



Fluent Bit: A Decade of Seamless Telemetry Data Collection, Processing, and Routing

Fluent Bit: a super fast, lightweight, and highly scalable logging, traces and metrics processor and forwarder. Fluent Bit is an industry standard for Kubernetes and major cloud providers.

New Fluent Bit v4 Capabilities

Head and Tail Sampling for Traces

Fluent Bit now supports head and tail sampling, enabling efficient trace filtering to reduce observability costs while keeping high-value traces.

Flexible processing

Condition-based logic routes data to specific processors based on content matching.

ZIG support

Plugin development now possible in Zig, providing a simpler, high-performance alternative to C for extending functionality.

Security and TLS

Load bearer tokens directly from filesystem for seamless deployments. Customize TLS encryption ciphers for tailored security compliance.

Fluent Bit Favorites

PROCESSING

Built-in SQL Processing

SQL processors for custom transformations.

Prometheus

The Prom exporter allows you to take native metrics and expose them for scraping. Prometheus Remote Write plugin.

Convert Logs to Metrics

Transform log entries into structured metric data for easier analysis and monitoring.

Parsing

Add structure to logs with built-in and custom parsers.

Full YAML Support:

YAML—the standard for Kubernetes configuration—is now integrated into every part of the Fluent Bit pipeline, including parsers, configuration, processors, and settings. This provides a unified configuration language across both Fluent Bit and Kubernetes resources.

OpenTelemetry Support

Fluent Bit includes support for OTel logs, metrics, traces and profiles



ENRICHMENT

Enrich Logs and Metrics with Metadata

Enrich logs with Kubernetes, AWS, Geo IP, custom lists, and labels. Metrics enrichment and metric selectors allow for filtering.

eBPF

Load and run your own eBPF programs to gather events from system calls, functions, and kernel tracepoints. It also includes integrations with CNCF eBPF projects like Falco and Tracee.

EXTENSIBILITY

Lua

Write custom Lua scripts for data processing.

Blob Files

Expand Fluent Bit beyond telemetry data—now users can collect and move large files, including photos and videos, to storage destinations such as Azure Blob.

Route to Multiple Destinations

Collect logs once and route them to multiple destinations, including Kafka, Elasticsearch, OpenSearch, Splunk, Chronosphere, and more.

Custom Plugins with WASM

Extend functionality by writing plugins in WebAssembly (WASM) and Go.

Host Metrics

Monitor system and process metrics from Linux, Windows, and macOS. Metrics and trace filtering.

PERFORMANCE

No Downtime Upgrades

Make code and configuration changes without stopping or restarting applications, by using hot-reload process.

High Performance, Low Resources:

Process terabytes of data daily with minimal resource utilization, built for cloud-native environments.

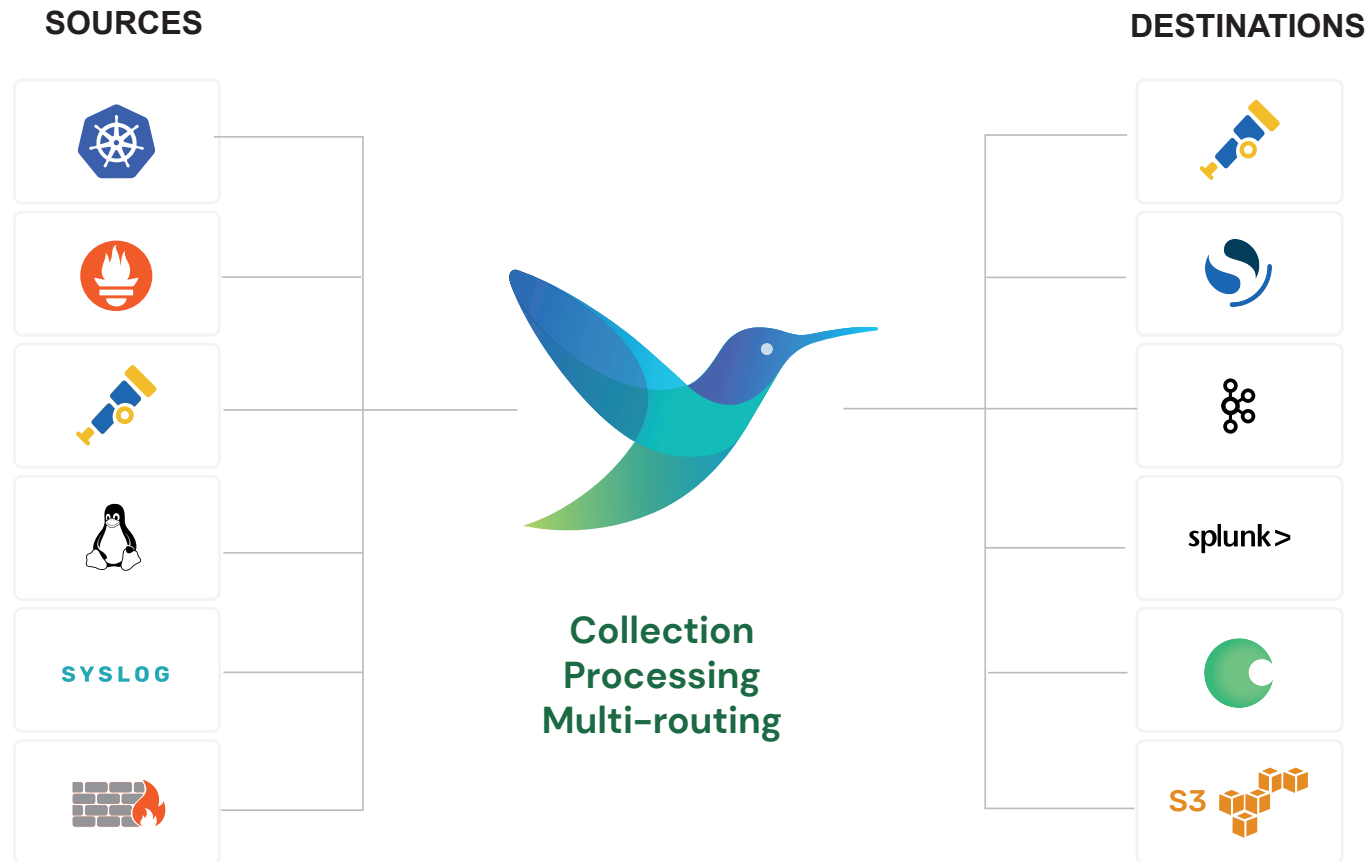
Multithreading

Run threaded input plugins and add workers to output plugins.



Fluent Bit — One agent for all your telemetry data needs

With over 15 billion Docker pulls, Fluent Bit is the industry standard open source telemetry data agent for collecting, processing, routing data from any source to any destination. Trusted by the major cloud providers, Fluent Bit is embedded in major Kubernetes distributions, including those from AWS, GCP, and Azure.



Adopted and trusted by:



Join Fluent Bit Academy

Fluent Bit Academy is your destination for best practices and how-to's on advanced processing, routing, and all things Fluent Bit. Learn about integrating Fluent Bit with OpenTelemetry, Windows, OpenSearch, and more! All available on demand

