

1. AWS lambda packages:
solution to lambda python packages issue:
<https://medium.com/@korniichuk/lambda-with-pandas-fd81aa2ff25e>
2. AWS s3 and lambda configuration:
S3: To trigger lambda function when uploading raw file in s3, we set Events in my bucket's Properties:

The screenshot shows the 'Events' configuration window for an S3 bucket. The window has a blue header with the title 'Events' and a close button. Below the header, there are buttons for 'Add notification', 'Delete', and 'Edit'. A table lists the existing event notifications, with one entry: 'DEproject_raw_data'. Below the table, the configuration details for this event are shown. The 'Name' field is 'DEproject_raw_data'. The 'Events' section has a list of checkboxes: 'PUT' (checked), 'POST', 'COPY', 'Multipart upload completed', 'All object create events' (checked), 'Object in RRS lost', 'Permanently deleted', 'Delete marker created', 'All object delete events', 'Restore initiated', 'Restore completed', 'Replication time missed threshold', 'Replication time completed after threshold', 'Replication time not tracked', and 'Replication failed'. The 'Prefix' field is 'rawData/'. The 'Suffix' field is '.csv'. The 'Send to' dropdown is set to 'Lambda Function'. The 'Lambda' dropdown is set to 'DEproject1'.

Name	Events	Filter	Type
DEproject_raw_data			

Name ⓘ

DEproject_raw_data

Events ⓘ

☒ PUT
☐ POST
☐ COPY
☐ Multipart upload completed
☒ All object create events
☐ Object in RRS lost
☐ Permanently deleted
☐ Delete marker created

☐ All object delete events
☐ Restore initiated
☐ Restore completed
☐ Replication time missed threshold
☐ Replication time completed after threshold
☐ Replication time not tracked
☐ Replication failed

Prefix ⓘ

rawData/

Suffix ⓘ

.csv

Send to ⓘ

Lambda Function

Lambda

DEproject1

Lambda: edit function's basic info, then wrap your code and relative packages(find in 1); after that, upload that zip file in Function code -> Actions -> Upload a .zip file

The screenshot shows the AWS Lambda console for a function named 'DEproject1'. The 'Basic settings' tab is active, showing fields for 'Description - optional', 'Runtime' (set to 'Python 3.6'), 'Handler' (set to 'lambda_function.lambda_handler'), 'Memory (MB)' (set to 512 MB), and 'Timeout' (set to 15 min 0 sec). The 'Function code' tab is also visible, showing a message: 'The deployment package of your Lambda function "DEproject1" is too large to enable inline code editing. However, you can still invoke your function.' The 'Actions' dropdown menu is open, showing options: 'Upload a .zip file' and 'Upload a file from Amazon S3'.

Basic settings ⓘ

Description - optional

Runtime

Python 3.6

Handler ⓘ

lambda_function.lambda_handler

Memory (MB)

Your function is allocated CPU proportional to the memory configured.

512 MB

Timeout

15 min 0 sec

Function code ⓘ

The deployment package of your Lambda function "DEproject1" is too large to enable inline code editing. However, you can still invoke your function.

Actions

Upload a .zip file

Upload a file from Amazon S3

Lambda permission: in your lambda function -> Permissions -> Execution role attach a S3 read-only policy

