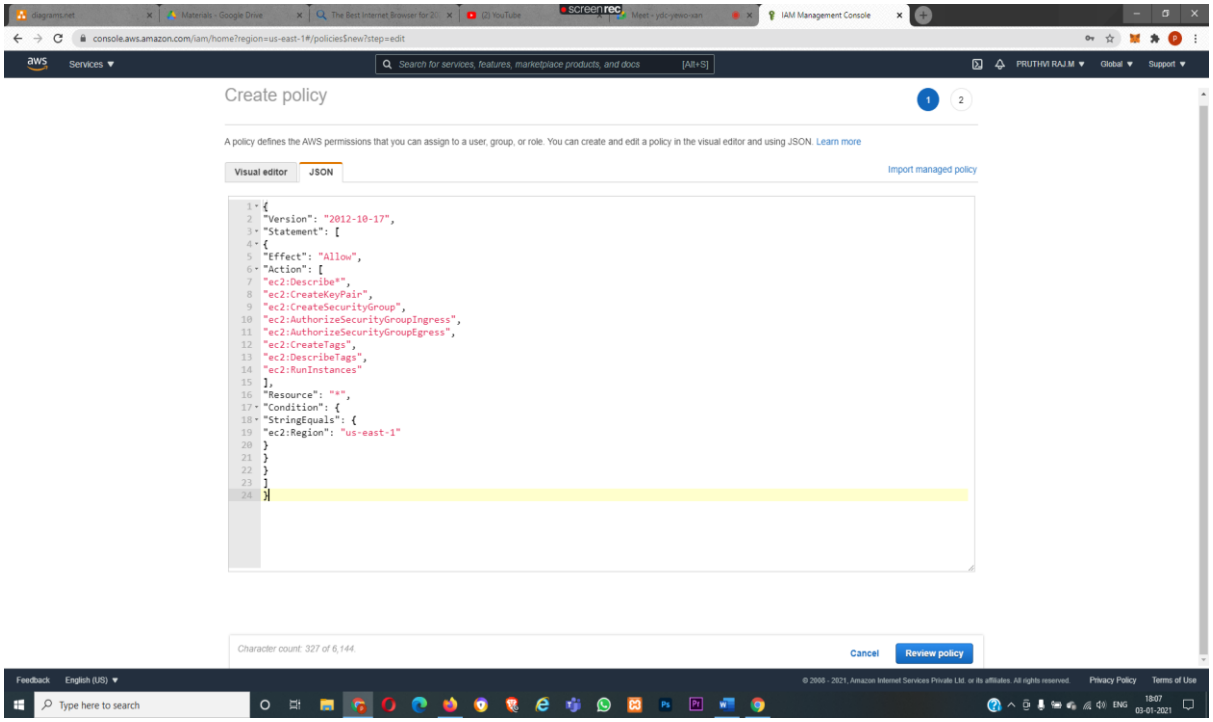
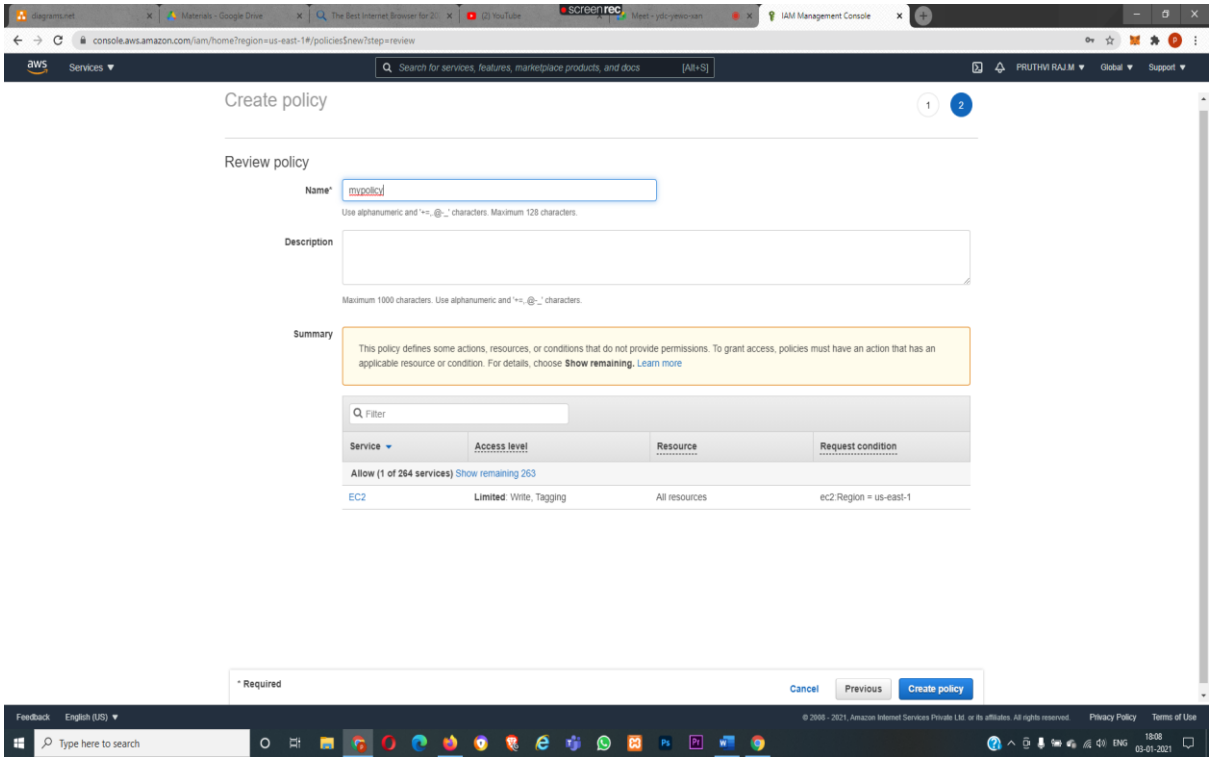
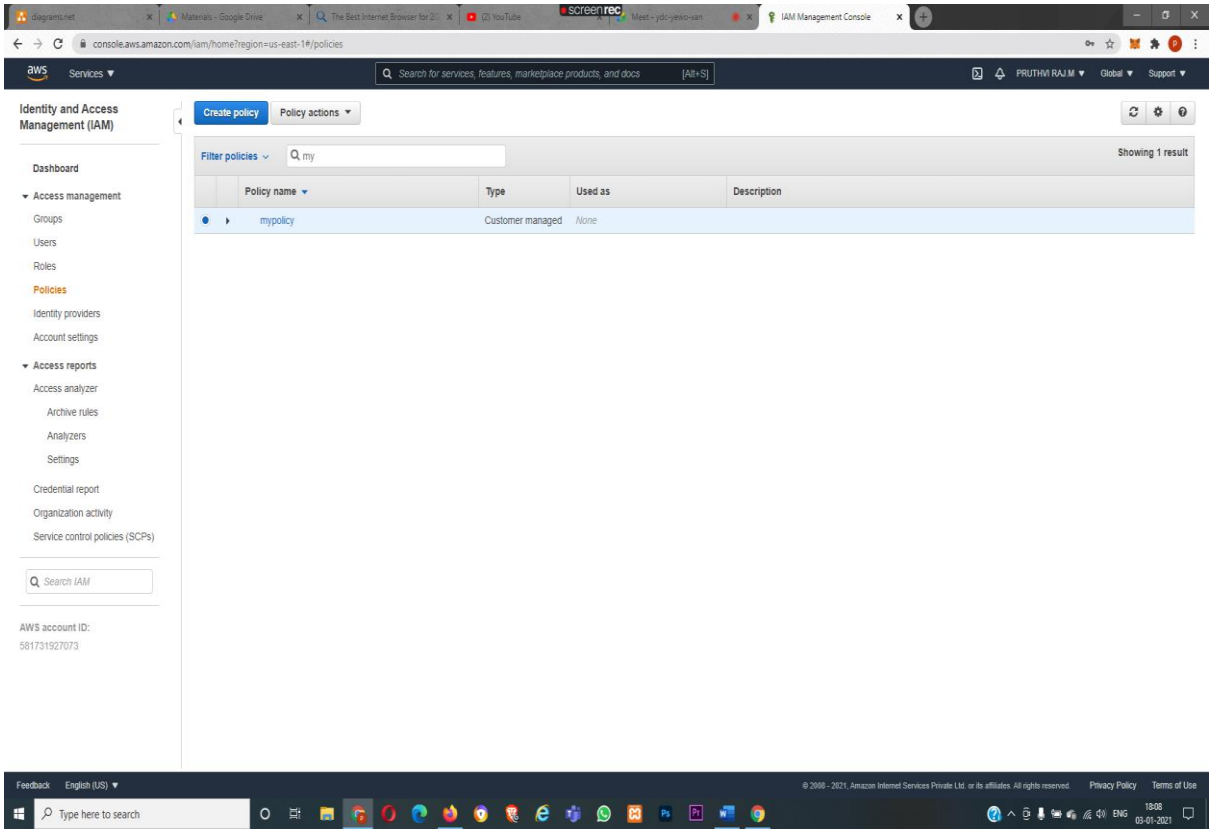
AWS PROJECT 3

