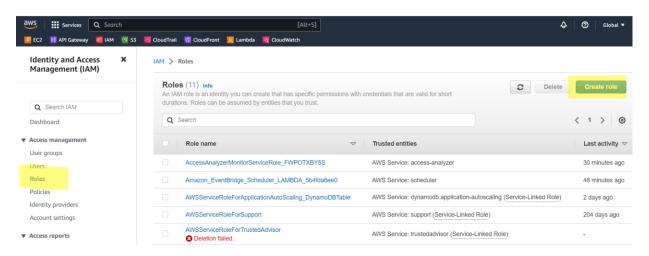
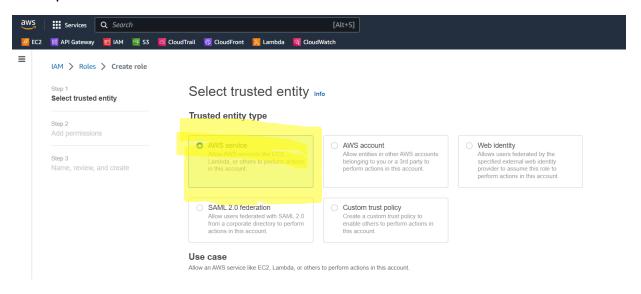
Create a lambda function to notify on slack channel with webhook of slack channel with Event Bridge and IAM Role

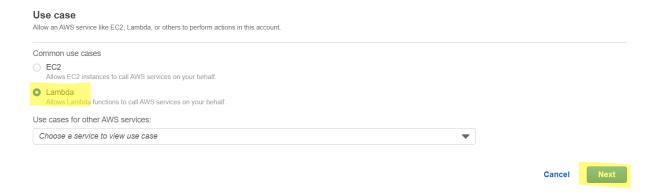
Just create a IAM role first



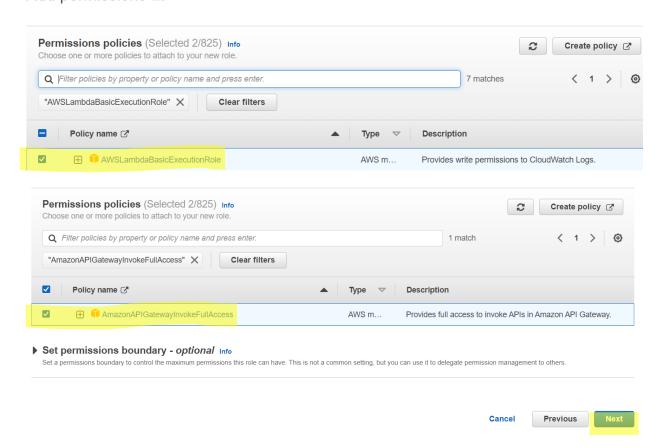
Just open the IAM role interface and then click on the create role



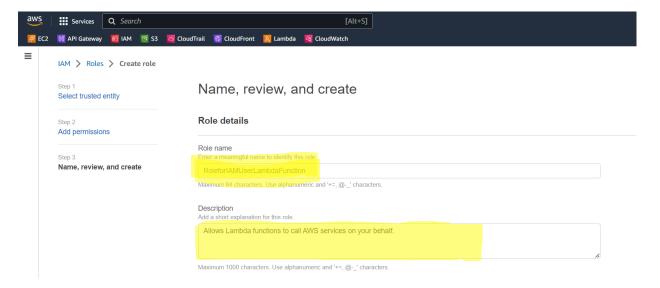
Make sure you have selected the AWS service



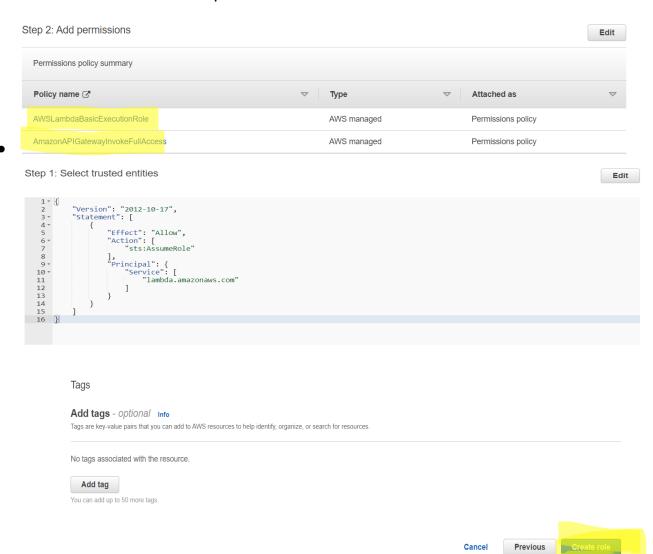
- Now you have to click on the lambda option and then click on the NEXT button for the next configuration
- Add permissions Info



 Add the above permission and the click the next button for the further steps



Give the name and description of the role like the above.



