



Indexing your office documents with Elastic and FSCrawler

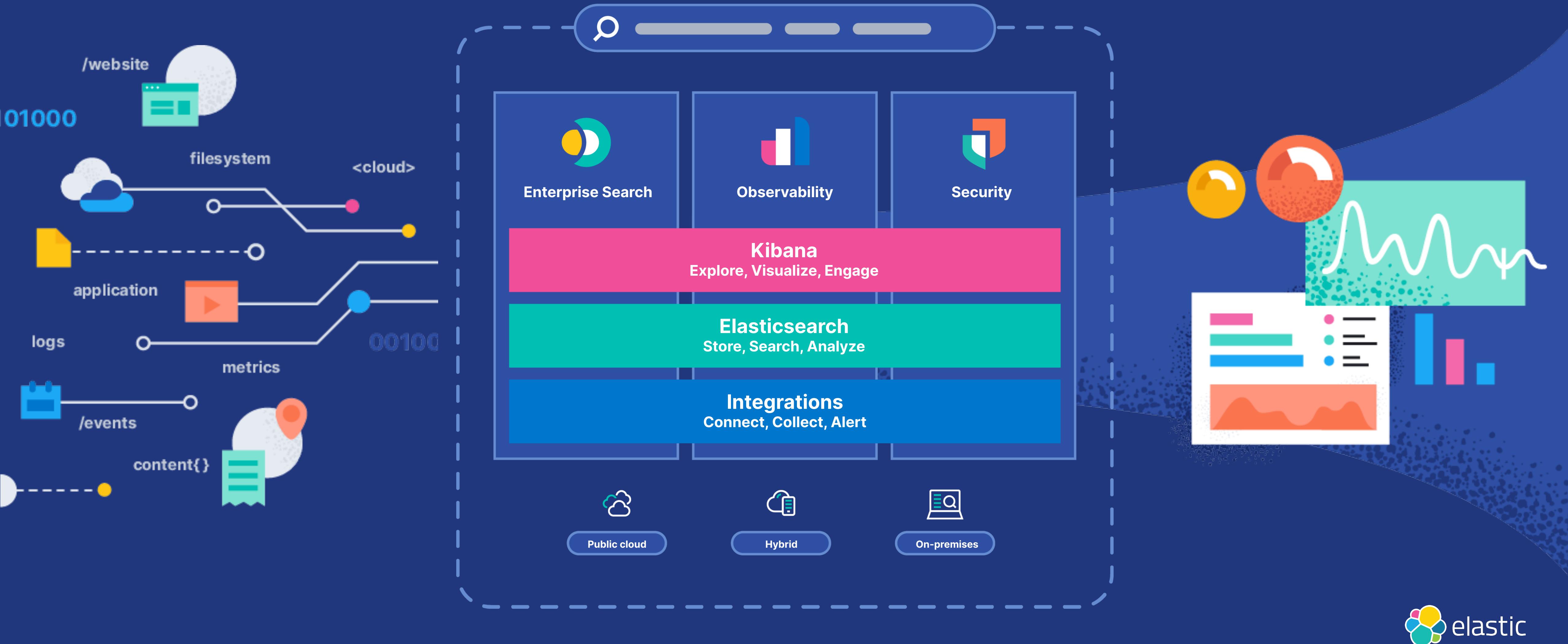
David Pilato

Developer / Evangelist, Community

@dadoonet

Capitole du Libre

The Elastic Search Platform





Apache Tika - a content analysis toolkit

The Apache Tika™ toolkit detects and extracts metadata and text from over a thousand different file types (such as PPT, XLS, and PDF). All of these file types can be parsed through a single interface, making Tika useful for search engine indexing, content analysis, translation, and much more. You can find the latest release on the [download page](#). Please see the [Getting Started](#) page for more information on how to start using Tika.

The [Parser](#) and [Detector](#) pages describe the main interfaces of Tika and how they work

For more in-depth documentation, see our [wiki](#) , especially for [tika-server](#) .

If you're interested in contributing to Tika, please see the [Contributing](#) page or send an email to the Tika development list.

Tika is a project of the [Apache Software Foundation](#) , and was formerly a subproject of [Apache Lucene](#) .

