

Name: Chaudhary Juned Ahmad S.

Seat no.: 567

Aim: To create a Lambda function which will log “AnImage has been added” once you add an object to a specific bucket in S3. Use AWS Lambda blueprint.

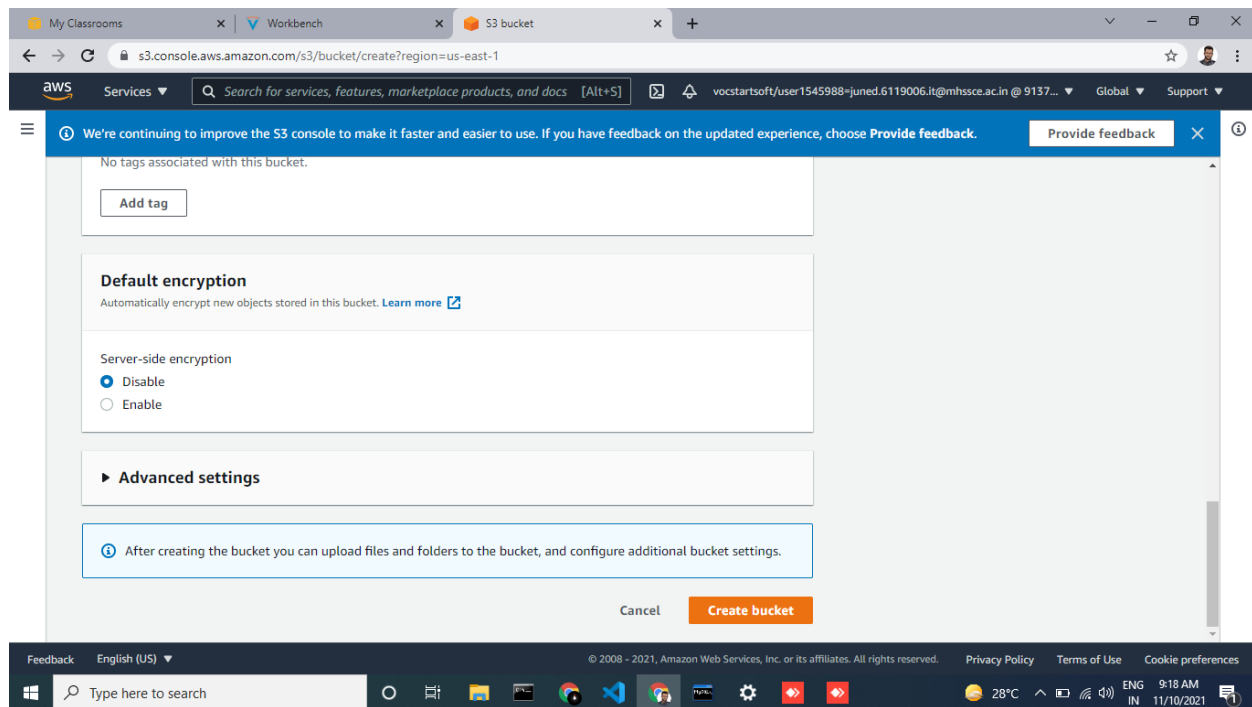
Login to the AWS Console page

Go to S3 and create a bucket.

