

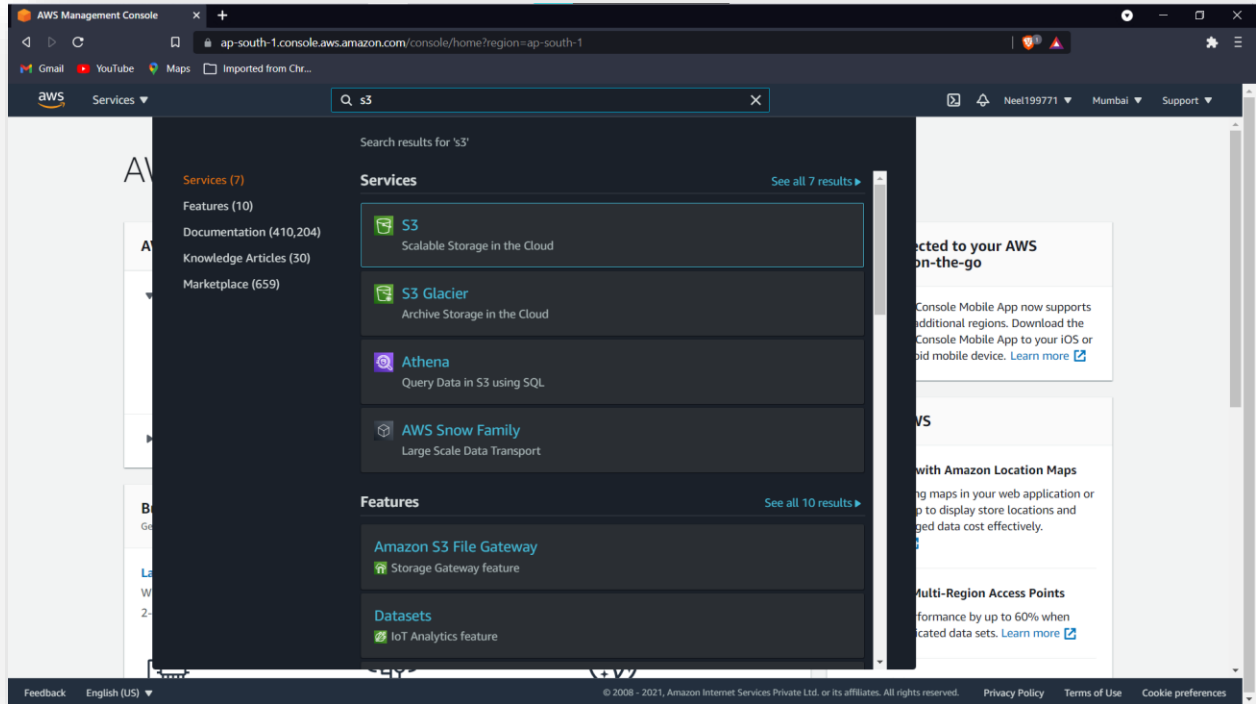
AWS Lambda Function

Lab-10

Aim- To implement lamda Function.

Login to Aws account-

Search S3 ,click on the option below shown-



AWS Lambda Function

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Create an S3 bucket by giving it a name

The screenshot shows the AWS S3 console interface for creating a new bucket. The browser address bar indicates the URL is `s3.console.aws.amazon.com/s3/bucket/create?region=ap-south-1`. The page title is "Create bucket" with an "Info" link. Below the title, a note states "Buckets are containers for data stored in S3. [Learn more](#)".

The "General configuration" section contains the following fields:

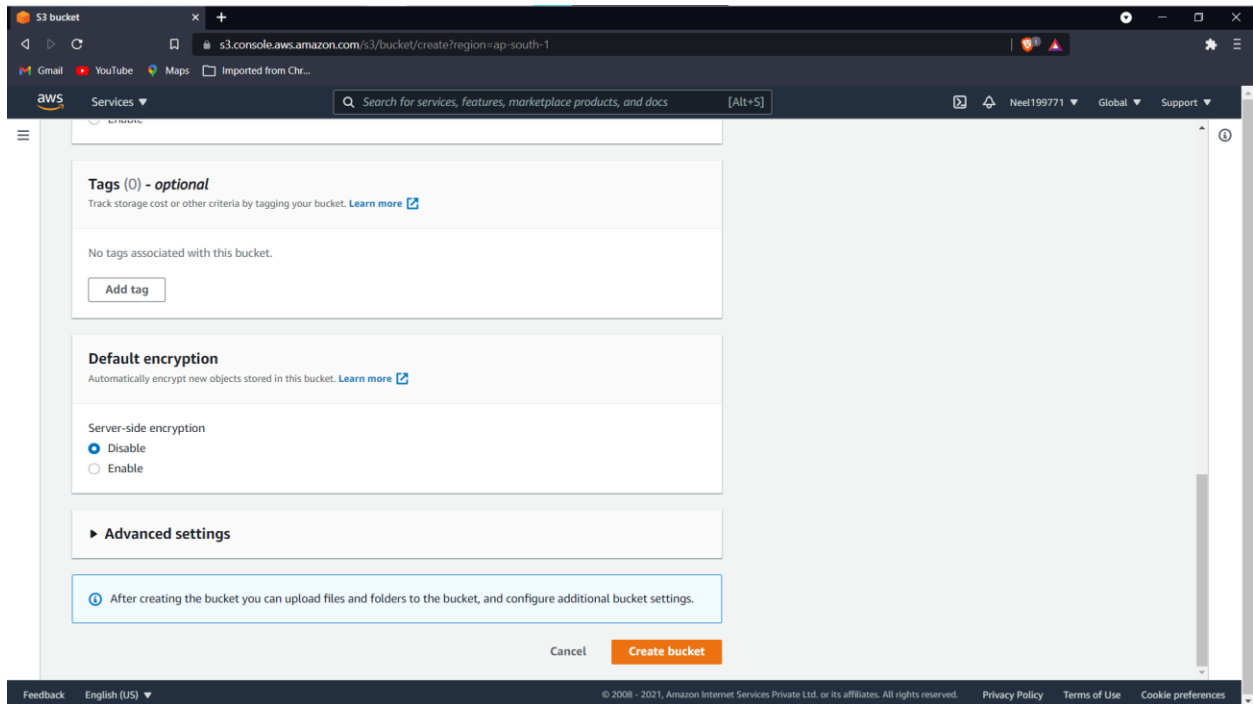
- Bucket name:** A text input field containing "myawsbucket". Below it, a note states: "Bucket name must be unique and must not contain spaces or uppercase letters. [See rules for bucket naming](#)".
- AWS Region:** A dropdown menu showing "Asia Pacific (Mumbai) ap-south-1".
- Copy settings from existing bucket - optional:** A section with the text "Only the bucket settings in the following configuration are copied." and a "Choose bucket" button.

