

# Indexing your office documents with Elastic and FSCrawler

David Pilato Developer I Evangelist, Community @dadoonet

















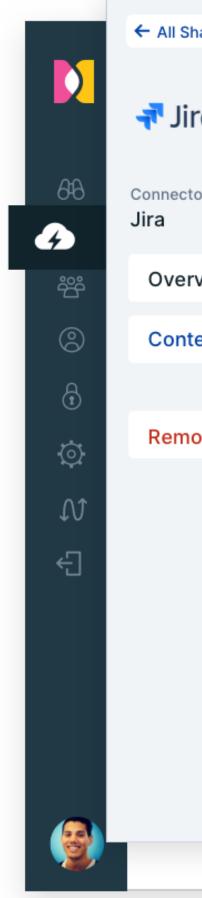






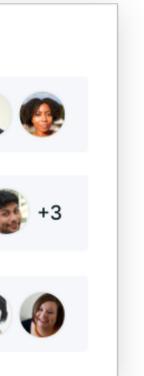
### Search everything, anywhere

Easily implement powerful, modern search experiences across your website, app, or digital workplace. Search it all, simply.



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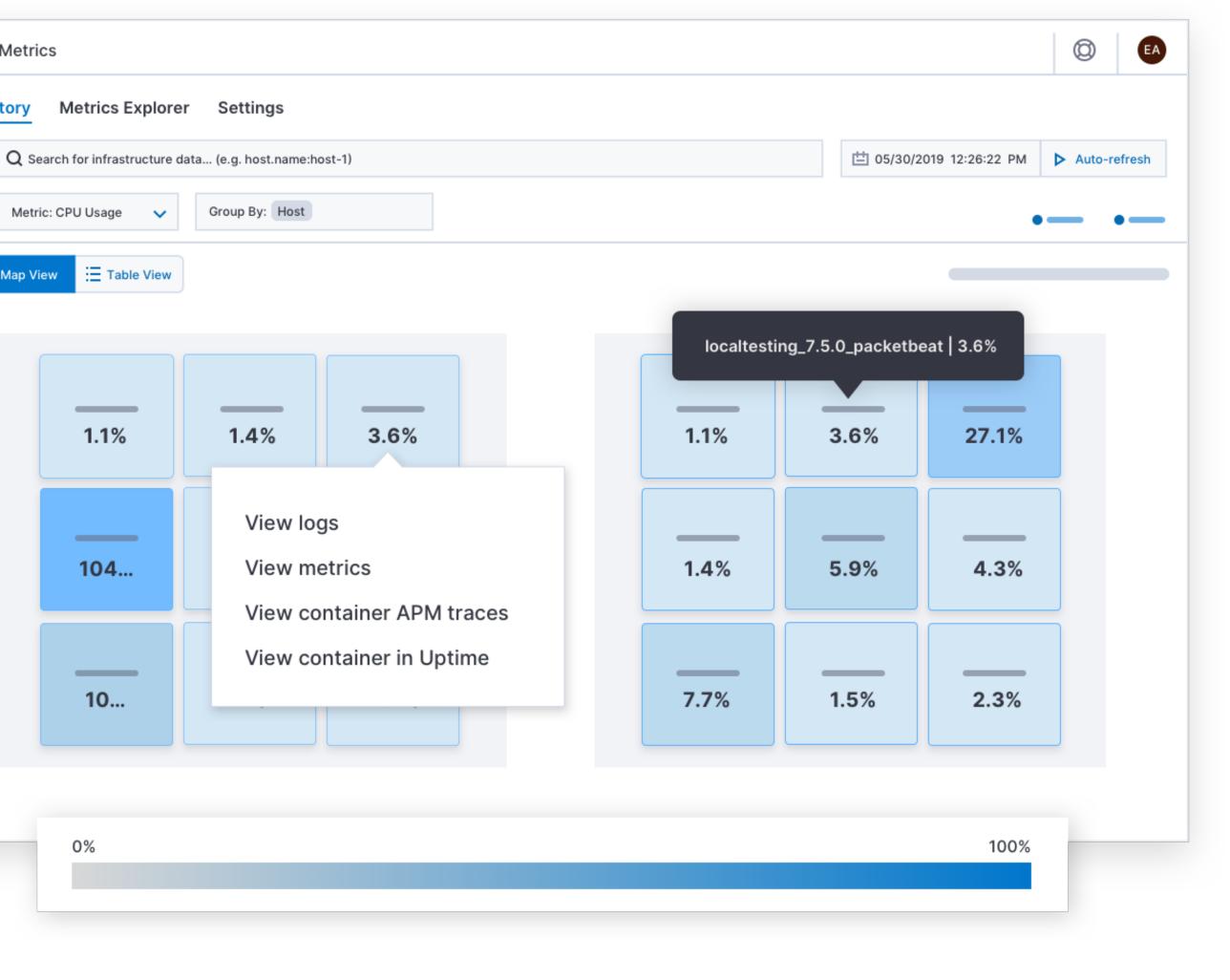




