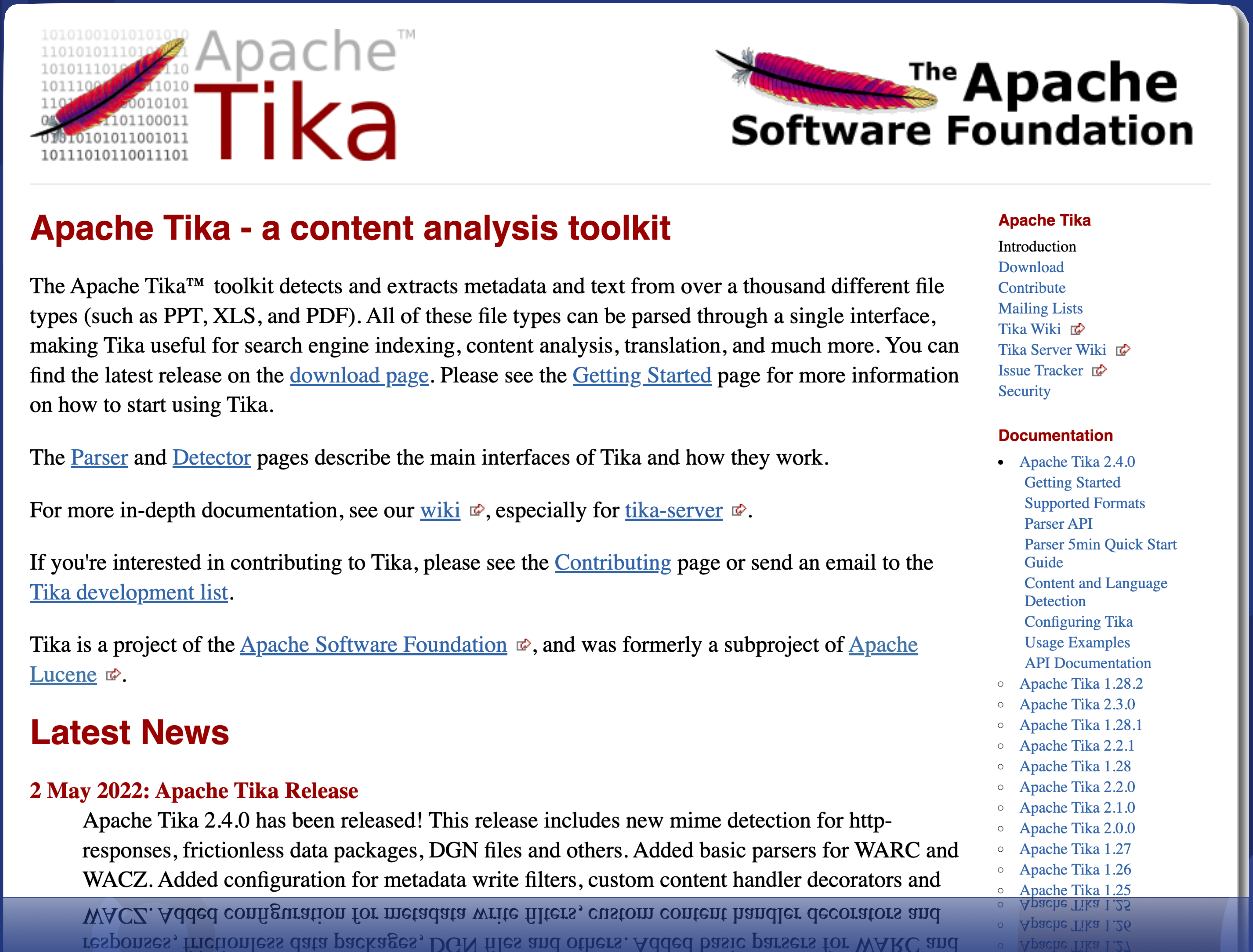
elastic

Indexing your office documents with Elastic and FSCrawler

David Pilato
Developer | Evangelist, Community
@dadoonet

VOXXED DAYS
LUXEMBOURG



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

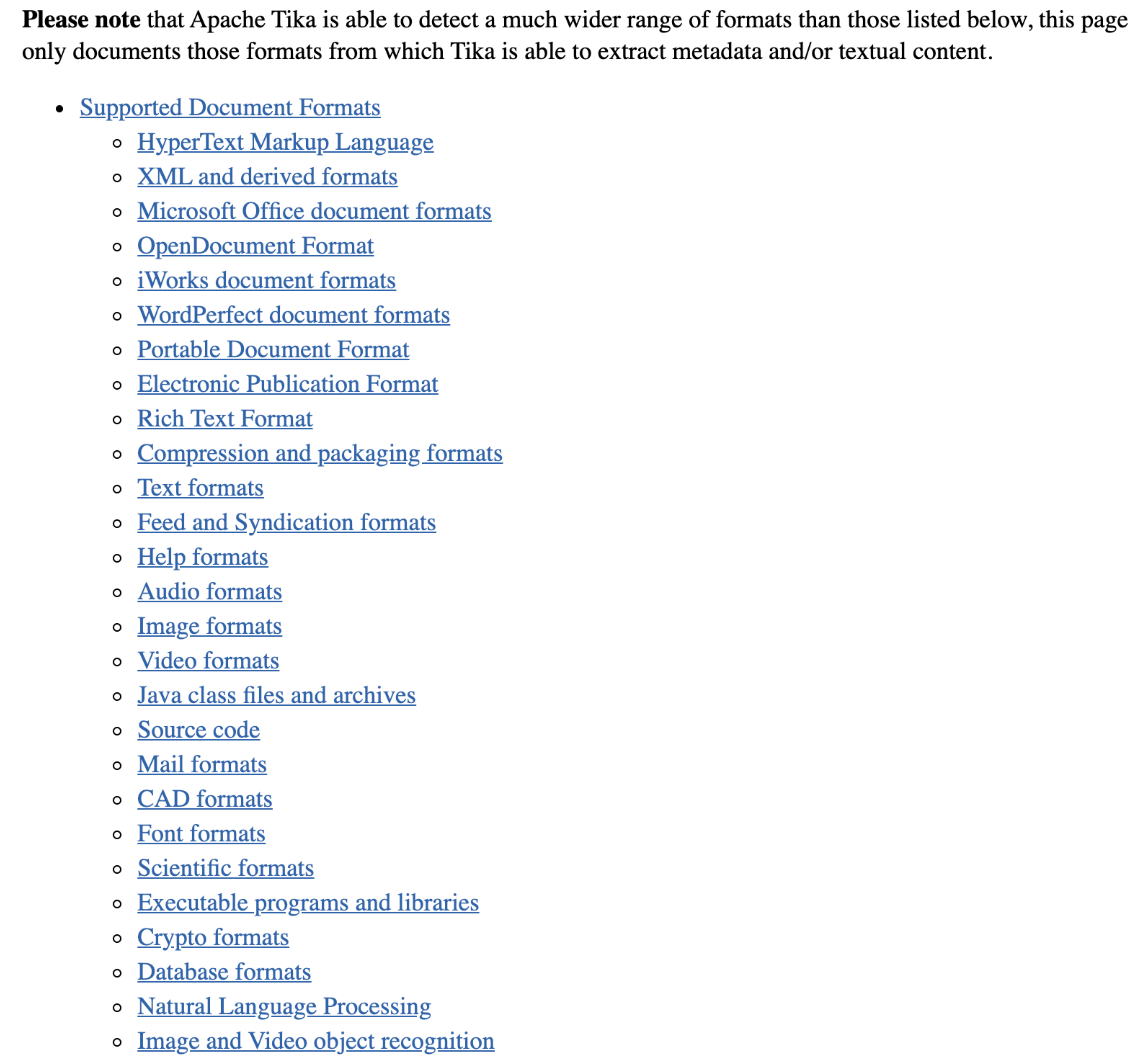
Apache Tika 2.4.0 has been released! This release includes new mime detection for http-responses, frictionless data packages, DGN files and others. Added basic parsers for WARC and WACZ. Added configuration for metadata write filters, custom content handler decorators and

