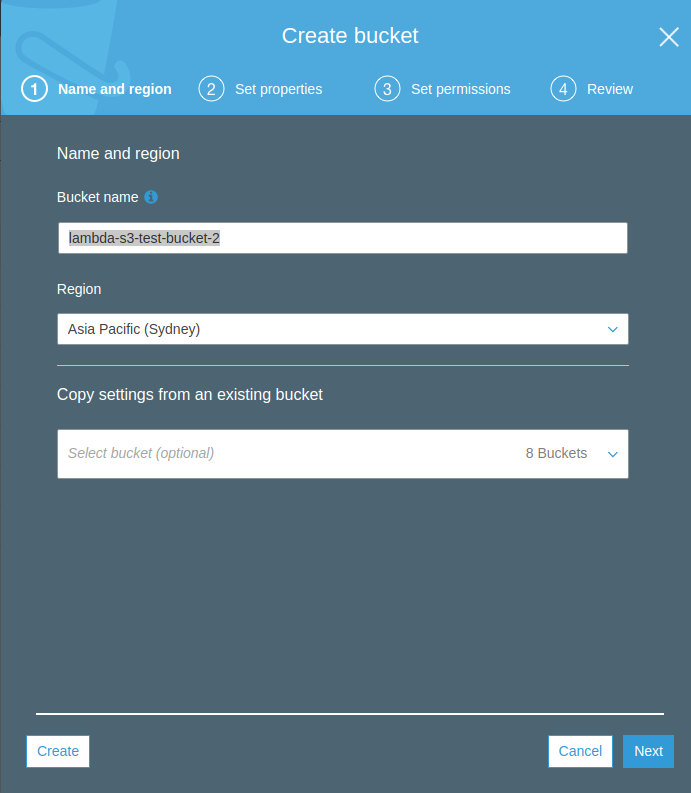
1- Select Region Sydney from top left

# Create S3 bucket

1- From services open S3

2- Click on “Create Bucket” called lambda-s3-test-bucket-2, make sure that the buket name is different since it needs to be unique in all regions. Select region to Syndey and click “Create”

3- Make sure it is not public.

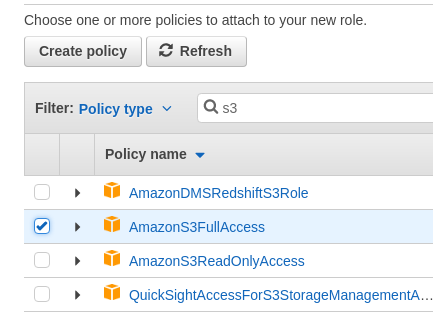
# Create Role for Lambda to access S3 bucket

1- From services select IAM

2- Click roles

3- Click create role

4- Select AmazonS3FullAccess and [CloudWatchLogsFullAccess](https://console.aws.amazon.com/iam/home?region=ap-southeast-2" \l "/policies/arn%3Aaws%3Aiam%3A%3Aaws%3Apolicy%2FCloudWatchLogsFullAccess)



