# BlobEventTrigger along with dynamic folder path and timestamp in filename

Last updated by | Jackie Huang | Jan 4, 2022 at 12:24 AM PST

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## Issue

The customer would like to copy files that arrive to a storage account container and copy them to a datalake folder. The files should be copied to the sink with the timestamp on each file for when they were copied.

In storage account there will be several subfolders (for each country) and when a file is collected from the source that is in any of these subfolders, the name of said subfolder should be in the output folder.

Example: COUNTRY can be (ES PL DE FR IT...)

- Source Storage Account
  - /mytest/year/month/day/"COUNTRY"/version/filename_with_timestamp.json
- Sink Data Lake Storage
  - /mytest/yyyy/mm/dd/"COUNTRY"/version/v1_esb_storesdayend_20200311125305799.json

In a nutshell, these are the goals that customer would like to achieve:

- Only new files are copied to the sink
- Dynamic folder path with country abbreviation
- Timestamp for each file copied

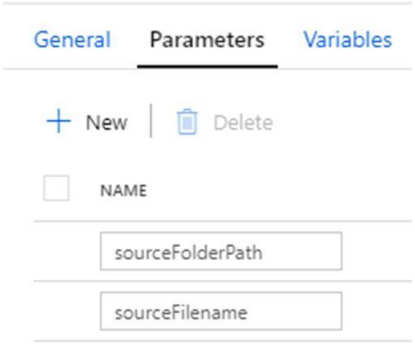
## Resolution

The country abbreviation comes from only new files captured by a blob event trigger.

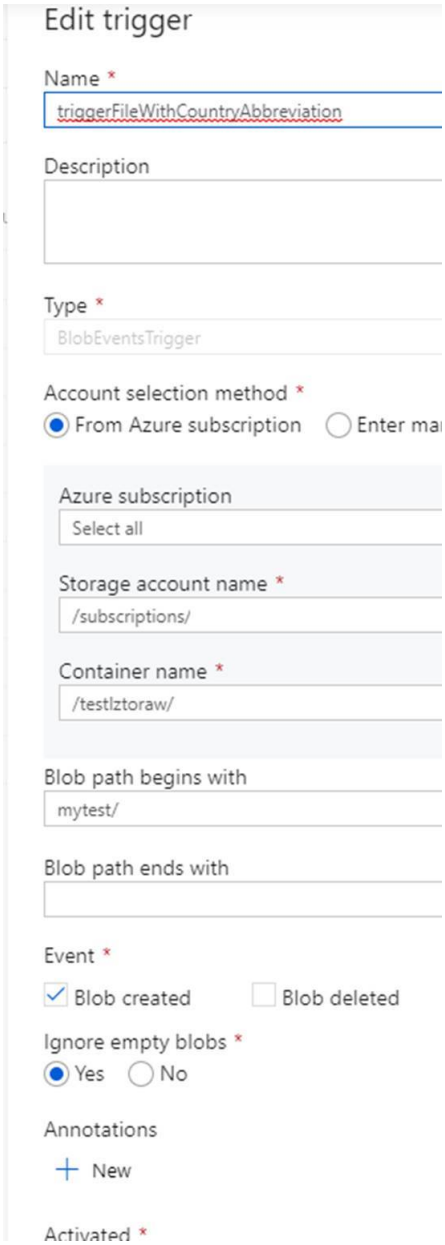
In other words, whenever a new file is uploaded to a container, it will start a pipeline that will capture the folder path and filename, will extract the country and set to a variable.

This variable is later used to define the destination folder path.

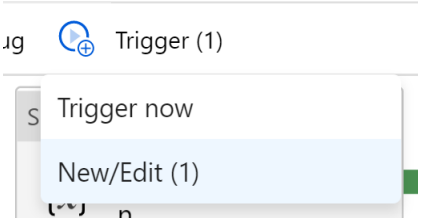
1. We need to create 2 parameters *in the pipeline*



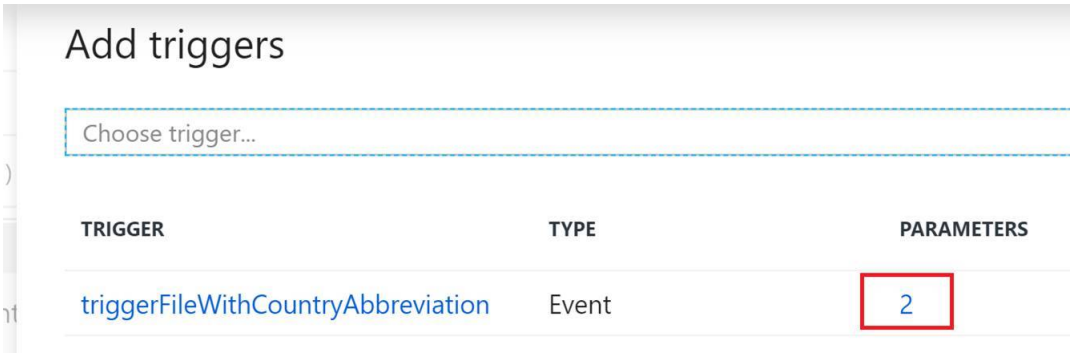

2. Then, we create a blob event trigger that will track a container in the blob storage and will start a pipeline when a file arrives