### **Unified visibility** across your entire ecosystem

Bring your logs, metrics, and traces together into a single stack so you can monitor, detect, and react to events with speed.

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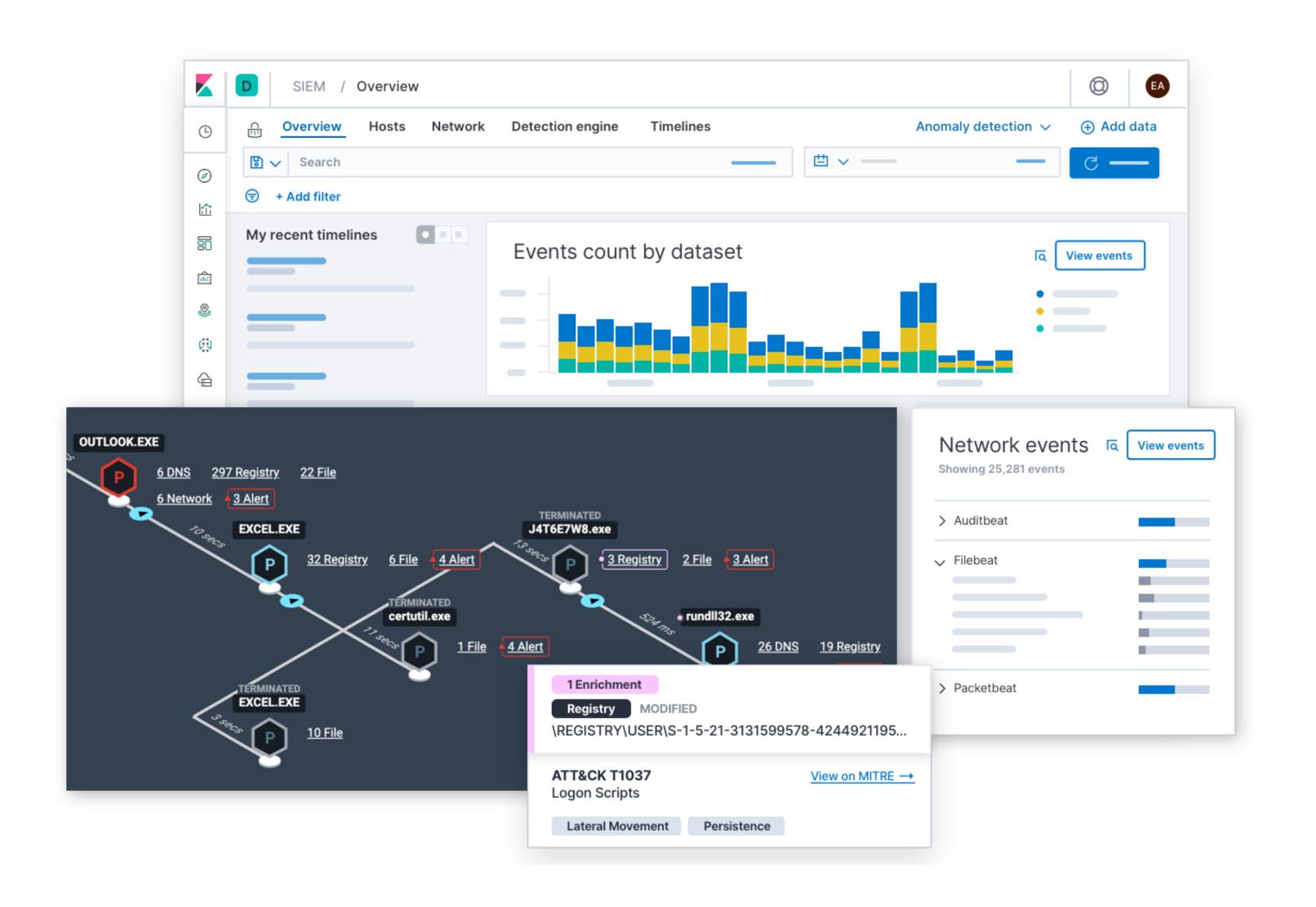