• Check the above steps and also after checking all the steps do click on the Create role button.

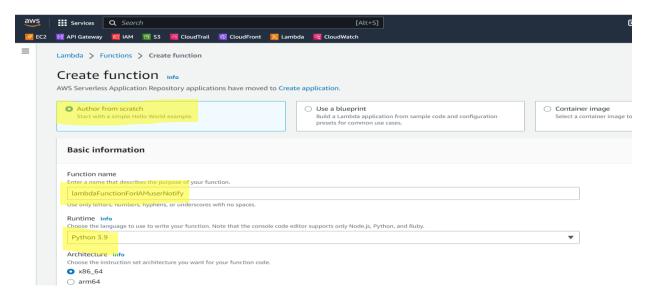
ALL SET ABOUT THE IAM ROLE

Now We have to create a Lambda with the follow steps:

- First step is that we have to open the lambda service on aws platform.
- Just click on the create function.

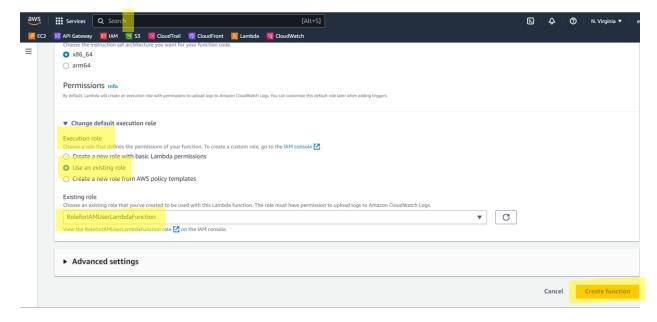


- After click on the create function and then you should select the Author from Scracth
- Give your **lambda function name** for your unique identify purpose.
- Also select the runtime language i.e. PYTHON 3.9

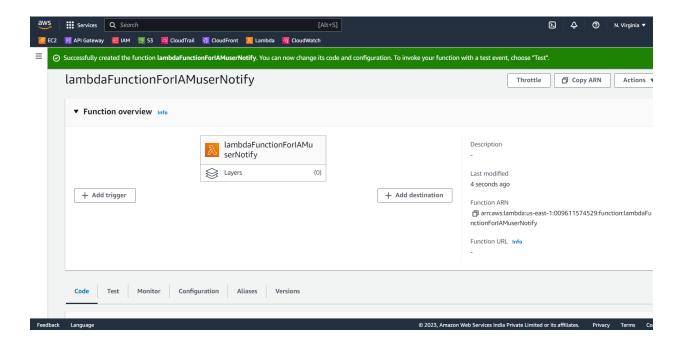


Now you can scroll down

- Make sure you have selected the option i.e. Use an existing role.
- And select your **existing role** which you have created you just before few time name as **RoleforlAMUserLambdaFunction**.



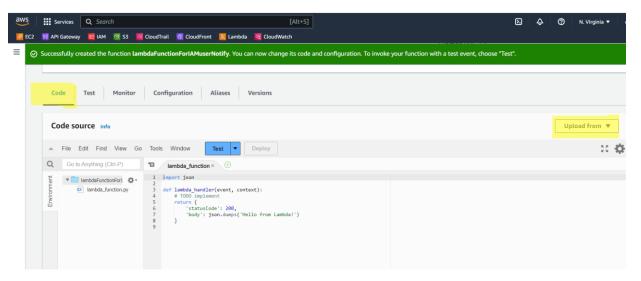
 Finally click on the create function button. When the function is created successfully then it shows like that the below screenshot:

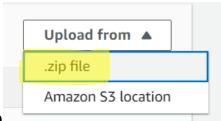


ALL SET ABOUT THE LAMBDA CREATED

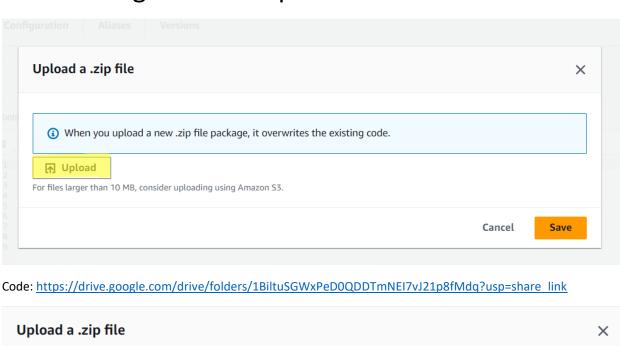
Now We have to create a Lambda Function code in python with the follow steps:

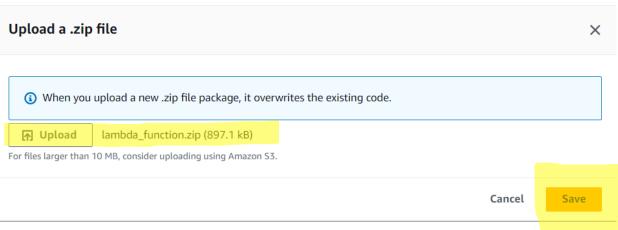
• First you can just click on the upload from button on the right side





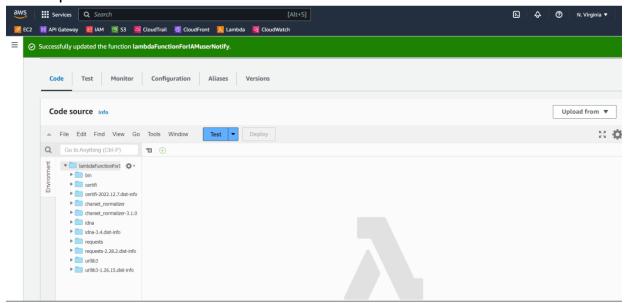
- Just click on .zip file
- And then press upload and upload the file which was given in the provided link.



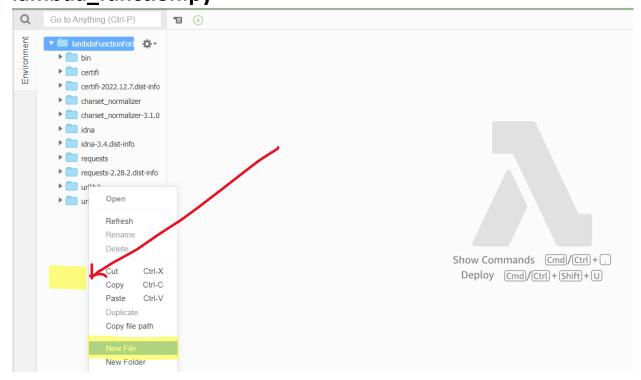


Finally click on the save button

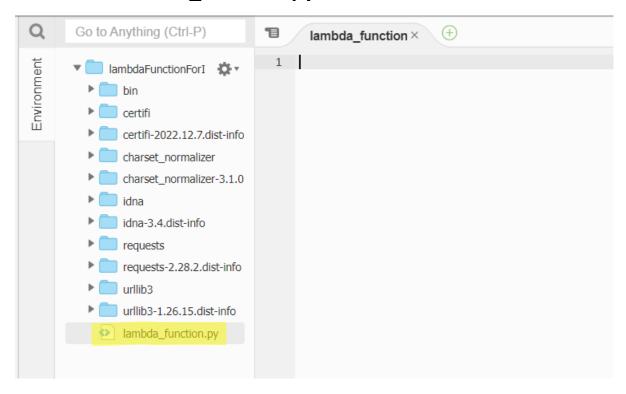
• After upload the file there it look like that