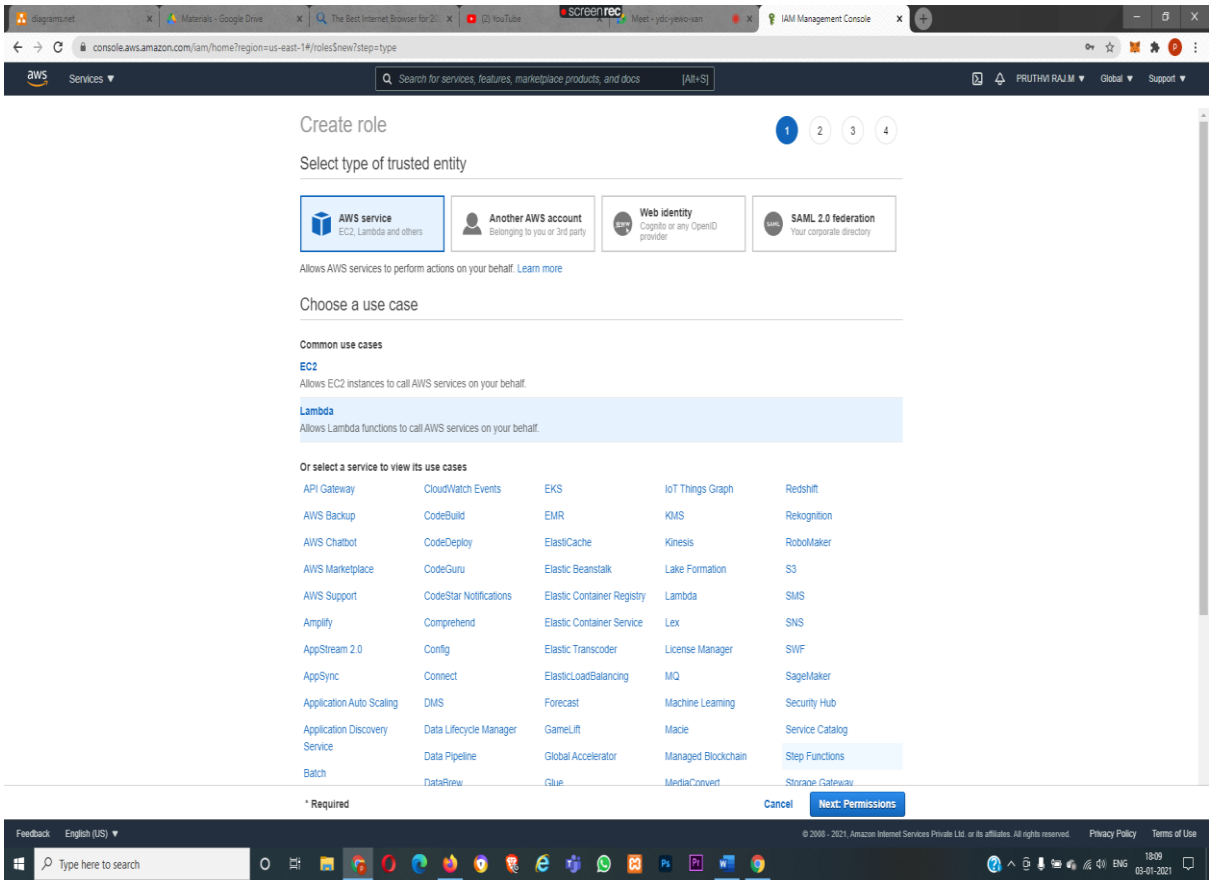
-PRUTHVI RAJ.M

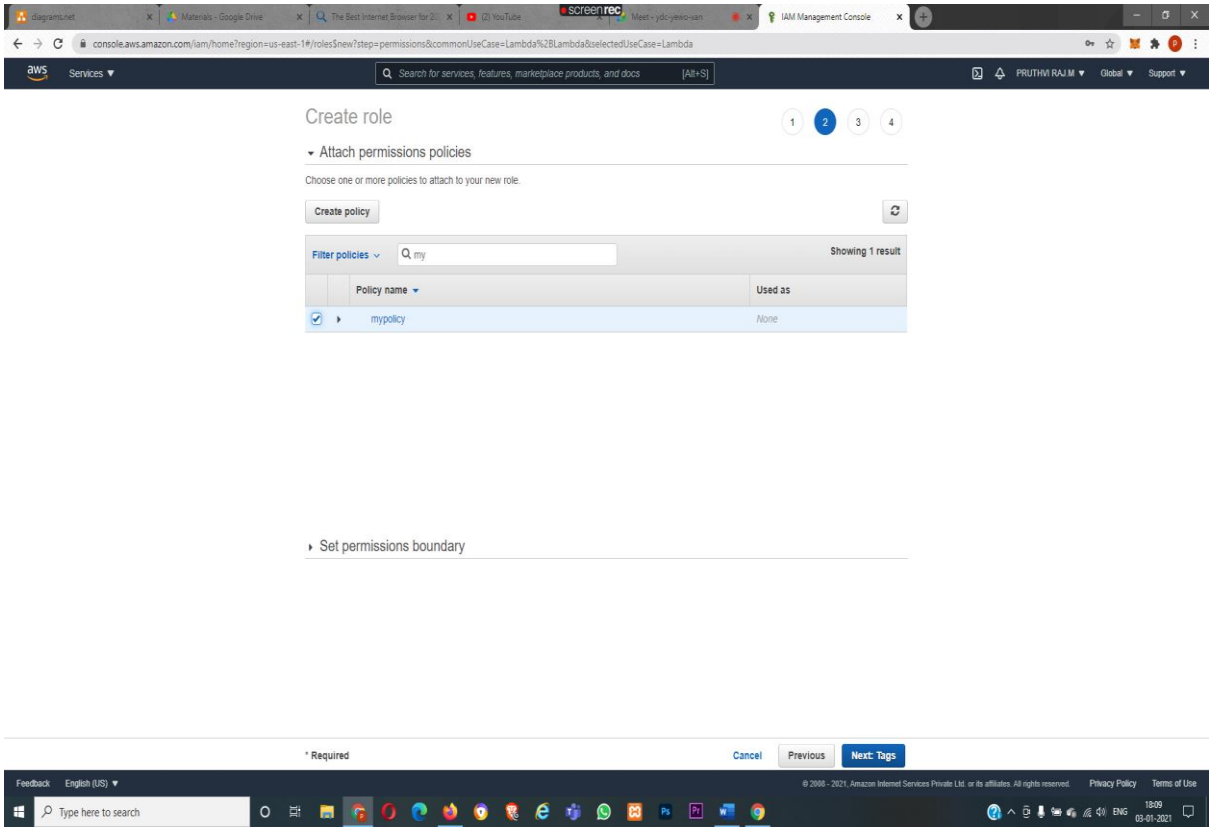
CREATING AN IAM POLICY AND AN IAM ROLE

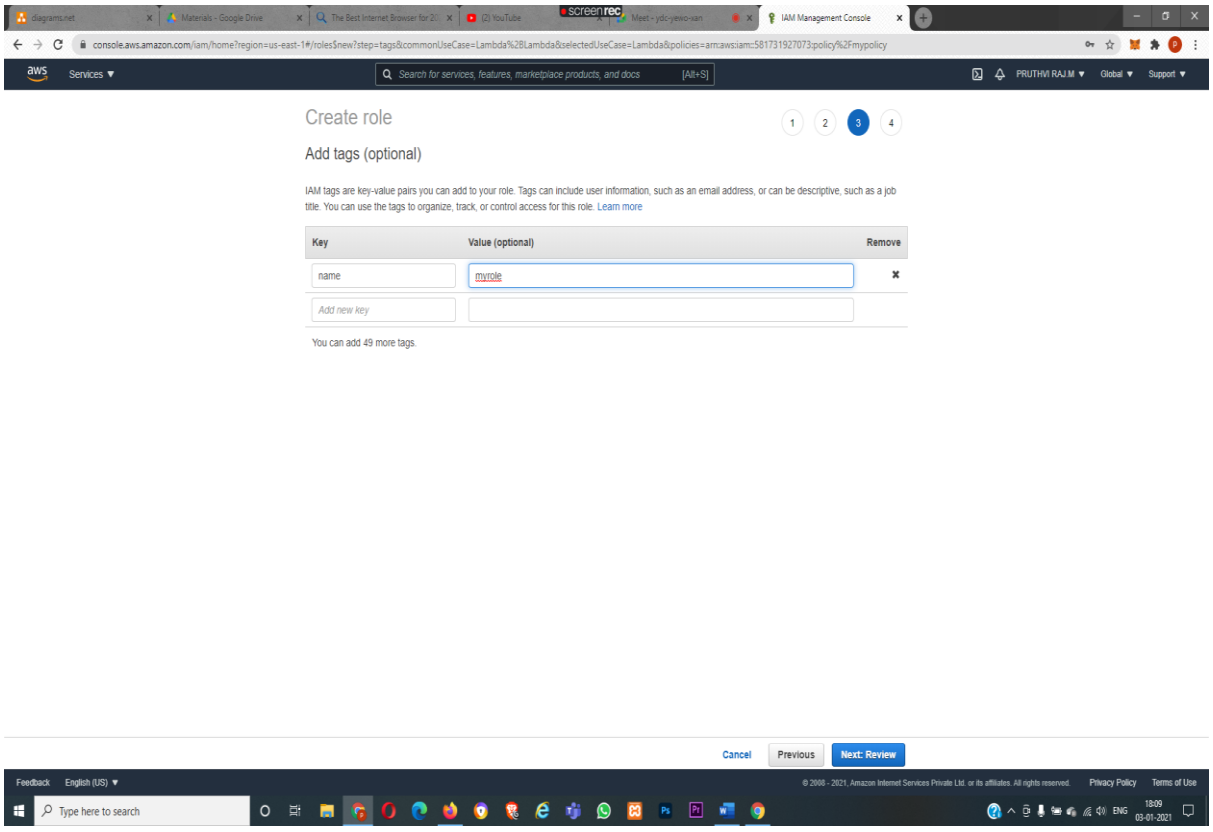


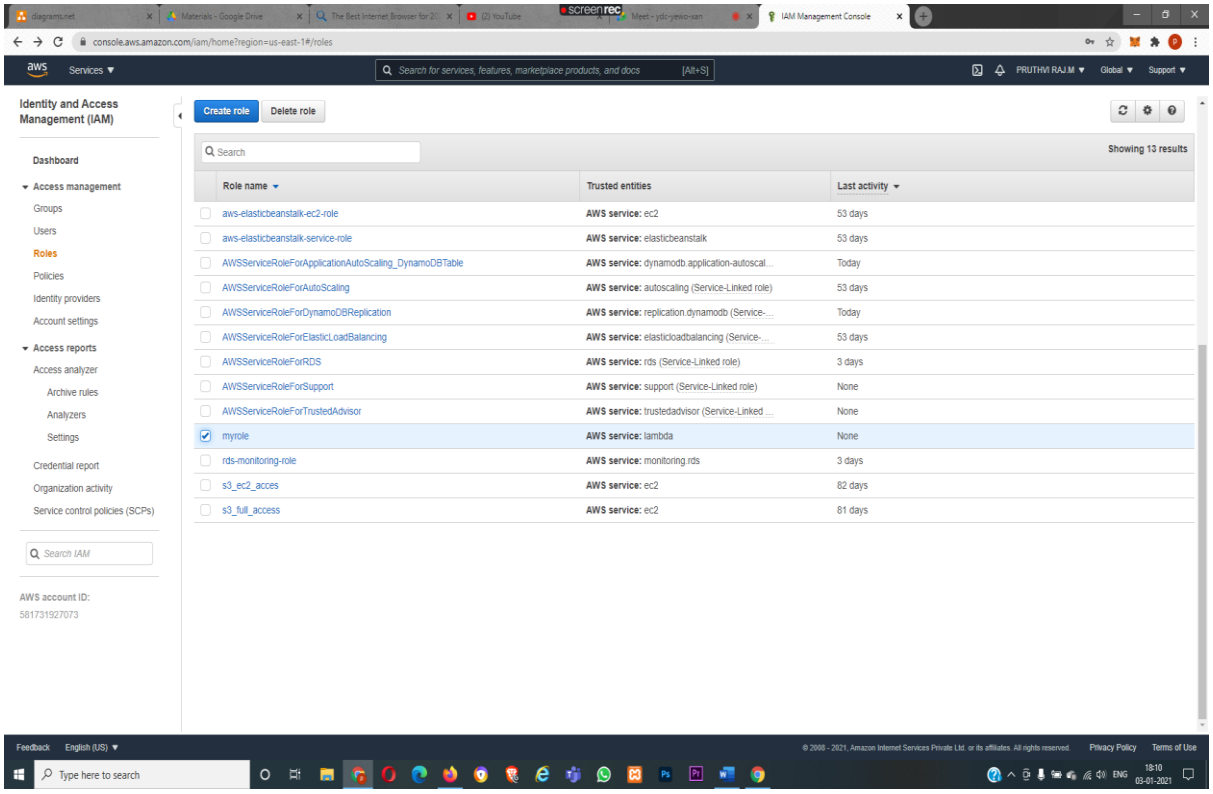



IAM Management Console
console.aws.amazon.com/iam/home?region=us-east-1#/policies
Services
Search for services, features, marketplace products, and docs [Alt+S]
PRUTHVI RAJ M
Global
Support
Identity and Access Management (IAM)
Dashboard
Access management
Groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access analyzer
Archive rules
Analyzers
Settings
Credential report
Organization activity
Service control policies (SCPs)
Search IAM
AWS account ID:
581731927073
Create policy
Policy actions
Filter policies
my
Showing 1 result
Policy name
Type
Used as
Description
mypolicy
Customer managed
None
Feedback
English (US)
Privacy Policy
Terms of Use
Type here to search
18:08
03-01-2021