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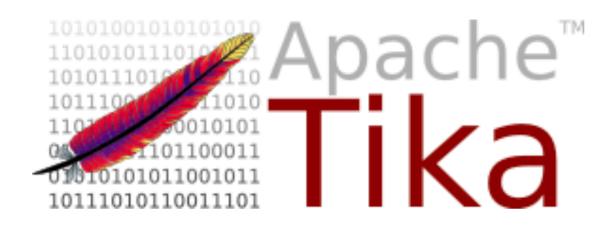




Elastic Security integrates endpoint security and SIEM to give you prevention, collection, detection, and response capabilities for unified protection across your infrastructure.







#### Apache Tika - a content analysis toolkit

The Apache Tika<sup>TM</sup> 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 <u>download page</u>. Please see the <u>Getting Started</u> page for more information on how to start using Tika.

The <u>Parser</u> and <u>Detector</u> pages describe the main interfaces of Tika and how they work.

For more in-depth documentation, see our <u>wiki</u> rightarrow, especially for <u>tika-server</u> rightarrow.

If you're interested in contributing to Tika, please see the <u>Contributing</u> page or send an email to the <u>Tika development list</u>.

Tika is a project of the <u>Apache Software Foundation</u> rightarrow, and was formerly a subproject of <u>Apache Lucene</u> rightarrow.

#### **Latest News**

#### 2 May 2022: Apache Tika Release

Apache Tika 2.4.0 has been released! This release includes new mime detection for httpresponses, 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

