

Task 22 - Stop the EC2 instance with help of lambda and get the notification through the cloud watch as instance stopped..

First create one instance and go to sns and create the topic and subscription and then go to lambda and create role and upload the code for stopping instance....

The screenshot displays two separate AWS browser sessions.

AWS Lambda Console: The top window shows the Lambda function named "forstopinstandsns". The code in `lambda_function.py` is as follows:

```
import boto3

def lambda_handler(event, context):
    ec2 = boto3.client('ec2')
    sns = boto3.client('sns')

    # Replace with your EC2 instance ID
    instance_id = 'i-095b3186634dcceb2'
    # Replace with your SNS topic ARN
    snsArn = 'arn:aws:sns:us-east-1:123456789012:my-topic'

    sns.publish(
        TopicArn=snsArn,
        Message=f'EC2 instance {instance_id} is being stopped.'
    )

    ec2.stop_instances(InstanceIds=[instance_id])
```

The "DEPLOY" section shows "Deploy (Ctrl+Shift+U)" and "Test (Ctrl+Shift+I)" buttons. The "TEST EVENTS" section has a "STOPINSTANDSN" entry. The "Response" and "Function Logs" sections show the successful stopping of the specified EC2 instance.

AWS EC2 Instances Console: The bottom window shows the EC2 Instances page. It lists one instance named "stop" with the ID "i-095b3186634dcceb2", which is currently "Stopped". The "Actions" dropdown menu is open, showing options like "Start instances", "Stop instances", and "Terminate instances".

Create a cloud watch and choose the metric as status check stop instance.. and create It run the lambda code u get the output

The screenshot displays two browser windows side-by-side. The left window shows the AWS CloudWatch Alarms interface with a success message: "Successfully created alarm stop danger alarm." The right window shows a Gmail inbox with an incoming email titled "EC2 Instance Stop Notification".

AWS CloudWatch Alarms (Left Window):

- Message: Successfully created alarm stop danger alarm.
- Alarms (1) listed:
 - Name: stop danger alarm, State: OK, Last state update (UTC): 2025-11-02 13:09:20, Condition: StatusCheckFailed_Instance > 1 for 1 datapoints within 1 minute, Actions enabled.

Gmail Inbox (Right Window):

- Email from AWS Notifications: "EC2 Instance Stop Notification" (Inbox)
 - Subject: EC2 Instance Stop Notification
 - From: AWS Notifications <no-reply@sns.amazonaws.com>
 - To: me
 - Date: 6:40 PM (0 minutes ago)
 - Content: EC2 instance i-095b3186634dcceb2 is being stopped.
 - Unsubscribe link: <https://sns.us-east-1.amazonaws.com/unsubscribe.html?SubscriptionArn=arn:aws:sns:us-east-1:947306778595:taskforec2stop:656b18da-1541-46de-a8a6-c647cf5feb&EndpointLabel=01817@gmail.com>
 - Please do not reply directly to this email. If you have any questions or comments regarding this email, please contact us at <https://aws.amazon.com/support>