Now you have to create a file here with name as lambda_function.py



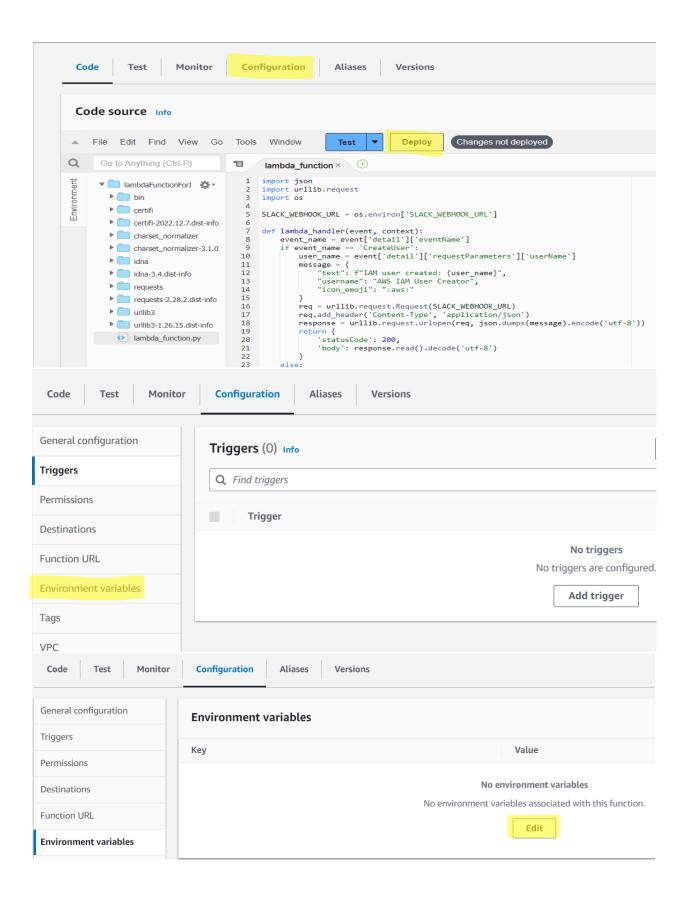
 First just right click on the empty space where the red arrow shows the location and then select on the new file and named as lambda_function.py



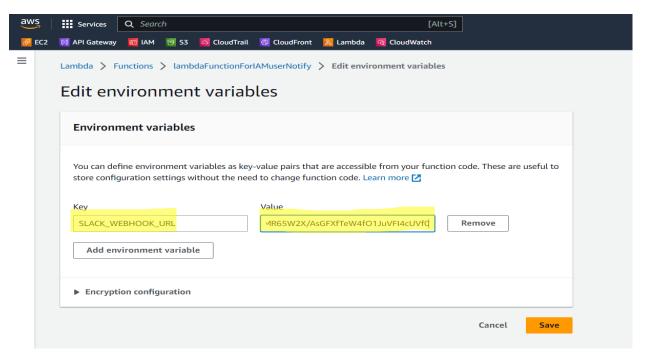
Now just copy and paste the code for lambda function

```
import json
import urllib.request
import os
SLACK WEBHOOK URL = os.environ['SLACK WEBHOOK URL']
def lambda handler(event, context):
     event name = event['detail']['eventName']
     if event_name == 'CreateUser':
          user name = event['detail']['requestParameters']['userName']
          message = {
               "text": f"IAM user created: {user name}",
               "username": "AWS IAM User Creator",
              "icon emoji": ":aws:"
          }
          reg = urllib.reguest.Reguest(SLACK WEBHOOK URL)
          req.add header('Content-Type', 'application/json')
          response = urllib.request.urlopen(req,
json.dumps(message).encode('utf-8'))
          return {
               'statusCode': 200,
               'body': response.read().decode('utf-8')
          }
     else:
          return {
               'statusCode': 200,
               'body': 'Not a CreateUser event'
          }
```

 Click on the deploy button and then click on the configuration button and then click on the evironmental button → add the environmental variable.

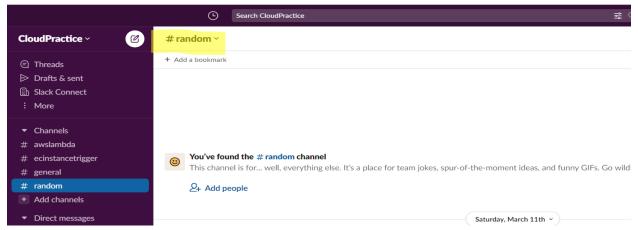


Environment variables You can define environment variables as key-value pairs that are accessible from your function code. These are useful to store configuration settings without the need to change function code. Learn more There are no environment variables on this function. Add environment variable Encryption configuration Cancel Save

