

# custom.javascript

Run custom JavaScript code.

## Description

A processor that makes it possible to process Conduit records using JavaScript.

The following helper functions and variables are available:

- `logger`
- `:` a logger that outputs to Conduit's logs. Check out [ZeroLog's API](#) on how to use it.
- `Record()`
- `:` constructs a new record which represents a successful processing result.
- It's analogous to `sdk.SingleRecord` from Conduit's Go processor SDK.
- `RawData()`
- `:` creates a raw data object. It's analogous to `opencdc.RawData`
- . Optionally, it
- accepts a string argument, which will be cast into a byte array, for example: `record.Key = RawData("new key")`
- .
- `StructuredData()`
- `:` creates a structured data (map-like) object.

To find out what's possible with the JS processor, also refer to the documentation for [goja](#), which is the JavaScript engine we use.

## Configuration parameters

- YAML
- Table

version :

2.2 pipelines : -

id : example status : running connectors :

## define source and destination ...

processors : -

id : example plugin :

"custom.javascript" settings :

## JavaScript code for this processor. It needs to have a function

**`process()` that accept a record and returns a record. The `process()` function can either modify the input record and return it, or create a new record. If a record needs to be filtered (dropped from the pipeline), then the `process()` function**

**should**

**return null.**

**Type: string**

script :

""

**The path to a .js file containing the processor code.**

**Type: string**

script.path :

"" Name Type Default Description script string .css-145lt8w{max-width:100%;font-family:"Roboto","Helvetica","Arial",sans-serif;font-size:0.8125rem;display:-webkit-inline-box;display:-webkit-inline-flex;display:-ms-inline-flexbox;display:inline-flex;-webkit-align-items:center;-webkit-box-align:center;-ms-flex-align:center;align-items:center;-webkit-box-pack:center;-ms-flex-pack:center;-webkit-justify-content:center;justify-content:center;height:32px;color:rgba(0, 0, 0, 0.87);background-color:rgba(0, 0, 0, 0.08);border-radius:16px;white-space:nowrap;-webkit-transition:background-color 300ms cubic-bezier(0.4, 0, 0.2, 1) 0ms,box-shadow 300ms cubic-bezier(0.4, 0, 0.2, 1) 0ms;transition:background-color 300ms cubic-bezier(0.4, 0, 0.2, 1) 0ms,box-shadow 300ms cubic-bezier(0.4, 0, 0.2, 1) 0ms;cursor:unset;outline:0;-webkit-text-decoration:none;text-decoration:none;border:0;padding:0;vertical-align:middle;box-sizing:border-box;}.css-145lt8w.Mui-disabled{opacity:0.38;pointer-events:none;}.css-145lt8w .MuiChip-avatar{margin-left:5px;margin-right:-6px;width:24px;height:24px;color:#616161;font-size:0.75rem;}.css-145lt8w .MuiChip-avatarColorPrimary{color:#fff;background-color:#1565c0;}.css-145lt8w .MuiChip-avatarColorSecondary{color:#fff;background-color:#7b1fa2;}.css-145lt8w .MuiChip-avatarSmall{margin-left:4px;margin-right:-4px;width:18px;height:18px;font-size:0.625rem;}.css-145lt8w .MuiChip-icon{margin-left:5px;margin-right:-6px;color:#616161;}.css-145lt8w .MuiChip-deletelcon{-webkit-tap-highlight-color:transparent;color:rgba(0, 0, 0, 0.26);font-size:22px;cursor:pointer;margin:0 5px 0 -6px;}.css-145lt8w .MuiChip-deletelcon: hover{color:rgba(0, 0, 0, 0.4);}.css-9iedg7{overflow:hidden;text-overflow:ellipsis;padding-left:12px;padding-right:12px;white-space:nowrap;} null JavaScript code for this processor. It needs to have a functionprocess() that accept a record and returns a record. Theprocess() function can either modify the input record and return it, or create a new record. If a record needs to be filtered (dropped from the pipeline), then theprocess() function should returnnull . script.path string .css-145lt8w{max-width:100%;font-family:"Roboto","Helvetica","Arial",sans-serif;font-size:0.8125rem;display:-webkit-inline-box;display:-webkit-inline-flex;display:-ms-inline-flexbox;display:inline-flex;-webkit-align-items:center;-webkit-box-align:center;-ms-flex-align:center;align-items:center;-webkit-box-pack:center;-ms-flex-pack:center;-webkit-justify-content:center;justify-content:center;height:32px;color:rgba(0, 0, 0, 0.87);background-color:rgba(0, 0, 0, 0.08);border-radius:16px;white-space:nowrap;-webkit-transition:background-color 300ms cubic-bezier(0.4, 0, 0.2, 1) 0ms,box-shadow 300ms cubic-bezier(0.4, 0, 0.2, 1) 0ms;transition:background-color 300ms cubic-bezier(0.4, 0, 0.2, 1) 0ms,box-shadow 300ms cubic-bezier(0.4, 0, 0.2, 1) 0ms;cursor:unset;outline:0;-webkit-text-decoration:none;text-decoration:none;border:0;padding:0;vertical-align:middle;box-sizing:border-box;}.css-145lt8w.Mui-disabled{opacity:0.38;pointer-events:none;}.css-145lt8w .MuiChip-avatar{margin-left:5px;margin-right:-6px;width:24px;height:24px;color:#616161;font-size:0.75rem;}.css-145lt8w .MuiChip-avatarColorPrimary{color:#fff;background-color:#1565c0;}.css-145lt8w .MuiChip-avatarColorSecondary{color:#fff;background-color:#7b1fa2;}.css-145lt8w .MuiChip-avatarSmall{margin-left:4px;margin-right:-4px;width:18px;height:18px;font-size:0.625rem;}.css-145lt8w .MuiChip-icon{margin-left:5px;margin-right:-6px;color:#616161;}.css-145lt8w .MuiChip-deletelcon{-webkit-tap-highlight-color:transparent;color:rgba(0, 0, 0, 0.26);font-size:22px;cursor:pointer;margin:0 5px 0 -6px;}.css-145lt8w .MuiChip-deletelcon: hover{color:rgba(0, 0, 0, 0.4);}.css-9iedg7{overflow:hidden;text-overflow:ellipsis;padding-left:12px;padding-right:12px;white-space:nowrap;} null The path to a .js file containing the processor code.

