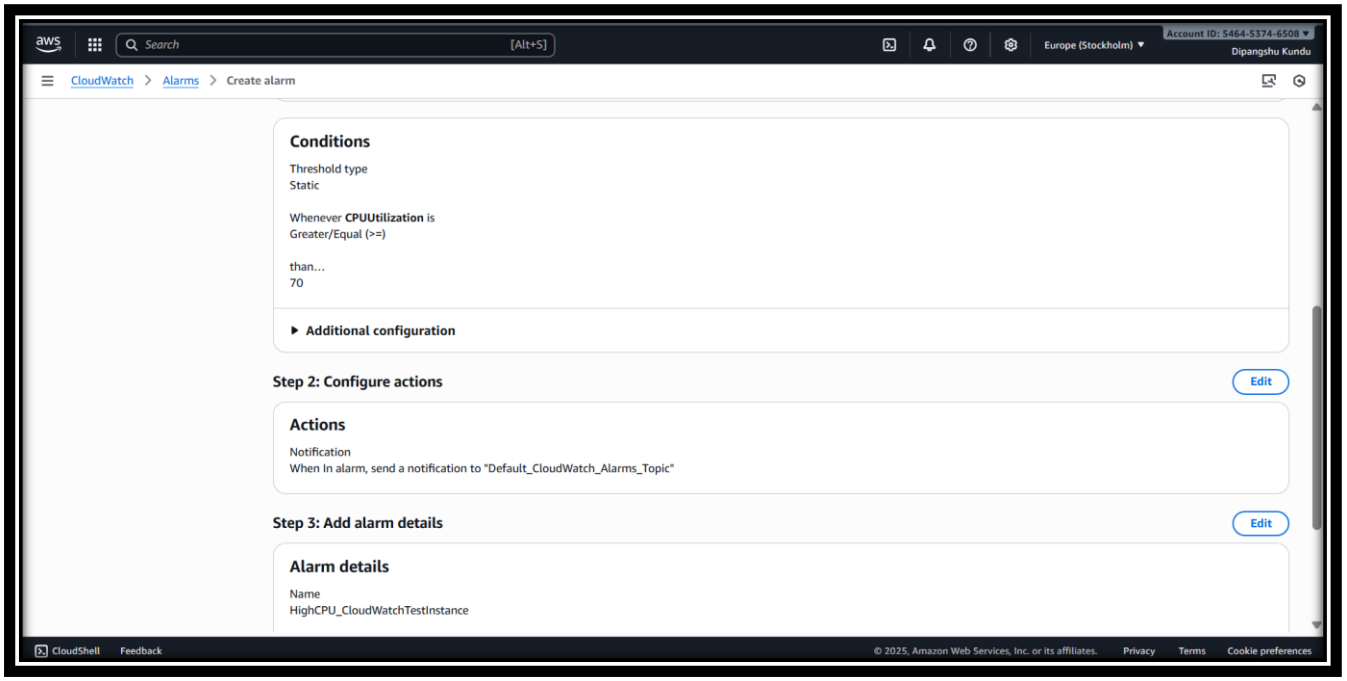
aws
Search
[Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
CloudWatch > Alarms > Create alarm
Conditions
Threshold type
Static
Whenever CPUUtilization is
Greater/Equal (>=)
than...