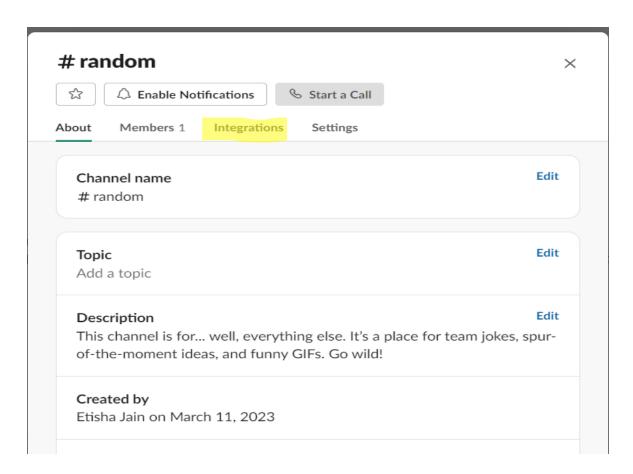


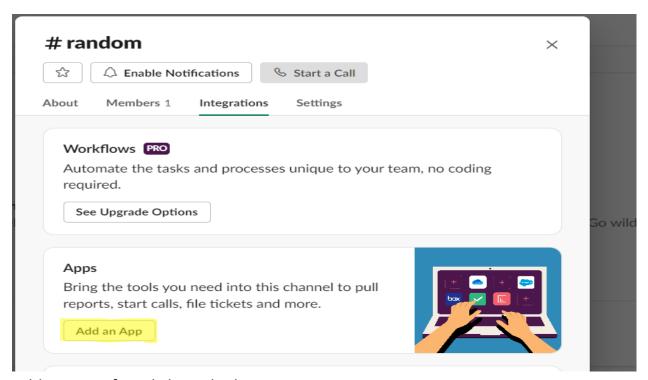
- Just give the variable name and its value i.e webhook url
- Just wait I have forgot to create a webhook url → just follow steps to create a webhook url.
- Just go inside which channel where you want to your message trigger.

WANT TO CREATE A WEBHOOK URL

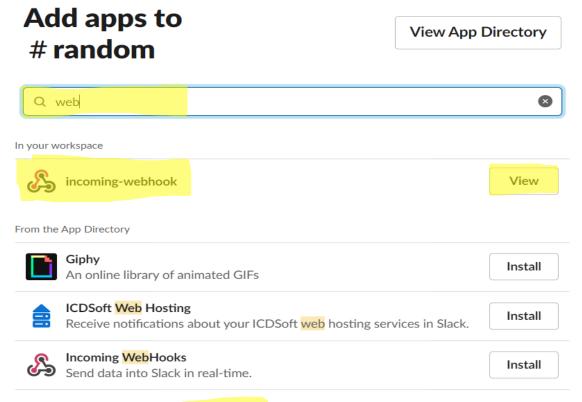


Just click on the highlight part random and just follow the highlight part.





• Add an app after click on the button



Search the incoming-webhook install and view the hook

Incoming WebHooks



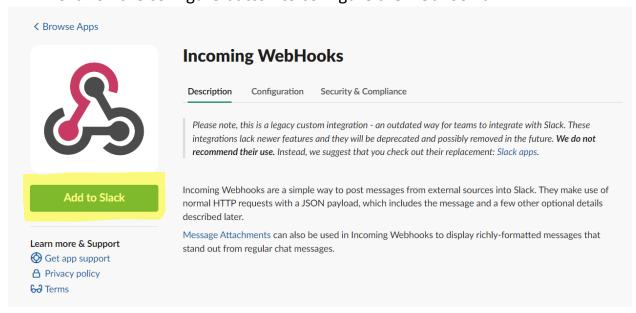
Incoming WebHooks

Please note, this is a legacy custom integration - an outdated way for teams to integrate with SI deprecated and possibly removed in the future. **We do not recommend their use**. Instead, we su

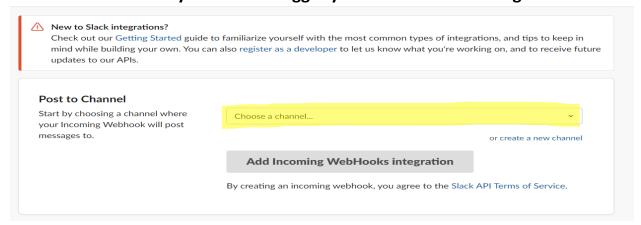
Incoming Webhooks are a simple way to post messages from external sources into Slack. The payload, which includes the message and a few other optional details described later.