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

### The Apache Software Foundation

#### 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 • Apache Tika 1.25
- Apache Tika 1.2/Apache Tika 1.26





**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.

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



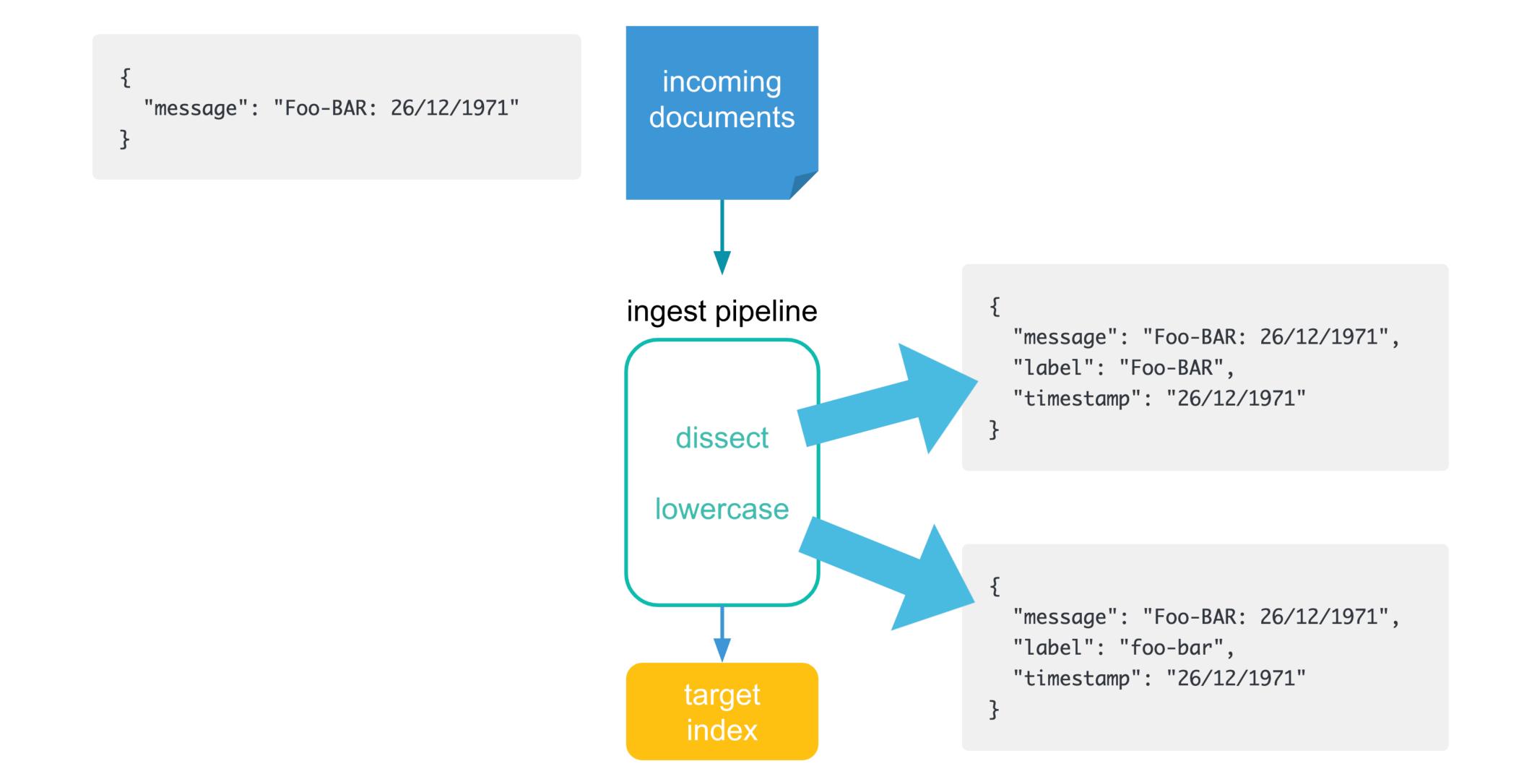


### ingest-attachment plugin extracting from BASE64 or CBOR





### An ingest pipeline









### ingest-attachment processor plugin

#### using Tika behind the scene



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

« Ingest Plugins

#### 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.

Using the Attachment Processor in a Pipeline »