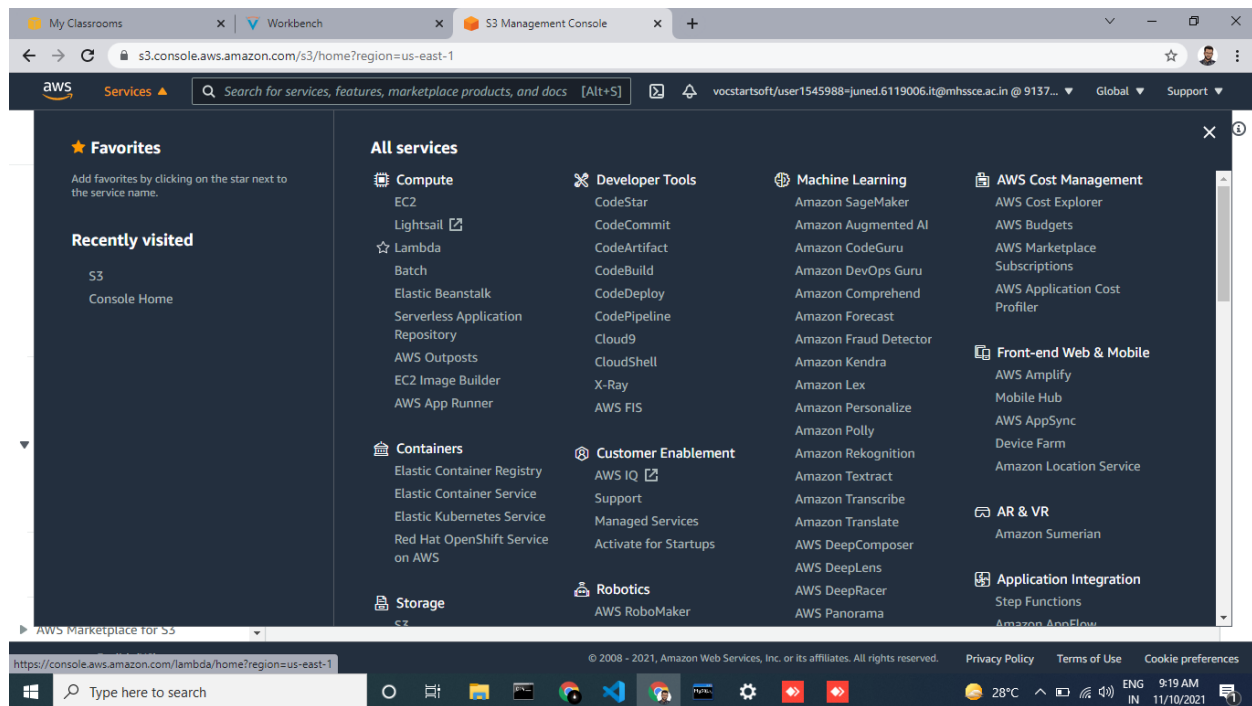
The screenshot displays the AWS S3 console interface. At the top, a green notification banner states: "Successfully created bucket 'juned6119006'. To upload files and folders, or to configure additional bucket settings choose View details." The left sidebar shows the navigation menu with "Buckets" selected. The main content area shows the "Buckets (1)" section with a table listing the bucket "juned6119006".

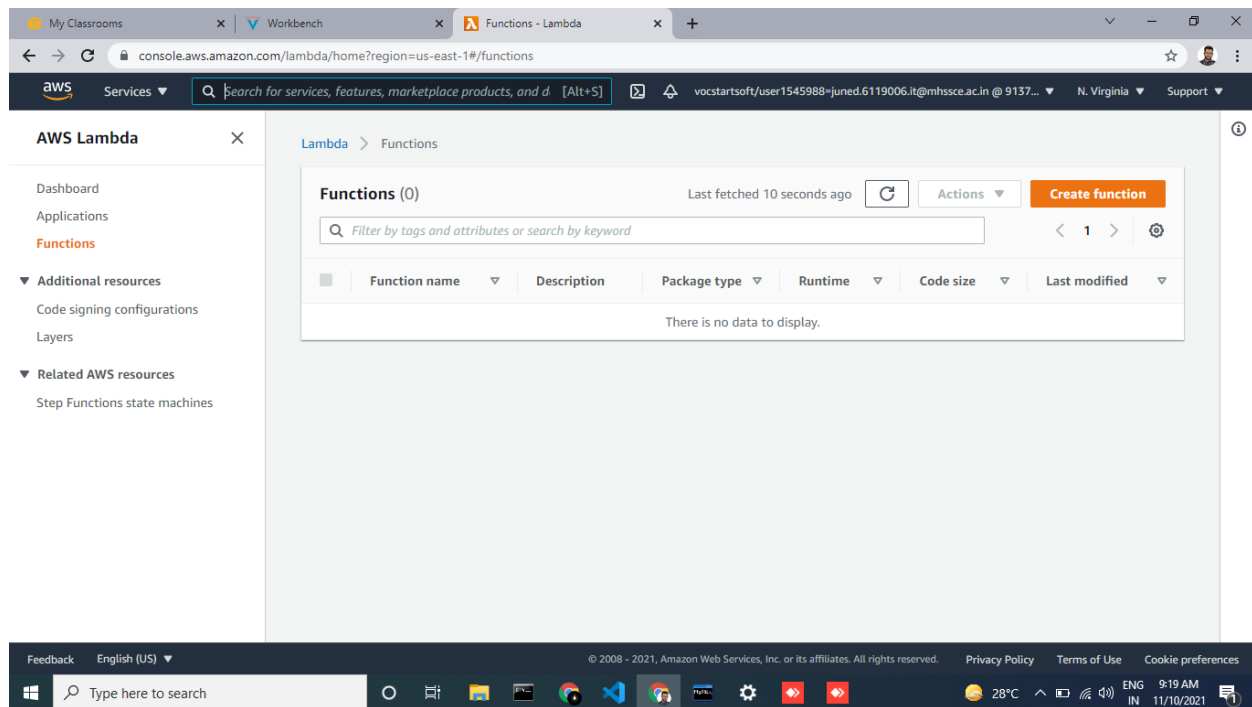
Name	AWS Region	Access	Creation date
juned6119006	US East (N. Virginia) us-east-1	Bucket and objects not public	November 10, 2021, 09:18:33 (UTC+05:30)