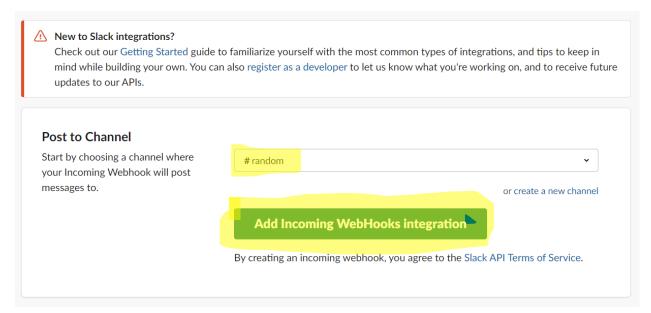
Message Attachments can also be used in Incoming Webhooks to display richly-formatted m

• Click on the configure button to configure the webhook url.

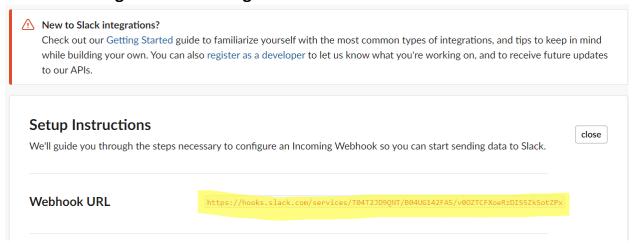


 Just click to add to Slack button to add it and now choose your favourate channel where you want to trigger your notification message.





• After selected the channel random then you can add the buttom add incoming webhooks integration.

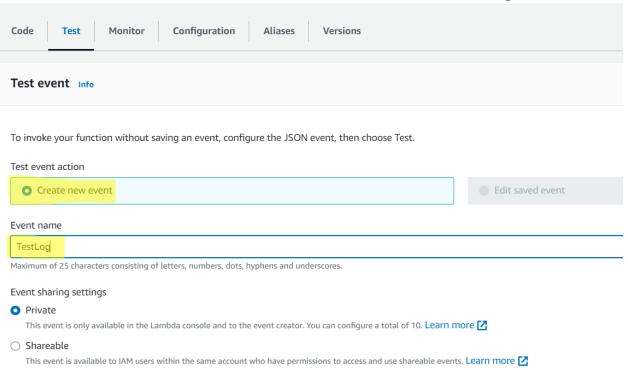


 Now congratulation you have created the webhook url for trigger a message through the lambda function now use the url in lambda__function.py file.

ALL SET THE URL IN SLACK CHANNEL FOR TRIGGER.

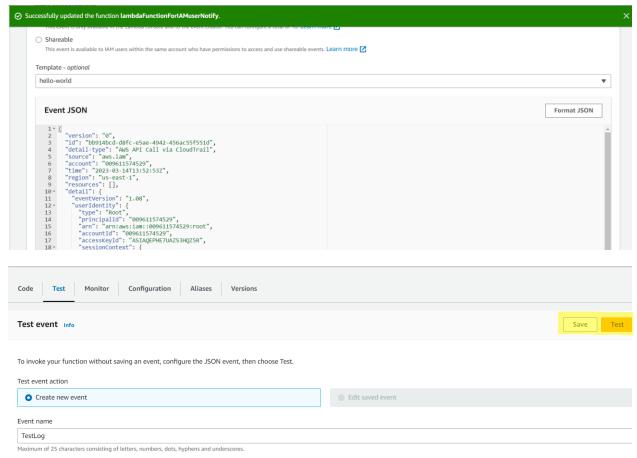
- After created a webhook url and save the environment
- Now have to click on the test tab