70
Additional configuration
Step 2: Configure actions
Edit
Actions
Notification
When In alarm, send a notification to "Default_CloudWatch_Alarms_Topic"
Step 3: Add alarm details
Edit
Alarm details
Name
HighCPU_CloudWatchTestInstance
CloudShell
Feedback
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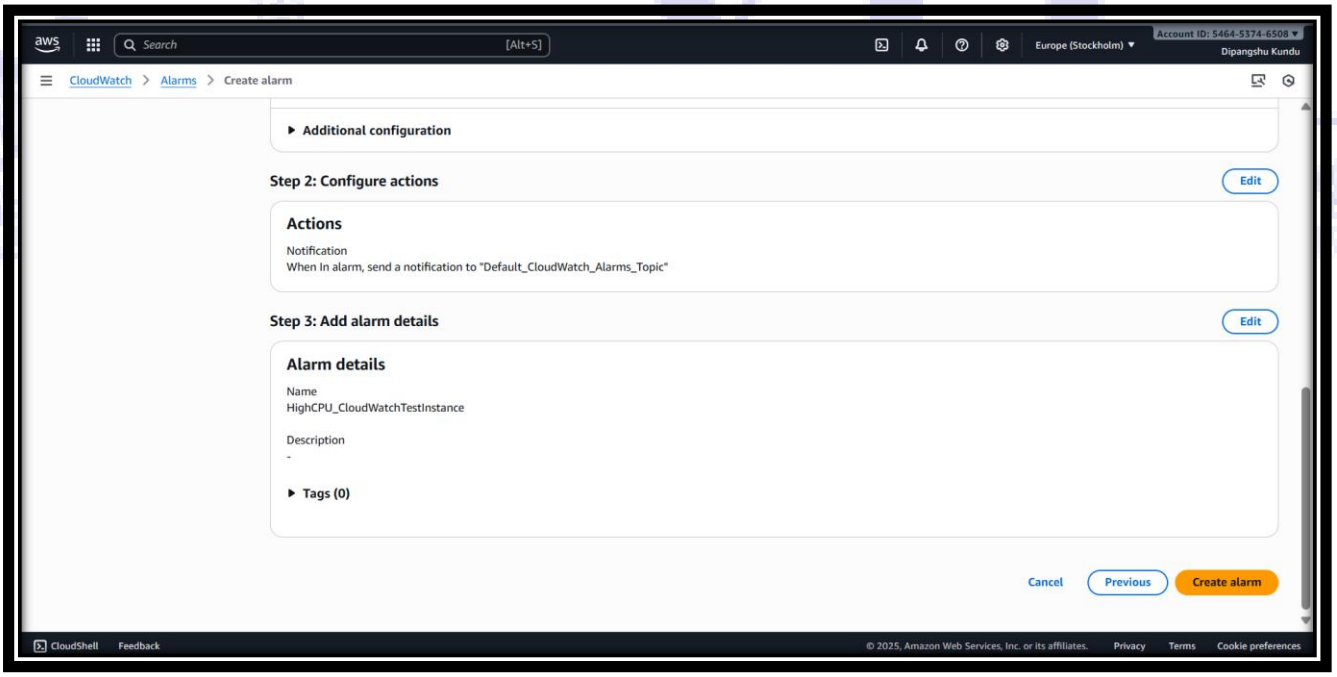
aws
Search
[Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
CloudWatch > Alarms > Create alarm
Additional configuration
Step 2: Configure actions
Edit
Actions
Notification
When In alarm, send a notification to "Default_CloudWatch_Alarms_Topic"
Step 3: Add alarm details
Edit
Alarm details
Name
HighCPU_CloudWatchTestInstance
Description
-
Tags (0)
Cancel
Previous
Create alarm
CloudShell
Feedback
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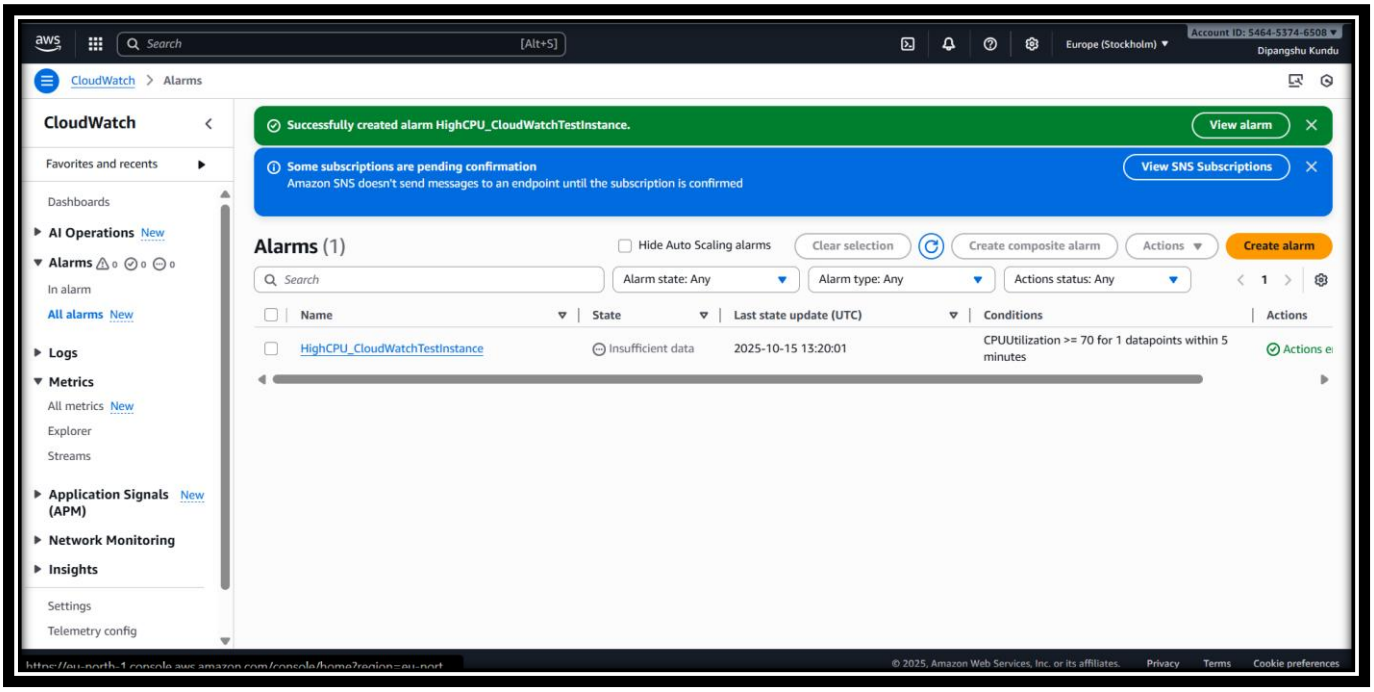