Apache Tika

Introduction
Download
Contribute
Mailing Lists
Tika Wiki
Tika Server Wiki
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



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

```java
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);
    }
}
```

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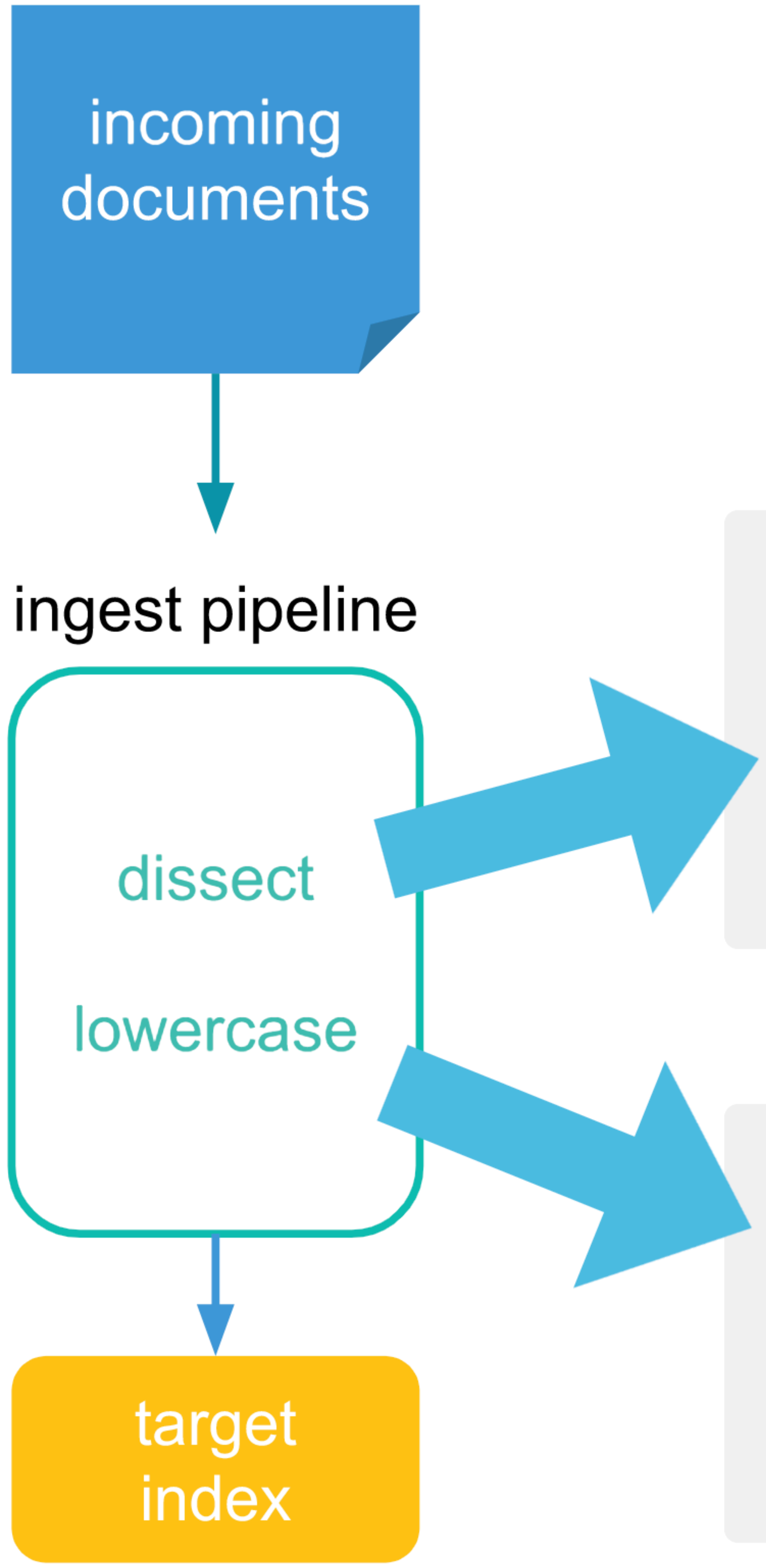
ingest-attachment plugin
extracting from BASE64 or CBOR

