Use case

Use case Description

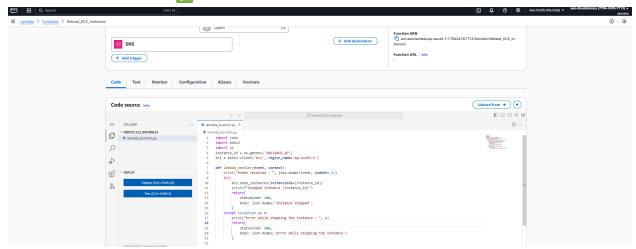
Auto-Remediation Using CloudWatch + Lambda

Create a CloudWatch alarm for EC2 status checks.

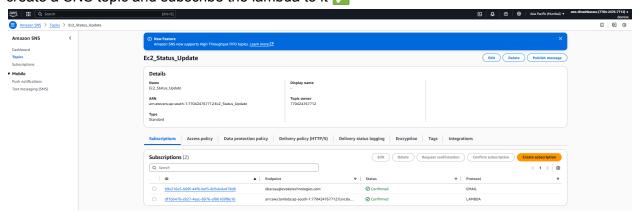
Trigger a Lambda function to restart the instance or notify via SNS

Approach:

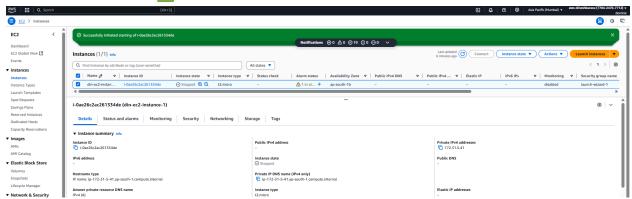
create a Lambda function 🗸



create a SNS topic and subscribe the lambda to it V



create an EC2 instance



Create cloudwatch alarm to monitor running state of EC2 instance 1

CloudWatch does not natively provide direct metrics for instance state transitions like "Running"

So, We'll do this:

Use EventBridge to detect when an EC2 instance enters the running state.

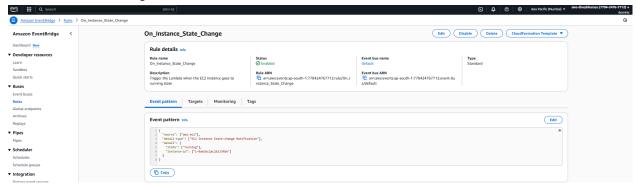
Trigger a Lambda function from EventBridge.

The Lambda will publish a custom CloudWatch metric.

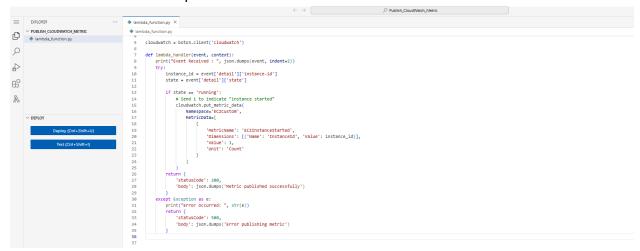
Create a CloudWatch Alarm on that custom metric.

This way, CloudWatch Alarm triggers when the instance goes to running state, even from stopped.

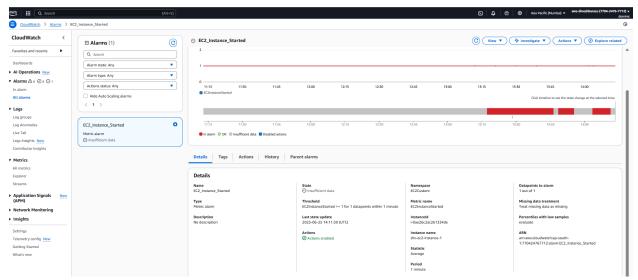
Create an event bridge rule



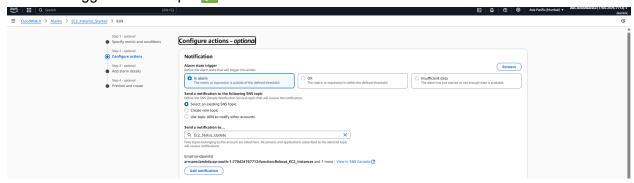
Create Lambda function to publish cloudwatch metric



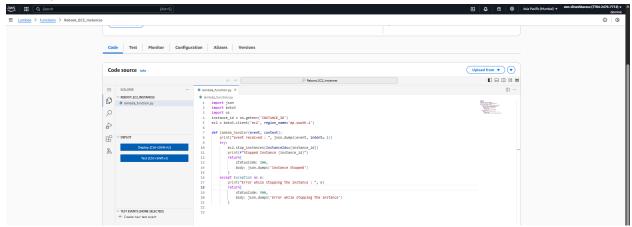
Create CloudWatch Alarm on the created metric



set alarm trigger to SNS topic 🔽



Write py codein Lambda to Stop the instance V



Test:

- 1. Change the instance state from stopped to Running
- 2. The alarm goes to In-alarm state
- 3. The instance gets stopped automatically