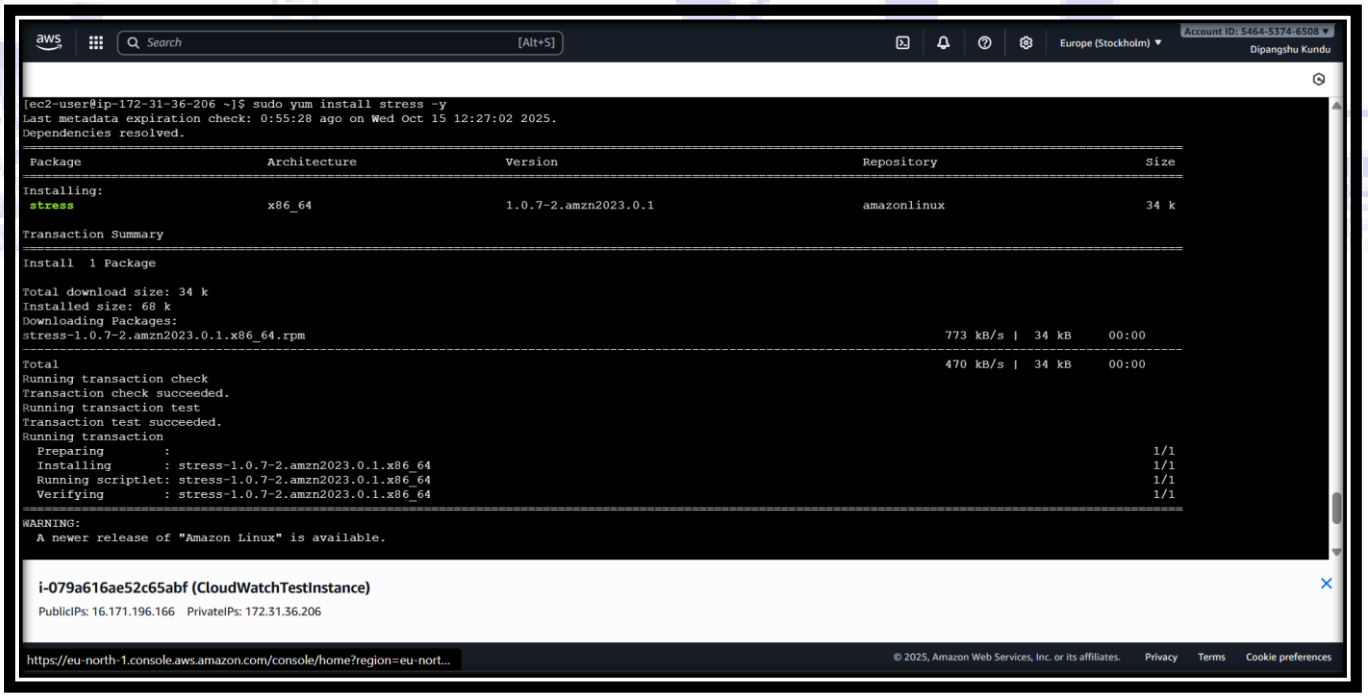
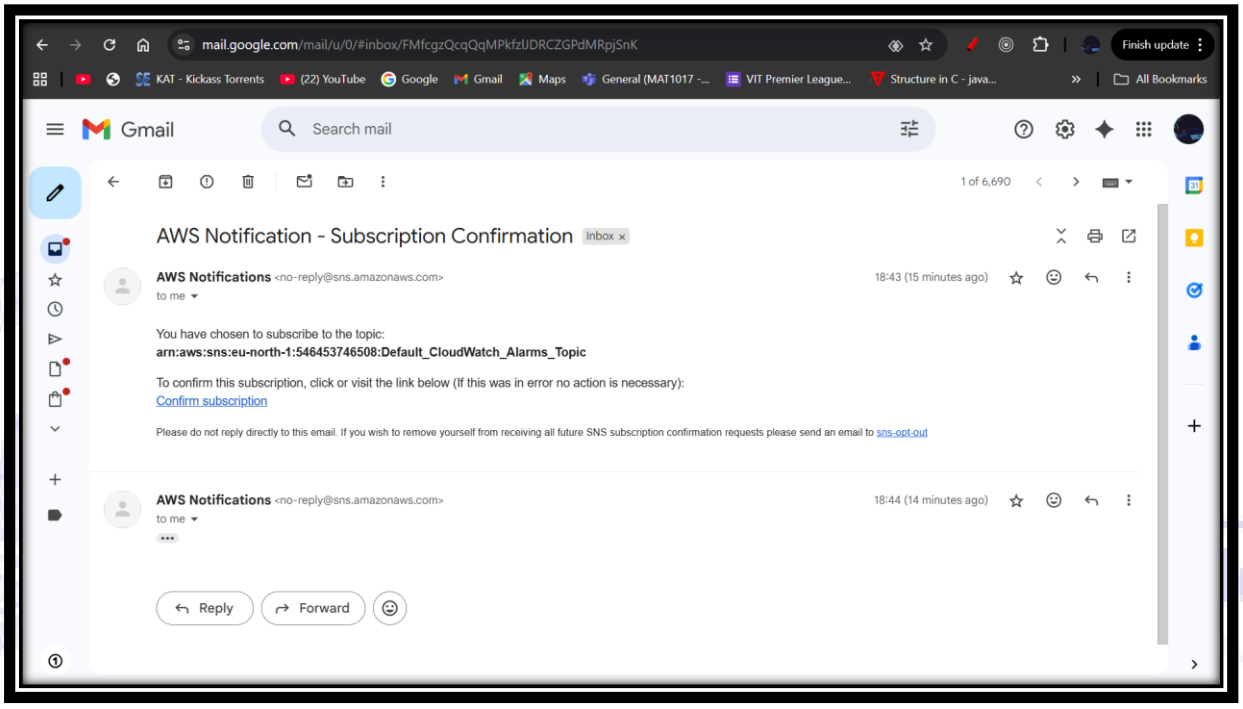
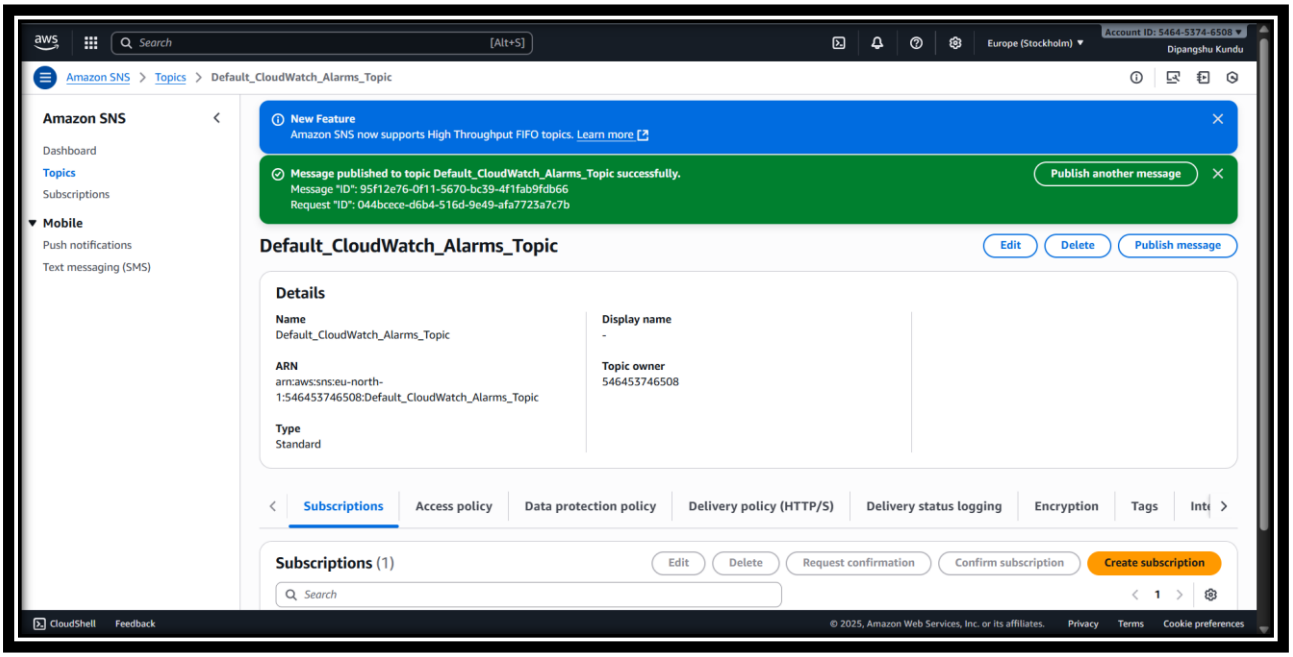


SENDING ALARM NOTIFICATION PROCESS




Search [Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
CloudWatch > EC2
EC2
Cross account unavailable
1h 3h 12h 1d 1w Custom
UTC timezone
Alarms
HighCPU_CloudWatchTestInstance
Percent
70
CPUUtilization >= 70 for 1 datapoints within 5 mi...
35.1
0.113
10:30
11:30
12:30
CPUUtilization


mail.google.com/mail/u/0/#inbox/FMfcgzQcqQqMPkfzlJDRCZGPdMRpjSnK
Finish update
KAT - Kickass Torrents
(22) YouTube
Google
Gmail
Maps
General (MAT1017 -...
VIT Premier League...
Structure in C - java...
All Bookmarks
Gmail
Search mail
1 of 6,690
AWS Notification - Subscription Confirmation
Inbox