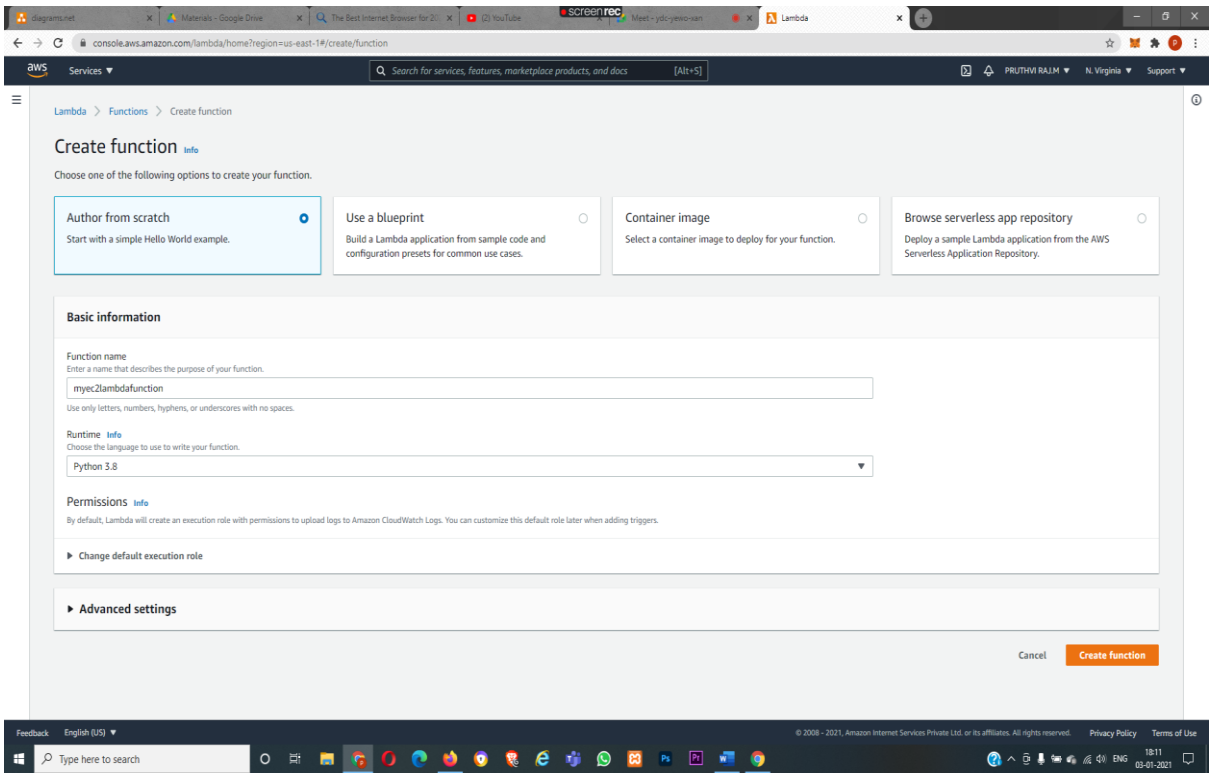

IAM Management Console
console.aws.amazon.com/iam/home?region=us-east-1#/roles$new?step=type
Services
Search for services, features, marketplace products, and docs [Alt+S]
PRUTHVI RAJ M
Global
Support
Create role
1
2
3
4
Select type of trusted entity
AWS service
EC2, Lambda and others
Another AWS account
Belonging to you or 3rd party
Web identity
Cognito or any OpenID provider
SAML 2.0 federation
Your corporate directory
Allows AWS services to perform actions on your behalf. Learn more
Choose a use case
Common use cases
EC2
Allows EC2 instances to call AWS services on your behalf.
Lambda
Allows Lambda functions to call AWS services on your behalf.
Or select a service to view its use cases
API Gateway
AWS Backup
AWS Chatbot
AWS Marketplace
AWS Support
Amplify
AppStream 2.0
AppSync
Application Auto Scaling
Application Discovery Service
Batch
CloudWatch Events
CodeBuild
CodeDeploy
CodeGuru
CodeStar Notifications
Comprehend
Config
Connect
DMS
Data Lifecycle Manager
Data Pipeline
DataBrew
EKS
EMR
ElastiCache
Elastic Beanstalk
Elastic Container Registry
Elastic Container Service
Elastic Transcoder
ElasticLoadBalancing
Forecast
GameLift
Global Accelerator
Glue
IoT Things Graph
KMS
Kinesis
Lake Formation
Lambda
Lex
License Manager
MQ
Machine Learning
Macie
Managed Blockchain
MediaConvert
Redshift
Rekognition
RoboMaker
S3
SMS
SNS
SWF
SageMaker
Security Hub
Service Catalog
Step Functions
Storage Gateway
* Required
Cancel
Next: Permissions
Feedback
English (US)
Privacy Policy
Terms of Use
Type here to search
18:09
03-01-2021

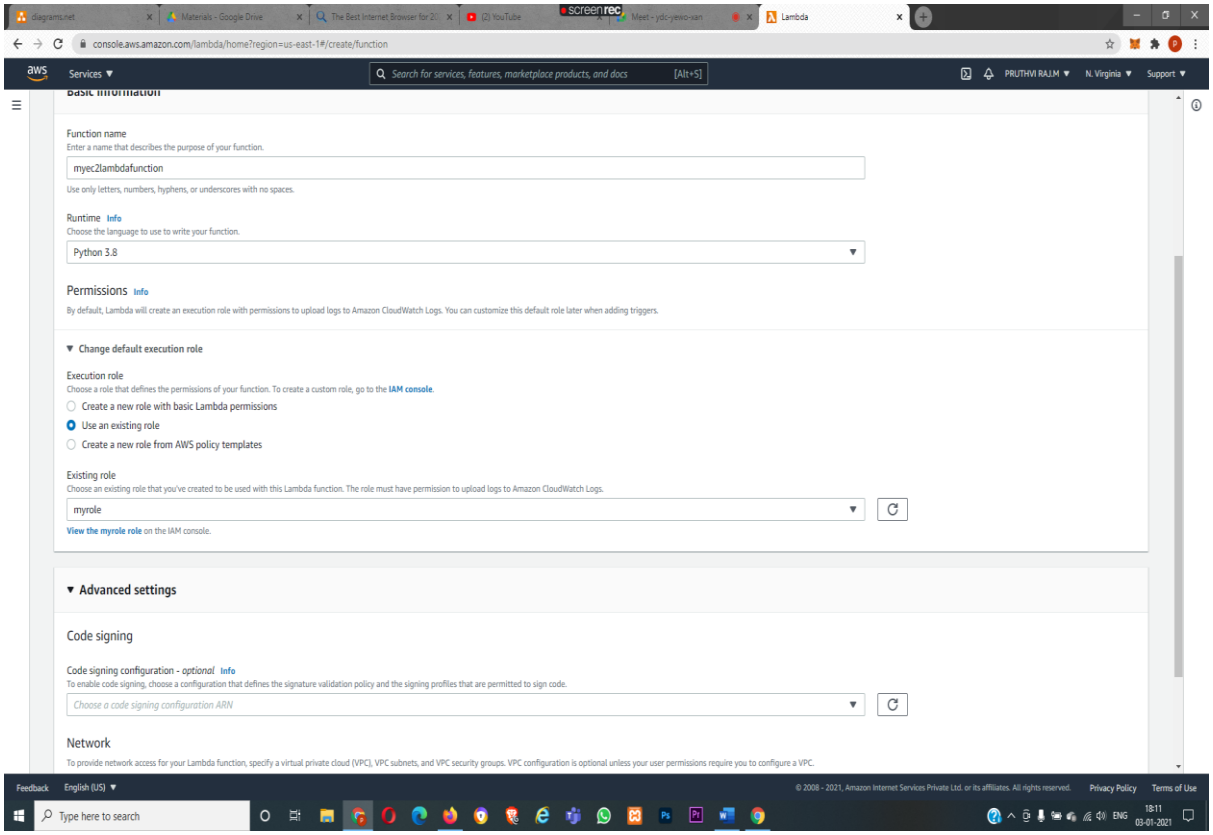

IAM Management Console
console.aws.amazon.com/iam/home?region=us-east-1#/roles$new?step=permissions&commonUseCase=Lambda%2BLambda&selectedUseCase=Lambda
Services
Search for services, features, marketplace products, and docs [Alt+S]
PRUTHVI RAJ M
Global
Support
Create role
1 2 3 4
Attach permissions policies
Choose one or more policies to attach to your new role.
Create policy
Filter policies
my
Showing 1 result
Policy name
Used as
mypolicy
None
Set permissions boundary
* Required
Cancel
Previous
Next: Tags
Feedback
English (US)
© 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.
Privacy Policy
Terms of Use
Type here to search
ENG
18:09
03-01-2021

