Getting Started with Processors

A processor is a component that operates on a single record that flows through a pipeline. It can eithertransform the record, orfilter it out based on some criteria. Since they are part of pipelines, making yourself familiar withpipeline semantics is highly recommended.

Processors areoptional components in a pipeline (i.e. a pipeline can be started without them), and they are always attached to a single parent, which can be either a connector or a pipeline:

- Connector processors
- :* Source processors
-
    - only receive messages originating at a specific source connector. Source
-
    - processors are created by specifying the corresponding source connector as the parent entity.
-
    - Destination processors
-
    - only receive messages that are meant to be sent to a specific
-
    - destination connector. Destination processors are created by specifying the corresponding destination connector as
-
    - the parent entity.
- Pipeline processors
- receive all messages that flow through the pipeline, regardless of the
- source or destination. Pipeline processors are created by specifying the pipeline as the parent entity.

Processor types

When it comes to using a processor, Conduit supports different types:

- Built-in processors
- will perform the most common operations you could expect such as filtering fields, replacing fields, posting payloads to a HTTP endpoint, etc. These are already coming as part of Conduit, and you can simply start using them with a bit of configuration.Check out this document to see everything that's available
- .
- Standalone processors
- are the ones you could write yourself to do anything that's not already covered by the Built-in
- ones.Here's
- more information about them.

How to use a processor

In these following examples, we're using the json.decode , but you could use any other you'd like from our Built-in ones, or even reference your own Standalone processor .

info When referencing the name of a processor plugin there are different ways you can make sure you're using the one you'd like. Please, check out the Referencing Processors documentation for more information.

Using a pipeline configuration file

Using a pipeline processor

Creating a pipeline processor through a pipeline configuration file can be done as below:

version :

2.2 pipelines : -

id : example - pipeline connectors :

define source and destination connectors

...

processors : -

id : extract - name plugin : json.decode settings : field : name

Using a connector processor

Similarly, we can configure a connector processor, i.e. a processor attached to a connector:

version :

2.2 pipelines : -

id : example - pipeline connectors : -

id : conn1

other connector configuration

processors : -

id : extract - name plugin : json.decode settings : field : name

other connectors

The documentation about pipeline configuration files can be foundhere .

Using theHTTP API

The processor endpoints live under the/v1/processors namespace, and to attach a processor to either connector or a pipeline, you could do aPOST request to/v1/processors specifyingparent.type asTYPE_PIPELINE orTYPE_CONNECTOR . Default value isTYPE_UNSPECIFIED .

Here's how the entire request could look like.

tip To list all the different API HTTP requests you could perform check out ouHTTP API . These are also described in ourapi.swagger.json . Edit this page Previous Specifications Next Builtin Processors