An ingest pipeline

```
{
  "message": "Foo-BAR: 26/12/1971"
}
```

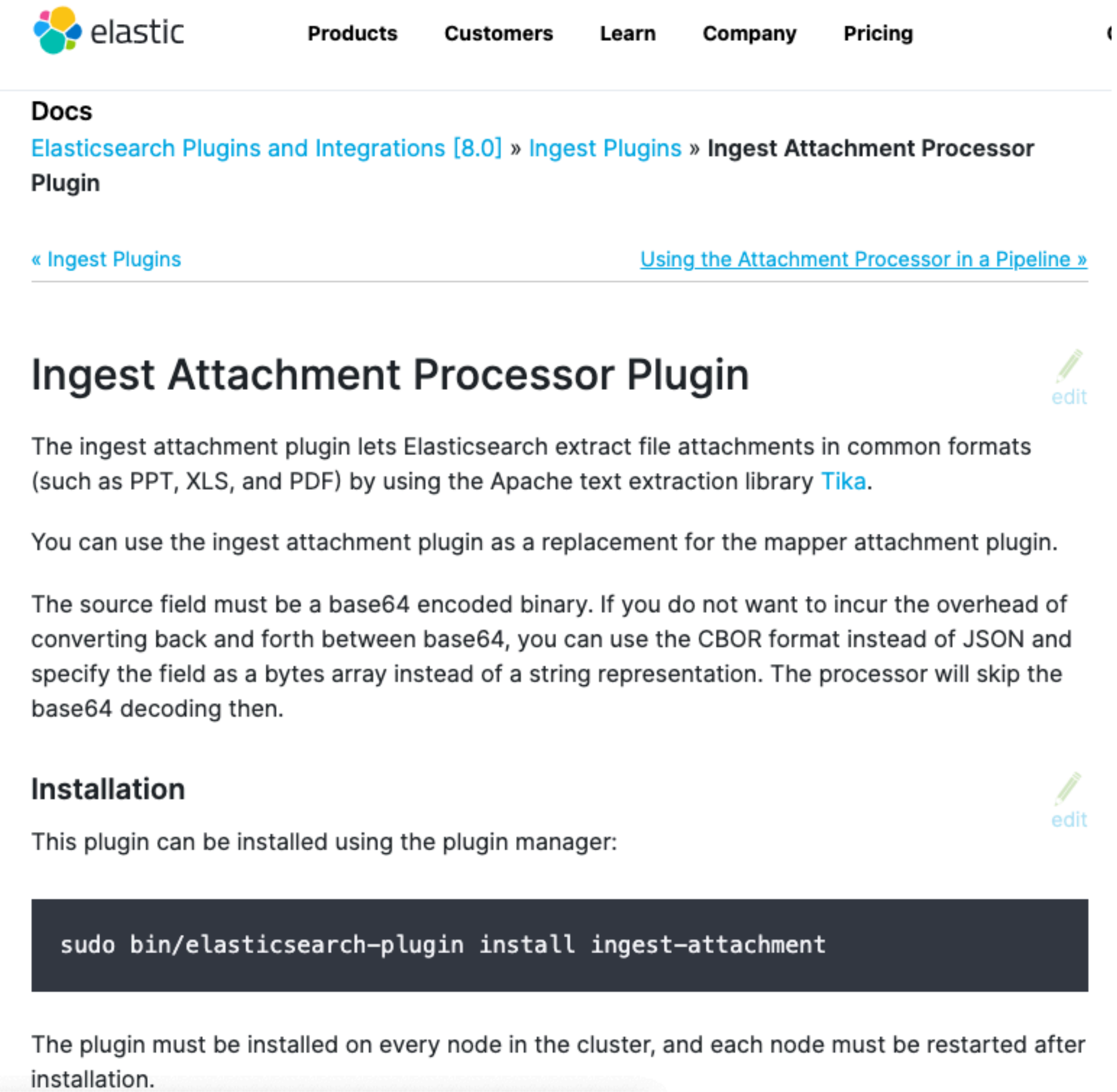


```
{
  "message": "Foo-BAR: 26/12/1971",
  "label": "Foo-BAR",
  "timestamp": "26/12/1971"
}
```

```
{
  "message": "Foo-BAR: 26/12/1971",
  "label": "foo-bar",
  "timestamp": "26/12/1971"
}
```