The "Block Public Access settings for this bucket" section contains a checkbox labeled "Block all public access" which is checked. Below the checkbox, a note states: "Public access is granted to buckets and objects through access control lists (ACLs), bucket policies, access point policies, or all. In order to ensure that public access to this bucket and its objects is blocked, turn on Block all public access. These settings apply only to this bucket and its access points. AWS recommends that you turn on Block all public access, but before applying any of these settings, ensure that your applications will work correctly without public access. If you require some level of public access to this bucket or objects within, you can customize the individual settings below to suit your specific storage use cases. [Learn more](#)".

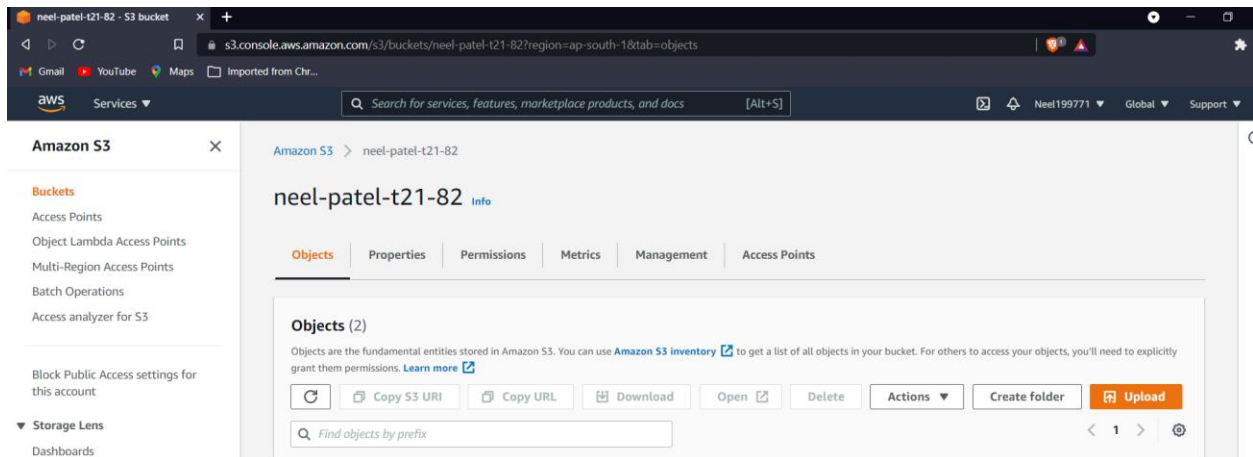
The footer of the console shows "Feedback", "English (US)", and copyright information: "© 2008 - 2021, Amazon Internet Services Private Ltd. or its affiliates. All rights reserved." along with links for "Privacy Policy", "Terms of Use", and "Cookie preferences".

