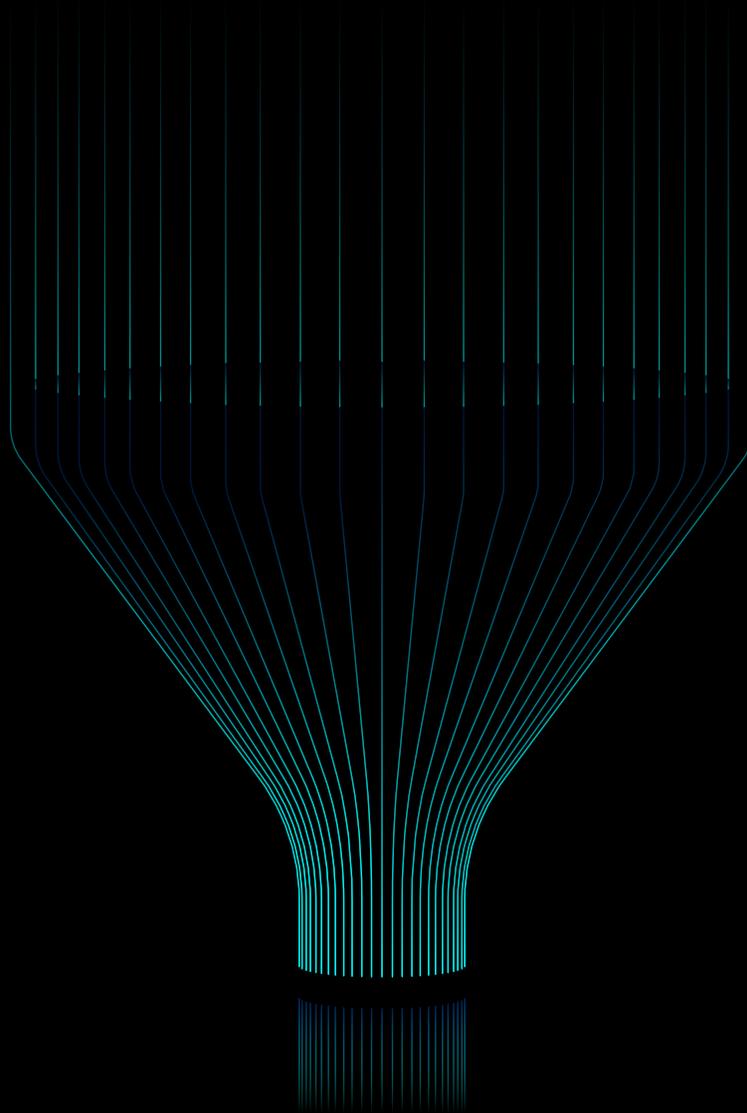# Cribl LogStream™ Data Reduction

THE CHALLENGE

Log data is growing 25%-30% a year. You are anxious about exceeding daily ingest limits, and employ workarounds to stay under the limit. Long-term retention of data in analytics tools is expensive and can slow query performance.

THE SOLUTION

Eliminate up to 50% of ingested log volume to control costs and improve system performance. Eliminate duplicate fields, null values, and data that has little analytical value. Filter events for dynamic sampling, or aggregate log data into metrics. All while preserving the crucial information required by your analytics platforms. Keep a full-fidelity copy in low-cost storage and replay it if needed.

THE BENEFITS

• **Eliminate license anxiety –** control your log volume to reduce ingest

• **Improve performance –** declutter data in your analytics tools for better query and search performance

• **Reduce Infrastructure –** keep less data in logging tools and retain it in object storage for compliance

**SOLUTION BRIEF**

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Cribl LogStream™ Data Reduction

Reducing the volume of your observability data can help you control license compliance, reduce your infrastructure budget, and improve the performance of your analytics tools. Cribl LogStream helps you get control over increasing data volumes by letting you trim unused data. Data that has little to no analytical value can account for as much as 50% of your data. You should never pay to ingest, analyze, or store data that doesn't help you solve your observability or security challenges. Cribl LogStream helps you tune out the noise and focus on the signal.

The Challenge

Logging systems and other observability tools are at capacity. As data continues to grow 25%-30% a year, organizations face ballooning infrastructure costs, and push up against their daily licensing limits. To mitigate these challenges, they engage in data gymnastics to make it all fit – day after day. Adding to this, long-term retention of data in analytics tools can be expensive and can slow the performance of queries and correlations.

