

# Create a SNS for Email Notification

## What is EC2 Instance?

Amazon Web Service EC2 (Amazon Elastic Compute Cloud), one of Amazon Web Services' most well-known services, offers businesses the ability to run applications on the public cloud. An EC2 instance is simply a virtual server in Amazon Web Services terminology

## What is SNS?

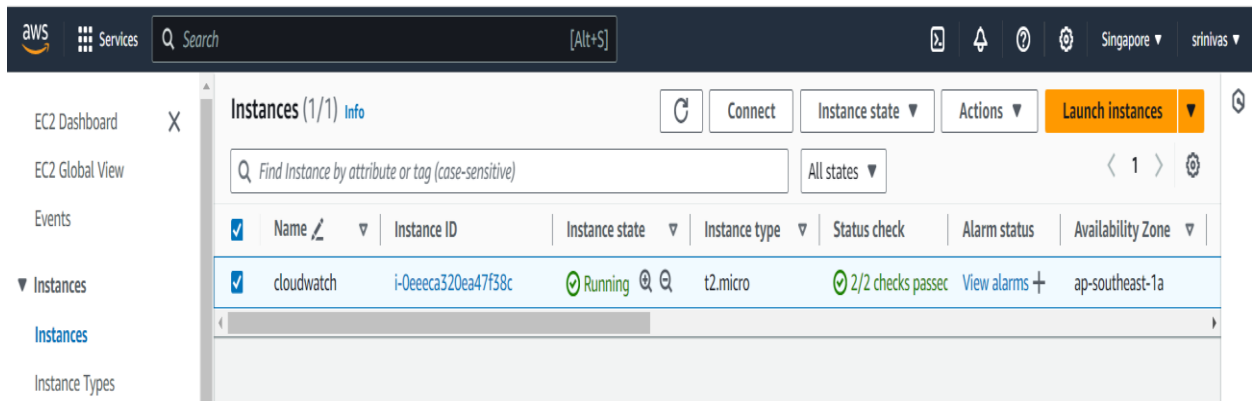
Amazon Simple Notification Service (SNS) is a cloud-based web service that allows developers to send notifications from an application to subscribers or other applications. SNS is a flexible, scalable, and cost-effective service that offers two ways to send notifications.

## What's Amazon CloudWatch?

Amazon CloudWatch is an AWS service for monitoring and managing resources in the cloud. It ensures the reliability, availability, and performance of AWS applications and infrastructure.

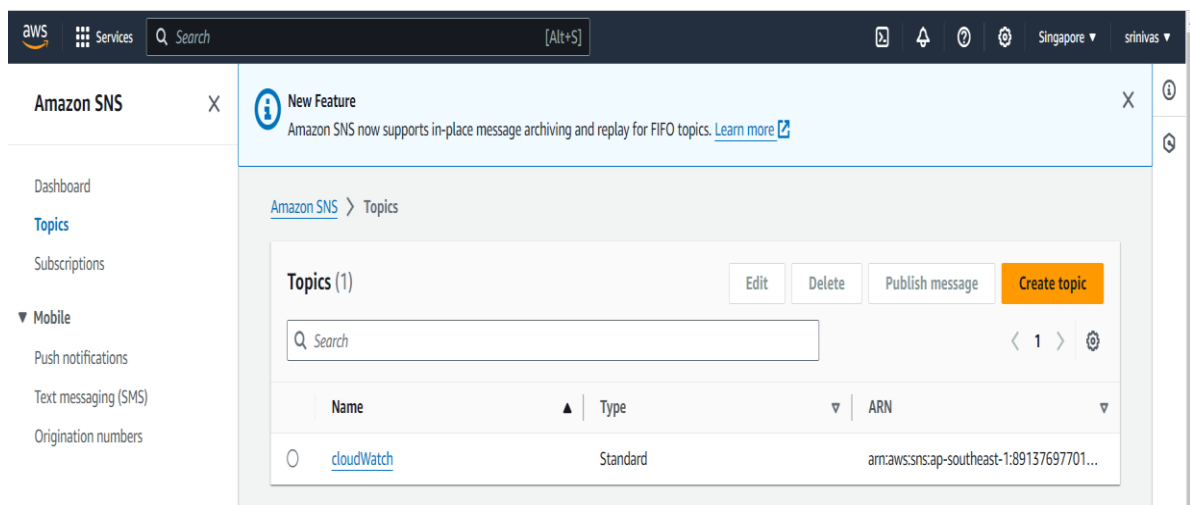
## Create EC2 Instance:

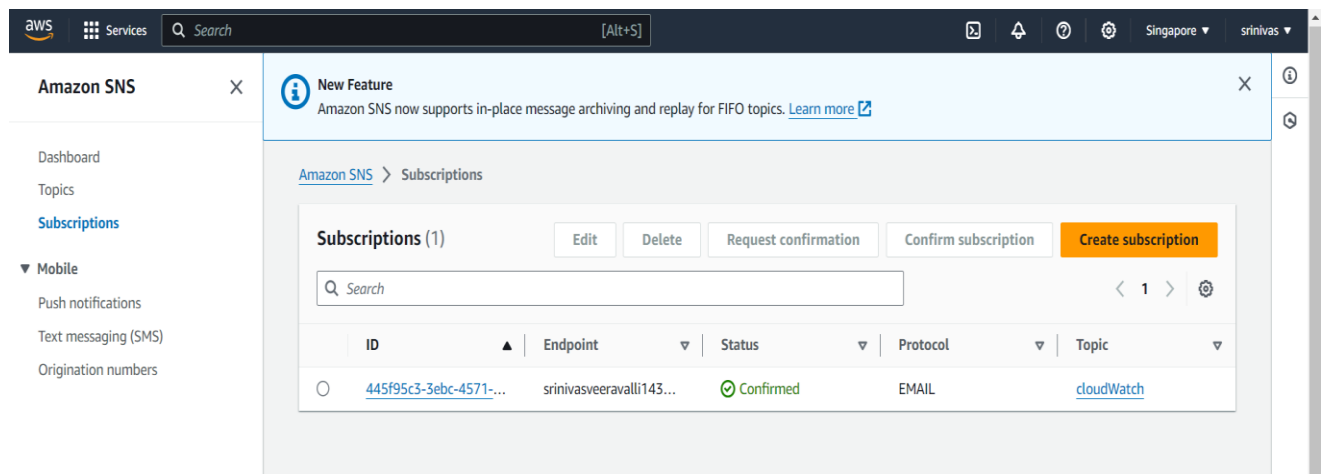
1. Create a EC2 Instance.
2. Go to instance – Launch Instance – Create key pair – Select Security Group –Add File System – Launch Instance.
3. Some EC2 Snapshots are attached below.
4. After creating EC2 Instances & Copy the SSH.



## Create SNS:

1. Click on Create Topic.
2. There is no Subscription in Topic so we will create subscription, click in Create Subscription.
3. You will see that status of subscription is in Pending Confirmation, Go to your email & click on received email from Amazon & Confirm it.
4. The status confirmed as I confirm the subscription in my email.





## Amazon CloudWatch:

1. Click on In alarms under Alarms in the left panel of the CloudWatch dashboard.
2. Click on Create alarm available on the top right corner. In the Specify metric and conditions page.
3. Click on Select metric. It will open the Select Metrics page.
4. Scroll down and Select EC2.
5. Select Per-Instance Metrics
6. Enter your EC2 Instance-ID in the search bar to get metrics for MyEC2Server Choose the CPU Utilization metric. Click on Select metric button
7. Testing CloudWatch Alarm by Stressing CPU Utilization SSH back into the EC2 instance — MyEC2Server. The stress tool has already been installed. Let's run a command to increase the CPU Utilization manually. `sudo stress--cpu 10 -v --timeout 400s`.
8. Checking For an Email from the SNS Topic Navigate to your mailbox and refresh it. You should see a new email notification for MyServerCPUUtilizationAlarm.



