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S3-Downloader

Description

The purpose of this app is to monitor a specific folder (key) on an s3 storage for new files. If new files are present, they are downloaded and injected into Switch as a new job.

Afterwards, the files on the S3 storage will either be deleted or moved.

Compatibility

Switch Fall 2022 and higher.

Getting Started

Use our sample flows.

- (Enter your mail address in the `Attach email addresses` field of the 'Error' folder)
- Enter your S3 credentials
- Select the directory you would like to scan for files
- Either select 'Delete' or 'Move' as `Action after download`
  - If 'Move' enter a path to the destination folder

Output Connections

Data success

If the file is successfully downloaded and deleted / moved to a different location, it will be send to the data out connection of the flow element.

Data error

Download error:

If the file could not be downloaded a dummy job with the name of the file will be send to the outgoing connection.

Delete / Move error:

If the file was downloaded successfully but it could not be deleted or moved to a different location, the file itself will be send to data out.

Flow Element

General Properties

Property	Value	Description
Credentials mode	Enum [Define | Select | Delete]	Define: Allows to define s3 credentials, which will be stored as global data on flow start. Select: Allows to select one of the previous defined credentials. Delete: Allows to delete one or more credentials
Folder	String	Defines the directory (key) that should be checked for new files every X seconds
Check every (seconds)	Number	Defines how often the defined folder should be checked for new files. Default=60
Minimum file size (KB)	Number	Process only files that have more than X kilobyte. Default=0
Process these files	String	Only process files that match the defined regular expression.
Ignore these files	String	Only process files that do not match the defined regular expression.

Property	Value	Description
Action after download	Enum [Delete | Move]	Defines if the processed files should be deleted or moved to a different location.

Mode Dependending Properties

Credentials mode: 'Define'

Property	Value	Description
Name	String	Defines the name of the credentials that will be stored
Server URL	String	Defines the server URL of the storage
Access key id	String	S3 access key id
Secret access key	String	S3 Secret access key
Region	String	S3 region
Bucket	String	S3 bucket name

Credentials mode: 'Select'

Property	Value	Description
Name	String	Defines the name of the credentials to be used by the app

Credentials mode: 'Delete'

Property	Value	Description
Names	String[]	Defines the names of the credentials to be deleted on flow start

Action after download: 'Move'

Property	Value	Description
Move files to	String	Move processed files to this location.

Error handling

This app uses two types of errors:

- job data: if an handled error occures (e.g. download / delete / move error), the error message is logged in the switch messages.
- failProcess: if any other error occurs, the flow Element will fail and stop processing. An email will be send to the problem alerts mail address (defined in Switch preferences)

Private data

The following private data tags will be set if an error occurs:

Tag	Value | Type	Description
lastErrorElement	String	the name of the flow element
lastErrorId	jsonCreateError	
lastErrorCode	Number	an error code that defines the type of error that occured
lastErrorMessage	String	detailed error message

Error Codes:

```
export enum ERROR_CODES {
  downloadError = 6,
  deleteError = 7,
  moveError = 8
}
```