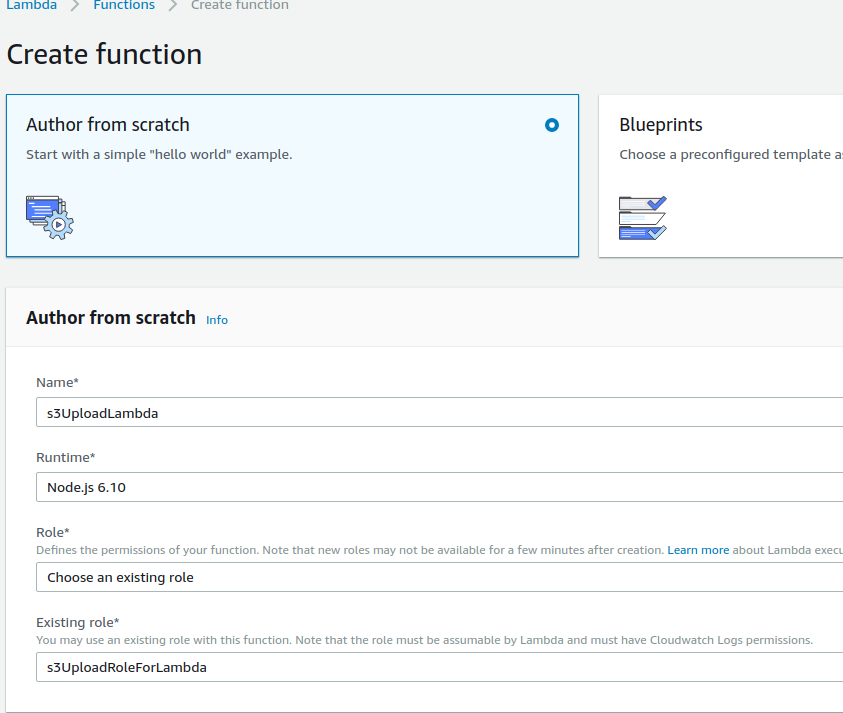
5- Click next and set the role name to “s3UploadRoleForLambda”

# Create Lambda Function

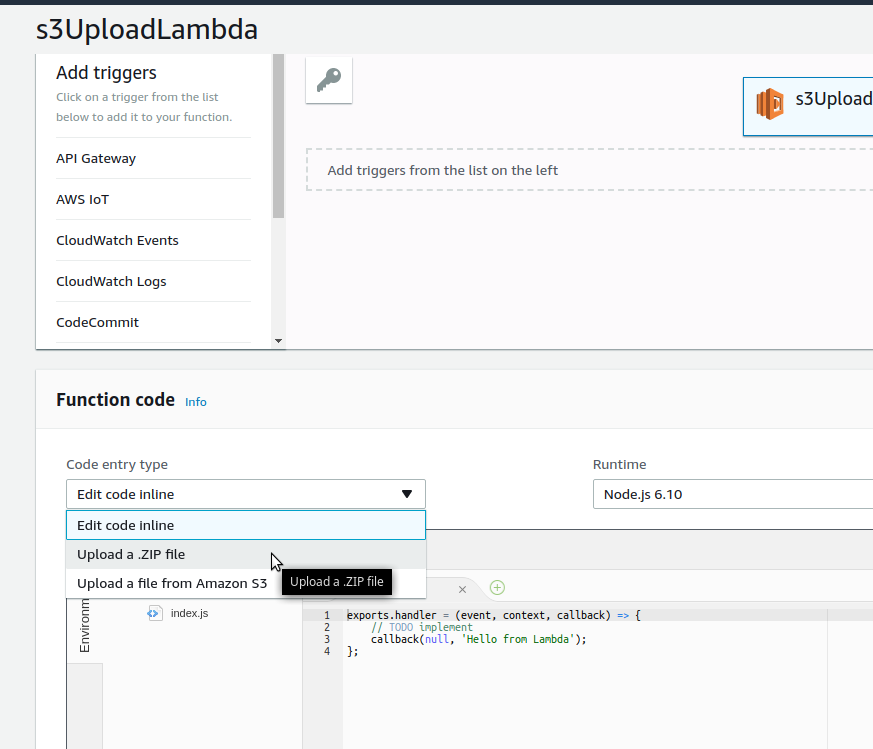
1- From services open Lambda

2- On the right hand click on “Create Function”