Latest News

2 May 2022: Apache Tika Release

Apache Tika 2.4.0 has been released! This release includes new mime detection for http-
responses, frictionless data packages, DGN files and others. Added basic parsers for WARC and
WACZ. Added configuration for metadata write filters, custom content handler decorators and

Apache Tika

Introduction

Download

Contribute

Mailing List

Tika Wiki

Tika Server

Issue Tracker

Security

Documentation

- Apache Tika 2.4.0
 - Getting Started
 - Supported Formats
 - Parser API
 - Parser 5min Quick Start Guide
 - Content and Language Detection
 - Configuring Tika
 - Usage Examples
 - API Documentation
- Apache Tika 1.28.2
- Apache Tika 2.3.0
- Apache Tika 1.28.1
- Apache Tika 2.2.1
- Apache Tika 1.28
- Apache Tika 2.2.0
- Apache Tika 2.1.0
- Apache Tika 2.0.0
- Apache Tika 1.27
- Apache Tika 1.26
- Apache Tika 1.25
- Apache Tika 1.24
- Apache Tika 1.23
- Apache Tika 1.22
- Apache Tika 1.21
- Apache Tika 1.20
- Apache Tika 1.19
- Apache Tika 1.18
- Apache Tika 1.17
- Apache Tika 1.16
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- Apache Tika 1.14
- Apache Tika 1.13
- Apache Tika 1.12
- Apache Tika 1.11
- Apache Tika 1.10
- Apache Tika 1.9
- Apache Tika 1.8
- Apache Tika 1.7
- Apache Tika 1.6
- Apache Tika 1.5
- Apache Tika 1.4
- Apache Tika 1.3
- Apache Tika 1.2
- Apache Tika 1.1
- Apache Tika 1.0



Please note that Apache Tika is able to detect a much wider range of formats than those listed below, this page only documents those formats from which Tika is able to extract metadata and/or textual content.

- [Supported Document Formats](#)
 - [HyperText Markup Language](#)
 - [XML and derived formats](#)
 - [Microsoft Office document formats](#)
 - [OpenDocument Format](#)
 - [iWorks document formats](#)
 - [WordPerfect document formats](#)
 - [Portable Document Format](#)
 - [Electronic Publication Format](#)
 - [Rich Text Format](#)
 - [Compression and packaging formats](#)
 - [Text formats](#)
 - [Feed and Syndication formats](#)
 - [Help formats](#)
 - [Audio formats](#)
 - [Image formats](#)
 - [Video formats](#)
 - [Java class files and archives](#)
 - [Source code](#)
 - [Mail formats](#)
 - [CAD formats](#)
 - [Font formats](#)
 - [Scientific formats](#)
 - [Executable programs and libraries](#)
 - [Crypto formats](#)
 - [Database formats](#)
 - [Natural Language Processing](#)
 - [Image and Video object recognition](#)