The Cribl Solution

LogStream can help you achieve as much as a 30% reduction in data volume with relatively little effort. More aggressive customers can reduce as much as 50% of unused data. Eliminate duplicate fields, null values, and any elements that provide little analytical value. Filter and screen events for dynamic sampling, or aggregate log data into metrics for massive volume reduction. Do all this without worry – you can keep a full-fidelity copy in a low-cost destination for compliance and replay it back to any tool if needed.
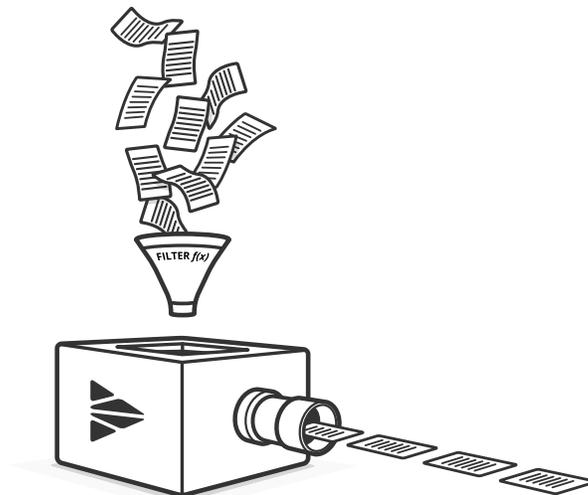
Facets of LogStream™ Data Reduction

LOGSTREAM HELPS YOU CUT OUT THE NOISE AND LETS YOU FOCUS ON DATA WITH HIGH ANALYTICAL VALUE.

ELIMINATE NOISE AND ANALYZE SIGNAL

Over time, observability and security data can become bloated. The same timestamp is recorded 4 different times in 3 different formats, or a paragraph of legal information is appended to every log – adding zero usable information. LogStream helps you cut out the noise and lets you focus on data with high analytical value. Sometimes you've collected verbose log data when all you need is a subset of metrics. For these rare use cases, LogStream lets you aggregate logs into metrics, which can trim data volume by a factor of 1,000 to 1. You can also capture data samples to see the impact of your reduction efforts, and more strategically sample events with redundant or uninteresting information. Cut the noise, and route only valuable data, to eliminate license anxieties and slash infrastructure costs.

IMPROVE PERFORMANCE OF YOUR ANALYTICS SYSTEMS

Analytics tools are often called on to perform "needle-in-a-haystack" style searches or perform correlations of data to look for patterns. The more data these tools have to sift through and analyze, the poorer the performance. LogStream can help your logging tools search through a subset of data with the highest analytical value. When these tools aren't bogged down by all of the clutter of low-value data, they perform much better and require a smaller infrastructure footprint. This can dramatically reduce compute expenditures.

SEPARATE YOUR SYSTEMS OF ANALYSIS AND RETENTION

Analytics tools are great for analyzing data. They don't measure up nearly as well as a destination for long-term retention. Separating the systems where you analyze data in real time from where you store it long-term allows you to keep more data, for longer periods of time, and for a lot less money.

Routing full-fidelity data to lower-cost object storage can be a significantly better choice for long-term retention. Because LogStream can replay this data to any tool at a later point in time, you can reduce the retention period for data in your analytics tools. Drop data after you've made your initial analysis, for better performance and a leaner infrastructure.

Summary

Using LogStream to implement an observability pipeline helps you unlock the value of all of your observability data. LogStream helps you eliminate any data that doesn't provide useful information about the well-being of your applications and systems. Cut up to 50% of your data volume to eliminate license anxiety, improve the performance of your analytics tools, and reduce the size and cost of your infrastructure.

Eliminate unused data and control costs.

ABOUT CRIBL

Cribl is a company built to solve customer data challenges and enable customer choice. Our solutions deliver innovative and customizable controls to route security and machine data where it has the most value. We call this an observability pipeline, and it helps slash costs, improve performance, and get the right data, to the right destinations, in the right formats, at the right time. Join the dozens of early adopters, including market leaders such as TransUnion and Autodesk, to take control and shape your data. Founded in 2017, Cribl is headquartered in San Francisco, CA. For more information, visit **www.cribl.io** or our **LinkedIn**, **Twitter**, or **Slack** community.