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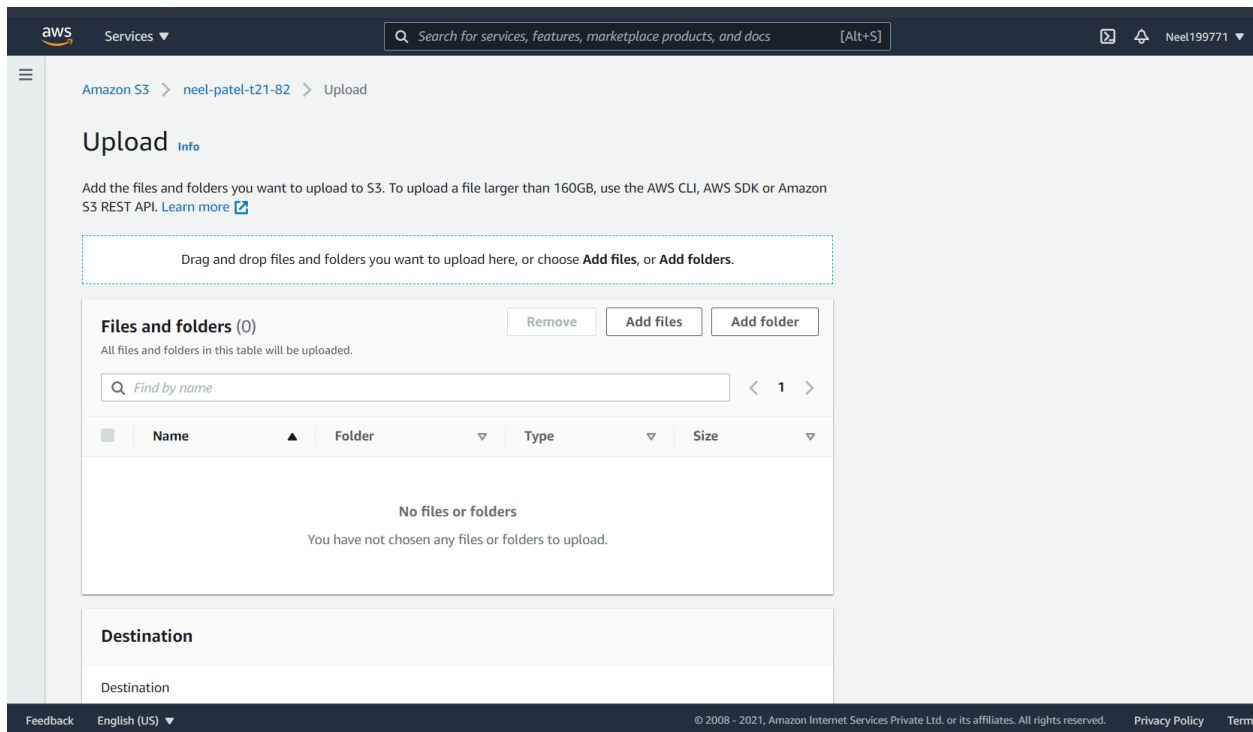


Click on upload button after the s3 bucket is created in the object section



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The screenshot shows the AWS S3 'Upload' page for the bucket 'neel-patel-t21-82'. The page has a dark blue header with the AWS logo, 'Services' dropdown, a search bar, and a user profile 'Neel199771'. The breadcrumb trail is 'Amazon S3 > neel-patel-t21-82 > Upload'. The main heading is 'Upload' with an 'Info' link. Below it, a message states: 'Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)'. A dashed box contains the instruction: 'Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folders**.' Below this is a section titled 'Files and folders (0)' with 'Remove', 'Add files', and 'Add folder' buttons. A search bar 'Find by name' and a pagination control '< 1 >' are present. A table with columns 'Name', 'Folder', 'Type', and 'Size' is shown, but it is empty with the message 'No files or folders' and 'You have not chosen any files or folders to upload.' At the bottom, there is a 'Destination' section with a dropdown menu currently set to 'Destination'.

aws Services Search for services, features, marketplace products, and docs [Alt+S] Neel199771

Amazon S3 > neel-patel-t21-82 > Upload

Upload [Info](#)

Add the files and folders you want to upload to S3. To upload a file larger than 160GB, use the AWS CLI, AWS SDK or Amazon S3 REST API. [Learn more](#)

Drag and drop files and folders you want to upload here, or choose **Add files**, or **Add folders**.

Files and folders (0)

All files and folders in this table will be uploaded.

Find by name < 1 >

	Name	Folder	Type	Size
No files or folders				
You have not chosen any files or folders to upload.				