Parsing a stream

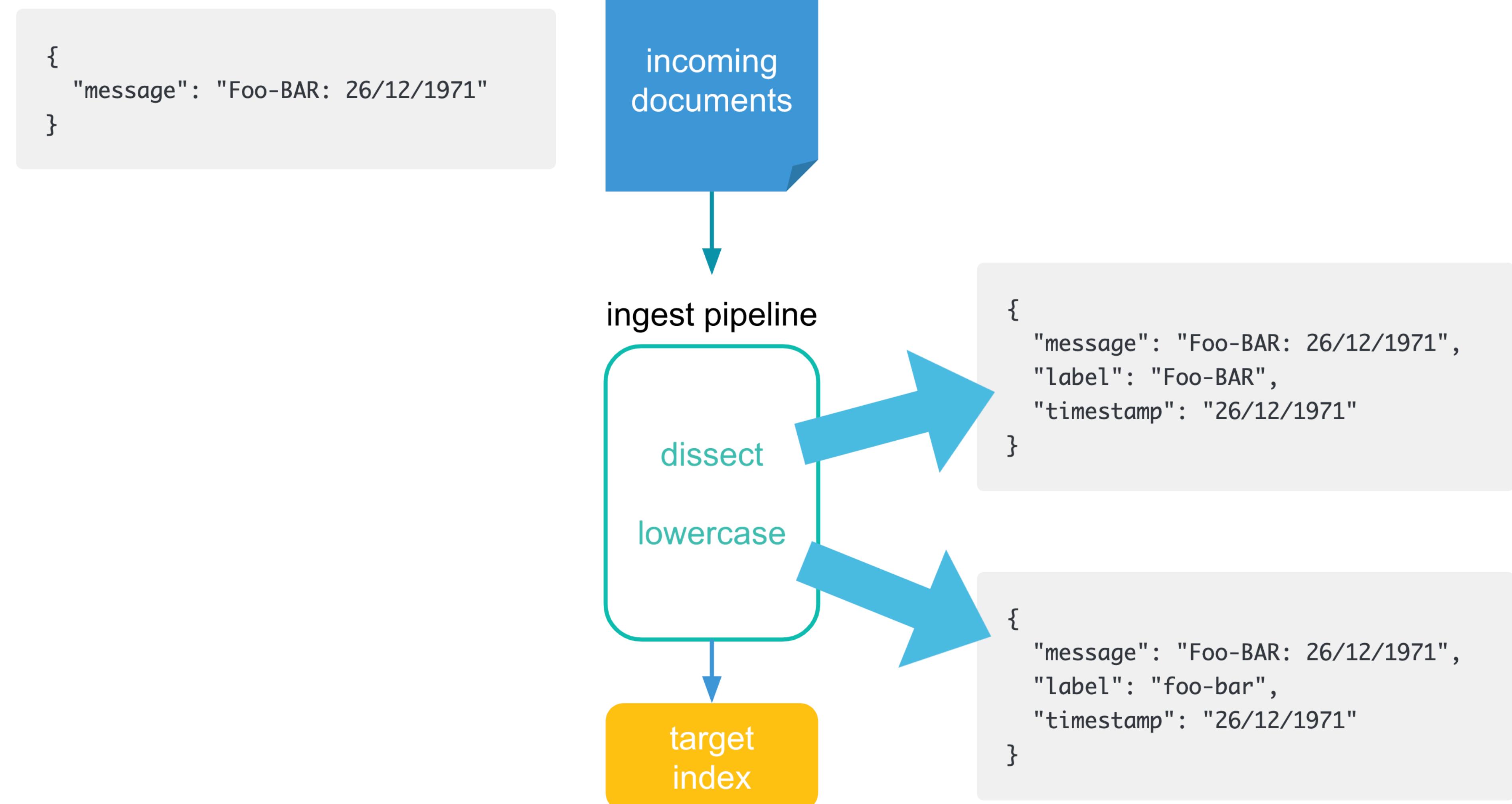
and getting content and metadata

```
static void extractTextAndMetadata(InputStream stream) throws Exception {  
    BodyContentHandler handler = new BodyContentHandler();  
    Metadata metadata = new Metadata();  
    try (stream) {  
        new DefaultParser().parse(stream, handler, metadata, new ParseContext());  
        String extractedText = handler.toString();  
        String title = metadata.get(TikaCoreProperties.TITLE);  
        String keywords = metadata.get(TikaCoreProperties.KEYWORDS);  
        String author = metadata.get(TikaCoreProperties.CREATOR);  
    }  
}
```



