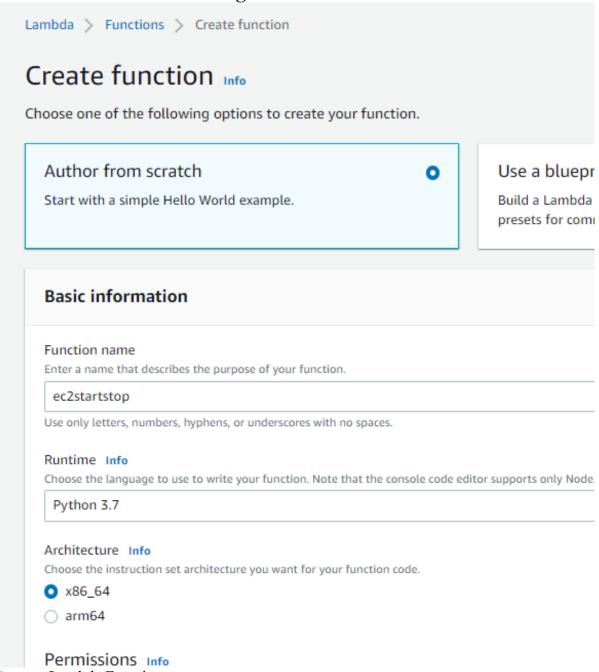
Forgetting to stop an on-demand EC2 instance, might be a costly mistake. Scheduling to stop or stop an EC2 is the first line of defence against this.

We can use a lambda function to start/stop an ec2-instance; and create a Amazon Event Bridge rule to schedule it



Create a Lambda Function

Using boto3 library we can write a function to start or stop the instance. the payload to the function would be {"operation":"start"} or {"operation":"stop"}

(in the config file I have put my\_ec2\_instance\_id = i-o7be6847\*\*\*\*)

```
▼ ec2startstop - / 🌣 ▼
           1 import json
           2 import boto3
           3 from config import my_ec2_instance_id
           5 ec2=boto3.client('ec2')
           6 def lambda_handler(event, context):
                 start_or_stop=event["operation"]
           8
           9
                 if start_or_stop=='start':
                     ec2.start_instances(InstanceIds=[my_ec2_instance_id])
          10
          11
                 elif start_or_stop=='stop':
          12
                     ec2.stop_instances(InstanceIds=[my_ec2_instance_id])
          13
          15
                 return 'started/StoppedInstances'
          16
          17
```

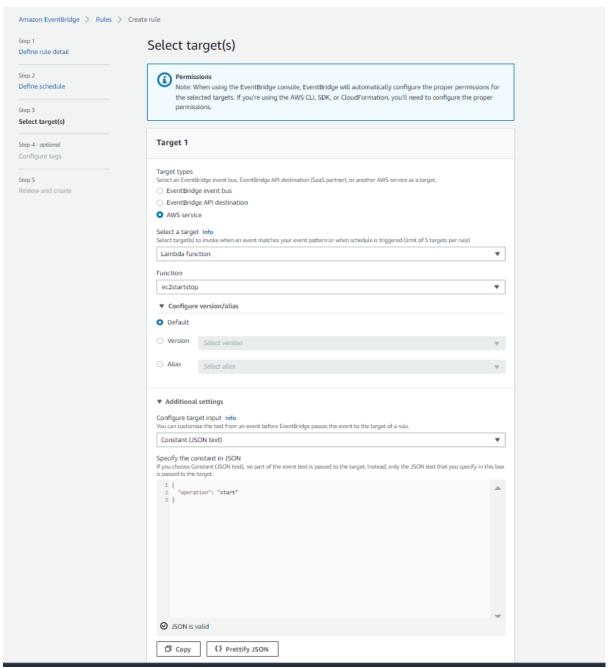
Lambda Function

The Lambda function needs permission to be able to start or stop the ec2 instance, use the below policy statement to create a policy or use AmzonEC2FullAccess policy from the list of policies and add attach the policy to the Lambda role.

```
Visual editor
           JSON
 1 - {
        "Version": "2012-10-17",
 2
 3 ₹
        "Statement": [
 4 -
               "Sid": "VisualEditor0",
 5
              "Effect": "Allow",
 6
              "Action": [
 7 •
 8
                  "ec2:StartInstances",
                  "ec2:StopInstances"
 9
10
               "Resource": "*"
11
12
13
14 }
Policy name 🔀

☐ AmazonEC2FullAccess
```

Now you can trigger the lambda to start or stop the instance, since I use it for stock market related functions I created two rules (one to start in the morning before market and one to stop after market) in Amazon Event Bridge



**Event Rule** 

	p <b>attern</b> schedule type th	nat best meets yo	our needs.				
<ul> <li>A fine-grained schedule that runs at a specific time, such as 8:00 a.m. PST on the first Monday of every month.</li> </ul>				A schedule that runs at a regular rate, such as every 10 minutes.			
	ession Info ron expression f	or the schedule					
🗇 cron (	30	3	?	*	mon-fri	*	)
	Minutes	Hours	Day of month	Month	Day of week	Year	
Next 10 tr	igger date(s)	Local t	ime zone	•			
	2, 09:00 AM GM						
	2, 09:00 AM GM						
	2, 09:00 AM GM 2, 09:00 AM GM						
	, 09:00 AM GMT						
	, 09:00 AM GMT						
	, 09:00 AM GMT						
Apr 5, 2022	, 09:00 AM GMT , 09:00 AM GMT						
Apr 5, 2022 Apr 6, 2022		+5:30					

cron job for the rule

We can also create an API gateway trigger and Attach it to a Telegram bot, to stop or start our EC2 from Telegram