edit











### https://cloud.elastic.co

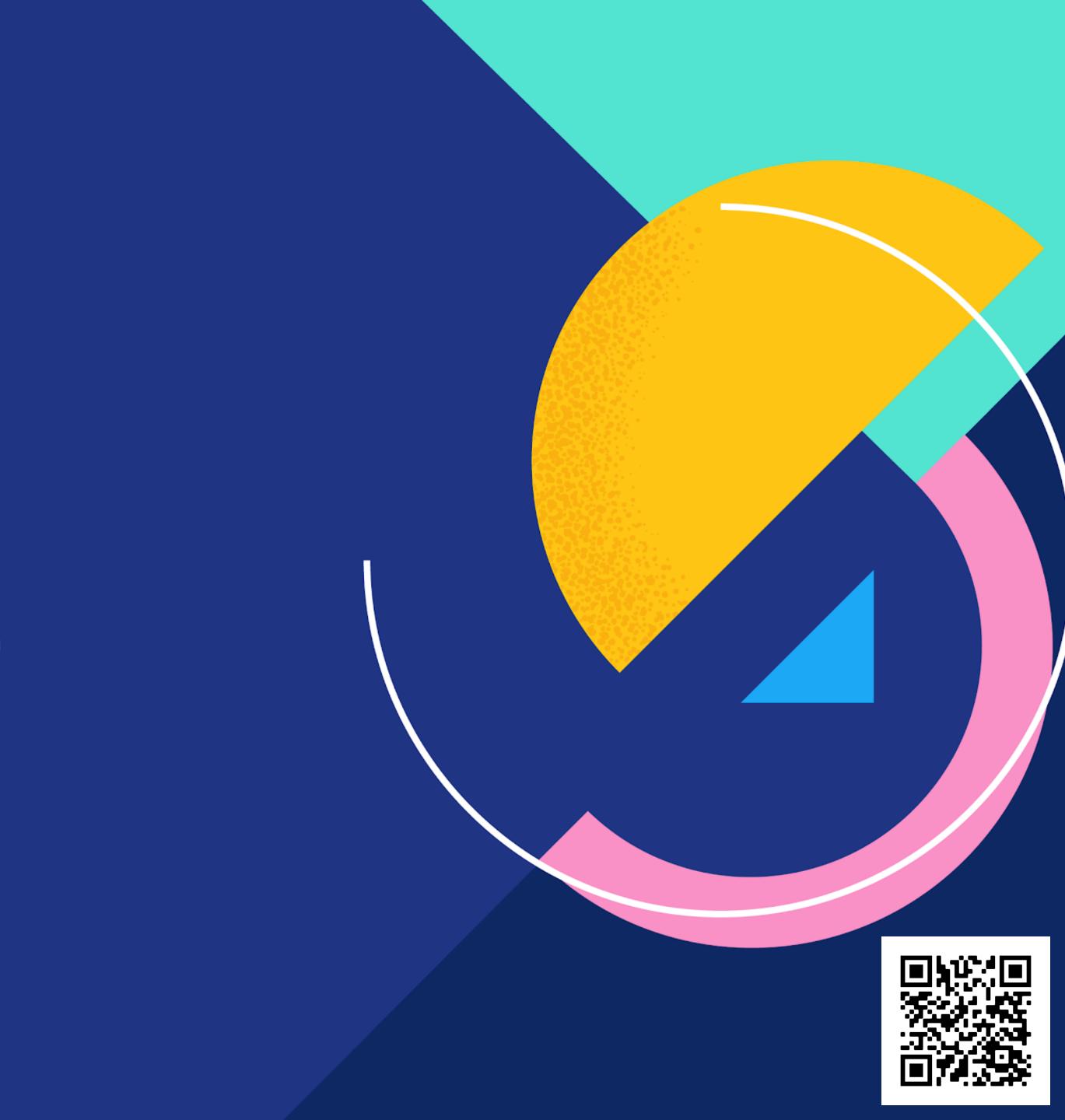




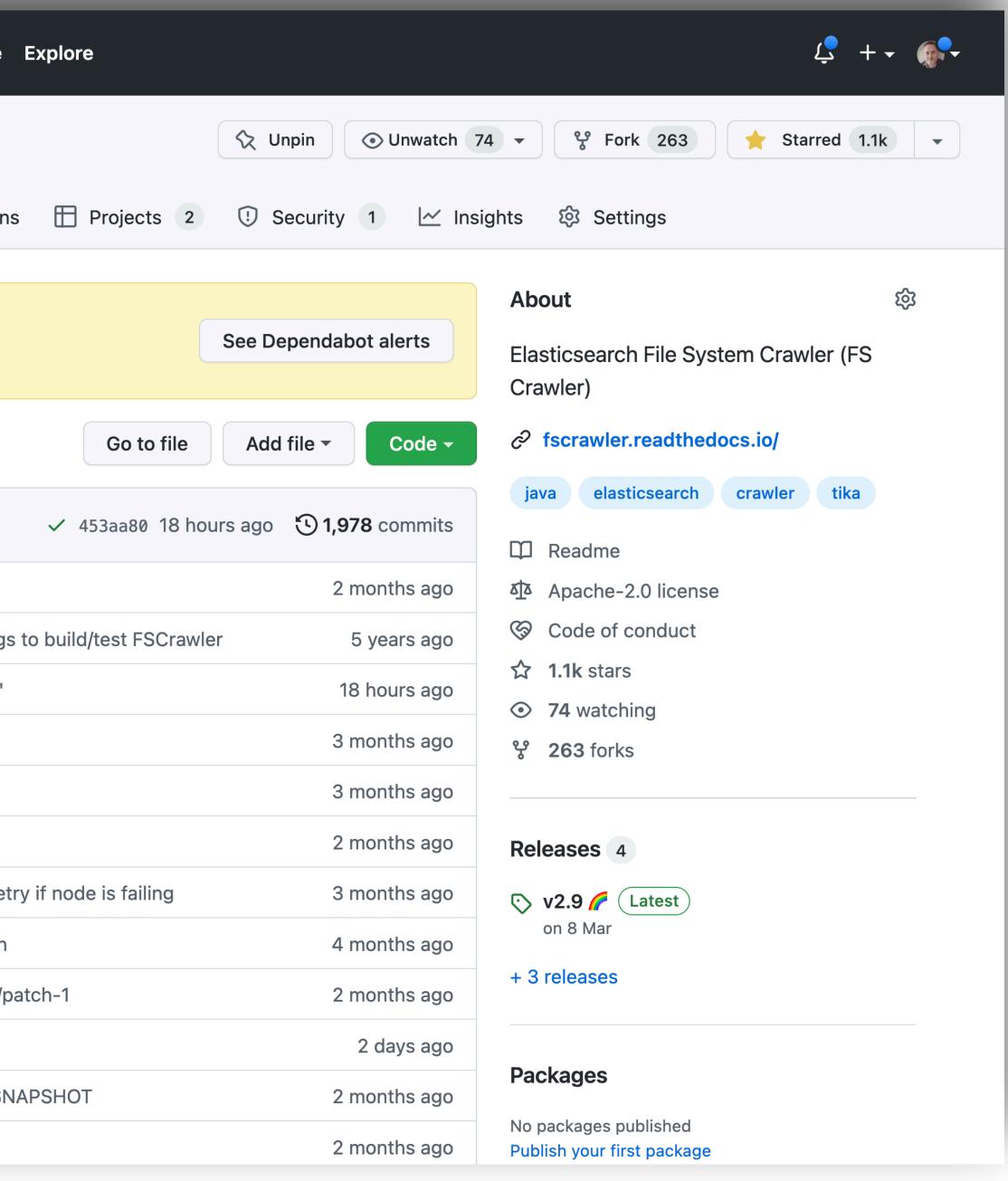




### FSCrawler You know, for files...



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	dadoonet Merge pull request #1428 fr	rom dadoonet/remove-waitfor			
	.github	Fix tests for 6.8			
	.mvn	Move to .mvn folder all needed settings			
	3rdparty	Revert "Add the waitfor maven plugin"			
	beans	Clean up Json util classes			
	cli	Fixtrace anddebug modes			
	contrib	Update to 8.1.1			
	core	Allow switching between nodes and ret			
	crawler	prepare for next development iteration			
	distribution	Merge pull request #1389 from rhaist/p			
	docs	Upgrade to Tika 2.4.0			
	elasticsearch-client	Update waitfor-maven-plugin to 1.4-SN			
	framework	Fix unit tests			