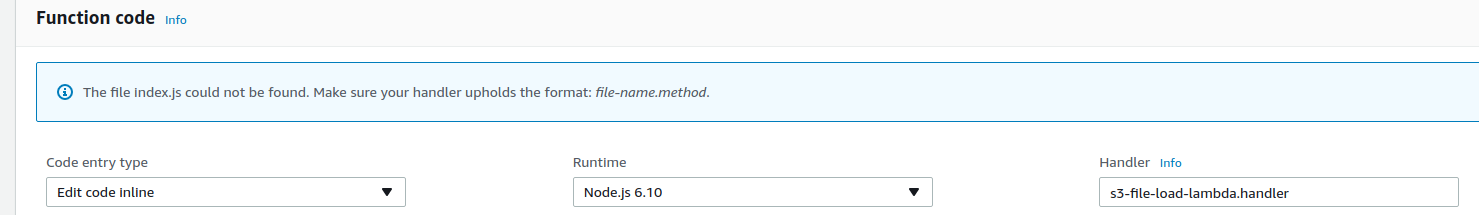
3- name it “s3UploadLambda” and choose the existing role from the list “s3UploadRoleForLambda” and click create function



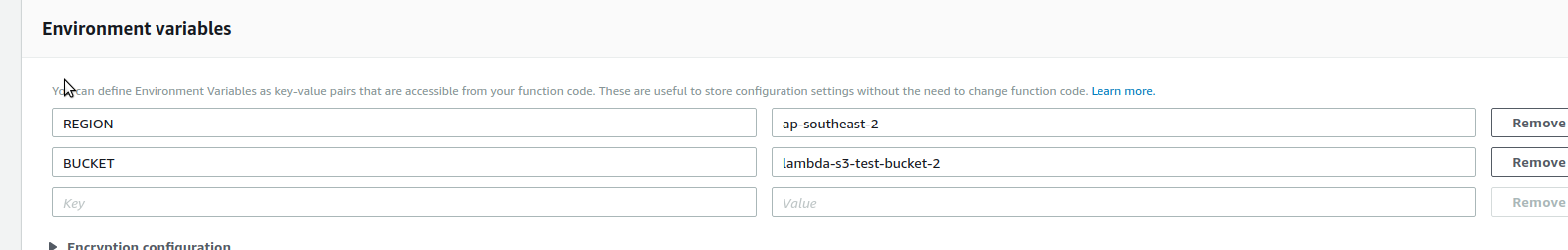
4- In the function code select upload an upload the zip file you have created.



5- In the handler write “s3-file-load-lambda.handler” and click save

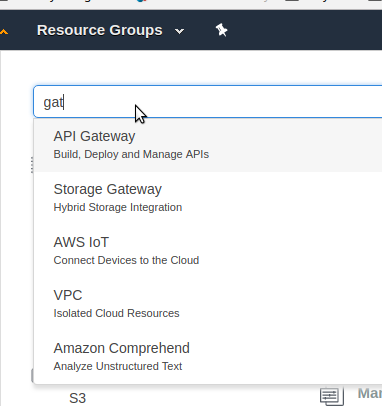


6- Set up the environment variables as REGION=ap-southeast-2 and BUCKET=lambda-s3-test-bucket-2

