## AWS SQS (Simple Queue Service)

- **A message queuing service.**

## AWS SNS (Simple Notification Service)

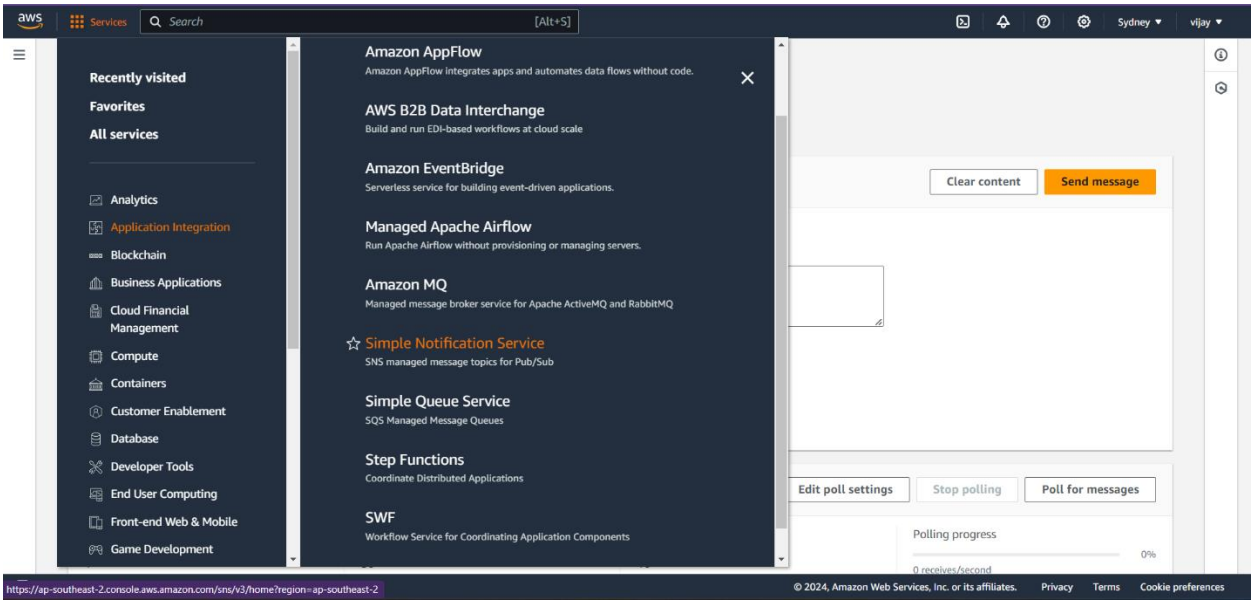
- A notification service for sending messages to multiple subscribers.

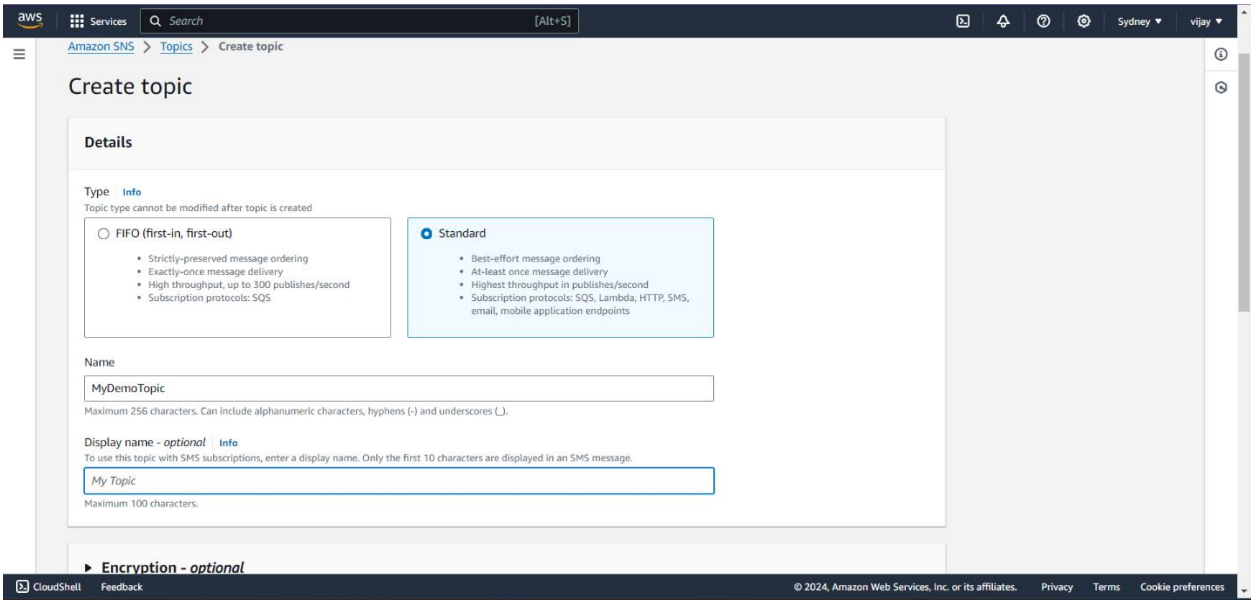
## AWS CloudWatch

- A monitoring and management service for AWS resources and applications.

Select the service :