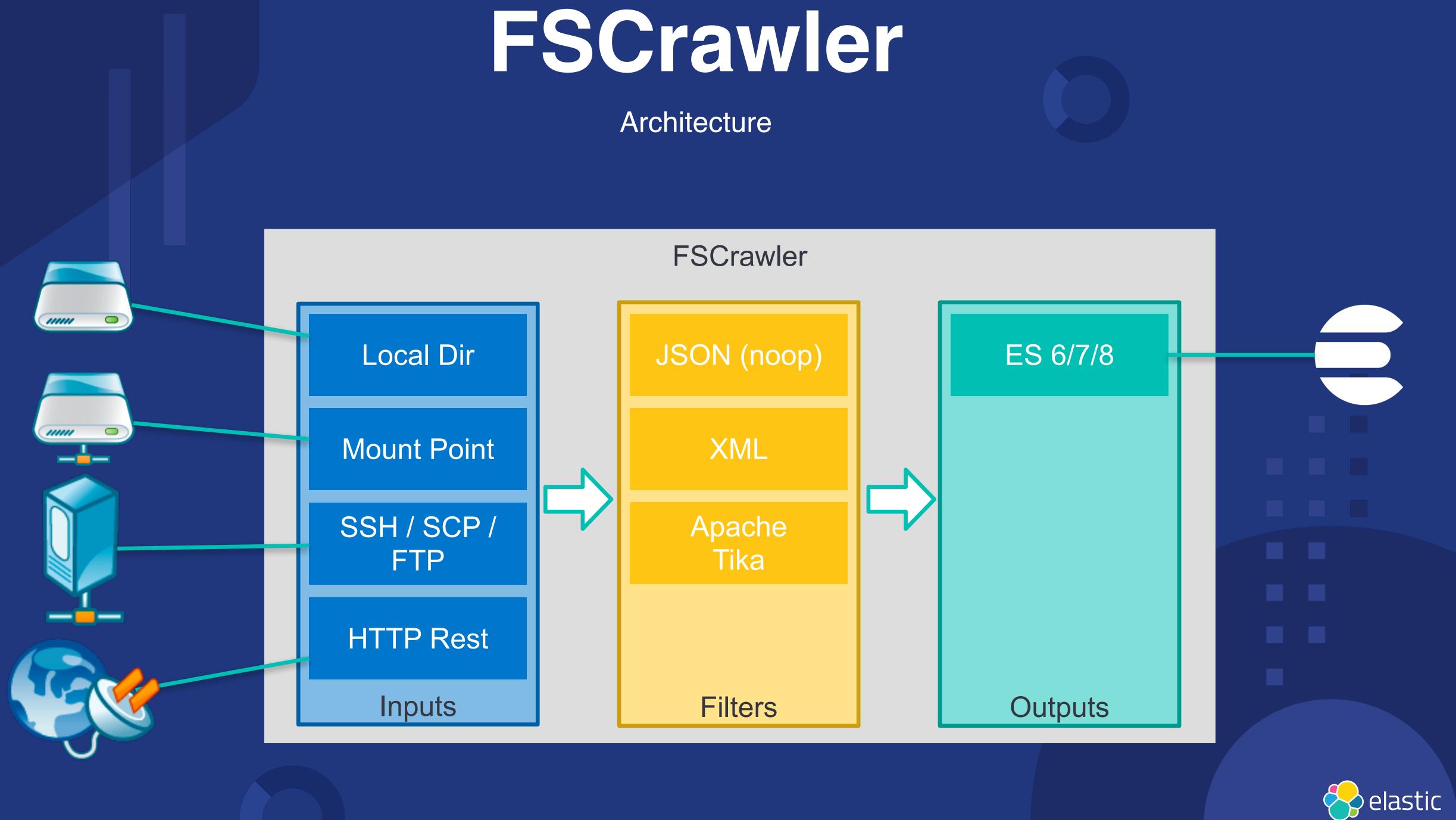
# Disclaimer

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

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











- 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**

Key Features









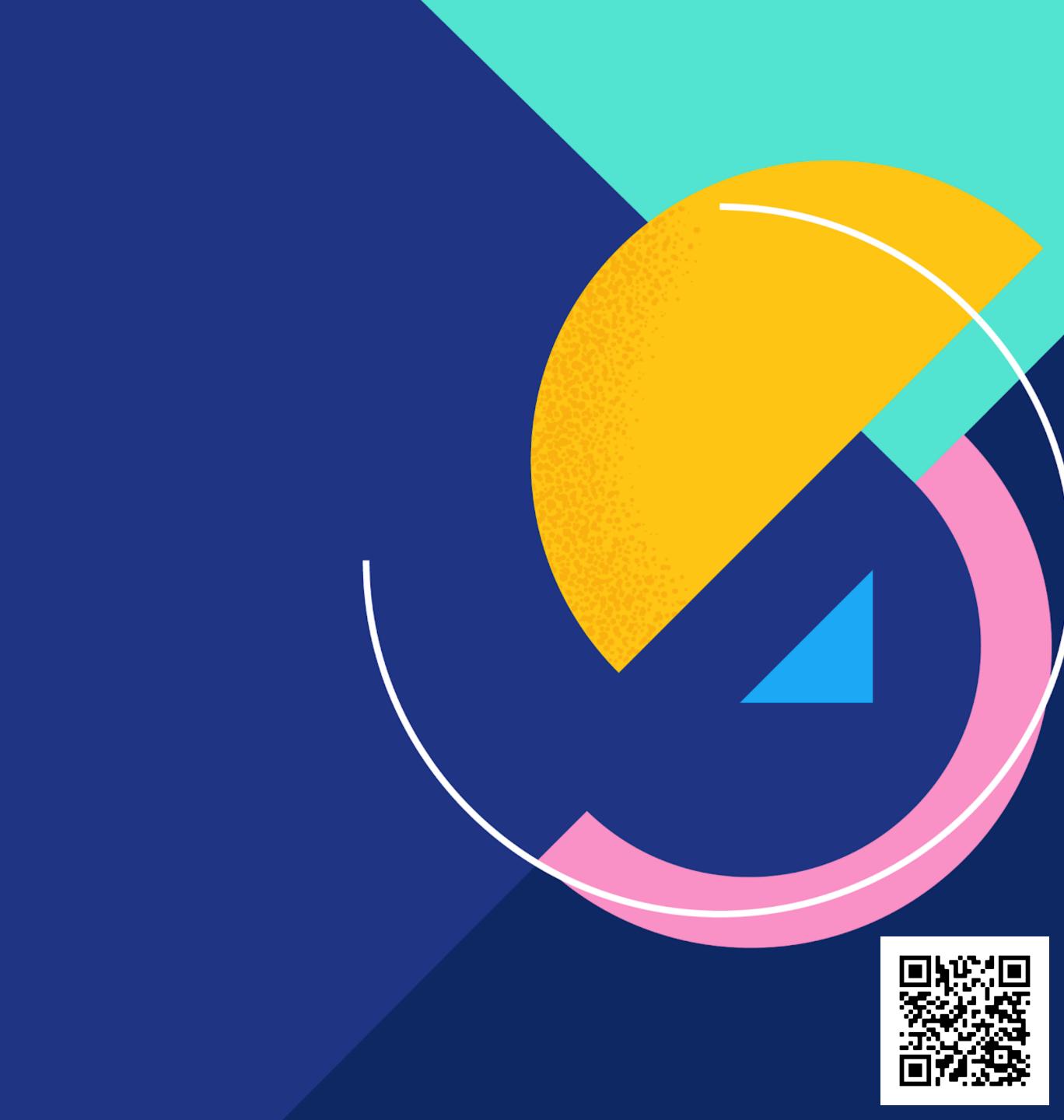