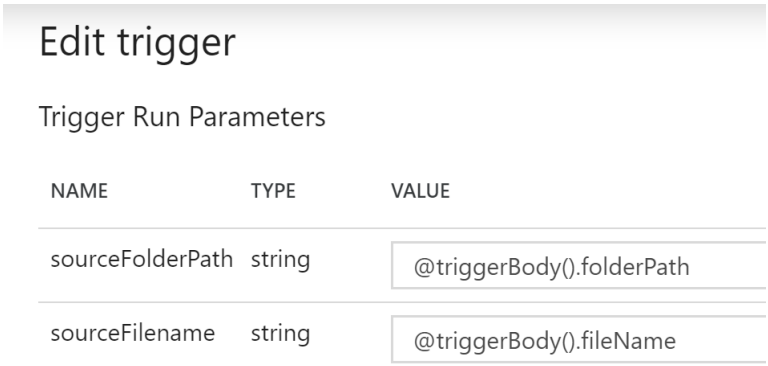

3. Associate this trigger with the pipeline




4. Click on the link to the 2 parameters we have created



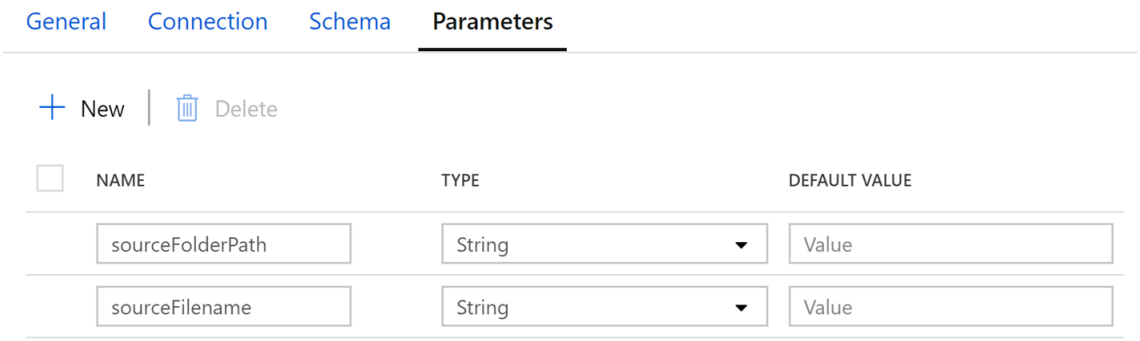

5. Populate these parameters with **@triggerBody().folderPath** and **@triggerBody().fileName**



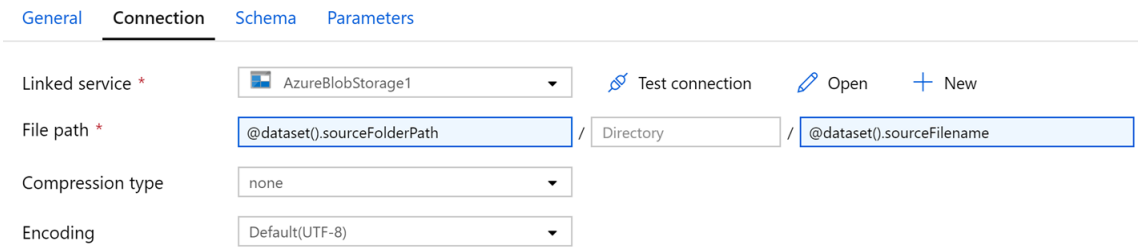

**At this point, we are specifying that the folder and filename of all incoming files will be saved to 2 parameters in the pipeline**

6. Then, now, we should use these parameters in the dataset, to dynamically choose the right folder and file in the source. So, create a dataset with the 2 same parameters