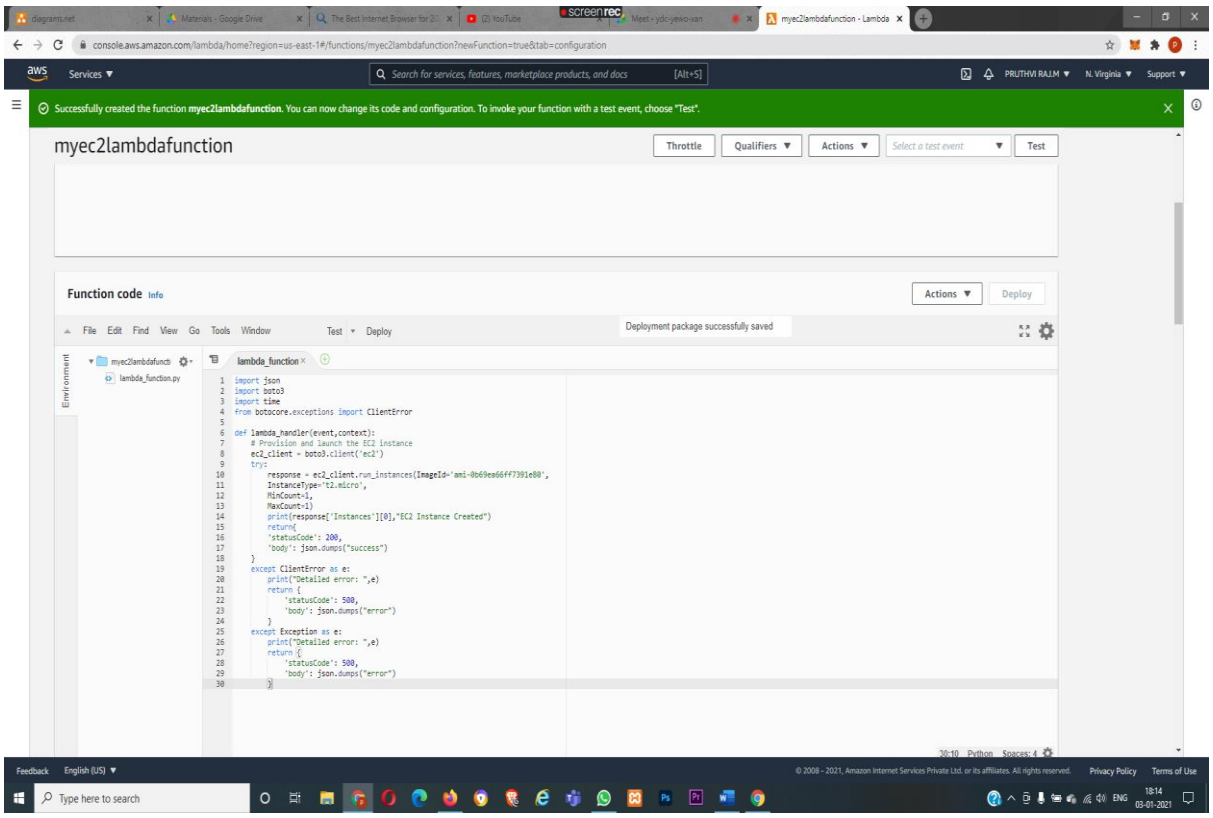

IAM Management Console
console.aws.amazon.com/iam/home?region=us-east-1#/roles$new?step=tags&commonUseCase=Lambda%2BLambda&selectedUseCase=Lambda&policies=arn:aws:iam::581731927073:policy%2Fmypolicy
Services
Search for services, features, marketplace products, and docs [Alt+S]
PRUTHVI RAJ M
Global
Support
Create role
1 2 3 4
Add tags (optional)
IAM tags are key-value pairs you can add to your role. Tags can include user information, such as an email address, or can be descriptive, such as a job title. You can use the tags to organize, track, or control access for this role. Learn more
Key
Value (optional)
Remove
name
myrole
Add new key
You can add 49 more tags.
Cancel
Previous
Next: Review
Feedback
English (US)
© 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.
Privacy Policy
Terms of Use
Type here to search
ENG
18:09
03-01-2021