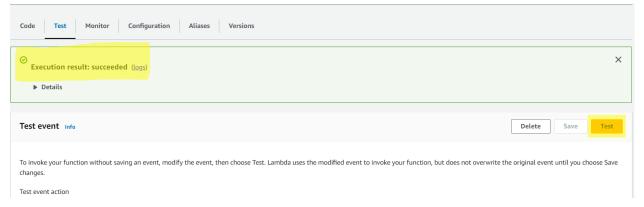


• Just scroll and paste the JSON to here and save it

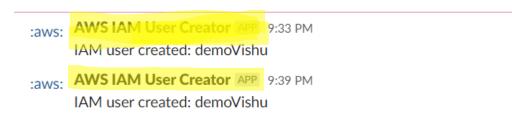
```
{
  "version": "0",
  "id": "bb914bcd-d8fc-e5ae-4942-456ac55f551d",
  "detail-type": "AWS API Call via CloudTrail",
  "source": "aws.iam",
  "account": "009611574529",
  "time": "2023-03-14T13:52:53Z",
  "region": "us-east-1",
  "resources": [],
  "detail": {
     "eventVersion": "1.08",
     "userIdentity": {
       "type": "Root",
       "principalId": "009611574529",
       "arn": "arn:aws:iam::009611574529:root",
       "accountId": "009611574529",
       "accessKeyId": "ASIAQEPHE7UAZS3HQZ5R",
       "sessionContext": {
         "sessionIssuer": {},
          "webIdFederationData": {},
         "attributes": {
            "creationDate": "2023-03-14T03:53:46Z",
            "mfaAuthenticated": "false"
         }
       }
     },
     "eventTime": "2023-03-14T13:52:53Z",
     "eventSource": "iam.amazonaws.com",
     "eventName": "CreateUser",
     "awsRegion": "us-east-1",
     "sourceIPAddress": "103.196.213.164",
     "userAgent": "AWS Internal",
     "requestParameters": {
       "userName": "demoVishu"
     "responseElements": {
       "user": {
         "createDate": "Mar 14, 2023 1:52:53 PM",
         "userName": "demoVishu",
         "arn": "arn:aws:iam::009611574529:user/demoVishu",
         "path": "/",
          "userId": "AIDAQEPHE7UA22ZB5L5KL"
       }
    },
     "requestID": "010b45b2-c22b-41ea-9c2b-a29ee3316d2d",
     "eventID": "90c52c9f-f83b-4b34-a108-7589724383a1",
     "readOnly": false,
     "eventType": "AwsApiCall",
     "managementEvent": true,
     "recipientAccountId": "009611574529",
     "eventCategory": "Management",
     "sessionCredentialFromConsole": "true"
}
```



Save and test the code and check it your slack notification it send the message there.

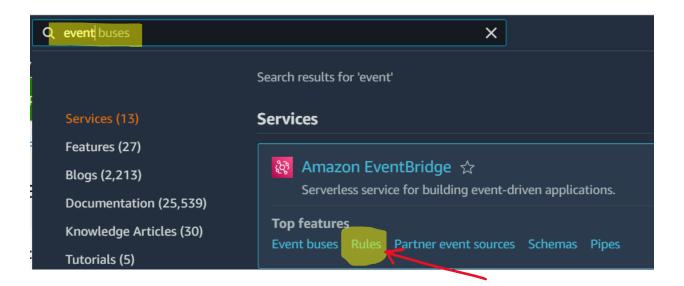


 After save and test the JSON file then check on the slack it send the message there.

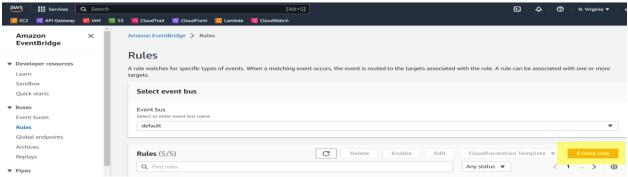


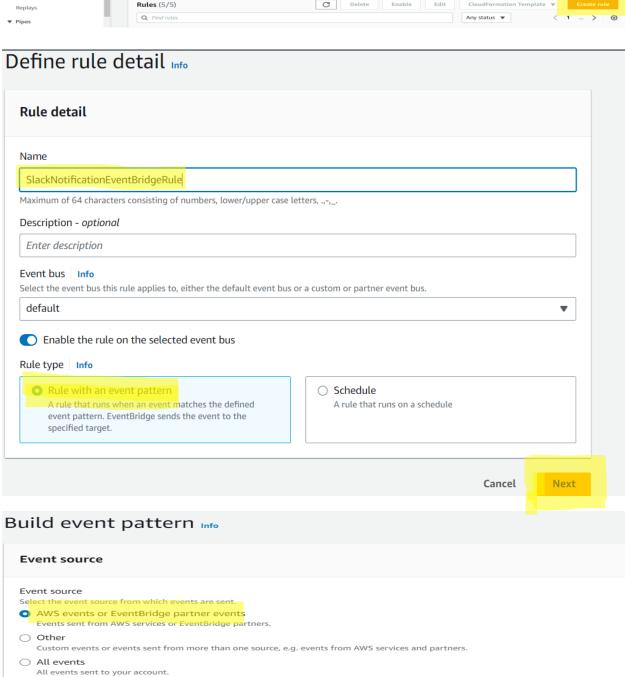
CONGRATULATION YOU HAVE GOT THE MESSAGE ON SLACK CHANNEL

NOW WE HAVE TO CREATE A EVENT BRIDGE Which help use to trigger the lambda function when event occur.