The bottom of the screenshot shows the Windows taskbar with the time 9:18 AM on 11/10/2021.

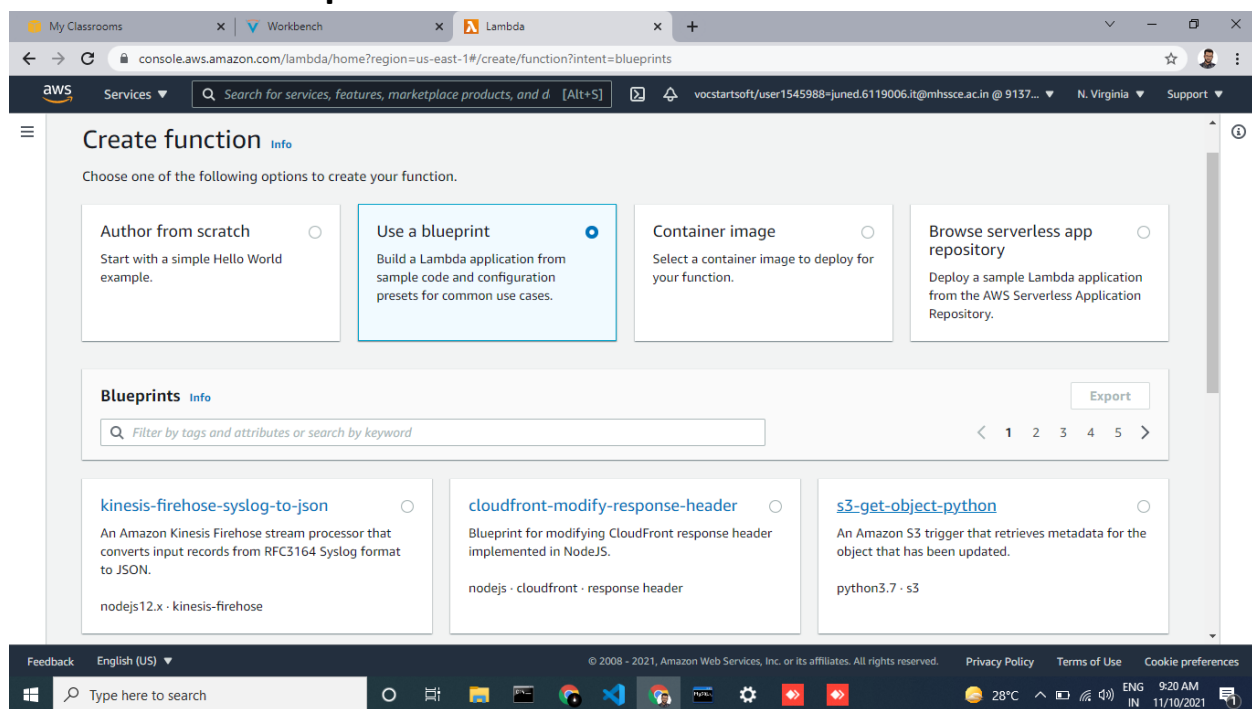


Now go to Services and search for lambda function.