ingest-attachment processor plugin

using Tika behind the scene



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

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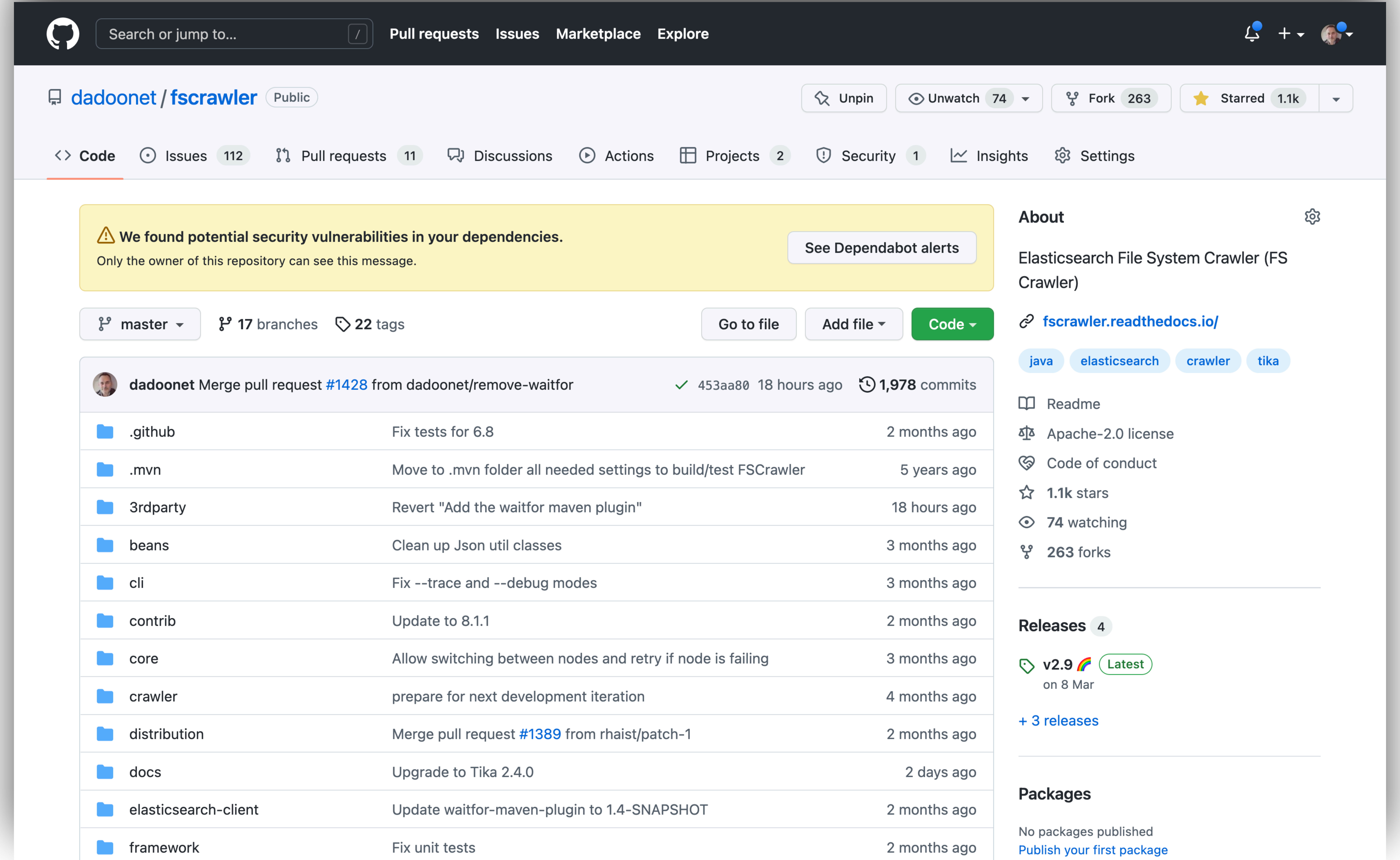
FSCrawler