Destination

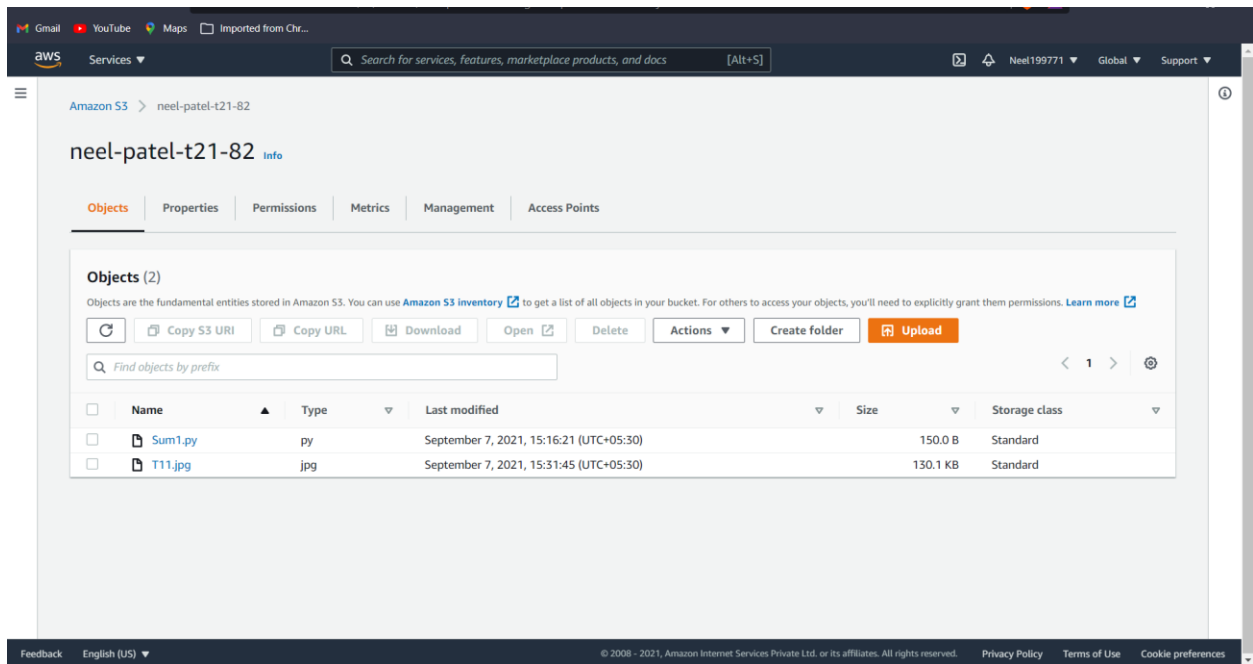
Destination

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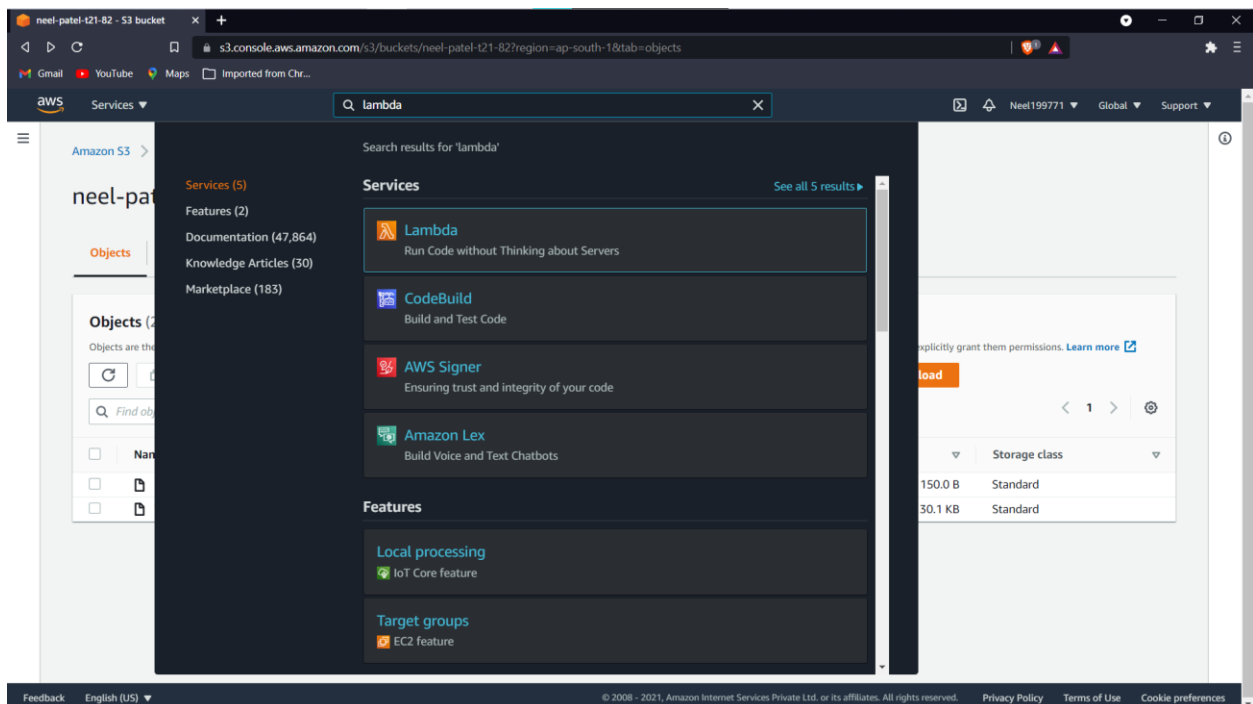
Add any .py or .java extension file and click on upload

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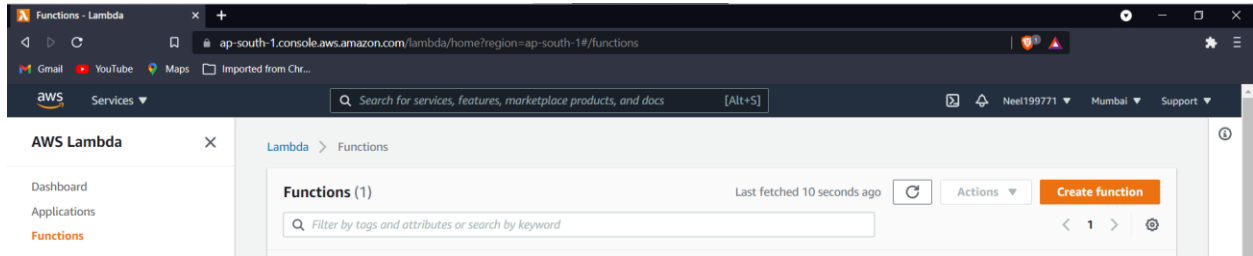
Now search Lamda