Click on “use Blueprint”



Further click on s3 object get python as shown below.

Here Enter the function name and role name.

The screenshot shows the AWS Lambda console's 'Basic information' tab for creating a new function. The function name is 'junedlambda'. Under 'Execution role', the option 'Create a new role from AWS policy templates' is selected. A role name '6119006' has been entered. A blue information box states: 'Role creation might take a few minutes. Please do not delete the role or edit the trust or permissions policies in this role.' The 'Policy templates' section is currently collapsed. The browser's address bar shows the URL: 'console.aws.amazon.com/lambda/home?region=us-east-1#/create/function/configure/blueprint?blueprint=s3-get-object-python'. The Windows taskbar at the bottom shows the time as 9:22 AM on 11/10/2021.

Basic information [Info](#)

Function name
junedlambda

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

Role creation might take a few minutes. Please do not delete the role or edit the trust or permissions policies in this role.

Role name
Enter a name for your new role.
6119006
Use only letters, numbers, hyphens, or underscores with no spaces.

Policy templates - optional [Info](#)
Choose one or more policy templates

Enter the bucket name which was created by the user.

The screenshot shows the 'S3 trigger' configuration tab. The 'Bucket' dropdown is set to 'juned6119006'. The 'Event type' dropdown is set to 'All object create events'. There are optional fields for 'Prefix' (containing 'e.g. images/') and 'Suffix' (containing 'e.g. .jpg'). A 'Remove' button is located at the top right of the configuration area. A note at the bottom states: 'Lambda will add the necessary permissions for Amazon S3 to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.' The browser's address bar shows the URL: 'console.aws.amazon.com/lambda/home?region=us-east-1#/create/function/configure/blueprint?blueprint=s3-get-object-python'. The Windows taskbar at the bottom shows the time as 9:22 AM on 11/10/2021.

S3 trigger [Remove](#)

Bucket
Please select the S3 bucket that serves as the event source. The bucket must be in the same region as the function.
juned6119006

Event type
Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.
All object create events

Prefix - optional
Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.
e.g. images/

Suffix - optional
Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters.
e.g. .jpg

Lambda will add the necessary permissions for Amazon S3 to invoke your Lambda function from this trigger. [Learn more](#) about the Lambda permissions model.

Now click on create function

Deploy the changes.(here changes has been successfully deployed)

The screenshot shows the AWS Lambda console for the function 'junedlambda'. A green notification banner at the top states: 'Congratulations! Your Lambda function "junedlambda" has been successfully created and configured with juned6119006 as a trigger. Choose Test to input a test event and test your function.' Below this, the 'Function overview' section displays the function name 'junedlambda', its layers (0), and a list of triggers including 'S3'. To the right, the 'Description' field reads: 'An Amazon S3 trigger that retrieves metadata for the object that has been updated.' Other details include 'Last modified: 6 seconds ago' and 'Function ARN: arn:aws:lambda:us-east-1:913744600688:function:junedlambda'. The bottom navigation bar shows tabs for Code, Test, Monitor, Configuration, Aliases, and Versions.

This screenshot shows the 'Configuration' tab for the 'junedlambda' function. The left sidebar contains a menu with 'General configuration', 'Triggers', 'Permissions', 'Destinations', 'Environment variables', 'Tags', 'VPC', 'Monitoring and operations tools', and 'Concurrency'. The main area is titled 'Triggers (1)' and includes a search bar with 'S3' and a '1 match' result. The trigger is listed as 'S3: juned6119006' with the ARN 'arn:aws:s3:::juned6119006'. Action buttons for 'Enable', 'Disable', 'Fix errors', 'Delete', and 'Add trigger' are visible. The bottom navigation bar remains the same as in the previous screenshot.