## Examples

### Modify a record's metadata and payload using JavaScript

In this example we use thecustom.javascript processor to add a metadata key to the input record. It also prepends "hello, " to.Payload.After .

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processors : -

id : example plugin :

"custom.javascript" settings : script :

```
| function process(rec) { rec.Metadata["processed"] = "true"; let existing = String.fromCharCode.apply(String,
rec.Payload.After); rec.Payload.After = RawData("hello, " + existing); return rec; }
```

script.path :

""" Name Value script function

process ( rec )

{ rec . Metadata [ "processed" ]

=

"true" ; let existing =

String . fromCharCode . apply ( String , rec . Payload . After ) ; rec . Payload . After

=

RawData ( "hello, "

+ existing ) ; return rec ; } script.path .css-145lt8w{max-width:100%;font-family:"Roboto","Helvetica","Arial",sans-serif;font-size:0.8125rem;display:-webkit-inline-box;display:-webkit-inline-flex;display:-ms-inline-flexbox;display:inline-flex;-webkit-align-items:center;-webkit-box-align:center;-ms-flex-align:center;align-items:center;-webkit-box-pack:center;-ms-flex-pack:center;-webkit-justify-content:center;justify-content:center;height:32px;color:rgba(0, 0, 0, 0.87);background-color:rgba(0, 0, 0, 0.08);border-radius:16px;white-space:nowrap;-webkit-transition:background-color 300ms cubic-bezier(0.4, 0, 0.2, 1) 0ms,box-shadow 300ms cubic-bezier(0.4, 0, 0.2, 1) 0ms;transition:background-color 300ms cubic-bezier(0.4, 0, 0.2, 1) 0ms,box-shadow 300ms cubic-bezier(0.4, 0, 0.2, 1) 0ms;cursor:unset;outline:0;-webkit-text-decoration:none;text-decoration:none;border:0;padding:0;vertical-align:middle;box-sizing:border-box;}.css-145lt8w.Mui-disabled{opacity:0.38:pointer-events:none;}.css-145lt8w .MuiChip-avatar{margin-left:5px;margin-right:-6px;width:24px;height:24px;color:#616161;font-size:0.75rem;}.css-145lt8w .MuiChip-avatarColorPrimary{color:#fff;background-color:#1565c0;}.css-145lt8w .MuiChip-avatarColorSecondary{color:#fff;background-color:#7b1fa2;}.css-145lt8w .MuiChip-avatarSmall{margin-left:4px;margin-right:-4px;width:18px;height:18px;font-size:0.625rem;}.css-145lt8w .MuiChip-icon{margin-left:5px;margin-right:-6px;color:#616161;}.css-145lt8w .MuiChip-deletelcon{-webkit-tap-highlight-color:transparent;color:rgba(0, 0, 0, 0.26);font-size:22px;cursor:pointer;margin:0 5px 0 -6px;}.css-145lt8w .MuiChip-deletelcon:over{color:rgba(0, 0, 0, 0.4);} .css-9iedg7{overflow:hidden;text-overflow:ellipsis;padding-left:12px;padding-right:12px;white-space:nowrap;} null

### Record difference

Before After 1

{ 1

{ 2

"position": null, 2

"position": null, 3

"operation": "Operation(0)", 3

"operation": "Operation(0)", 4

```
"metadata": { 4
"metadata": { 5 - "existing-key": "existing-value" 5 + "existing-key": "existing-value" , 6 + "processed": "true" 6
}, 7
}, 7
"key": null, 8
"key": null, 8
"payload": { 9
"payload": { 9
"before": null, 10
"before": null, 10 - "after": " world" 11 + "after": " hello, world" 11
} 12
} 12
} 13
} Edit this page Previous base64.encode Next field.convert
```