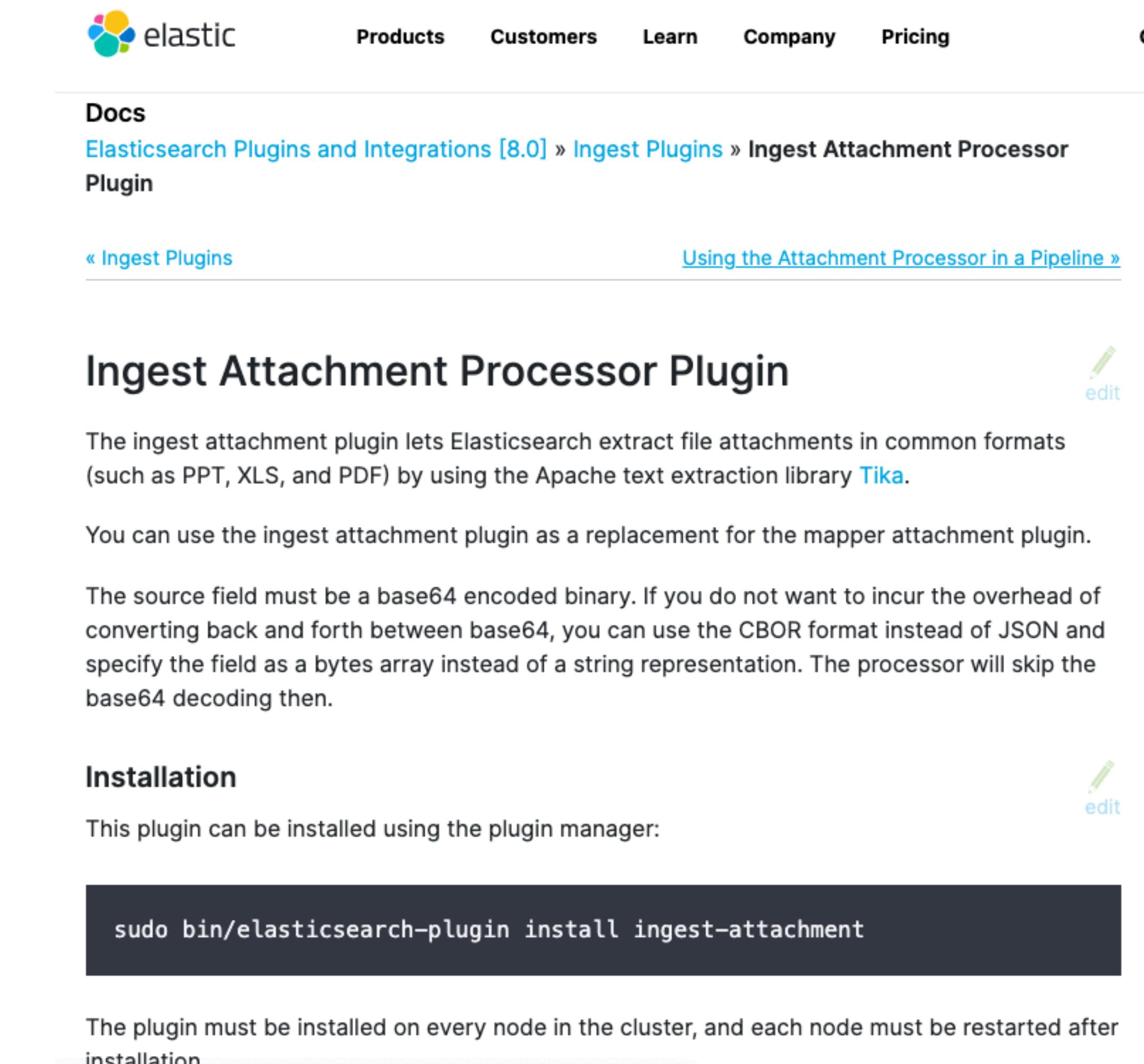
ingest-attachment plugin extracting from **BASE64 or CBOR**

An ingest pipeline



ingest-attachment processor plugin

using Tika behind the scene



The screenshot shows a screenshot of the Elasticsearch Docs website. The top navigation bar includes links for Products, Customers, Learn, Company, Pricing, and a search icon. Below the navigation, a breadcrumb trail shows the path: Elasticsearch Plugins and Integrations [8.0] » Ingest Plugins » Ingest Attachment Processor Plugin. The main content area has a title "Ingest Attachment Processor Plugin" with an "edit" link. A text block explains that the plugin lets Elasticsearch extract file attachments using the Apache Tika library. It also notes that the source field must be base64 encoded binary and suggests using CBOR format instead. Below this, an "Installation" section is shown with an "edit" link, explaining that the plugin can be installed using the plugin manager. A terminal command "sudo bin/elasticsearch-plugin install ingest-attachment" is displayed in a dark box. A note at the bottom states that the plugin must be installed on every node in the cluster and restarted after installation.

Products Customers Learn Company Pricing

Docs

Elasticsearch Plugins and Integrations [8.0] » Ingest Plugins » Ingest Attachment Processor Plugin

« Ingest Plugins Using the Attachment Processor in a Pipeline »

Ingest Attachment Processor Plugin

The ingest attachment plugin lets Elasticsearch extract file attachments in common formats (such as PPT, XLS, and PDF) by using the Apache text extraction library [Tika](#).

You can use the ingest attachment plugin as a replacement for the mapper attachment plugin.

The source field must be a base64 encoded binary. If you do not want to incur the overhead of converting back and forth between base64, you can use the CBOR format instead of JSON and specify the field as a bytes array instead of a string representation. The processor will skip the base64 decoding then.

Installation

This plugin can be installed using the plugin manager:

```
sudo bin/elasticsearch-plugin install ingest-attachment
```

The plugin must be installed on every node in the cluster, and each node must be restarted after installation.

Demo



<https://cloud.elastic.co>



FSCrawler
You know, for files...



Search or jump to...

[Pull requests](#) [Issues](#) [Marketplace](#) [Explore](#)



[dadoonet / fscrawler](#)

Public

Unpin

Unwatch 74

Fork 263

Starred 1.1k

Code

Issues 112

Pull requests 11

Discussions

Actions

Projects 2

Security 1

Insights

Settings

We found potential security vulnerabilities in your dependencies.

Only the owner of this repository can see this message.