You know, for files…



dadoonet / fscrawler Public

We found potential security vulnerabilities in your dependencies.

Only the owner of this repository can see this message.

17 branches 22 tags

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

elastic

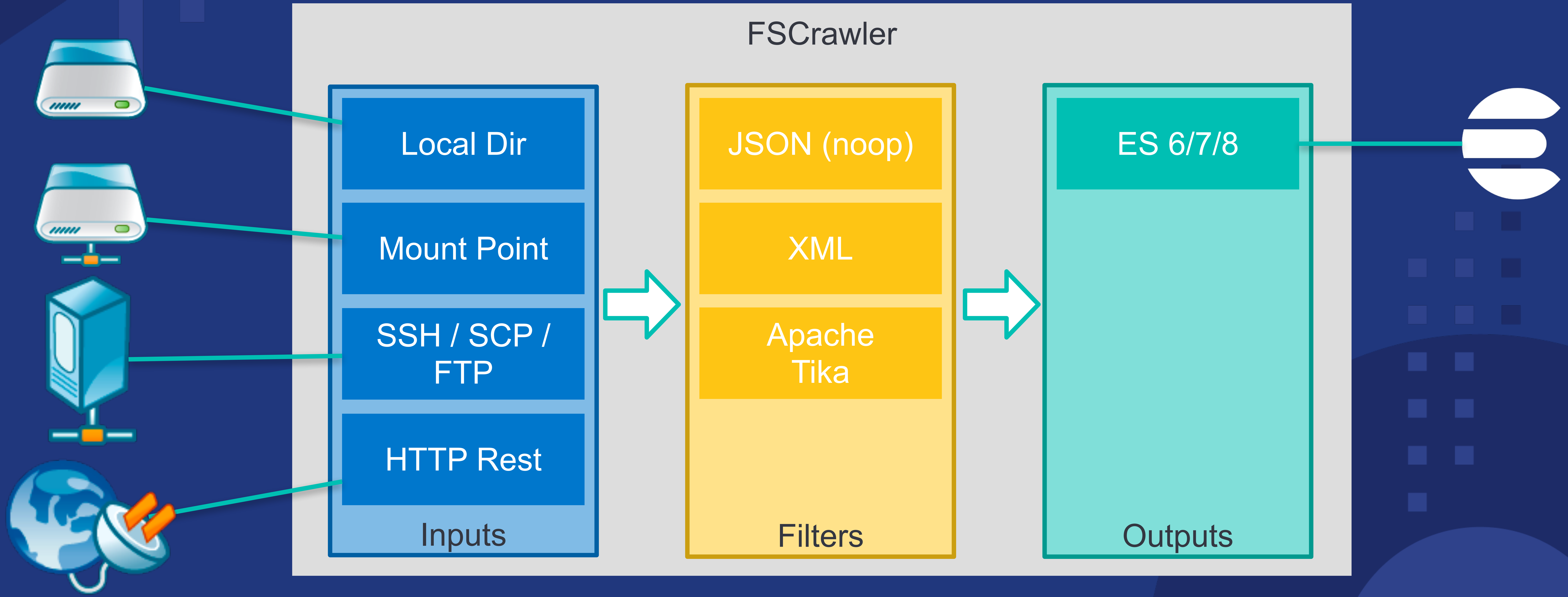
Disclaimer

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)
- Language detection
  (But see also https://github.com/spinscale/elasticsearch-ingest-langdetect)