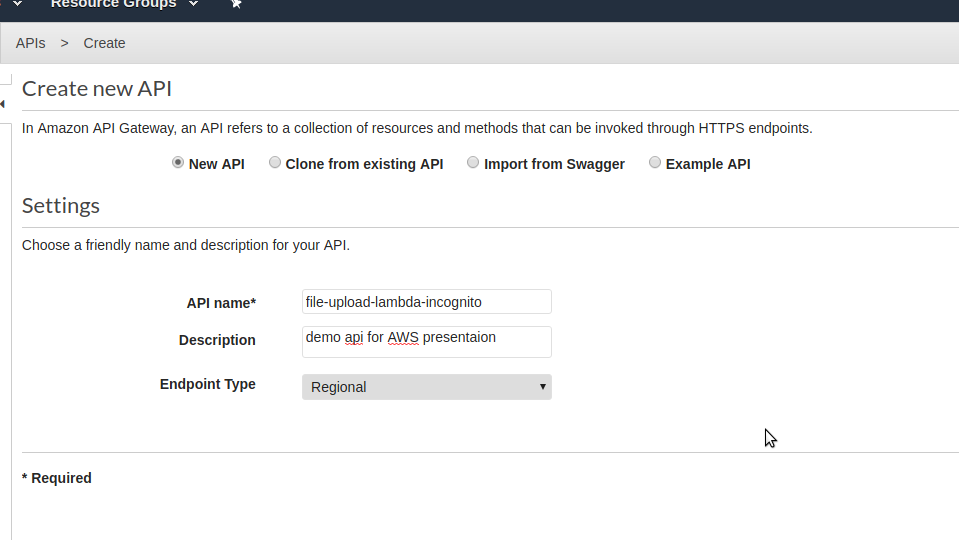
7-

# Create API gateway

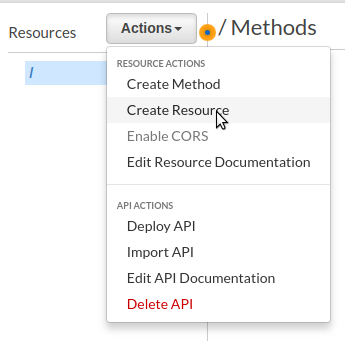
1- Select API gateway from services



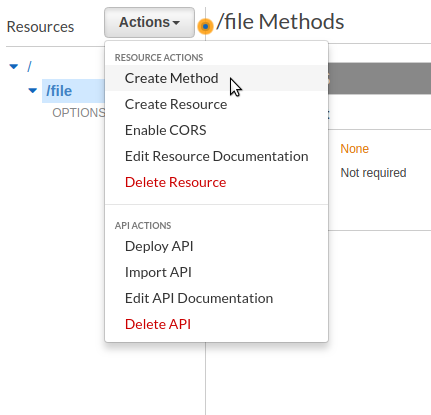
2- Click on “Create API” fill in the details and click on the “Create” button

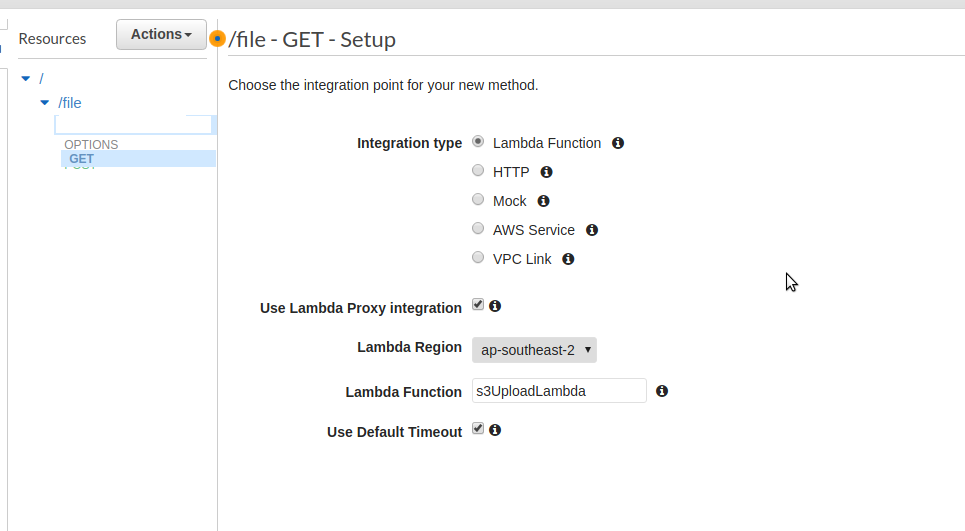


3- In the Actions drop-down select “Create Resource”