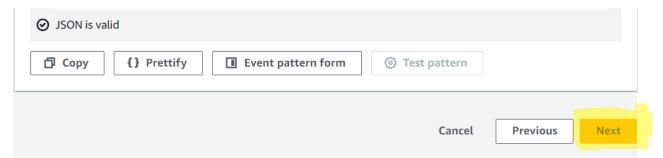


- Search the EventBridge and just click on the Rules
- Just click on the create rule

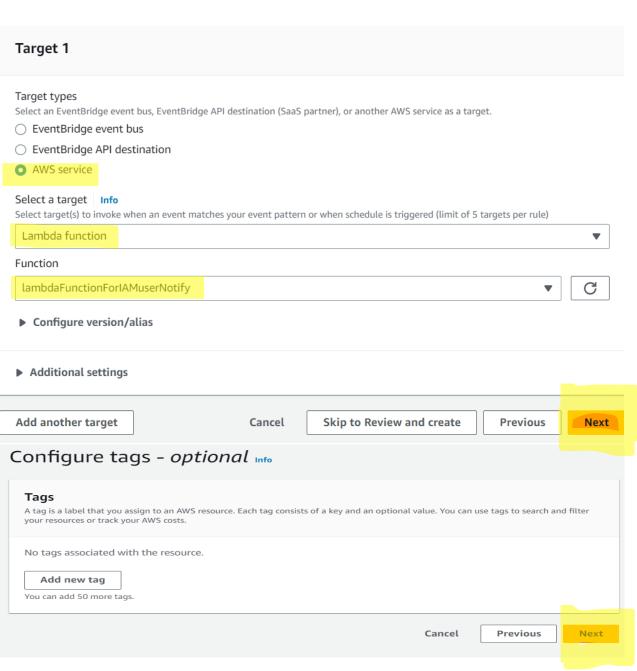




Creation method Method O Use schema Custom pattern (JSON) Use pattern form Use an Amazon EventBridge Use a template provided by editor) EventBridge to create an event schema to generate the event Write an event pattern in JSON. pattern. pattern. Event pattern Info Event pattern Write an event pattern in JSON. You can test the event pattern against the sample event. You can also go to pre-defined pattern. Content-based filter syntax Prefix matching ▼ Insert After click on the Insert button just insert the event patter. Event pattern Info Event pattern Write an event pattern in JSON. You can test the event pattern against the sample event. You can also go to pre-defined pattern. Content-based filter syntax Prefix matching ▼ Insert 2 "source": ["aws.iam"], "detail-type": ["AWS API Call via CloudTrail"], "detail": { "eventSource": ["iam.amazonaws.com"] 6 7 } "source": ["aws.iam"], "detail-type": ["AWS API Call via CloudTrail"], "detail": { "eventSource": ["iam.amazonaws.com"] } }

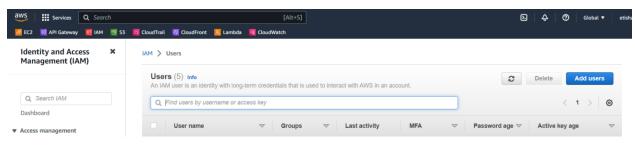


Now you have to create a NEXT button



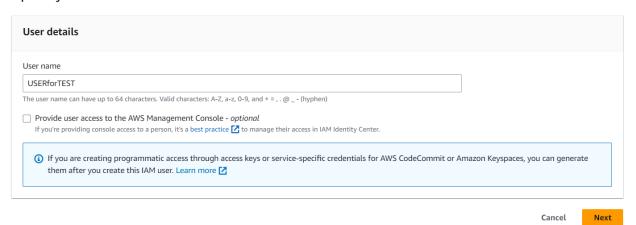
ALL SET TILL YET NOW THE TIME TO TEST THE AUTOMATION PROCESS

Now you have to create a IAM USER It automatically send a message on the SLACK Channel



Add user now

Specify user details



Just do it next → next → createUser Then finally check your slack channel :aws: AWS IAM User Creator APP 9:33 PM

IAM user created: demoVishu

:aws: AWS IAM User Creator APP 9:39 PM

IAM user created: demoVishu

:aws: AWS IAM User Creator APP 10:09 PM

IAM user created: TestingUSer

IAM user created: USERforTEST

Check the last message it send the notification

IAM user created USERforTEST

Congratulation you have done.