Application integration -----> Simple Notification Service




Services
Search
[Alt+S]
Sydney
vijay
Amazon SNS > Topics > Create topic
Create topic
Details
Type Info
Topic type cannot be modified after topic is created
FIFO (first-in, first-out)
Strictly-preserved message ordering
Exactly-once message delivery
High throughput, up to 300 publishes/second
Subscription protocols: SQS
Standard
Best-effort message ordering
At-least once message delivery
Highest throughput in publishes/second
Subscription protocols: SQS, Lambda, HTTP, SMS, email, mobile application endpoints
Name
MyDemoTopic
Maximum 256 characters. Can include alphanumeric characters, hyphens (-) and underscores (_).
Display name - optional Info
To use this topic with SMS subscriptions, enter a display name. Only the first 10 characters are displayed in an SMS message.
My Topic
Maximum 100 characters.
Encryption - optional
CloudShell
Feedback
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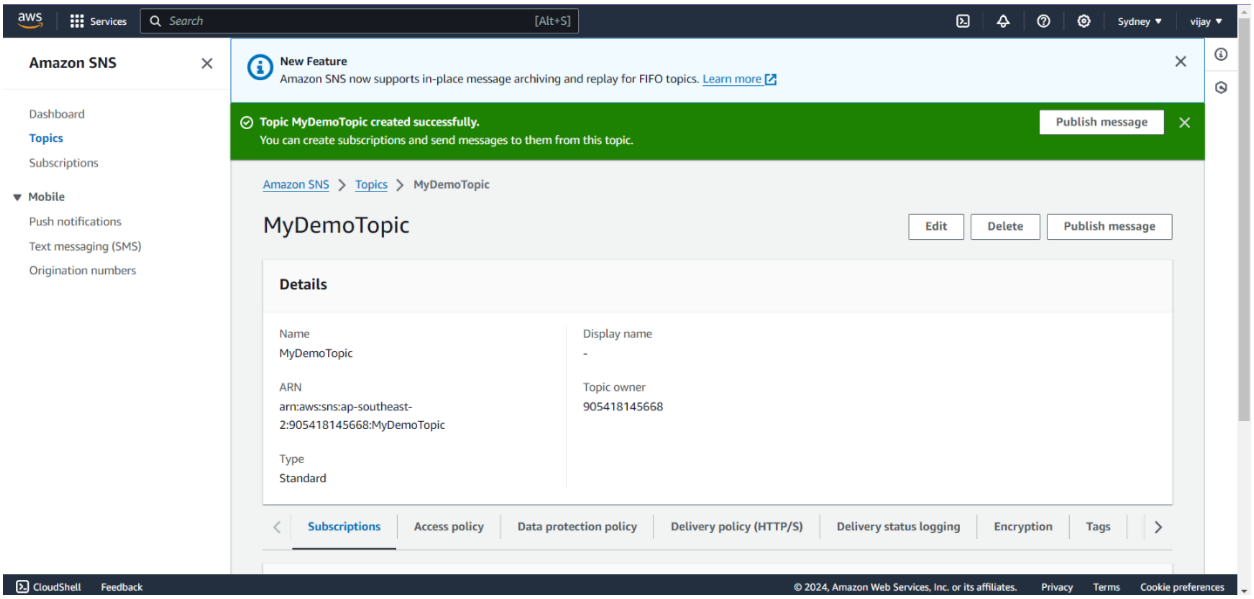
Services
Search
[Alt+S]
Sydney
vijay
Amazon SNS
Dashboard
Topics
Subscriptions
Mobile
Push notifications
Text messaging (SMS)
Origination numbers
New Feature
Amazon SNS now supports in-place message archiving and replay for FIFO topics. Learn more
Topic MyDemoTopic created successfully.
You can create subscriptions and send messages to them from this topic.
Publish message
Amazon SNS > Topics > MyDemoTopic
MyDemoTopic
Edit
Delete
Publish message
Details
Name
MyDemoTopic
Display name
-
ARN
arn:aws:sns:ap-southeast-2:905418145668:MyDemoTopic
Topic owner
905418145668
Type
Standard
Subscriptions
Access policy
Data protection policy
Delivery policy (HTTP/S)
Delivery status logging
Encryption
Tags
CloudShell
Feedback
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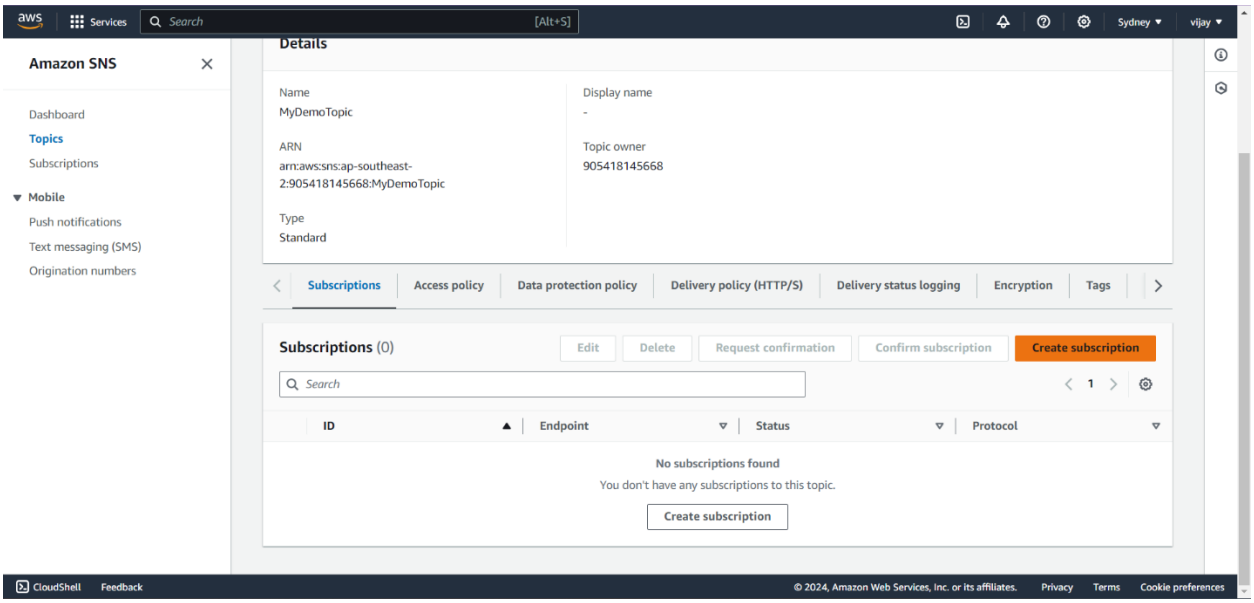
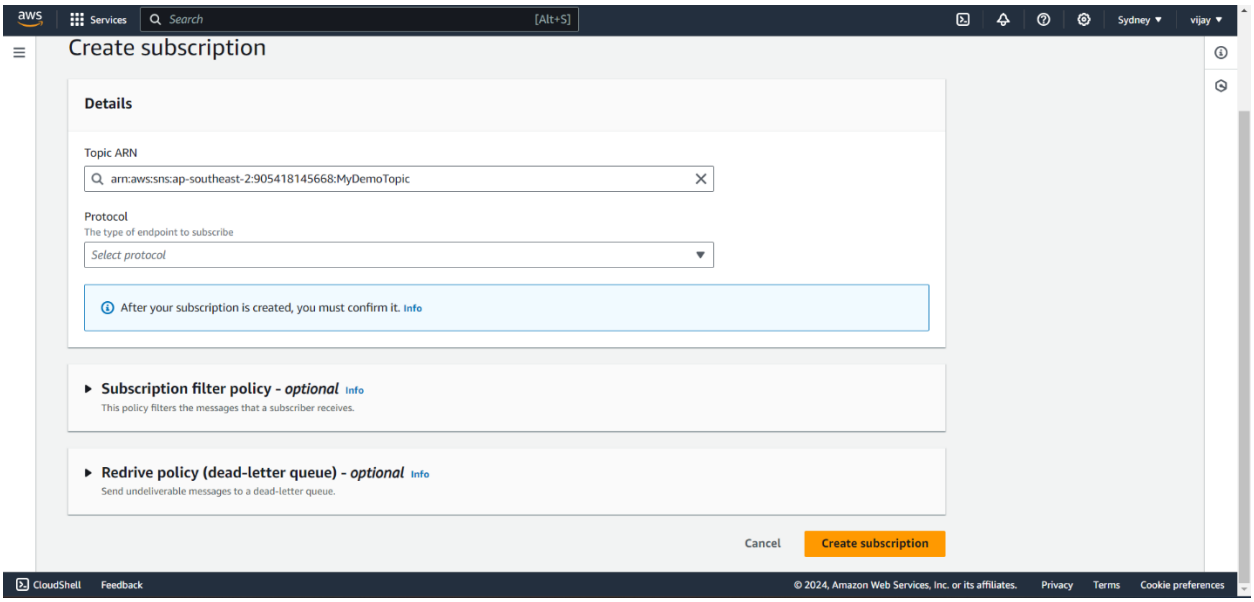
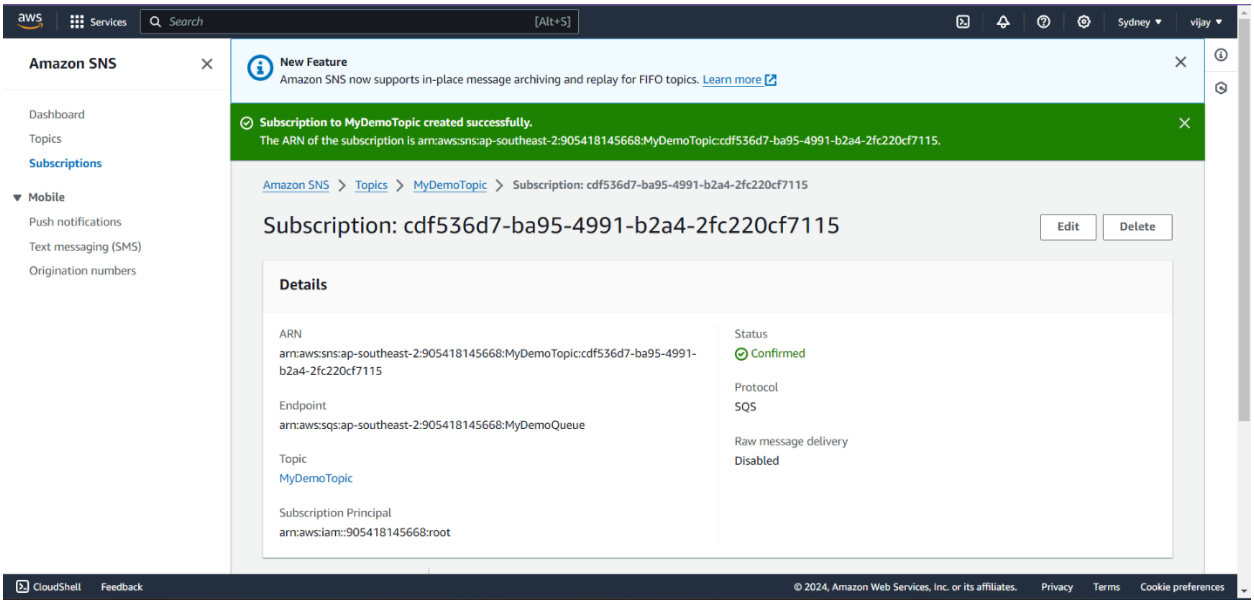
# Create the Subscription : SQS, Email, SMS