4- Create a resource called “file” and enable CORS

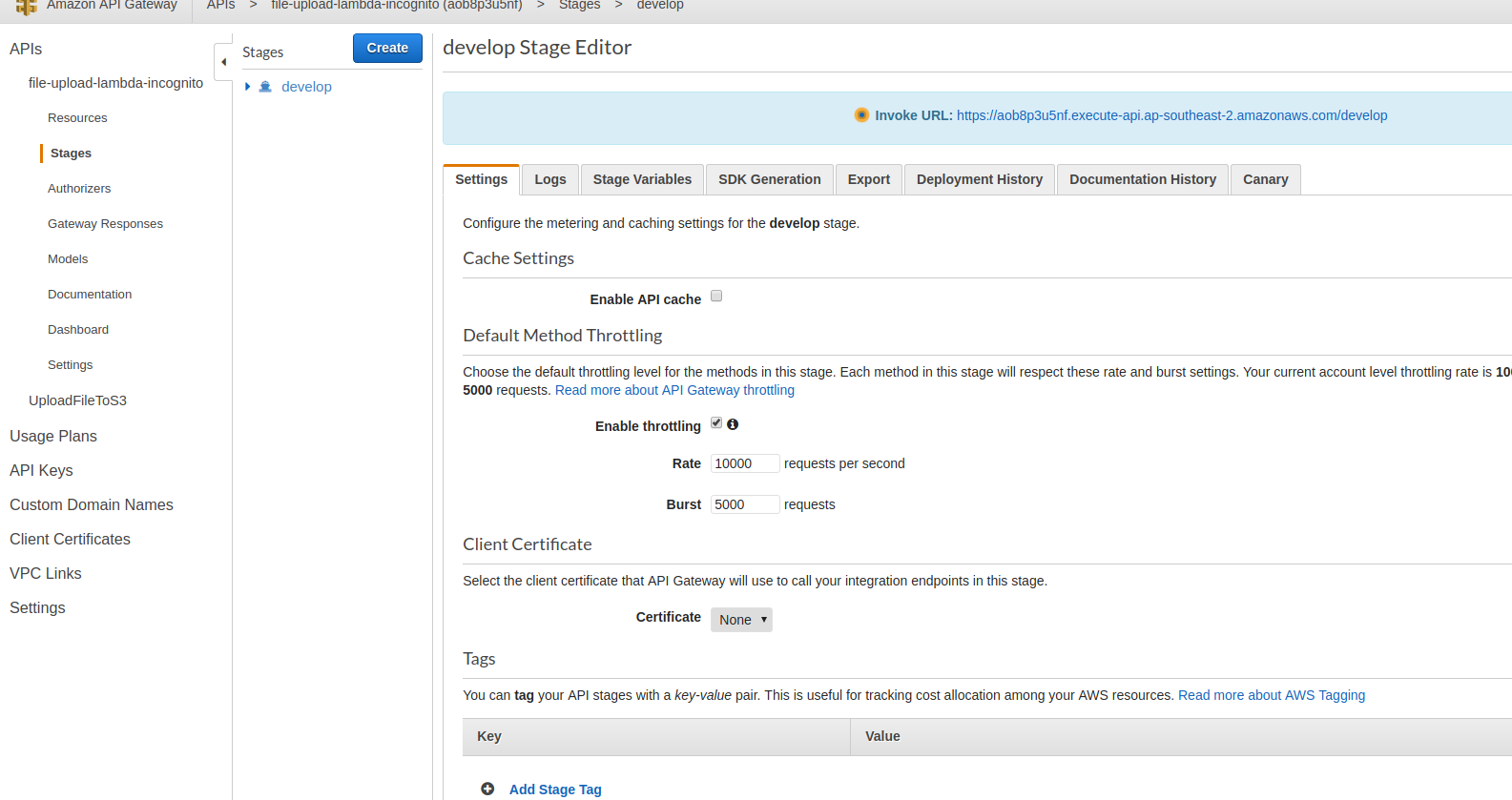
5- Select /file resource on the right and in the actions menu select create method and choose it to be POST. Since we are going to upload file using this endpoint.