AWS Notifications <no-reply@sns.amazonaws.com>
to me
18:43 (15 minutes ago)
You have chosen to subscribe to the topic:
arn:aws:sns:eu-north-1:546453746508:Default_CloudWatch_Alarms_Topic
To confirm this subscription, click or visit the link below (If this was in error no action is necessary):
Confirm subscription
Please do not reply directly to this email. If you wish to remove yourself from receiving all future SNS subscription confirmation requests please send an email to sns-opt-out
AWS Notifications <no-reply@sns.amazonaws.com>
to me
18:44 (14 minutes ago)
Reply
Forward


Search [Alt+S]
Europe (Stockholm)
Account ID: 5464-5374-6508
Dipangshu Kundu
Amazon SNS > Topics > Default_CloudWatch_Alarms_Topic
Amazon SNS
Dashboard
Topics
Subscriptions
Mobile
Push notifications
Text messaging (SMS)
New Feature
Amazon SNS now supports High Throughput FIFO topics. Learn more
Message published to topic Default_CloudWatch_Alarms_Topic successfully.
Message "ID": 95f12e76-0f11-5670-bc39-4f1fab9fdb66
Request "ID": 044bcece-d6b4-516d-9e49-afa7723a7c7b
Publish another message
Default_CloudWatch_Alarms_Topic
Edit
Delete
Publish message
Details
Name
Default_CloudWatch_Alarms_Topic
Display name
-
ARN
arn:aws:sns:eu-north-1:546453746508:Default_CloudWatch_Alarms_Topic
Topic owner
546453746508
Type
Standard
Subscriptions
Access policy
Data protection policy
Delivery policy (HTTP/S)
Delivery status logging
Encryption
Tags
Subscriptions (1)
Edit
Delete
Request confirmation
Confirm subscription
Create subscription
Search
CloudShell
Feedback
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