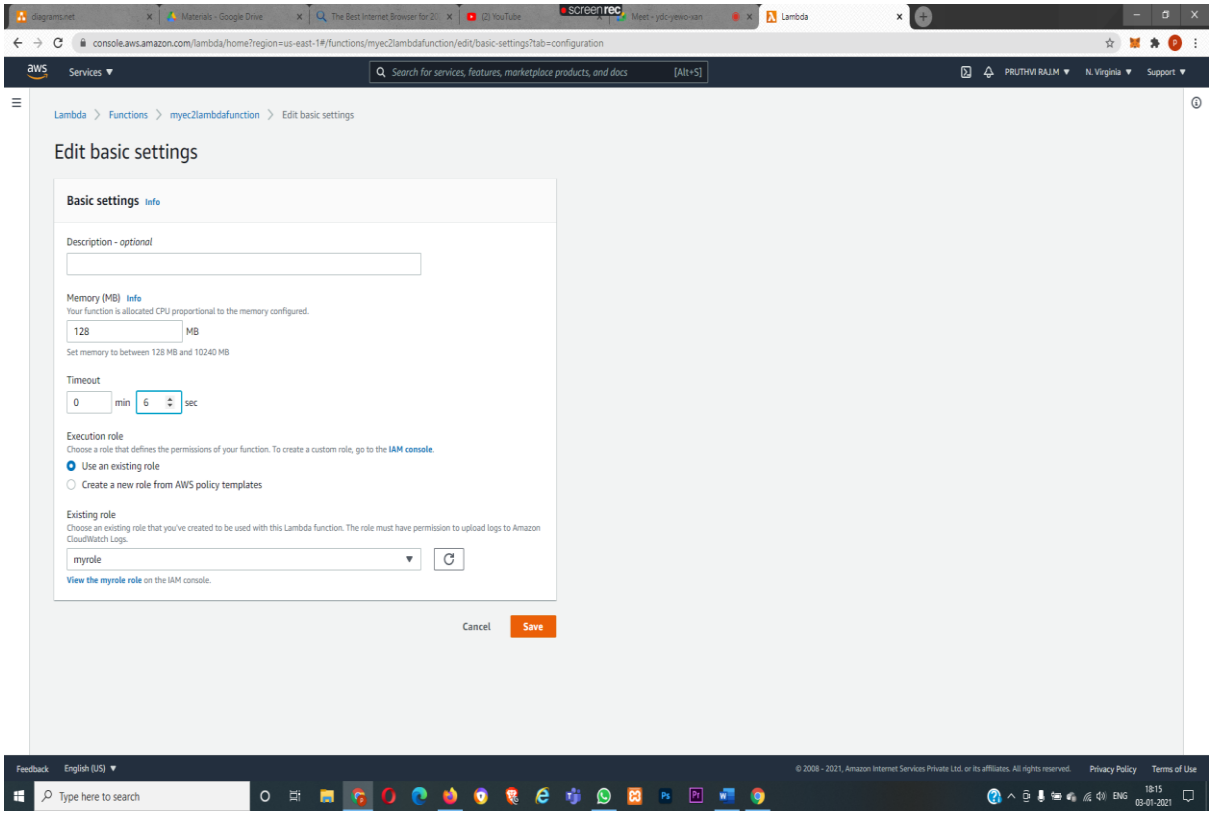


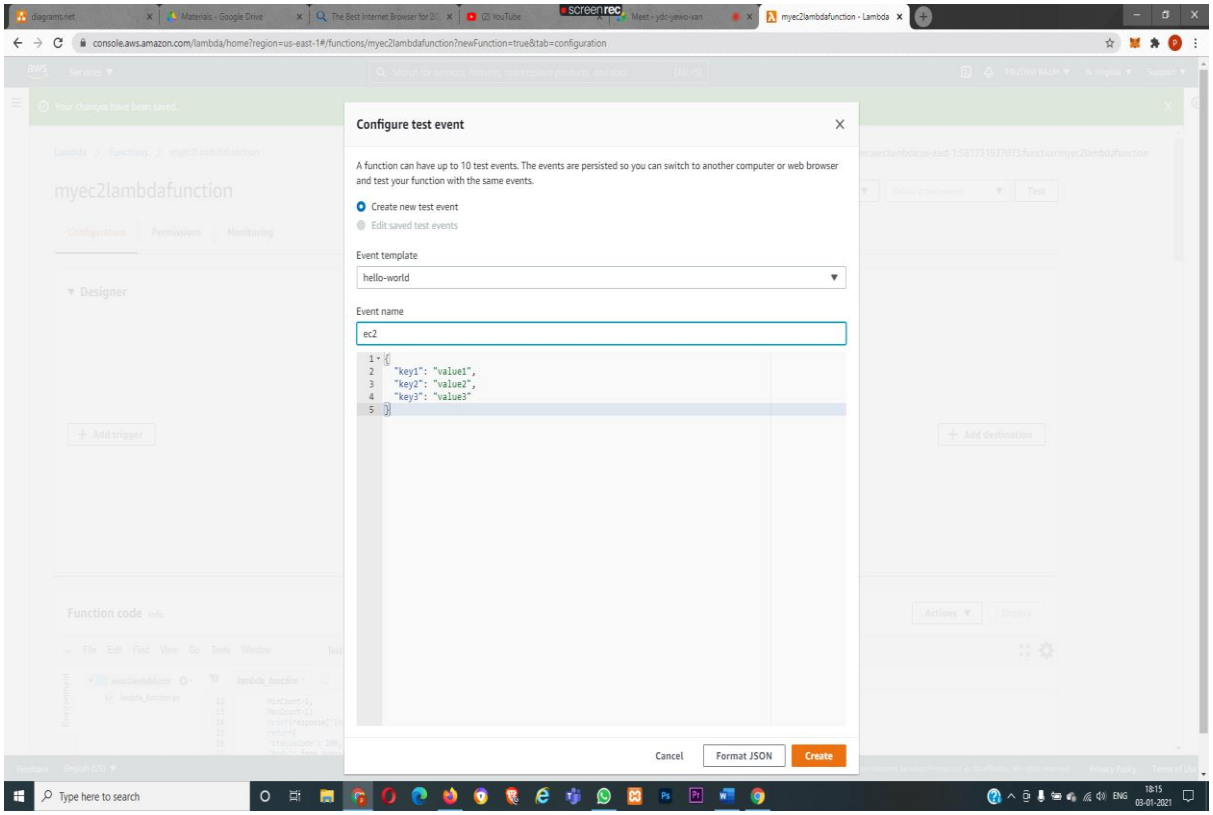
CREATING OF A LAMBDA FUNCTION

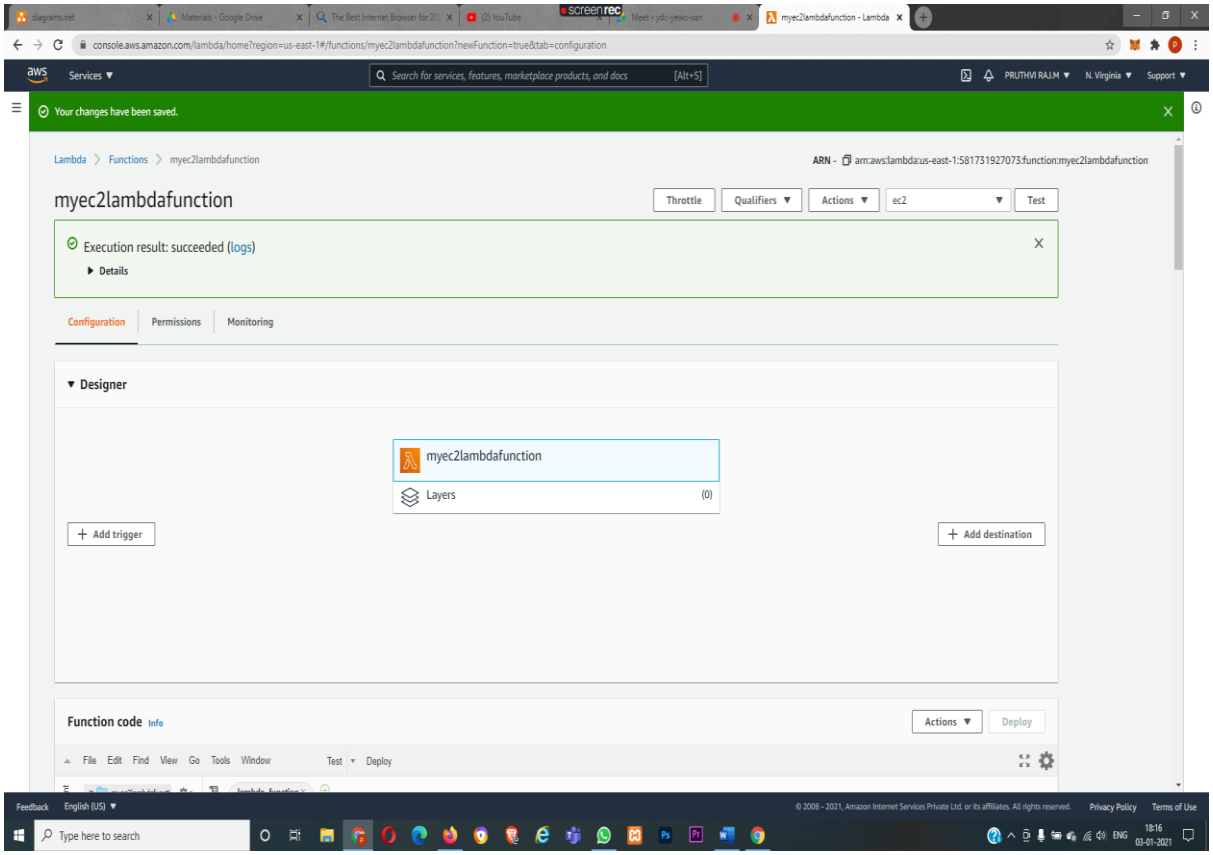



Function name
Enter a name that describes the purpose of your function.
myec2lambdafunction
Use only letters, numbers, hyphens, or underscores with no spaces.
Runtime Info
Choose the language to use to write your function.
Python 3.8
Permissions Info
By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.
Change default execution role
Execution role
Choose a role that defines the permissions of your function. To create a custom role, go to the IAM console.
Create a new role with basic Lambda permissions
Use an existing role
Create a new role from AWS policy templates
Existing role
Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.
myrole
View the myrole role on the IAM console.
Advanced settings
Code signing
Code signing configuration - optional Info
To enable code signing, choose a configuration that defines the signature validation policy and the signing profiles that are permitted to sign code.
Choose a code signing configuration ARN
Network
To provide network access for your Lambda function, specify a virtual private cloud (VPC), VPC subnets, and VPC security groups. VPC configuration is optional unless your user permissions require you to configure a VPC.

