Developing a Destination Connector

A Destination is responsible for writing Record to third party systems.

You need to implement the functions required by Destination and provide your own implementations. Information about individual functions are listed below.

destination.go

This file provides the main functionality of your Destination Connector.

- Destination
- Struct: Every Destination implementation needs to include an Unimplemented Destination
- to satisfy the interface. This allows us to potentially change the interface in the future while remaining backward compatible with existing Destination implementations. This struct can be modified to add additional fields that can be accessed throughout the lifecycle of the Connector.
- type
- Destination
- struct
- {
- sdk
- UnimplementedDestination
- config DestinationConfig
- }
- NewDestination()
- : A constructor function for your Destination struct. Note that this is the same function that should be set as the value ofConnector.NewDestination
- . The constructor should be used to wrap your Destination in the default middleware. You can add additional middleware, but unless you have a very good reason, you should always include the default middleware.
- func
- NewDestination
-) sdk
- Destination
- // Create Destination and wrap it in the default middleware.
- return
- sdk
- DestinationWithMiddleware
- &
- Destination

- sdk
- DefaultDestinationMiddleware
-)

- Parameters()
- : A map of named Parameters that describe how to configure the connector. This map is typically generated usingparamgen
- func
- d

```
Destination

    Parameters

  )
• map
• string
• ]
• sdk

    Parameter

    return

    d

· config

    Parameters

  Configure()
  : Validates and stores configuration data for the connector. Any complex validation logic should be implemented here.
• func
  (
  d
  Destination
  Configure
  ctx context
  Context
• cfg
• map
string
• ]
• string
• )
error
• {
err
• sdk
Util
 ParseConfig
  cfg
  &
  d
  config
  if
  err
  nil
return
fmt
```

```
Errorf
  "invalid config: %w"
err
• // custom validations here
• nil
• Open()
• : Prepares the connector to start producing records based on the last known successful position. If needed, the
  connector should open connections in this function.
• func
  (
  d

    Destination

    Open

  ctx context
  Context
  )
  error
  // Retrieve the directory path from the config
  directoryPath
  d
  config
  Directory
  // Check if the directory exists
  if
err

    OS

Stat
  directoryPath
  os
 IsNotExist
  err
  // Create the directory if it doesn't exist
  err
  :=
 os
  MkdirAll
  directoryPath
  0755

    if
```

```
nil
return
fmt
Errorf
"failed to create directory '%s': %w"
directoryPath
err
else
nil
// Return any error other than the directory not existing
return
fmt
Errorf
"error checking directory '%s': %w"
directoryPath
err
// The directory exists (or was just created), so we can proceed
nil
Write()
: Writes len(records) from a slice ofsdk.Record
objects received from the Conduit pipeline to the destination right away without caching. It should return the number of
records written from the slice and any error encountered that caused the write to stop early.
func
d
Destination
Write
ctx context
Context
recs
sdk
Record
int
error
)
```

```
{outputDir
config

    Directory

for
• :=
range
• recs

    fileName

,ok
.Key
• sdk

    RawData

  íf
  ok
• len

    fileName

• )
• 0

    return

• fmt

    Errorf

  ( $\operatorname{"record} key is invalid or not provided, record index: %v"

    filePath

 filepath
• Join
  outputDir
 ,
string
  fileName
  if
  err
• :=
```

```
d
• writeToFile

    filePath

    Payload

After

    Bytes

  nil
 return
  fmt

    Errorf

  (
"failed to write record to file '%s', record index: %v, error: %w"
 ,
filePath
  sdk

    Logger

  ctx
Info
 Msgf
  "Wrote file %s to directory %s\n"
  string
  fileName
  outputDir
  return
  len
  recs
• nil
```

• }

	Ack()
	: Ack signals to the implementation that the record with the supplied position was successfully processed.
	func
•	` <u>`</u>
•	Q *
•	Destination
•	
	Ack
•	(
•	ctx context
•	Context
	position sdk
	position suk
•	Position
•	\cdot
•	error
•	
•	sdk
•	Logger
•	
	ctx
•	
•	
•	Debug
•	
•	
•	Msg
•	
	"Record successfully processed"
•	
	return
	nil า
•	Teardown()
•	: Teardown signals to the connector that there will be no more calls to any other function. Any connections that were
	created in the Open()
	function should be closed here.
	func
•	
•	u *
•	Destination
•	
•	Teardown
•	
	ctx context
•	Context
•	
	error
•	{
•	return
	nil
•	} Edit this page Previous Developing a Source Connector Next Using a Custom Connector