# APIGateway & Lambda & S3

## 实验目的

使用APIGateway和Lambda来查询指定S3存储桶中是否存在指定文件

## 实验要求

使用APIGateway作为Lambda函数的触发器，在get请求中指定bucket和file参数，在Lambda函数中实现查询file在bucket中是否存在。  
※参考Lambda函数的Python代码，代码中bucket没有通过请求传入，所以请自行实现：

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| --- |
| import json  import boto3    BUCKET\_NAME = 'suzy'  s3 = boto3.resource('s3')  bucket = s3.Bucket(BUCKET\_NAME)  def check\_file\_exist(bucket, file\_name):  for obj in bucket.objects.filter(Prefix = file\_name):  if obj.key == file\_name:  return True  return False  def lambda\_handler(event, context):  if event['httpMethod'] == 'GET':  status\_code = 200  file\_name = event['queryStringParameters']['file']  if check\_file\_exist(bucket, file\_name):  response\_body = file\_name + ' exists in S3 bucket ' + BUCKET\_NAME + '.'  else:  response\_body = file\_name + ' does not exist in S3 bucket ' + BUCKET\_NAME + '.'  else:  status\_code = 405  response\_body = 'Method Not Allowed'    return {  'statusCode': status\_code,  'body': json.dumps(response\_body)  } |