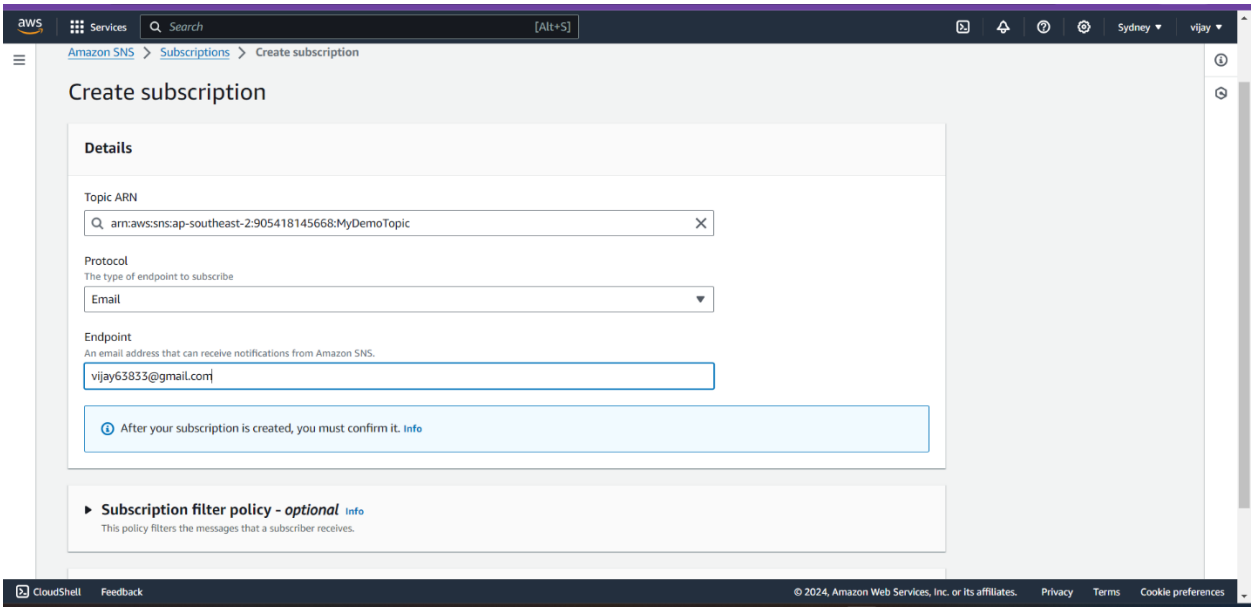


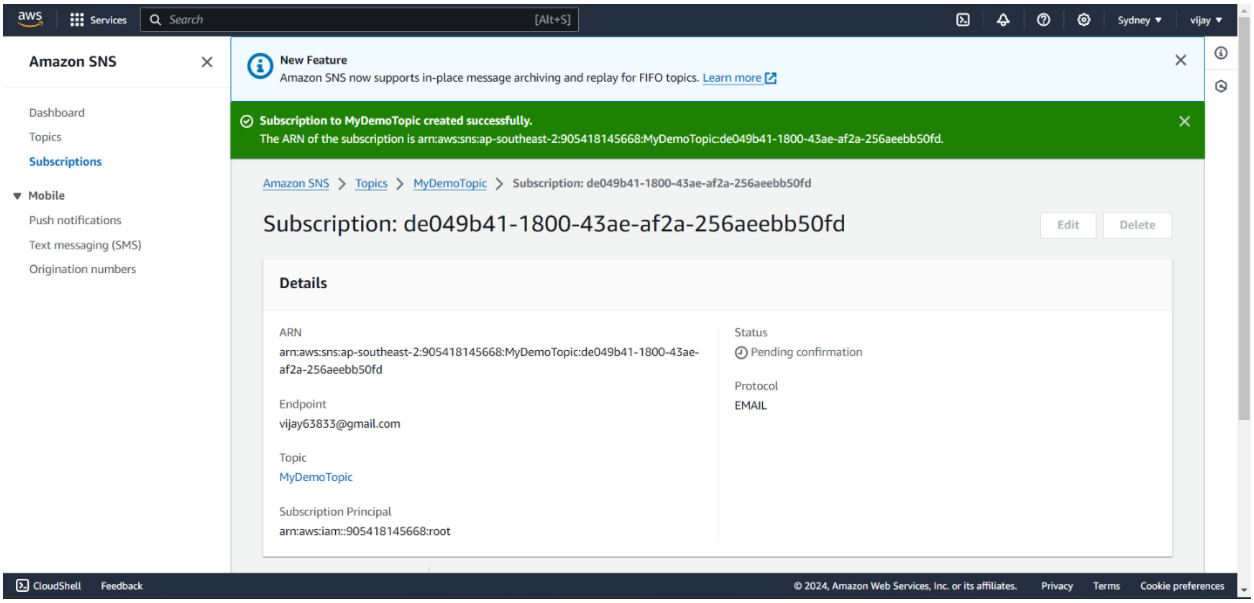



Created the Subscription for SQS:

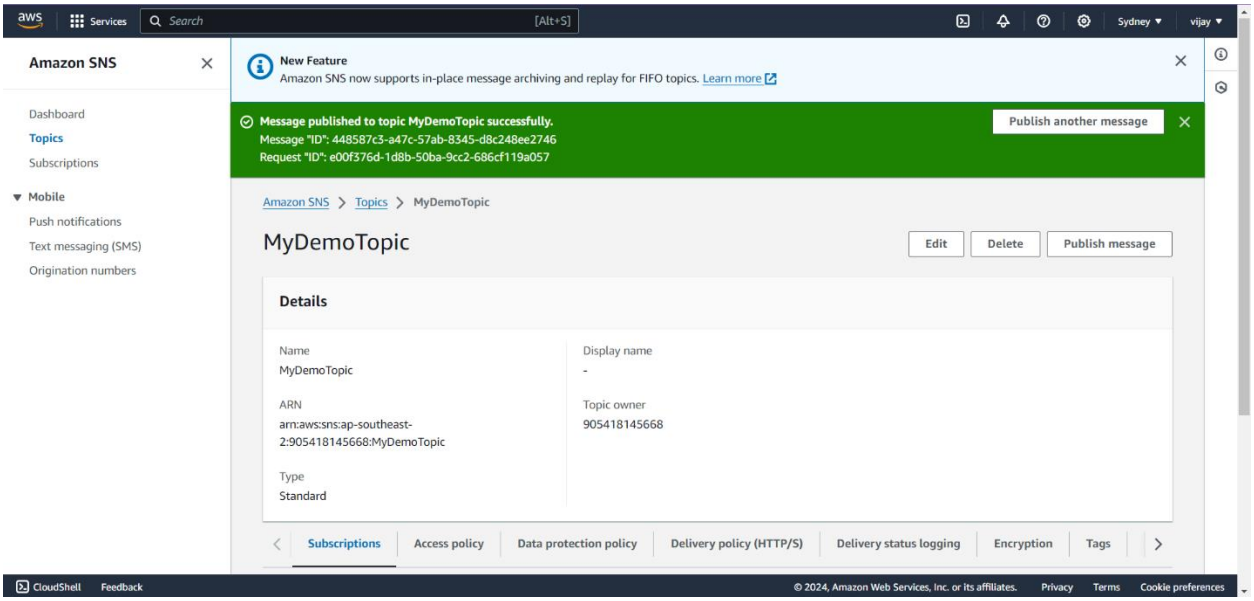



Creating Subscription for Email:

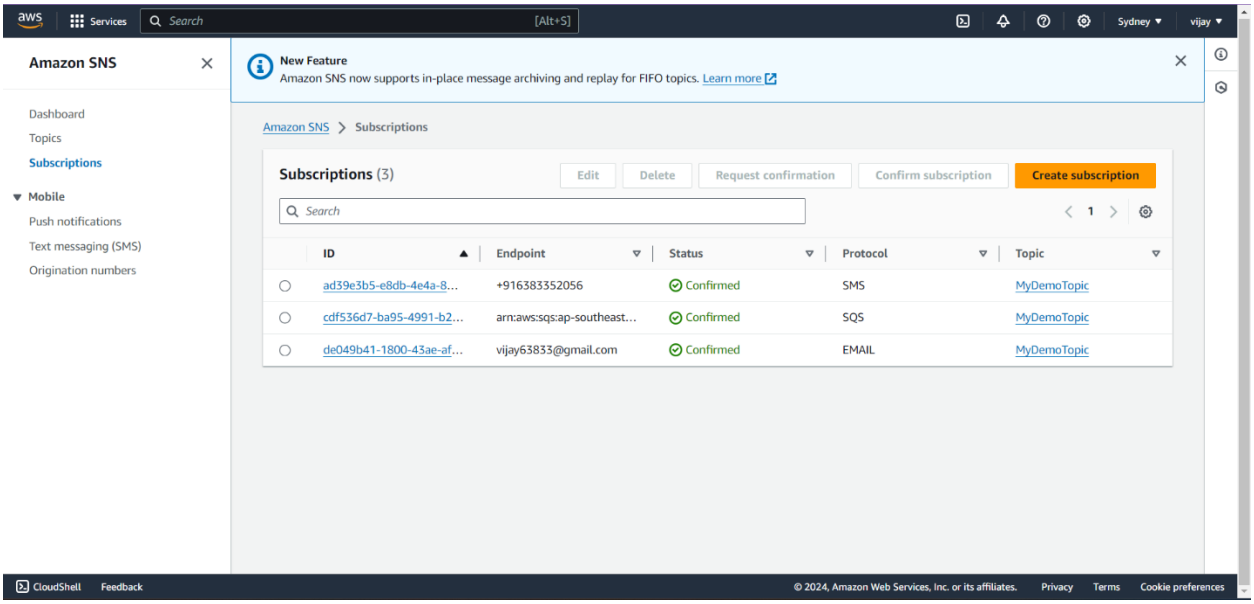




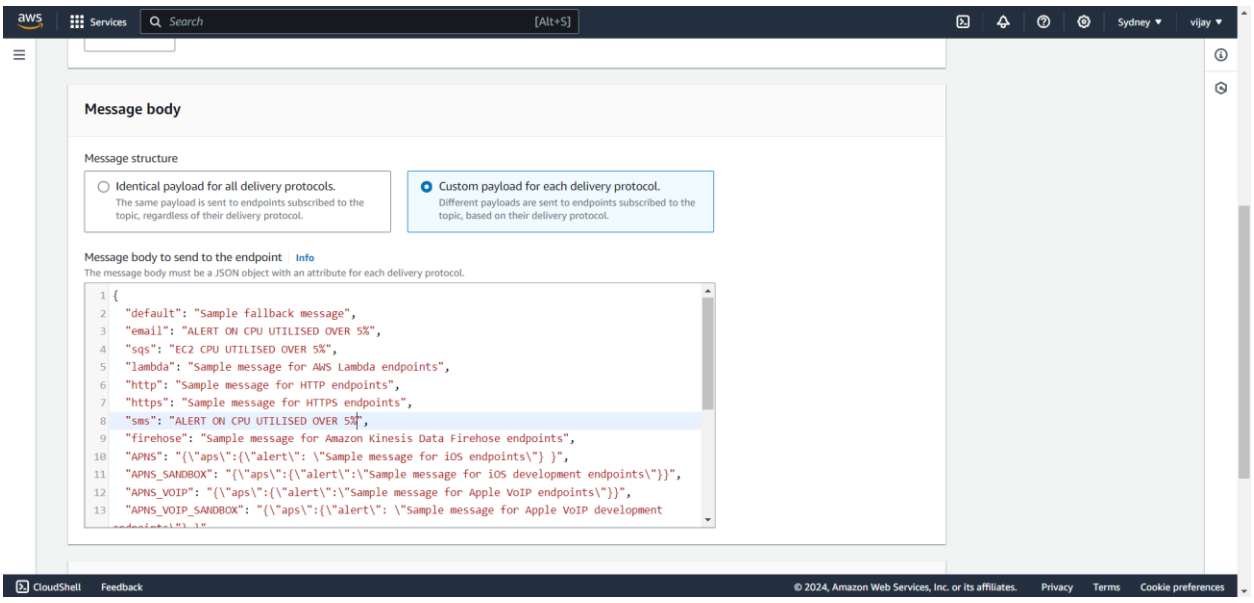

Created the Subscription for SMS:



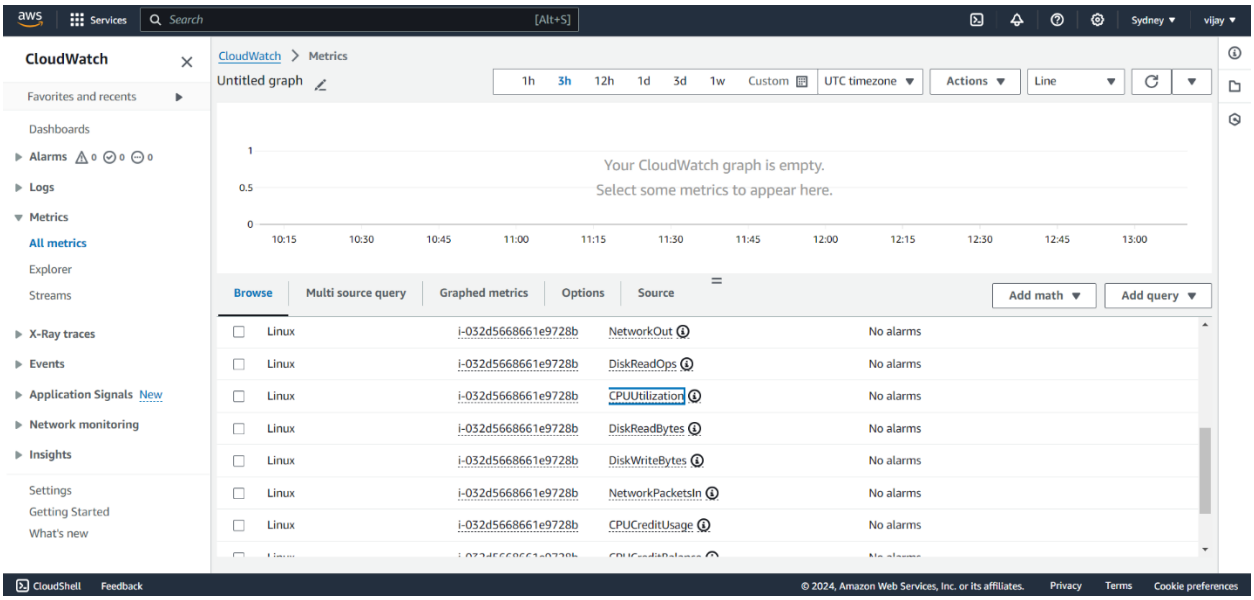
Created the Subscription for SQS, Email, SMS:



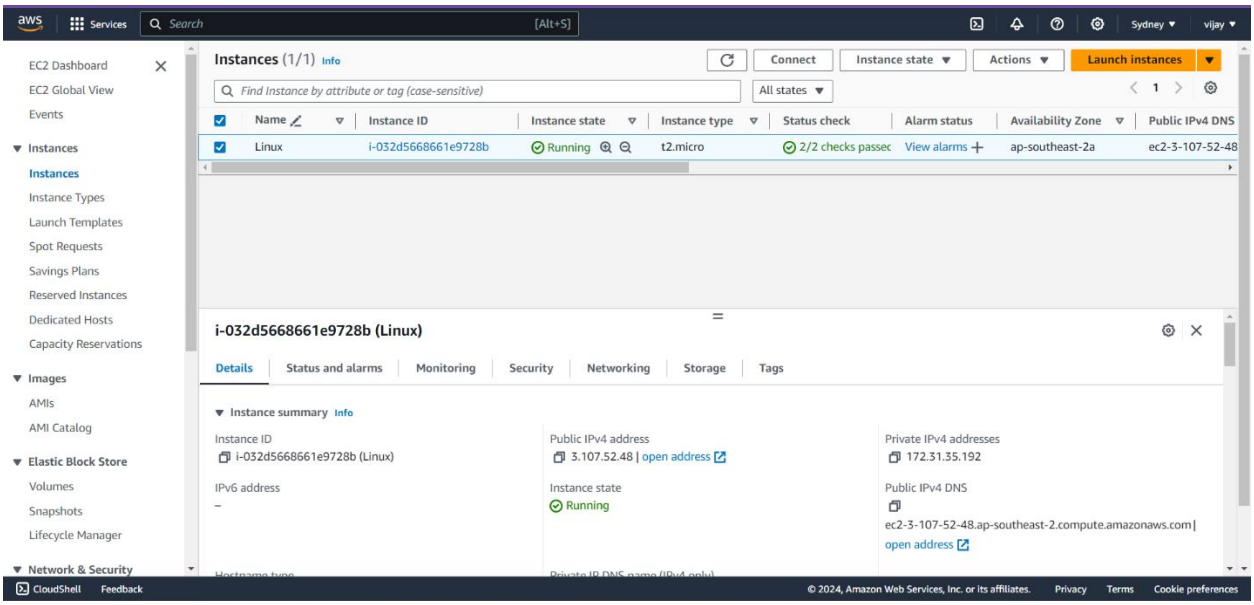

Updating the Message body for SQS, Email, SMS:

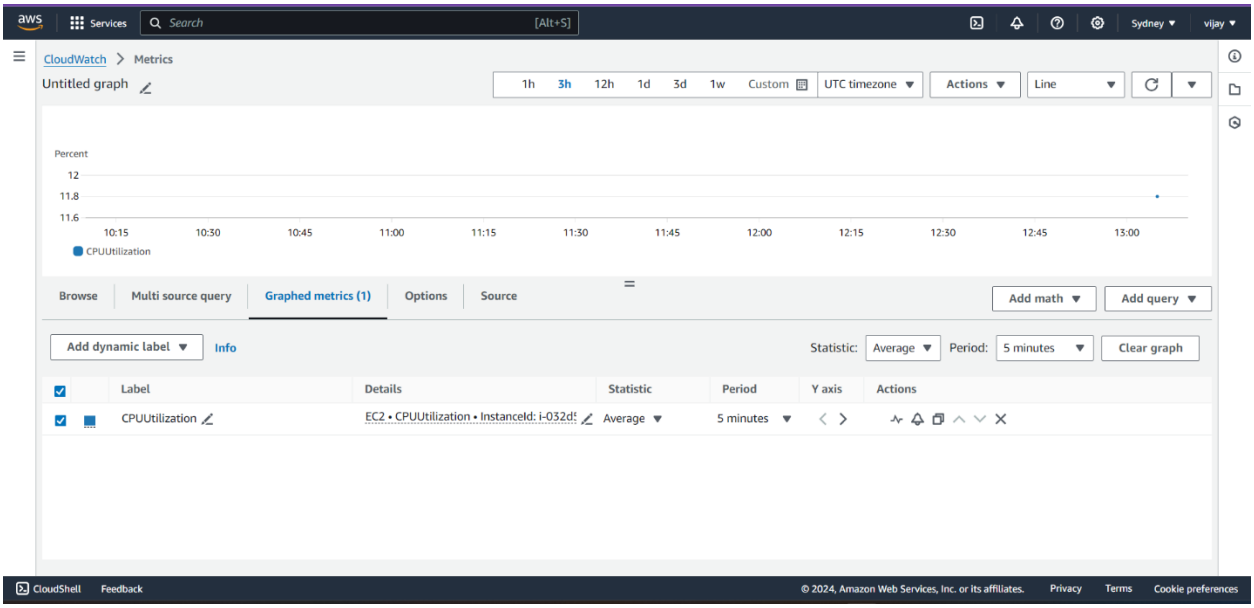


# Now Using the Cloud Watch getting the notification in SQS, Email, SMS:




Launch the EC2 -instance:




aws
Services
Search
[Alt+S]
Sydney
vijay
CloudWatch
Metrics
Untitled graph
1h
3h
12h
1d
3d
1w
Custom
UTC timezone
Actions
Line
Percent
12
11.8
11.6
10:15
10:30
10:45
11:00
11:15
11:30
11:45
12:00
12:15
12:30
12:45
13:00
CPUUtilization
Browse
Multi source query
Graphed metrics (1)
Options
Source
Add math
Add query
Add dynamic label
Info
Statistic:
Average
Period:
5 minutes
Clear graph
Label
Details
Statistic
Period
Y axis
Actions
CPUUtilization
EC2 • CPUUtilization • InstanceId: i-032d5
Average
5 minutes
CloudShell
Feedback
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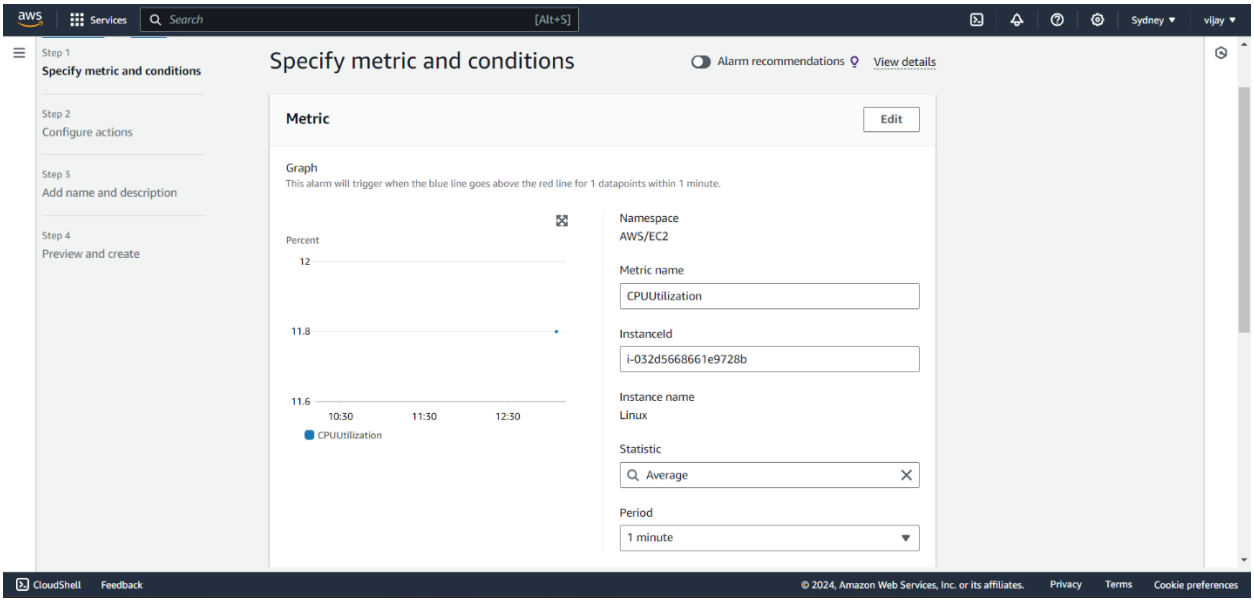
aws
Services
Search
[Alt+S]
Sydney
vijay
Step 1
Specify metric and conditions
Step 2
Configure actions
Step 3
Add name and description
Step 4
Preview and create
Specify metric and conditions
Alarm recommendations
View details
Metric
Edit
Graph
This alarm will trigger when the blue line goes above the red line for 1 datapoints within 1 minute.
Percent
12
11.8
11.6
10:30
11:30
12:30
CPUUtilization
Namespace
AWS/EC2
Metric name
CPUUtilization
InstanceId
i-032d5668661e9728b
Instance name
Linux
Statistic
Average
Period
1 minute
CloudShell
Feedback
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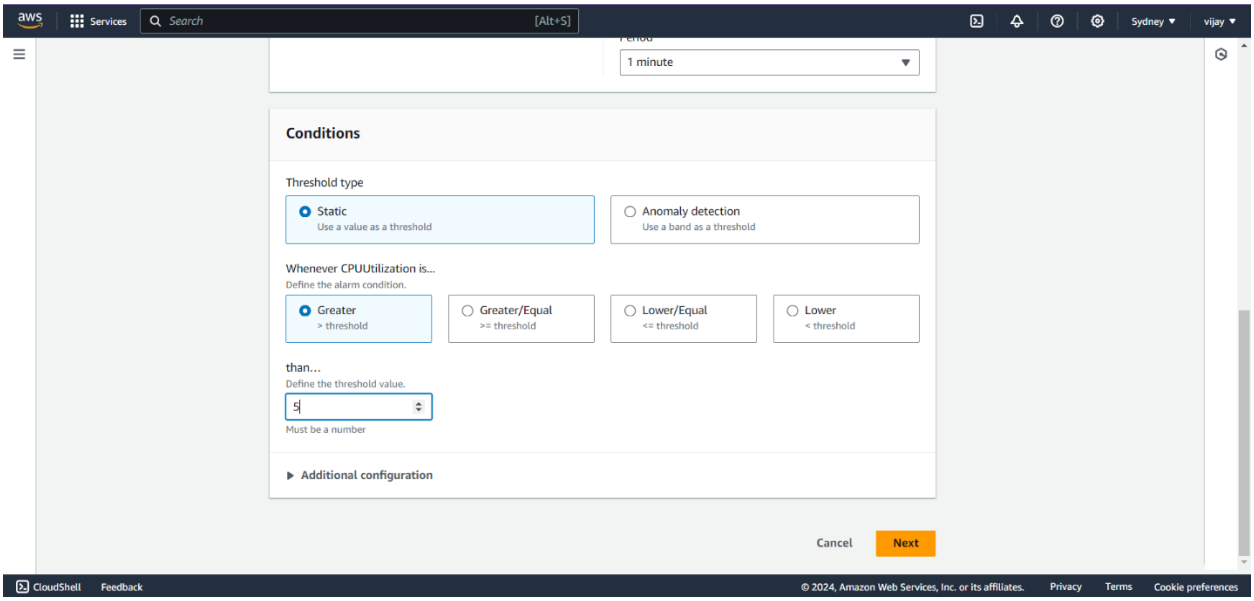
Cookie preferences