6- Click on the POST request and select the lambda function that has been created. Click OK to approve the permission to invoke Lambda



7- next stage the API by clicking on resource link and from the actions select “deploy API”. You can call it anything you like in this example I call it “develop”

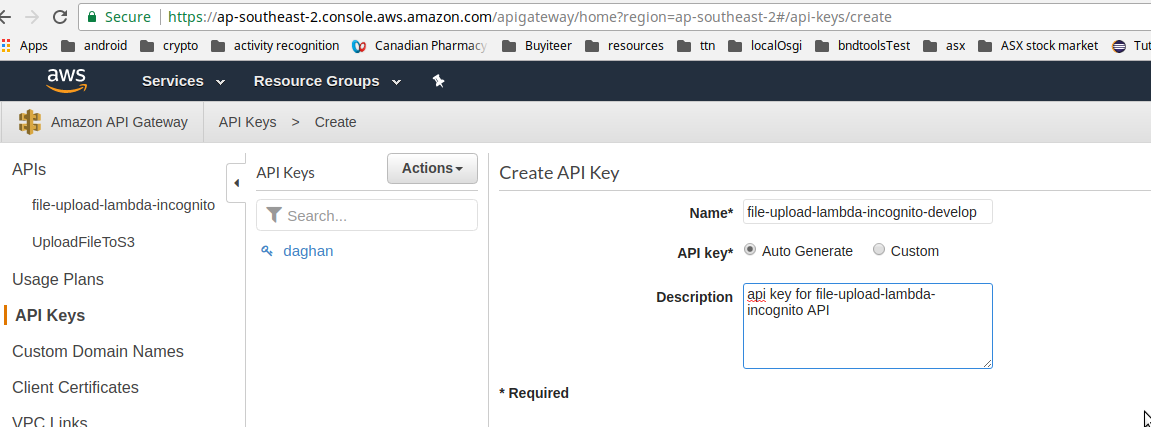
8- Now click on the “Stages” and click on develop and note the URL