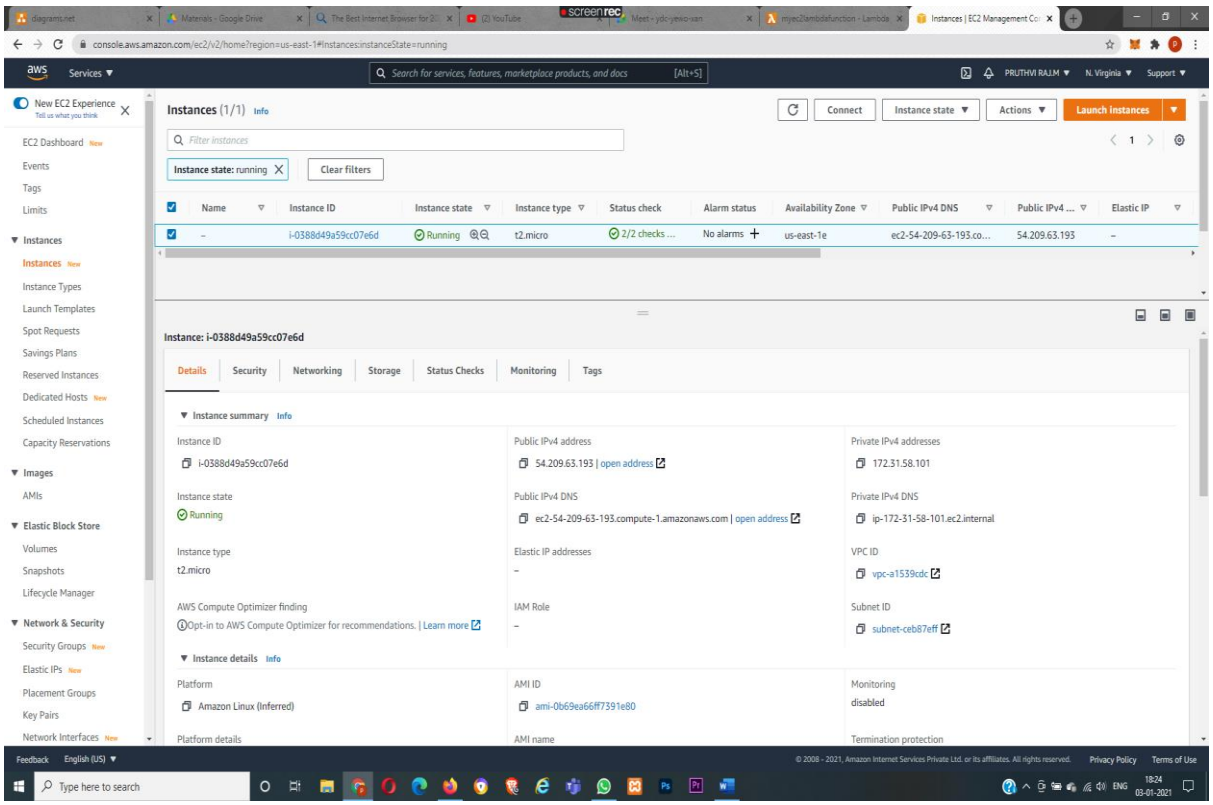

Successfully created the function myec2lambdafunction. You can now change its code and configuration. To invoke your function with a test event, choose "Test".
myec2lambdafunction
Throttle
Qualifiers
Actions
Select a test event
Test
Function code Info
Actions
Deploy
File Edit Find View Go Tools Window Test Deploy
Deployment package successfully saved
Environment
myec2lambdafuncti
lambda_function.py
lambda_function
import json
import boto3
import time
from botocore.exceptions import ClientError
def lambda_handler(event,context):
# Provision and launch the EC2 instance
ec2_client = boto3.client('ec2')
try:
response = ec2_client.run_instances(ImageId='ami-0b69ea66ff7391e80',
InstanceType='t2.micro',
MinCount=1,
MaxCount=1)
print(response['Instances'][0],"EC2 Instance Created")
return{
'statusCode': 200,
'body': json.dumps("success")
}
except ClientError as e:
print("Detailed error: ",e)
return {
'statusCode': 500,
'body': json.dumps("error")
}
except Exception as e:
print("Detailed error: ",e)
return {
'statusCode': 500,
'body': json.dumps("error")
}
30:10 Python Spaces: 4


Lambda
console.aws.amazon.com/lambda/home?region=us-east-1#/functions/myec2lambdafunction/edit/basic-settings?tab=configuration
Services
Search for services, features, marketplace products, and docs [Alt+S]
PRUTHVI RAJ.M
N. Virginia
Support
Lambda > Functions > myec2lambdafunction > Edit basic settings
Edit basic settings
Basic settings Info
Description - optional
Memory (MB) Info
Your function is allocated CPU proportional to the memory configured.
128 MB
Set memory to between 128 MB and 10240 MB
Timeout
0 min 6 sec
Execution role
Choose a role that defines the permissions of your function. To create a custom role, go to the IAM console.
Use an existing role
Create a new role from AWS policy templates
Existing role
Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.
myrole
View the myrole role on the IAM console.
Cancel
Save
Feedback
English (US)
© 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved.
Privacy Policy
Terms of Use
Type here to search
ENG
18:15
03-01-2021


myec2lambdafunction - Lambda
console.aws.amazon.com/lambda/home?region=us-east-1#/functions/myec2lambdafunction?newFunction=true&tab=configuration
Configure test event
A function can have up to 10 test events. The events are persisted so you can switch to another computer or web browser and test your function with the same events.
Create new test event
Edit saved test events
Event template
hello-world
Event name
ec2
{
"key1": "value1",
"key2": "value2",
"key3": "value3"
}
Cancel
Format JSON
Create
myec2lambdafunction
Designer
Function code
Type here to search
ENG
18:15
03-01-2021



DETAILS OF INSTANCE THAT IS CREATED WHILE TESTING LAMBDA FUNCTION



THANK YOU