aws
Services
Search
[Alt+S]
Sydney
vijay
1 minute
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.
5
Must be a number
Additional configuration
Cancel
Next
CloudShell
Feedback
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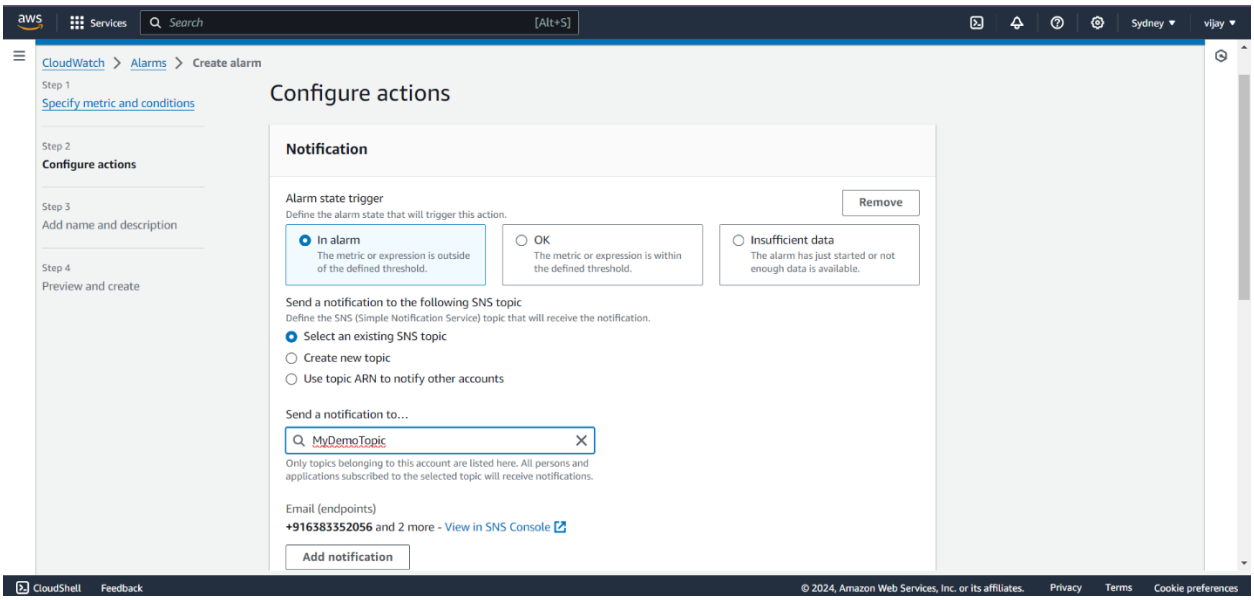
aws
Services
Search
[Alt+S]
Sydney
vijay
CloudWatch
Alarms
Create alarm
Step 1
Specify metric and conditions
Step 2
Configure actions
Step 3
Add name and description
Step 4
Preview and create
Configure actions
Notification
Alarm state trigger
Define the alarm state that will trigger this action.
Remove
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
Send a notification to...
MyDemoTopic
Only topics belonging to this account are listed here. All persons and applications subscribed to the selected topic will receive notifications.
Email (endpoints)
+916383352056 and 2 more - View in SNS Console
Add notification
CloudShell
Feedback
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Privacy
Terms
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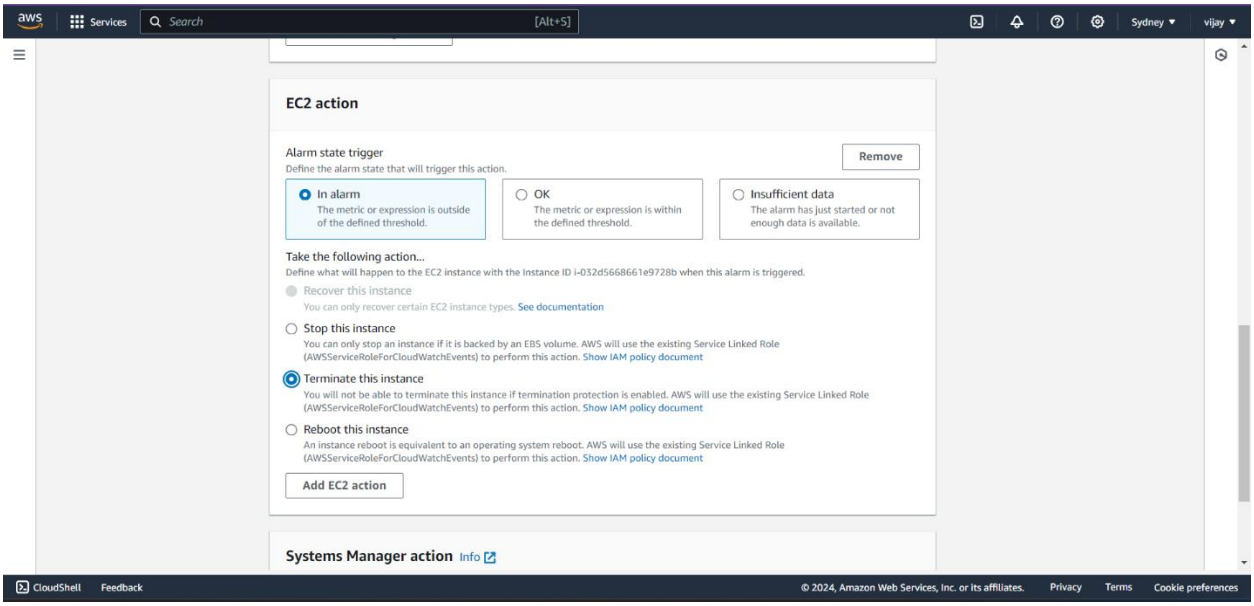
Services
Search
[Alt+S]
Sydney
vijay
EC2 action
Alarm state trigger
Define the alarm state that will trigger this action.
Remove
In alarm
The metric or expression is outside of the defined threshold.
OK
The metric or expression is within the defined threshold.
Insufficient data
The alarm has just started or not enough data is available.
Take the following action...
Define what will happen to the EC2 instance with the Instance ID i-032d5668661e9728b when this alarm is triggered.
Recover this instance
You can only recover certain EC2 instance types. See documentation
Stop this instance
You can only stop an instance if it is backed by an EBS volume. AWS will use the existing Service Linked Role (AWSServiceRoleForCloudWatchEvents) to perform this action. Show IAM policy document
Terminate this instance
You will not be able to terminate this instance if termination protection is enabled. AWS will use the existing Service Linked Role (AWSServiceRoleForCloudWatchEvents) to perform this action. Show IAM policy document
Reboot this instance
An instance reboot is equivalent to an operating system reboot. AWS will use the existing Service Linked Role (AWSServiceRoleForCloudWatchEvents) to perform this action. Show IAM policy document
Add EC2 action
Systems Manager action Info
CloudShell
Feedback
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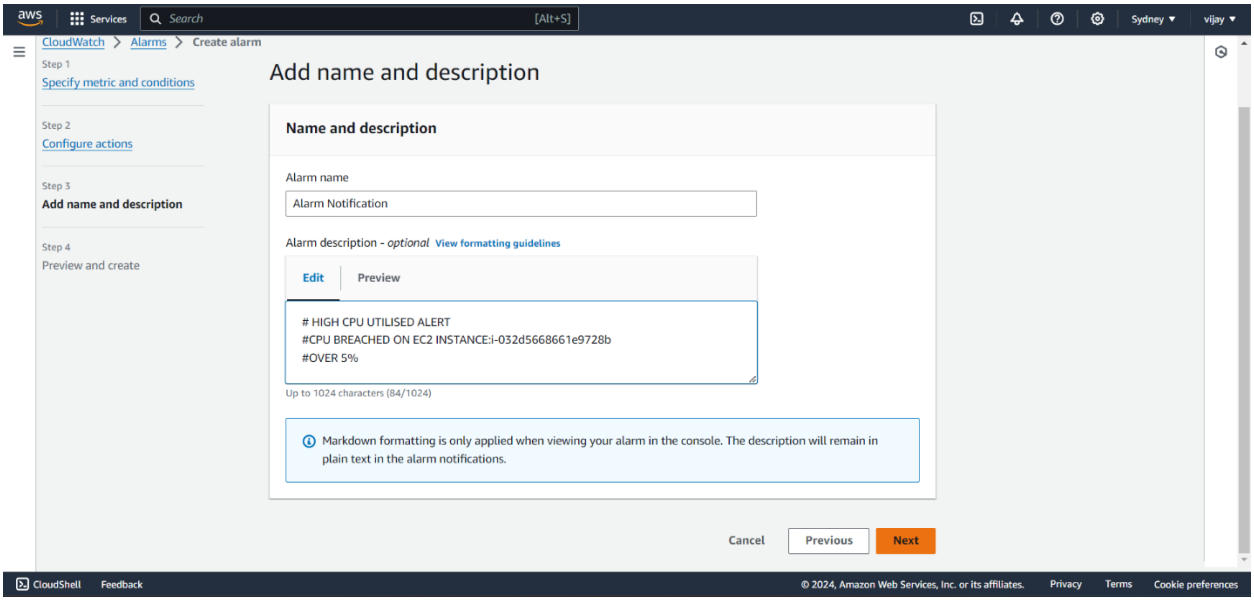
Services
Search
[Alt+S]
Sydney
vijay
CloudWatch > Alarms > Create alarm
Step 1
Specify metric and conditions
Step 2
Configure actions
Step 3
Add name and description
Step 4
Preview and create
Add name and description
Name and description
Alarm name
Alarm Notification
Alarm description - optional View formatting guidelines
Edit
Preview
# HIGH CPU UTILISED ALERT
#CPU BREACHED ON EC2 INSTANCE:i-032d5668661e9728b
#OVER 5%
Up to 1024 characters (84/1024)
Markdown formatting is only applied when viewing your alarm in the console. The description will remain in plain text in the alarm notifications.
Cancel
Previous
Next
CloudShell
Feedback
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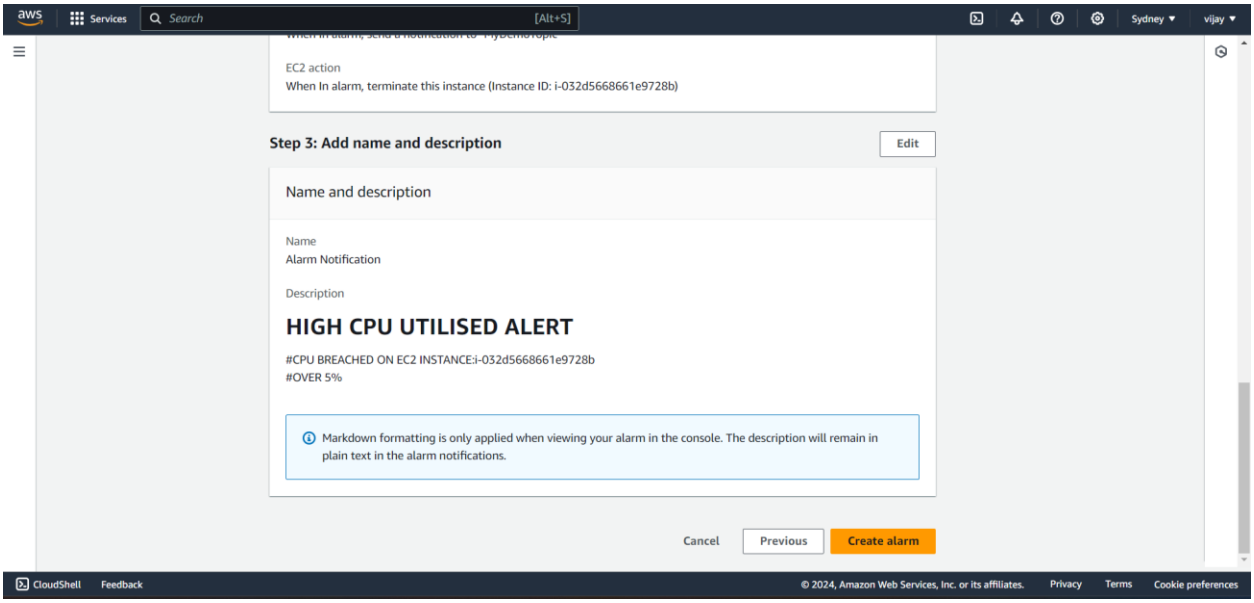
Privacy
Terms
Cookie preferences