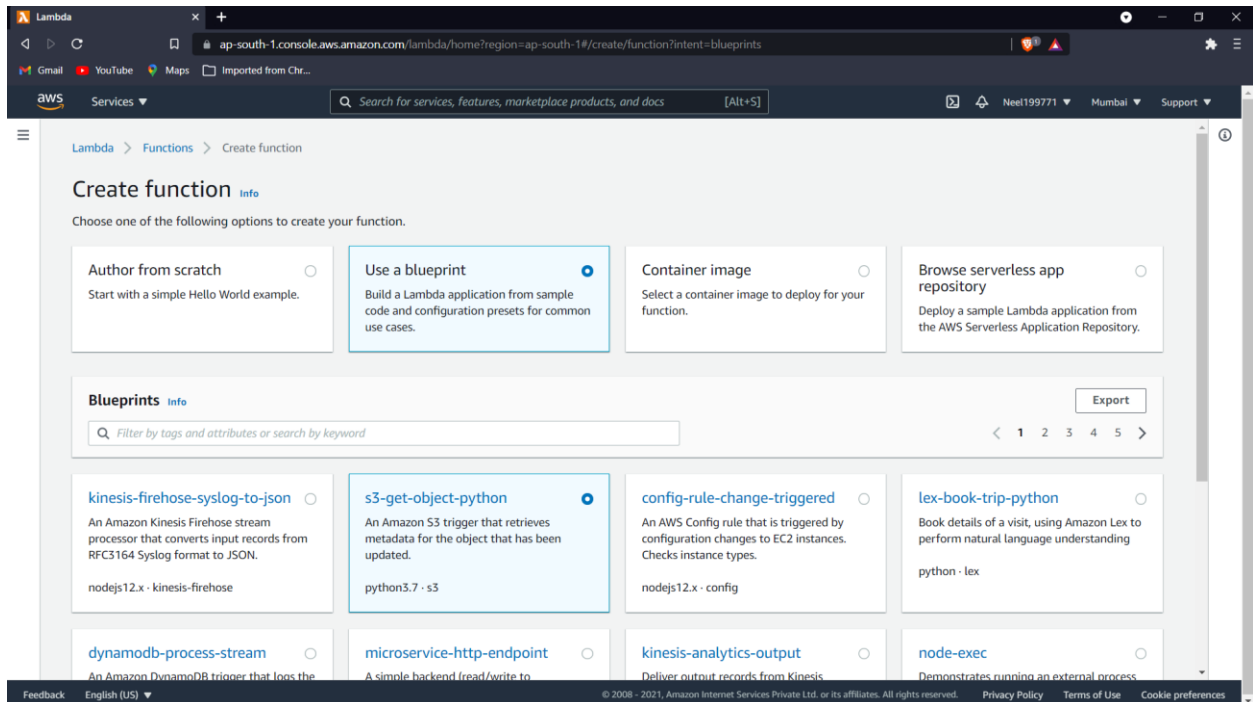
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Click create function



Click on below options and click on configure



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The screenshot shows the AWS Lambda console in the 'ap-south-1' region, specifically the 'Create function' page under the 'Configure blueprint' step for the 's3-get-object-python' blueprint. The 'Basic information' section is active, showing the function name 'Neelt21'. Under 'Execution role', the option 'Create a new role from AWS policy templates' is selected. A message 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 'Role name' field contains 'myRoleName'. Under 'Policy templates - optional', the 'Amazon S3 object read-only permissions' template is selected. The footer includes 'Feedback', 'English (US)', and copyright information for 2008-2021.

Lambda > Functions > Create function > Configure blueprint s3-get-object-python

Basic information [Info](#)

Function name

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

[i](#) 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.

Use only letters, numbers, hyphens, or underscores with no spaces.

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

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Select the bucket created and create trigger ,click on create function-

The screenshot shows the 'S3 trigger' configuration step. A 'Remove' button is at the top right. The 'Bucket' dropdown is set to 'neel-patel-t21-82'. 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 note 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 'Lambda function code' section at the bottom explains that the code is preconfigured by the blueprint. The footer is identical to the previous screenshot.

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.

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.

Prefix - *optional*
Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.