Now move to S3 bucket and upload some object files:

The screenshot shows the AWS S3 Management Console interface. At the top, there's a navigation bar with 'My Classrooms', 'Workbench', and 'S3 Management Console' tabs. The main content area is titled 'Uploading' and shows a progress bar at 0%. Below the progress bar, there's a section titled 'Upload: status' with a 'Close' button. A message states: 'The information below will no longer be available after you navigate away from this page.' Underneath, there's a 'Summary' section with a table showing upload statistics. The table has three columns: 'Destination', 'Succeeded', and 'Failed'. The 'Destination' column shows 's3://juned6119006'. The 'Succeeded' column shows '0 files, 0 B (0%)'. The 'Failed' column shows '0 files, 0 B (0%)'. Below the summary, there are tabs for 'Files and folders' and 'Configuration'. The 'Files and folders' tab is selected. The bottom of the screen shows a Windows taskbar with various icons and system information.

Destination	Succeeded	Failed
s3://juned6119006	0 files, 0 B (0%)	0 files, 0 B (0%)

The file has been successfully uploaded:

The screenshot shows the AWS S3 Management Console interface after a successful upload. The progress bar at the top is now green and shows 100%. The 'Upload: status' section now shows a green checkmark and the text 'Upload succeeded'. The 'Summary' section shows a table with three columns: 'Destination', 'Succeeded', and 'Failed'. The 'Destination' column shows 's3://juned6119006'. The 'Succeeded' column shows '1 file, 1.1 MB (100.00%)'. The 'Failed' column shows '0 files, 0 B (0%)'. Below the summary, there are tabs for 'Files and folders' and 'Configuration'. The 'Files and folders' tab is selected. Below the tabs, there's a section titled 'Files and folders (1 Total, 1.1 MB)' with a search bar and a table listing the uploaded files. The table has columns: 'Name', 'Folder', 'Type', 'Size', 'Status', and 'Error'. The table contains one row with the file 'IMG_20210701_171809.jpg' in the 'Name' column, '-' in the 'Folder' column, 'image/jpeg' in the 'Type' column, '1.1 MB' in the 'Size' column, 'Succeeded' in the 'Status' column, and '-' in the 'Error' column. The bottom of the screen shows a Windows taskbar with various icons and system information.

Destination	Succeeded	Failed
s3://juned6119006	1 file, 1.1 MB (100.00%)	0 files, 0 B (0%)

Name	Folder	Type	Size	Status	Error
IMG_20210701_171809.jpg	-	image/jpeg	1.1 MB	Succeeded	-

Now Scroll Down and you will see the log:

My Classroomsxjunedlambda - LambdaxCloudWatch Management ConsolxMeet - nbf-isjm-pppx

console.aws.amazon.com/cloudwatch/home?region=us-east-1#logsV2:log-groups/log-group/\$252Faws\$252Flambda\$252Fjunedlambda

awsServicesSearch for services, features, marketplace products, and d [Alt+S]vostartsoft/user1545988=juned.6119006.it@mhsce.ac.in @ 9137...N. VirginiaSupport

CloudWatch

Favorites

Dashboards

Alarms000

Logs

Metrics

Events

Application monitoring

Insights

Settings

Getting Started

Log group details

Retention
Never expire

Creation time
1 hour ago

Stored bytes
-

ARN
arn:aws:logs:us-east-1:913744600688:log-group:/aws/lambda/junedlambda:*

KMS key ID
-

Metric filters
0

Subscription filters
0

Contributor Insights rules
-

Log streams

Metric filters

Subscription filters

Contributor Insights

Tags

Log streams (1)

Filter log streams or try prefix search

Log stream

Last event time

2021/11/10/[\$LATEST]5c5754479135401087b02c05bdabe...

2021-11-10 09:42:14 (UTC+05:30)

FeedbackEnglish (US)

© 2008 - 2021, Amazon Web Services, Inc. or its affiliates. All rights reserved.

Privacy PolicyTerms of UseCookie preferences

Type here to search

30°CENG IN10:42 AM11/10/2021