aws
Services
Search
[Alt+S]
Sydney
vijay
EC2 action
When In alarm, terminate this instance (Instance ID: i-032d5668661e9728b)
Step 3: Add name and description
Edit
Name and description
Name
Alarm Notification
Description
HIGH CPU UTILISED ALERT
#CPU BREACHED ON EC2 INSTANCE:i-032d5668661e9728b
#OVER 5%
Markdown formatting is only applied when viewing your alarm in the console. The description will remain in plain text in the alarm notifications.
Cancel
Previous
Create alarm
CloudShell
Feedback
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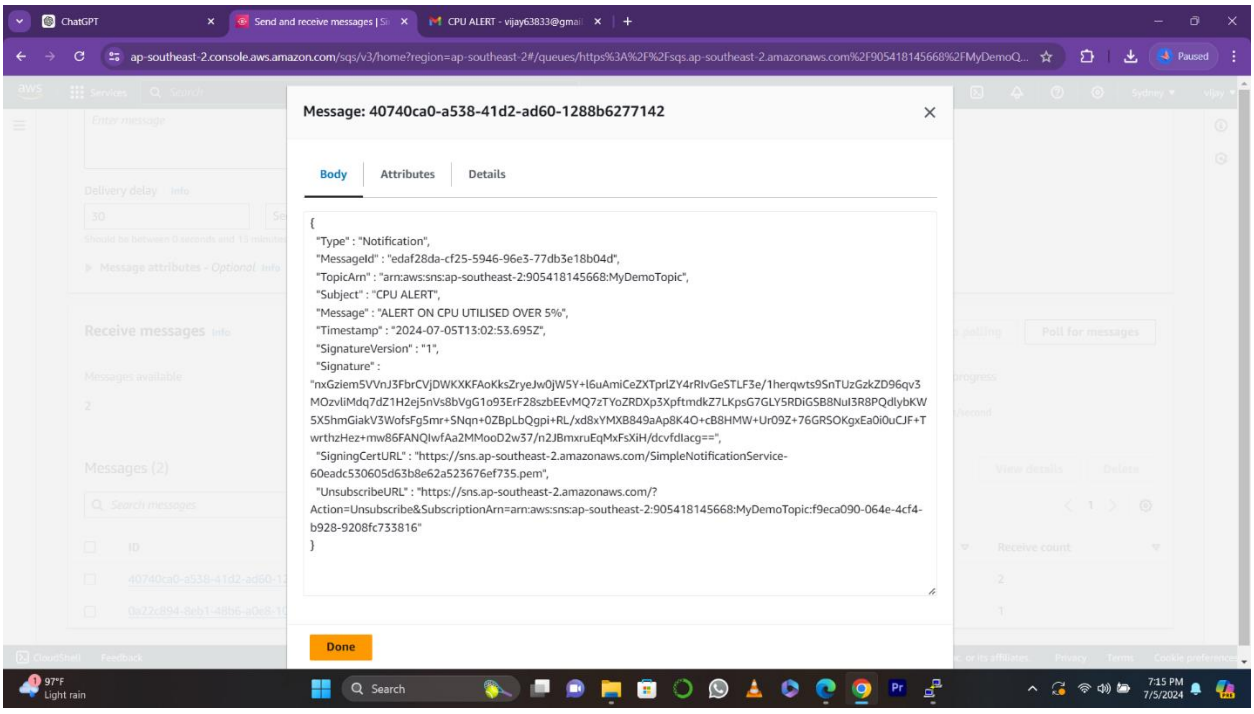
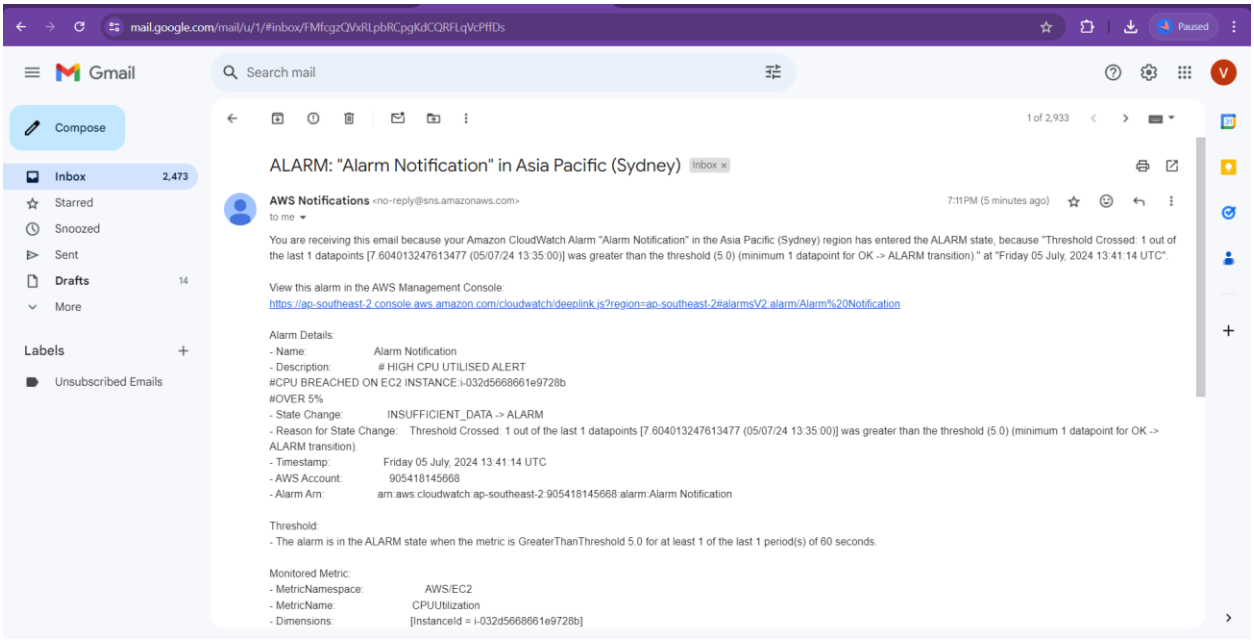
# OUTCOME :-