Documentation

- https://fscrawler.readthedocs.io/
- https://fscrawler.readthedocs.io/en/latest/user/tutorial.html
- https://fscrawler.readthedocs.io/en/latest/user/formats.html
- https://fscrawler.readthedocs.io/en/latest/admin/fs/index.html

Demo

https://cloud.elastic.co

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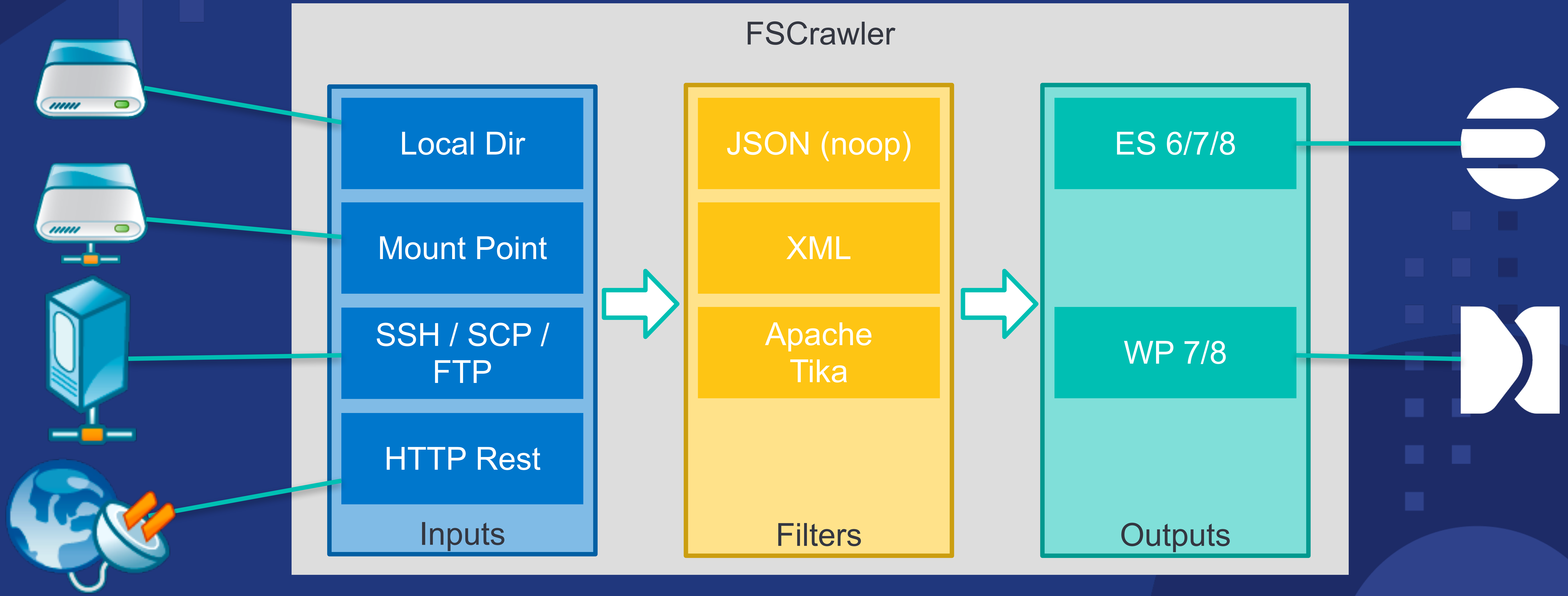
FSCrawler

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/

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Thanks!

PR are warmly welcomed!

https://github.com/dadoonet/fscrawler