[See Dependabot alerts](#)

master

17 branches

22 tags

[Go to file](#)

[Add file](#)

[Code](#)



dadoonet Merge pull request #1428 from dadoonet/remove-waitfor

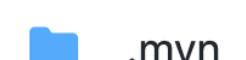
✓ 453aa80 18 hours ago 1,978 commits



.github

Fix tests for 6.8

2 months ago



.mvn

Move to .mvn folder all needed settings to build/test FSCrawler

5 years ago



3rdparty

Revert "Add the waitfor maven plugin"

18 hours ago



beans

Clean up Json util classes

3 months ago



cli

Fix --trace and --debug modes

3 months ago



contrib

Update to 8.1.1

2 months ago



core

Allow switching between nodes and retry if node is failing

3 months ago



crawler

prepare for next development iteration

4 months ago



distribution

Merge pull request #1389 from rhaist/patch-1

2 months ago



docs

Upgrade to Tika 2.4.0

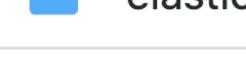
2 days ago



elasticsearch-client

Update waitfor-maven-plugin to 1.4-SNAPSHOT

2 months ago



framework

Fix unit tests

2 months ago

About



Elasticsearch File System Crawler (FS Crawler)

[fscrawler.readthedocs.io/](#)

[java](#) [elasticsearch](#) [crawler](#) [tika](#)

Readme

Apache-2.0 license

Code of conduct

1.1k stars

74 watching

263 forks

Releases 4

v2.9 Latest

on 8 Mar

[+ 3 releases](#)

Packages

No packages published

[Publish your first package](#)