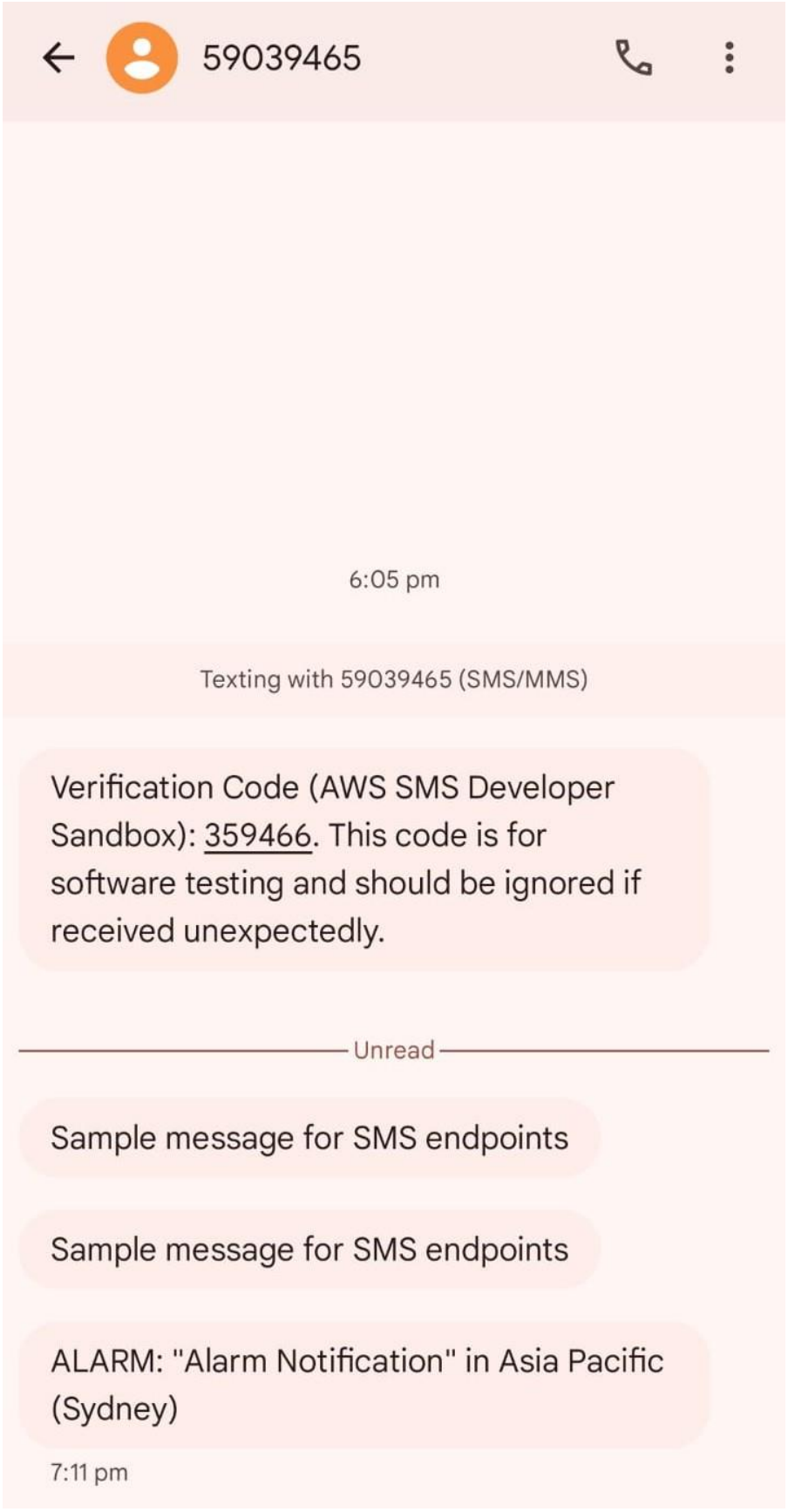
# SQS NOTIFICATION



# EMAIL NOTIFICATION




# SMS NOTIFICATION


59039465
6:05 pm
Texting with 59039465 (SMS/MMS)
Verification Code (AWS SMS Developer Sandbox): 359466. This code is for software testing and should be ignored if received unexpectedly.
Unread
Sample message for SMS endpoints
Sample message for SMS endpoints
ALARM: "Alarm Notification" in Asia Pacific (Sydney)
7:11 pm