

## >SOLUTION BRIEF\_

# Cribl for AIOps.

### THE CHALLENGE

Enterprises deploying AIOps must cope with variability in their data, including inconsistent quality, hundreds of different formats, and data locked into vendor silos.

### THE SOLUTION

Cribl unlocks data from silos and provides a single point for data enrichment, filtering, refinement, and routing to any AIOps platform your team uses.

### THE BENEFITS

- Improve data accuracy and quality in flight.
- Route operational data to multiple AIOps platforms.
- Normalize and enrich diverse data formats.

Deploying effective Artificial Intelligence for IT Operations (AIOps) requires accurate data from across your monitoring infrastructure formatted for your AIOps platforms; Cribl helps make that possible.

### Bridging the AIOps data divide.

AIOps applies machine learning over large amounts of operational data to automate IT operations, including event correlation, anomaly detection, and causality determination. IT teams are exploring AIOps for several reasons, like reducing alert fatigue, proactively detecting performance problems, and avoiding outages. Many of those teams are searching for an all-in-one AIOps solution that does it all. The challenge these teams face isn't with the predictive algorithms and models. Instead, their challenges are more practical concerns around collecting, normalizing, and routing data to the right places.

AIOps tools need to ingest and index data from multiple sources. These include infrastructure, networks, applications, a range of monitoring tools, and deployed software agents. All data from these diverse sources must be normalized before it can be used for either real-time analytics over data in flight or for historical analysis over larger datasets at rest. Successfully deploying AIOps into the enterprise means managing three core constraints: volume, accuracy, and precision.

### The three core constraints of a successful AIOps deployment:

#### Volume.

Vast amounts of operational data flow out of systems in hundreds of different formats over dozens of protocols, but today's operational data isn't sufficient for effective AIOps. Even with major cloud services collecting terabytes and petabytes of data, there's still a shortage of high quality, representative data necessary for AIOps.

#### Accuracy.

With the variety of data sources consumed, ensuring consistent data quality and integrity is essential to model performance. Data quality impacts all types of artificial intelligence projects, not just AIOps. According to a recent survey, 87% of data professionals are concerned about data quality impacting their AI implementations.



A vendor-neutral collection, reduction, enrichment, and routing system for IT and security data.



An intelligent, scalable, edge-based data collection system for logs, metrics, and application data.



Perform federated “search-in-place” queries on any data, in any form.



A simplified data lake solution to easily store, manage, and access data.

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## Precision.

Model iteration is an important part of AI implementation. Successful iteration not only requires running multiple tests with the same parameters and data sets, but it also involves evaluating the variability between tests to ensure ongoing precision of the tools you’re putting in place. Without effectively managing the volumes of data and ensuring their accuracy, your AIOps tools can’t achieve reliable levels of precision.

## The benefits of driving AIOps with Cribl:

### Improve data accuracy and quality in flight.

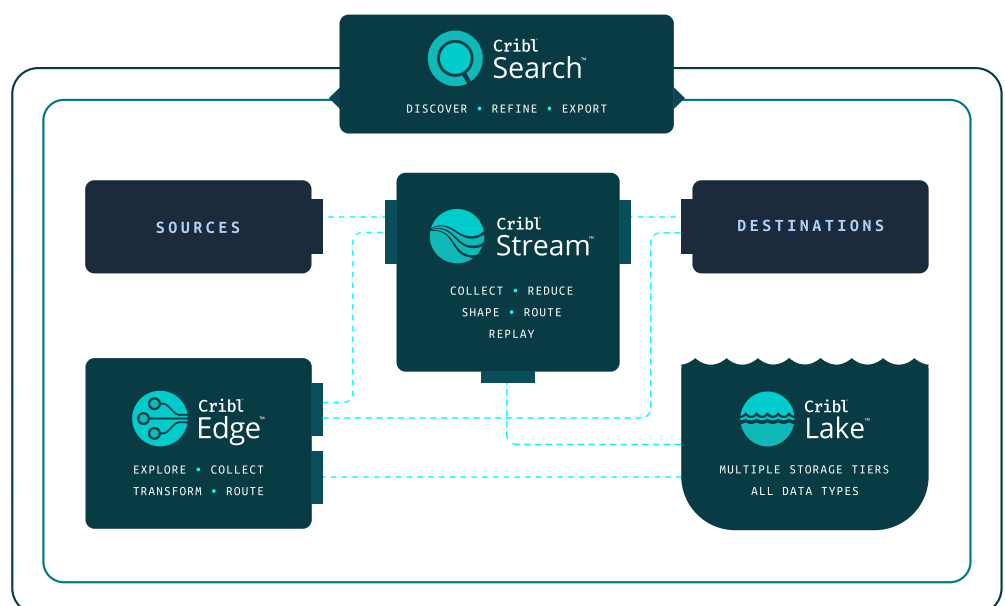
Reduce ingestion volumes to deliver higher accuracy data to AIOps platforms by removing unnecessary data and fields from events, logs, metrics, and telemetry data. This also controls infrastructure costs since there’s less data to store, and higher quality data improves model precision. Users can easily eliminate duplicate fields, null values, and any elements of machine or security that provide little value to downstream AIOps models.

### Route operational data to multiple platforms.

AIOps isn’t the only use case for your operational data. Log analytics, application performance management, and security operations platforms still need rich troves of data. Cribl allows you to route data to your existing and future platforms, without deploying new agents or sidecars. Use your current monitoring infrastructure to drive new use cases without abandoning existing use cases.

### Normalize and enrich diverse data formats.

Simplify normalizing hundreds of different input formats emitted from applications, system infrastructure, and networking equipment. You can also enrich data in flight, creating a higher value data product.



**Cribl, the Data Engine for IT and Security, empowers organizations to transform their data strategy. Analyze, collect, process, and route all IT and security data, delivering the choice, control, and flexibility required to adapt to their ever-changing needs.**

## Summary.

In their quest to improve IT operations, many companies are turning to AIOps platforms. These platforms need a diverse set of high quality data to be successful. Cribl, the Data Engine for IT and Security, empowers organizations to transform their data strategy. Analyze, collect, process, and route all IT and security data, delivering the choice, control, and flexibility required to adapt to their ever-changing needs.

Cribl benefits AIOps use cases by:

- Liberating data from monitoring silos without needing new agents.
- Managing and reducing data volumes with redaction, filtering, and routing.
- Normalizing and enriching diverse data formats.
- Sending data to multiple platforms, helping realize the full value of your available data.

## With its focus on machine data, Cribl unlocks AIOps opportunities.

To get started with Cribl, [download](#) it free today. The Cribl [Slack Community](#) is also a great place to connect with leaders from other teams leveraging Cribl and AIOps platforms such as Datadog and New Relic.

## ABOUT CRIBL

Cribl, the Data Engine for IT and Security, empowers organizations to transform their data strategy. Customers use Cribl's vendor-agnostic solutions to analyze, collect, process, and route all IT and security data from any source or in any destination, delivering the choice, control, and flexibility required to adapt to their ever-changing needs. Cribl's product suite, which is used by Fortune 1000 companies globally, is purpose-built for IT and Security, including [Cribl Stream](#), the industry's leading observability pipeline, [Cribl Edge](#), an intelligent vendor-neutral agent, [Cribl Search](#), the industry's first search-in-place solution, and [Cribl Lake](#), a turnkey data lake. Founded in 2018, Cribl is a remote-first workforce with an office in San Francisco, CA.

Learn more: [www.cribl.io](http://www.cribl.io) | Try now: [Cribl sandboxes](#) | Join us: [Slack community](#) | Follow us: [LinkedIn](#) and [Twitter](#)

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