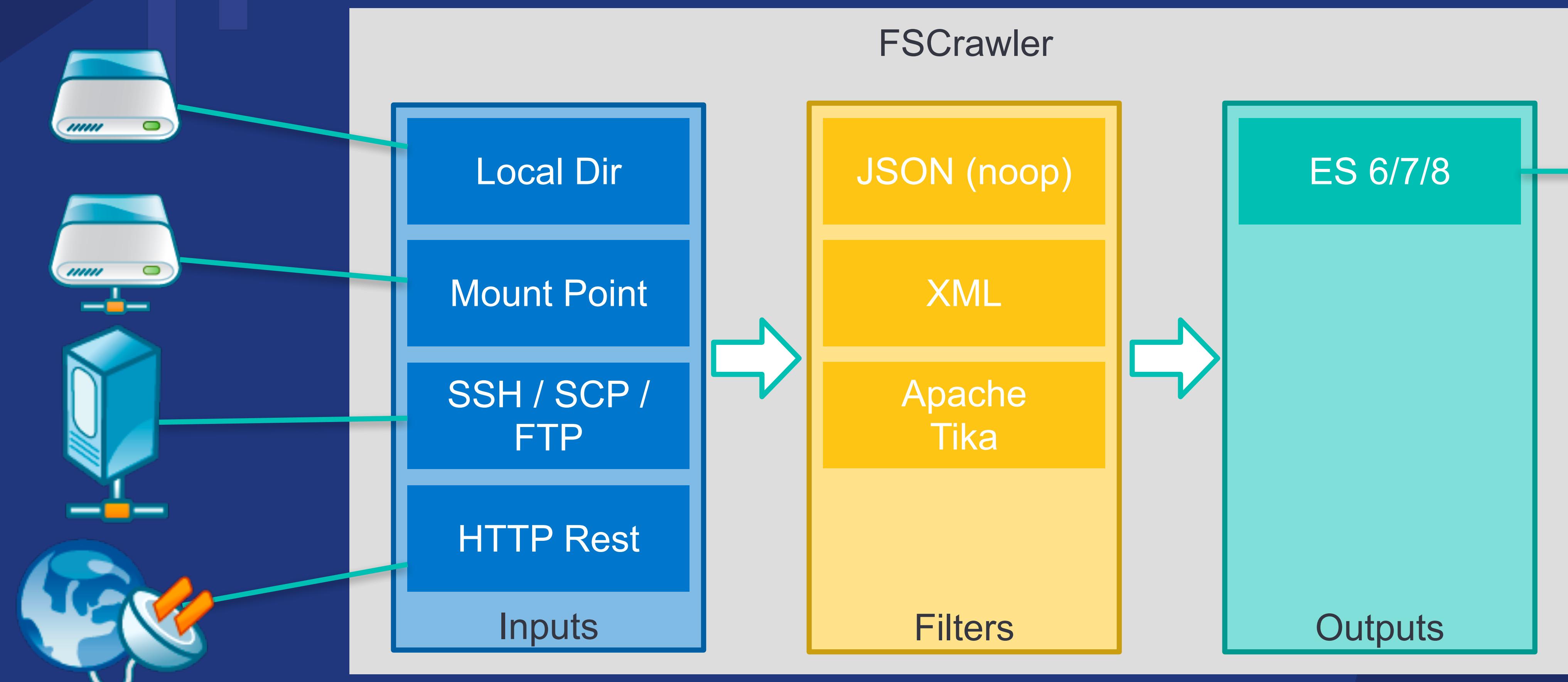
Disclaimer

This project is a community project.
It is not officially supported by Elastic.
Support is only provided by FSCrawler community
on discuss and stackoverflow.

<http://discuss.elastic.co/>
<https://stackoverflow.com/questions/tagged/fscrawler>

FSCrawler

Architecture



FSCrawler

Key Features

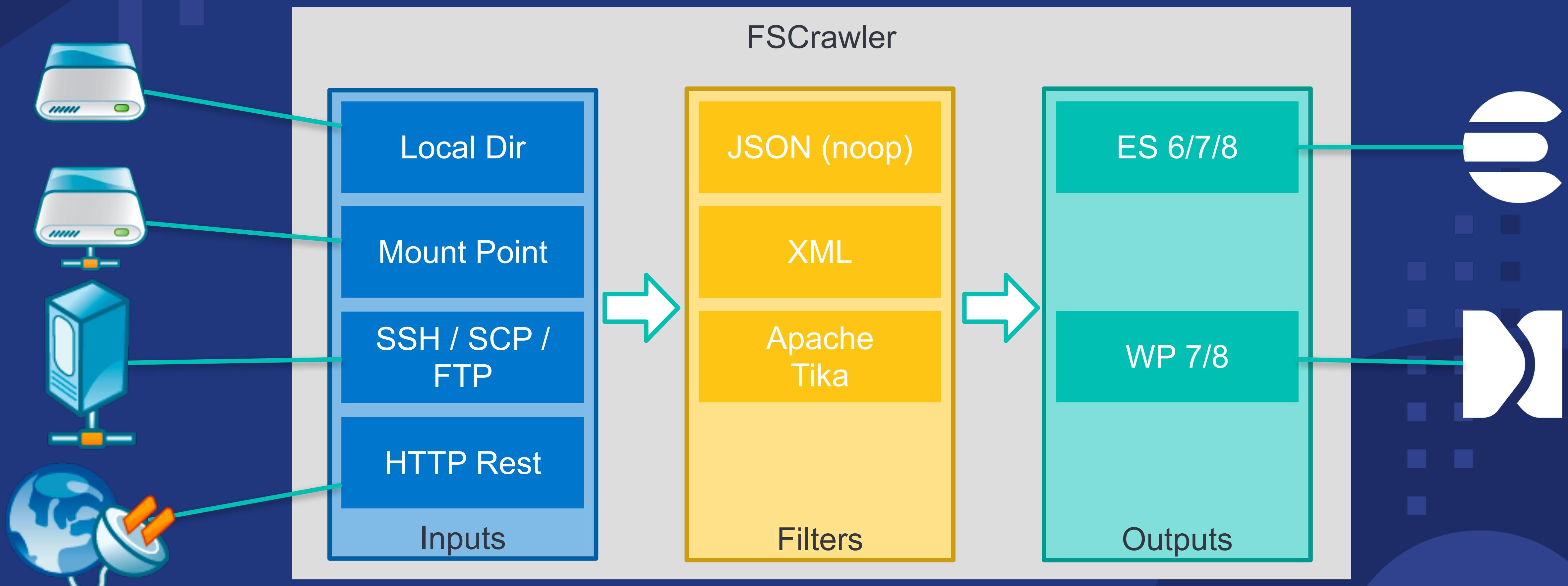
- Much more formats than ingest attachment plugin
- OCR (Tesseract)
- ~~Much more metadata than ingest attachment plugin~~
(See <https://fscrawler.readthedocs.io/en/latest/admin/fs/elasticsearch.html#generated-fields>)
- Extraction of non standard metadata



FSCrawler
even better with a UI

FSCrawler

Architecture



Demo



<https://cloud.elastic.co>

Beta
8.2

Network drives connector package

for Enterprise Search

<https://github.com/elastic/enterprise-search-network-drives-connector/>



Thanks!

PR are warmly welcomed!

<https://github.com/dadoonet/fscrawler>

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