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

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

Lambda function code

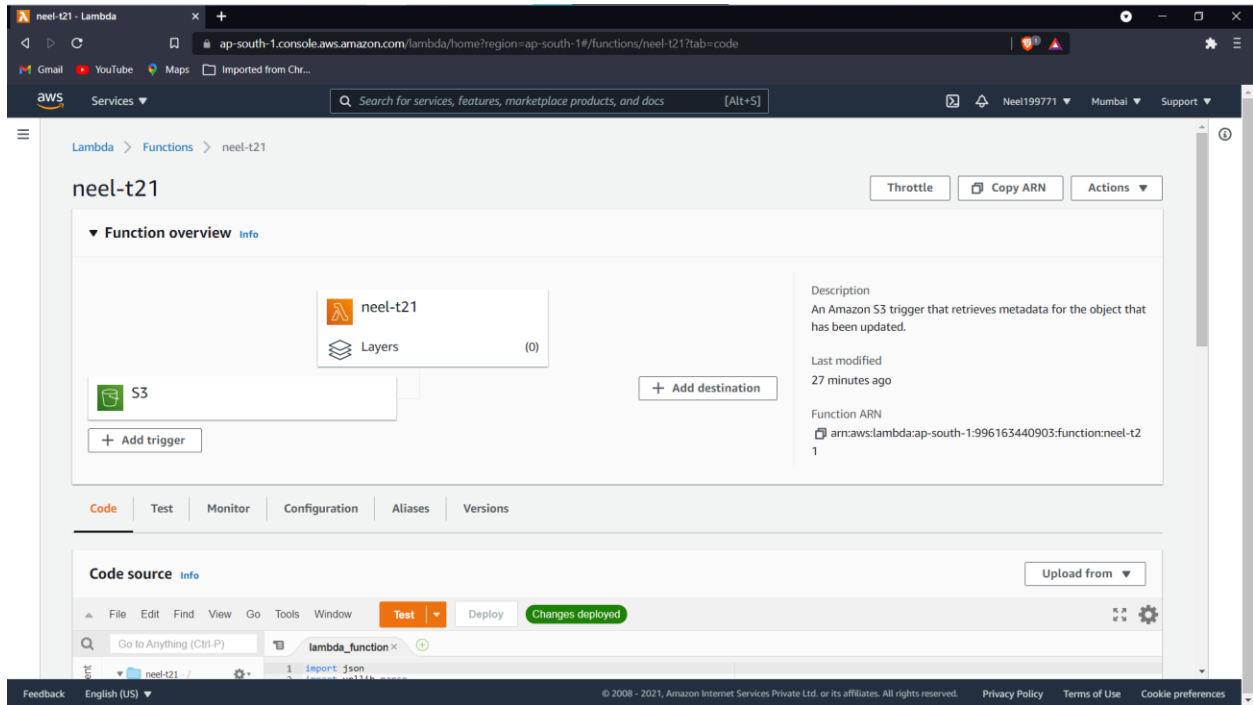
Code is preconfigured by the chosen blueprint. You can configure it after you create the function. [Learn more](#) about deploying Lambda functions.

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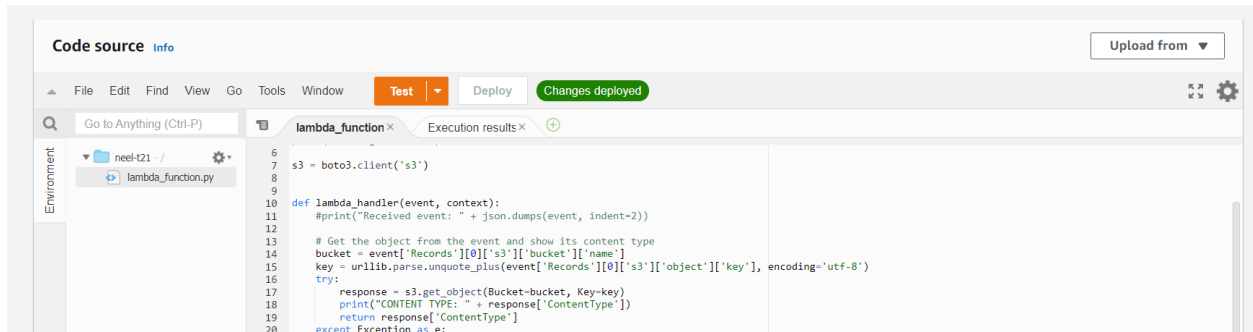
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Check the given trigger is created