Json
**fileBlobEventTrigger**

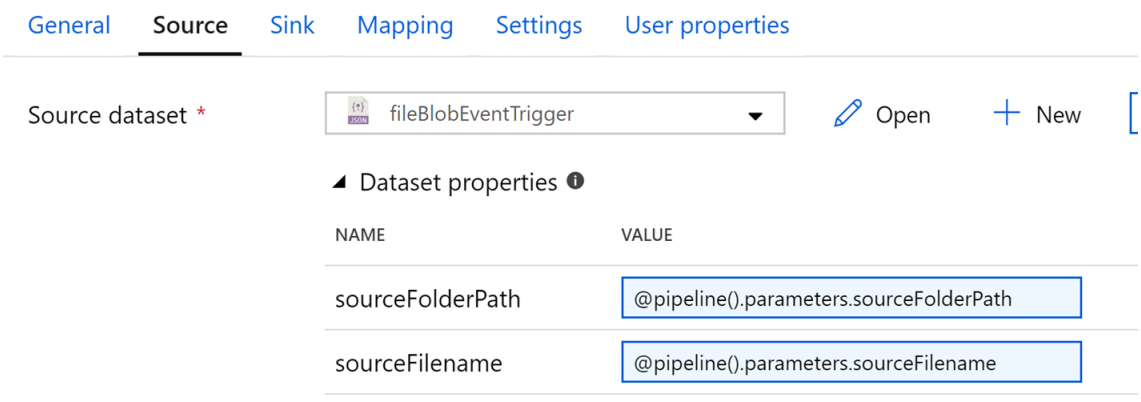



7. Then, the connection should be defined as



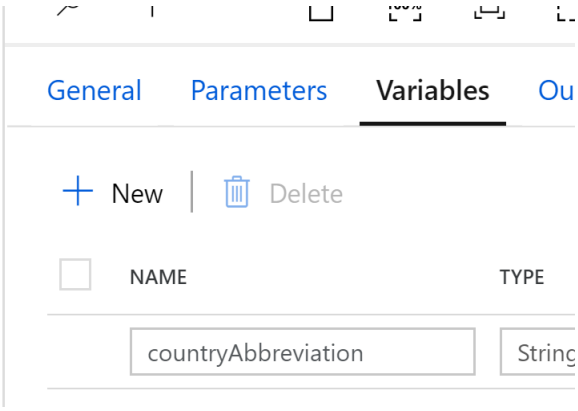

8. Go back to the pipeline and create a copy activity using this dataset as source. You will notice that you will have to populate the dataset parameters created in (6).

   Use **@pipeline().parameters.sourceFolderPath** and **@pipeline().parameters.sourceFilename**



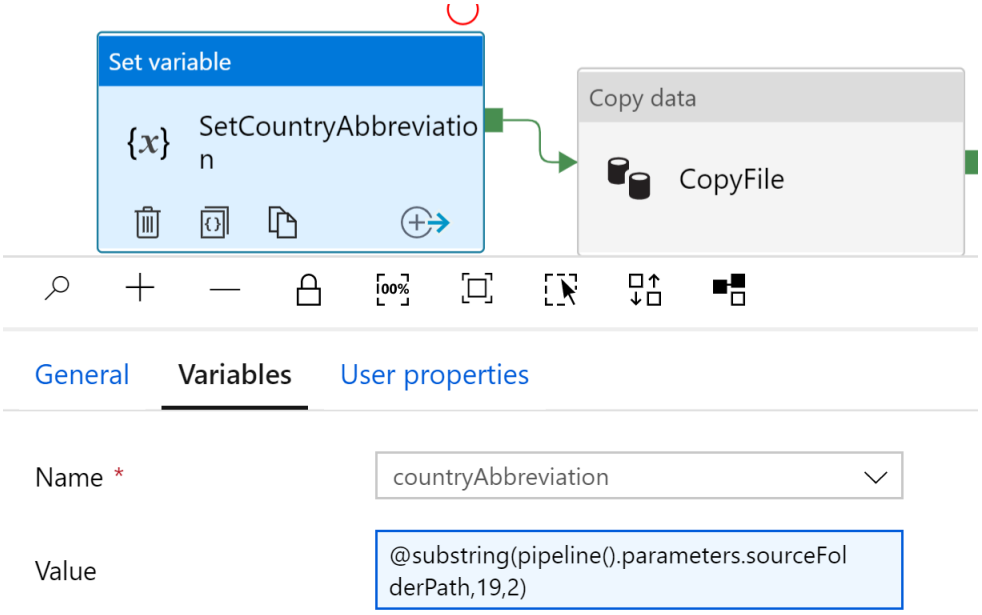

**At this point, we are dynamically copying any file that is uploaded to a tracked container in our Azure Blob Storage from the source to any sink. Now, let's work on the sink to dynamically set the country abbreviation.**

