Cribl Stream™

**Take Control and Shape Your Data.**
**All of Your Observability Data. All Under Control. All Under Budget.**

Stream allows you to implement an observability pipeline helping you parse, restructure, and enrich data in flight – ensuring that you get the right data, where you want, in the formats you need.

**Benefits**

**FLEXIBILITY**
Add new analytics tools and other destinations without adding agents or collectors.

**CONTROL YOUR DATA**
Route data to the right teams and the right tools. Deploy enterprise-grade security.

**SIMPLIFY OBSERVABILITY**
Use a universal log and metrics router for any tooling environment. Easily visualize observability data flows and port functionality across worker nodes.

**Instrument everything. Observe more. Pay less.**

<table>
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<th>ROUTE YOUR DATA</th>
<th>REDUCE YOUR DATA</th>
<th>COLLECT THE RIGHT DATA</th>
<th>SHAPE YOUR DATA</th>
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<tr>
<td>Put data where it has the most value</td>
<td>Eliminate uninteresting data to control costs</td>
<td>Get data from any source to any tool in the right format</td>
<td>Take data as it comes, shape it into what you need</td>
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Product Features

ARCHITECTURE
- Single binary distribution with zero dependencies
- Shared-nothing, super scalable distributed architecture
- Scales from laptop to 100s of nodes and 10000s of cores
- Highly parallelizable, highly performant platform built for extensibility
- Sub-millisecond latency
- Tested to upwards of 20PB/day
- Deployment Options include:
  - SW including linux binaries, docker containers and helm charts for easy deployment in any K8s environment
  - Cloud provides SaaS experience through Cribl.Cloud, entirely Cribl managed, no infrastructure overhead and scales as needed
  - Hybrid-Leader/Control plane in the cloud and workers performing local processing Integrations
- Over 80 source/destination integrations available out of the box
- Native protocol support for leading sources and destinations of logs, metrics, and traces
- Out-of-the-box TLS support for all integrations that support it
- Out of the box support for IAM and Assume roles (AWS specific)
- Live data capture for integration for troubleshooting and inspection
- Rich logging, metrics and real-time status for each integration
- Baked-in connectivity tests & results for each integration
- Support for arbitrary REST endpoint data collection
- Support for arbitrary Script based data collection
- Support for sending and collecting from all major Cloud PaaS storage services

MANAGEMENT
- Full control of all your observability data from a central control plane
- Enterprise grade authentication support (LDAP, SSO etc)
- Policy-based RBAC for fine-grained permissioning
- Intuitive, rich user interface for distributed system management
- Single, centralized management via cloud or self-hosted software for 100s of groups/nodes
- Dependable configuration version control with ability to revert changes
- Built-in, real-time configuration change validation
- Centralized support for certificate and key management
- Built-in data generators for pipeline and destination testing
- Fully automated and distributed upgrades of all Stream workers
- Leverage external Key Management Services for managing secrets/tokens across all nodes
- Built-in synchronization with external code repositories for CI/CD integrations and disaster recovery

MONITORING
- Notification system alerts operators when data flows have stopped
- Built-in Monitoring covering all aspects of a distributed deployment
- Built-in centralized log search across 100s of groups/nodes
- Rich, visually dense, dashboards built for admins/operators
- Contextual monitoring for all sources and destinations
- Ability to forward full-fidelity internal logs & metrics to external solutions
- Dataflow visualizations provide Birds Eye View of all sources, routes, pipelines and destinations

WORKING WITH DATA
- Interactive, user-friendly, efficient UI for working with streaming data
- Visual authoring, validation and troubleshooting of data pipelines
- Data Preview with instant feedback for visual inspection of events as they're being transformed
- Live capture on multiple points as events travel from source to destination
- Built-in documentation and contextual tooltips help on every screen
- Over 30 out of the box Functions that support arbitrary data transformations, securing and enrichment.
- Over 40 built-in C. function methods for finer processing capabilities
- ... plus all the power of JavaScript for almost-arbitrary data transformations
- IDE-like experience with auto-complete and typeahead assist
- Automatic byte-stream to events conversion/breaking using intelligent rules with optional user overrides
- Automatic timestamp format recognition with optional user overrides
- Timezone recognition and/or correction
- Built-in JavaScript expression editor with live result preview
- Built-in Regex editor with live match & capturing group preview
- Built-in Regex Library for most common regex, extensible
- Out-of-the-box parsing support for many well known data sources
- User-defined data parsers for K=v, CSV, ELFF, CLF, JSON and delimiter based values
- Regex-based field extractions and native Grok pattern support
- Event schema validation support using JSON Schema standard
- Support for Global Variables - re-usable and composable JS expressions that can be referenced by any Function
- Real-time data enrichment via lookup tables. Exact, Regex and CIDR support out of the box
- Support for geop enrichment using Maxmind binary databases
- Packs support for building, packaging and sharing routes, pipelines, data samples, functions internally or with members of the community
- Access to a growing community of Stream Packs with pre-built pipelines, custom functions and other out-of-the-box features for speeding up and improving the value of Stream
- Global search makes finding anything in Stream easy and fast
- Gather live data samples to aid in development of pipelines or to share with teammates working on similar projects.

TECHNICAL REQUIREMENTS

System
- +4 physical cores
- +8GB RAM
- 5GB free disk space (more if PQ enabled)
- Also available as a SaaS solution through Cribl.Cloud

Sizing Guidance
- 1 physical core for each 400GB/day of IN+OUT throughput
  E.g., 4 TB IN -> full 4TB to Destination A, plus 2 TB to Destination B = 10TB total = 25 physical cores.

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