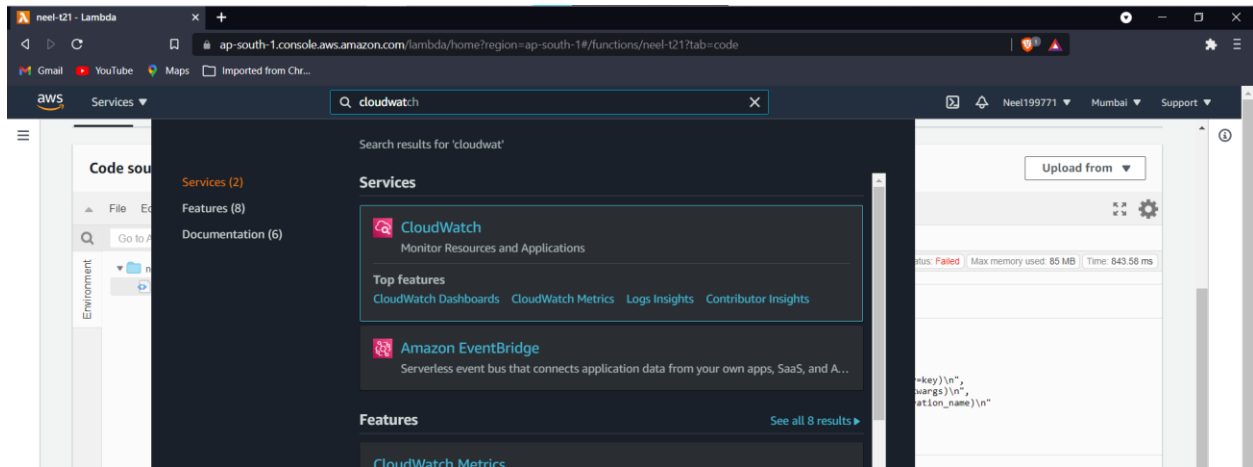
Click on the orange test button-



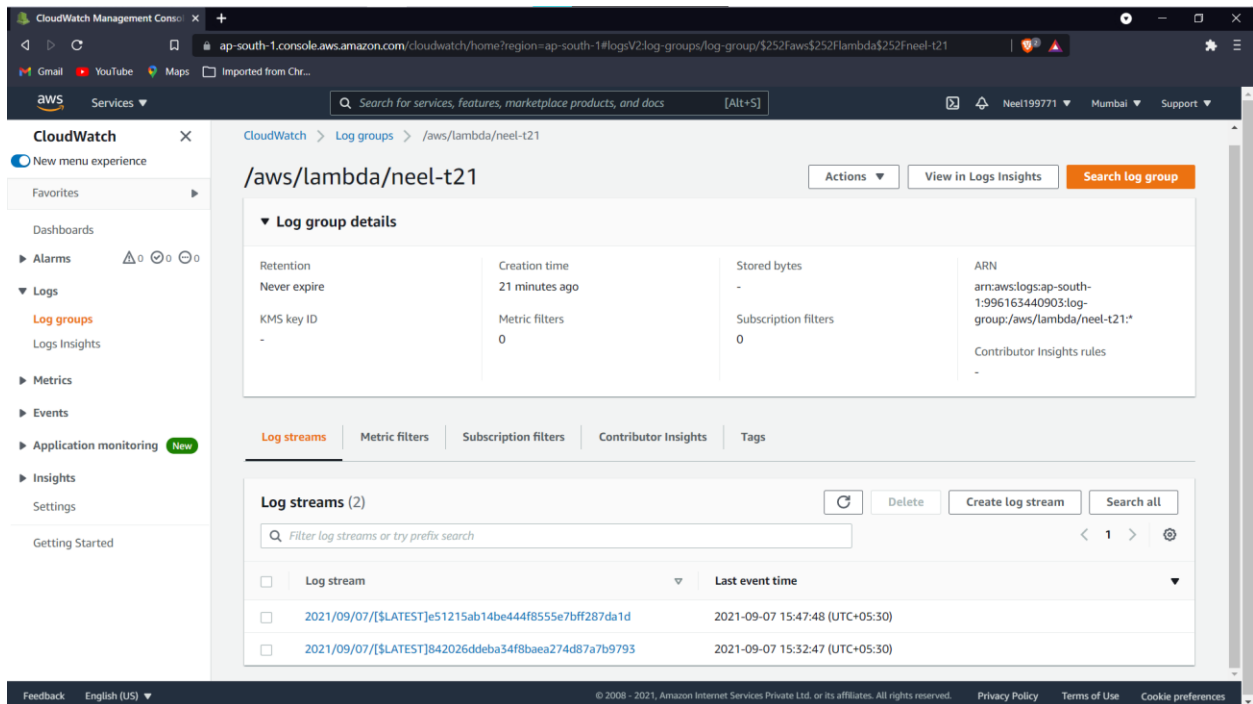
Now,

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Check the logs of the test-

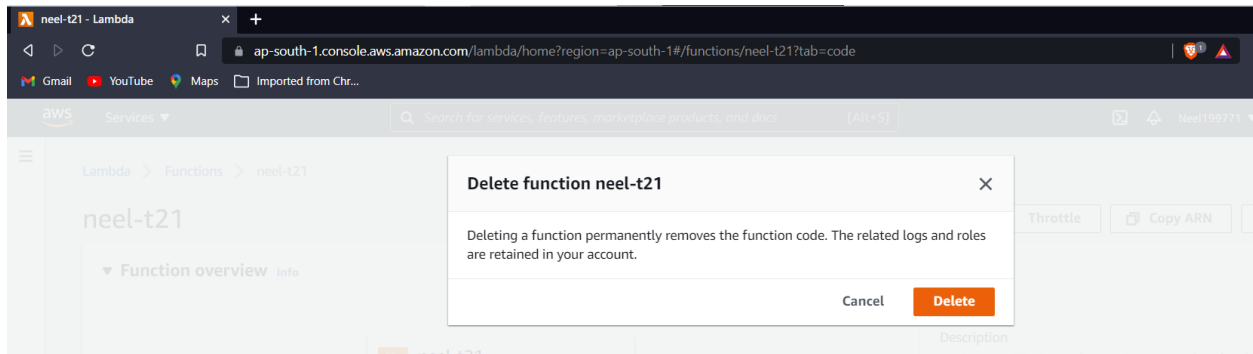
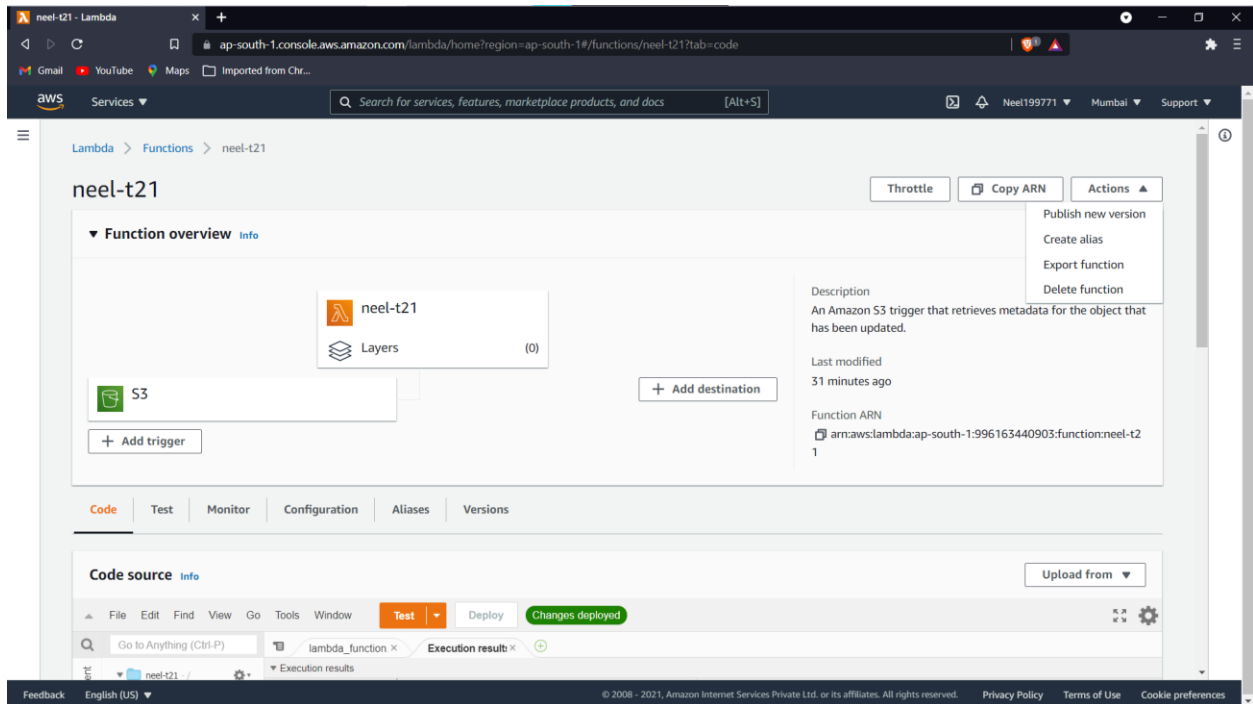


