Cribl

INDUSTRY SOLUTION BRIEF

Cribl LogStream™ *for* AIOps

INDUSTRY CHALLENGES

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

THE SOLUTION

An observability pipeline, like Cribl LogStream, 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

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

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Cribl LogStream™ *for* AIOps

Deploying effective Artificial Intelligence for IT Operations *(AIOps)* requires accurate data from across your monitoring infrastructure formatted for your AIOps platforms; an observability pipeline makes 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.

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 telemetry 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.

PRECISION

The final constraint relates to model quality and performance. 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 LogStream

IMPROVE DATA ACCURACY AND QUALITY IN FLIGHT

LogStream can reduce as much as 50% of ingested operational data, delivering 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. LogStream customers 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. LogStream is the only solution that 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

Because Cribl LogStream is built for operational and observability data, it simplifies normalizing the 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 for your AIOps and observability needs.

CRIBL LOGSTREAM IS AN OBSERVABILITY PIPELINE THAT RESTORES CONTROL OVER YOUR DATA; IT WORKS WITH ANY TOOLING AND ANY VOLUME OF OBSERVABILITY DATA.

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 LogStream is an observability pipeline that restores control over your data; it works with any tooling and any volume of observability data. This makes it the perfect complement to your AIOps initiatives.

Cribl LogStream 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 the range of data formats used in operational and observability*
- *Sending data to multiple platforms, helping realize the full value of your available data*

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

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

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 observability 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.