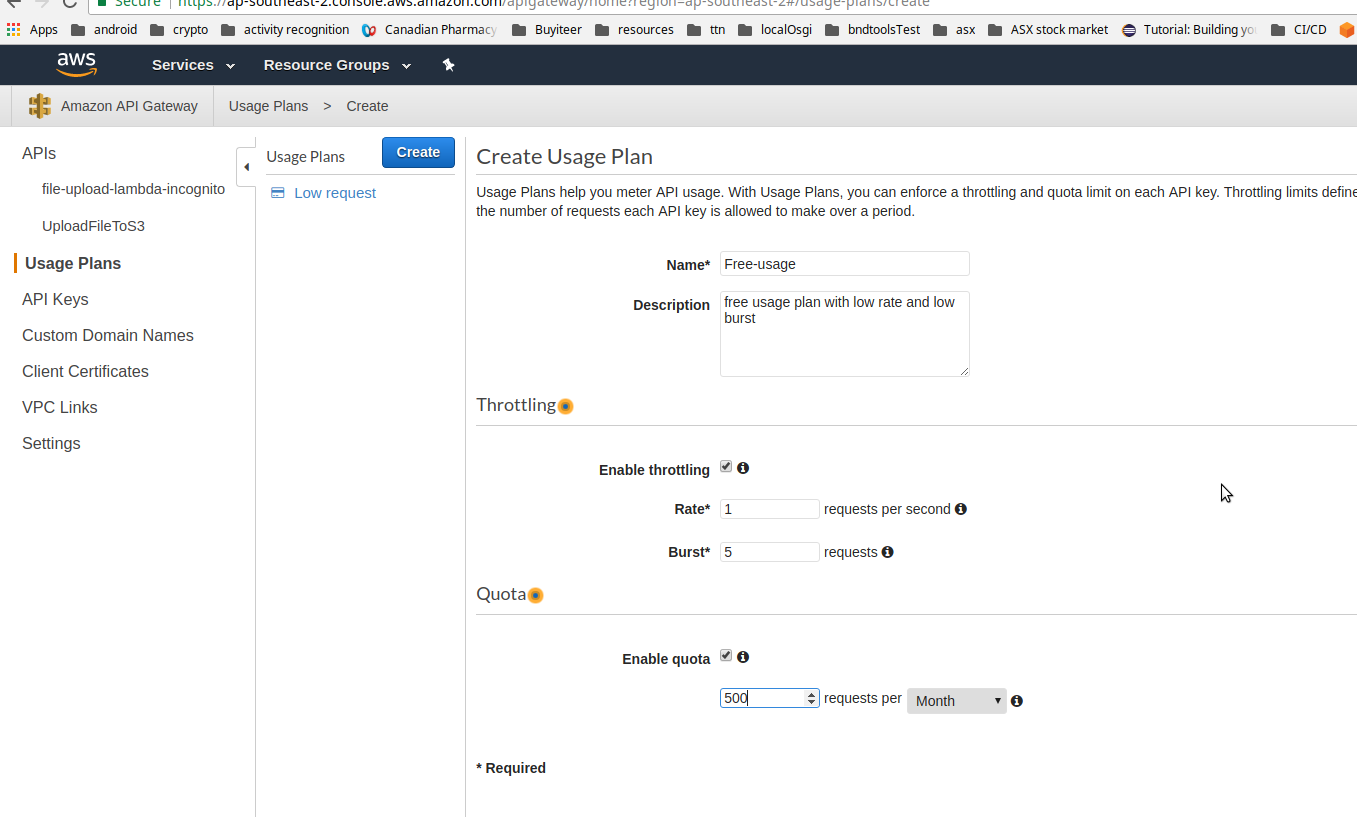


# Adding security

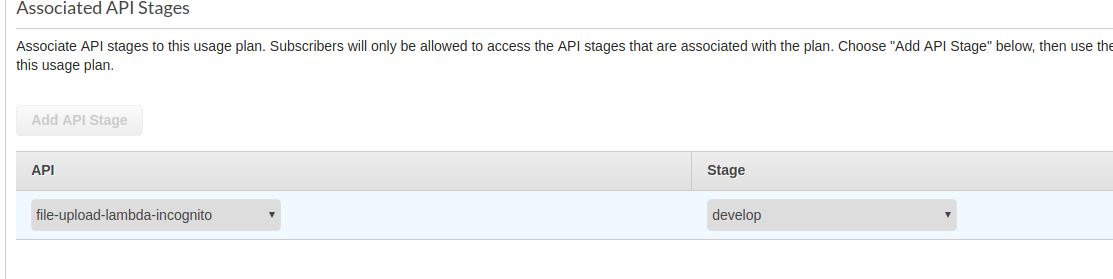
## Application key

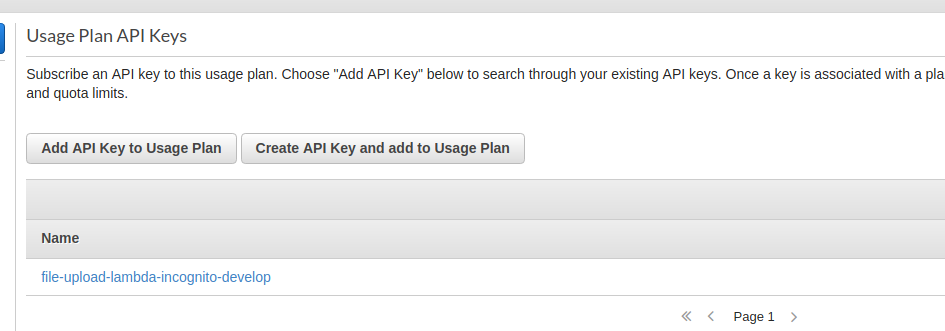
1. 1- Create an API key from the left menu by selecting API key. Call it file-upload-lambda-incognito-develop and click save.



2- Now click on Usage plans click Create. Name it Free-usage for providing the usage plan for free users.

3- Click and select the API and the corresponding stage to associate this usage plan. You can add as many API and stage to your usage plan

4- Click next and associate the API key to your usage plan. Use file-upload-lambda-incognito-develop and click done.



5- You should see the application will receive 403 when you try to load file. Please follow steps from README