Now terminate-

Click on delete function.

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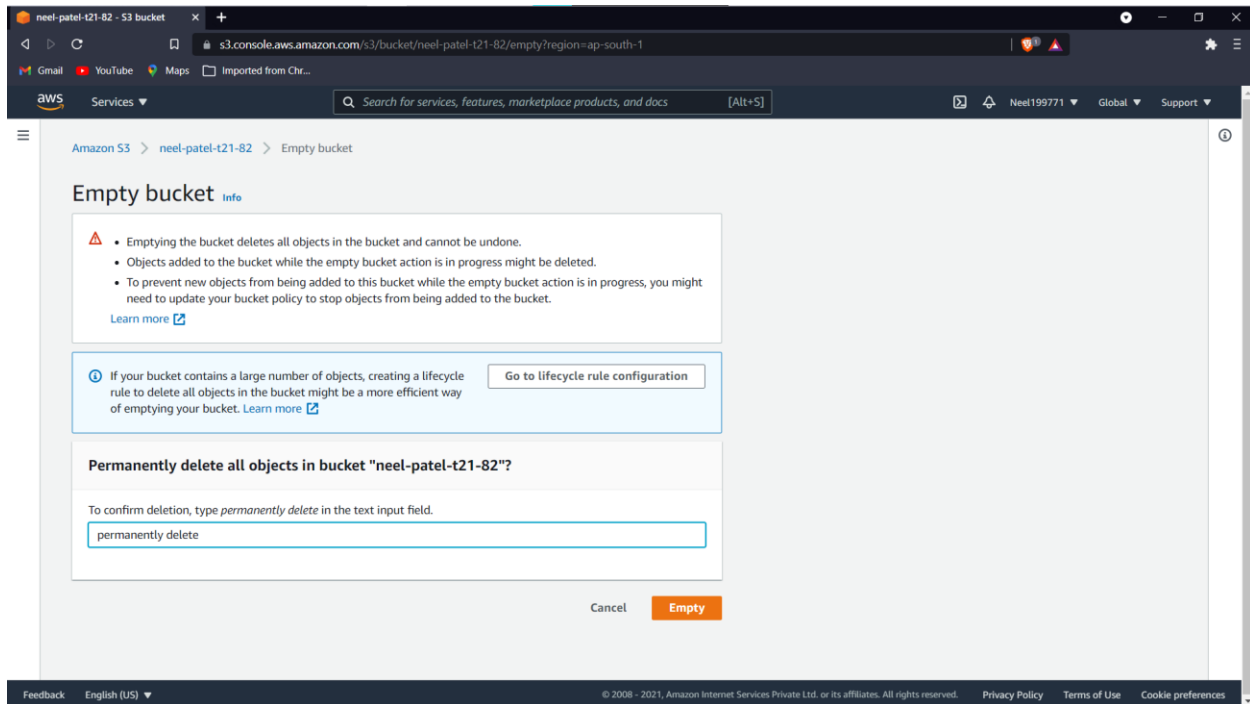
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Empty bucket

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Delete bucket-