9. Go to the pipeline again and create a variable called countryAbbreviation



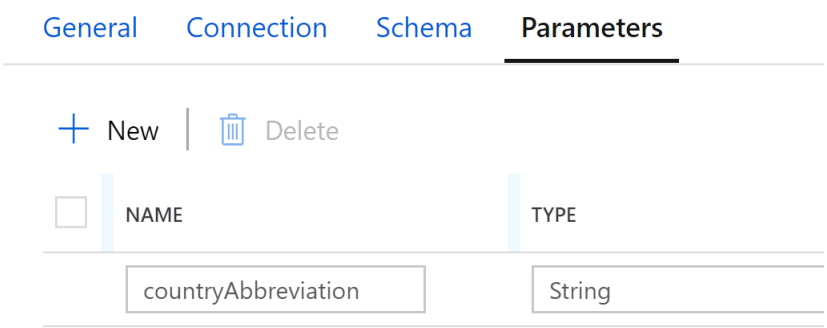

10. Right before the copy activity, add the Set variable activity:

    It will use countryAbbreviation created above and the value will be **@substring(pipeline().parameters.sourceFolderPath,<any initial length>,2)** because the folder structure you mentioned is <any folder path length/><country abbreviation with 2 characters>/version/filename.json



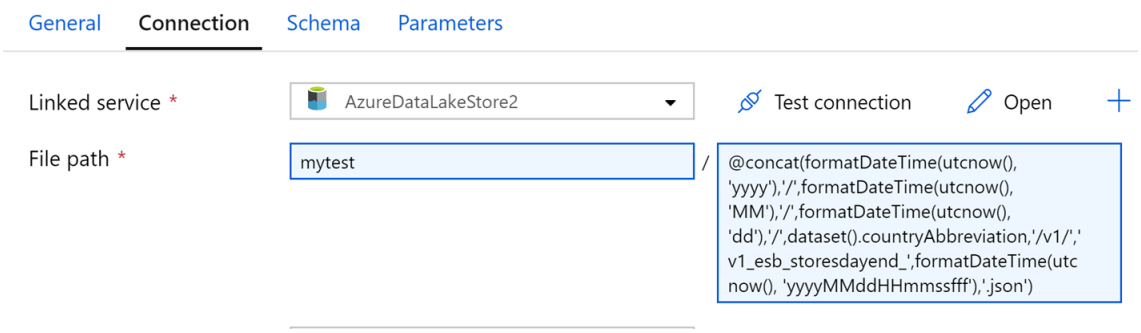

**Now, let's use this variable to set dynamically the folder in the sink**

11. Create a sink dataset in your ADLS Gen1 with a parameter countryAbbreviation

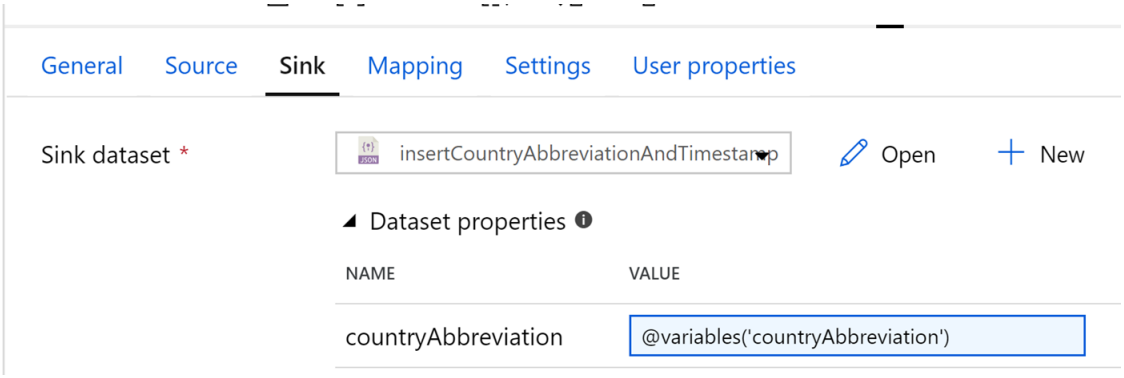



The connection should be like this, with the filename as:

@concat(formatDateTime(utcnow(), '**yyyy**'),'/',formatDateTime(utcnow(), '**MM**'),'/',formatDateTime(utcnow(), 'dd'),'/',**dataset().countryAbbreviation**,'/v1/','v1_esb_storesdayend_',**formatDateTime(utcnow()**, '**yyyyMMddHHmmssfff**'),'.json')




12. Go back to the pipeline and add this dataset to the sink. Populate the dataset property with the variable value, as




**Now we are dynamically using the year, month, day and country in the sink folder path, and timestamp in the sink filename.**

## Additional Information:

- **Icm References:**
- **Author:** ganespol
- **Reviewer:** vimals
- **Keywords:**

## How good have you found this content?