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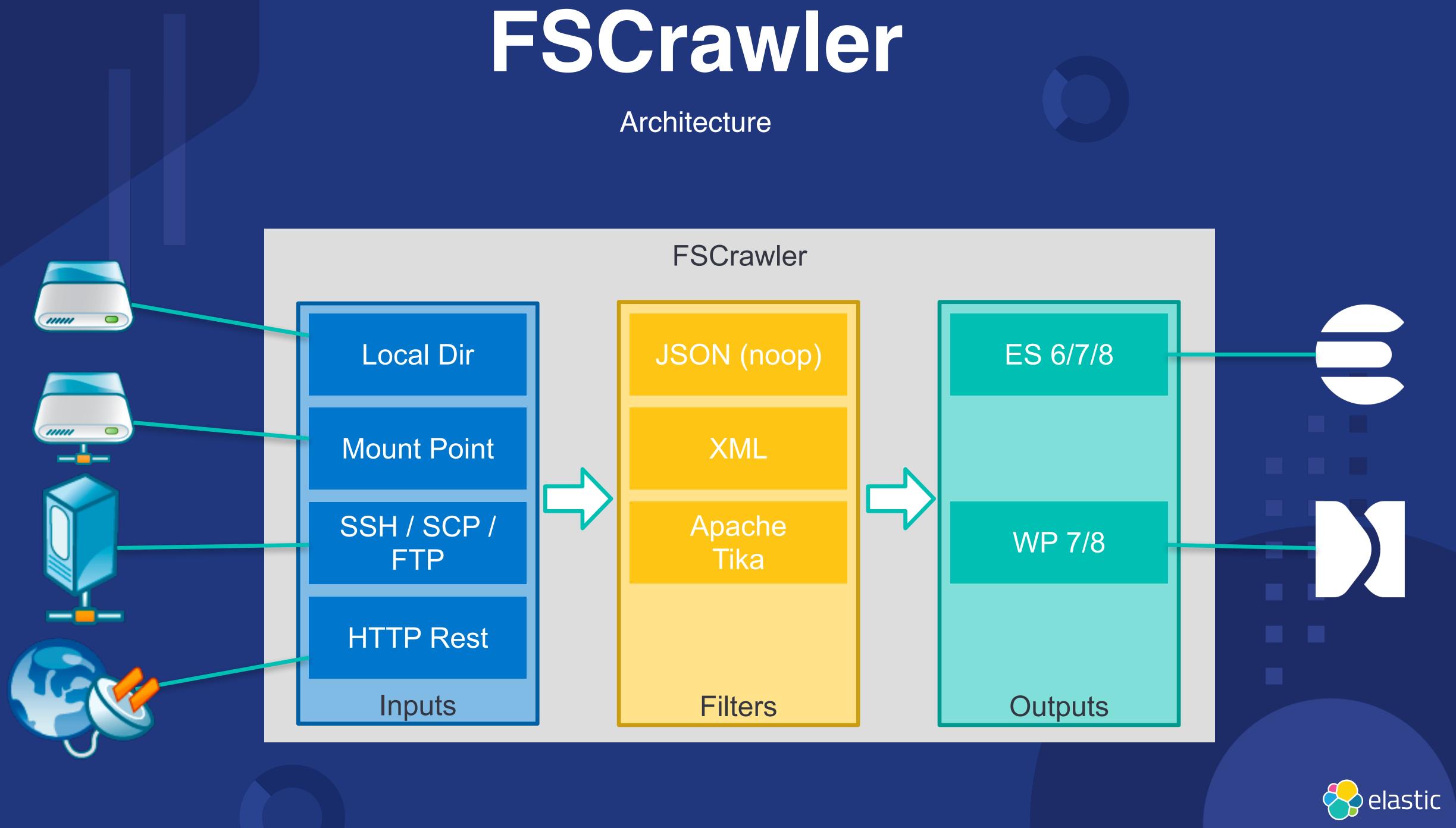






### FSCrawler even better with a UI











### https://cloud.elastic.co





# Network crives connector package for Enterprise Search

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







### PR are warmly welcomed! https://github.com/dadoonet/fscrawler





