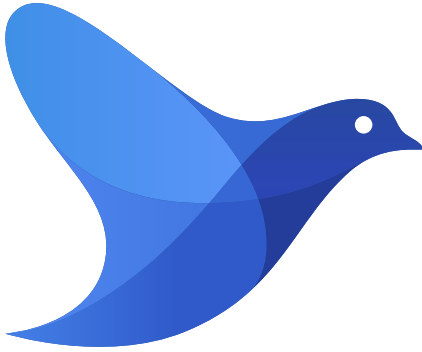**TREASURE DATA**

Fluentd Enterprise

## Make Cloud Based Operations Manageable With Unified Logging

By now it's clear, cloud computing is part of nearly every enterprise's application infrastructure. 451 Research estimates that, as of 2016, 41% of enterprise workloads run on public or private cloud, and the number is expected to rise to 60% by 2018.

Cloud operational models introduce new challenges that require IT organizations to use data differently, to use data as a proactive strategic asset vs. data that drives historical reporting.   Much of the data that needs to be analyzed is log data which is generated at a pace and volume that traditional approaches struggle to handle in a cost-effective manner. It is increasingly clear that organizations that can **unify and scale log collection and management are better positioned to fully realize the cost, scale, and agility advantages of cloud computing.**

A single, unified logging layer is key to make log data accessible and usable. However, existing tools fall short: legacy tools are not built for new cloud APIs and microservice-oriented architecture in mind and are not innovating quickly enough.   Fluentd, created by Treasure Data, solves the challenges of building a unified logging layer with a modular architecture, an extensible plugin model, and a performance optimized engine. In addition to these features, Fluentd Enterprise addresses Enterprise requirements such as Trusted Packaging, Security, Certified Enterprise Connectors, Management / Monitoring, and Enterprise SLA-Based Support, Assurance, and Enterprise Consulting Services.

Before Fluentd Enterprise
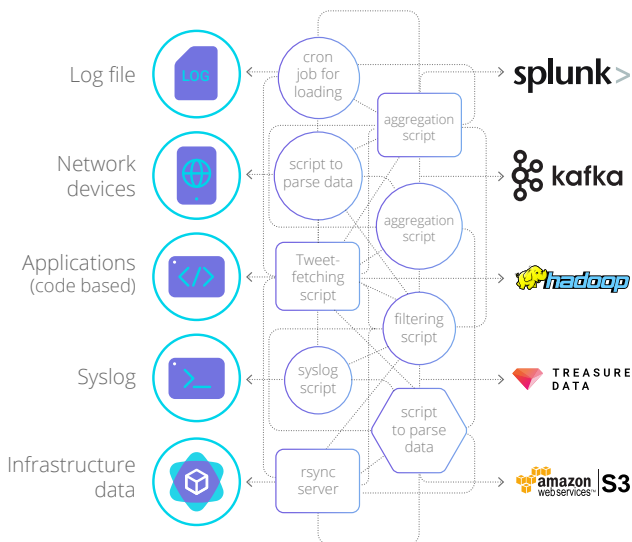
After Fluentd Enterprise
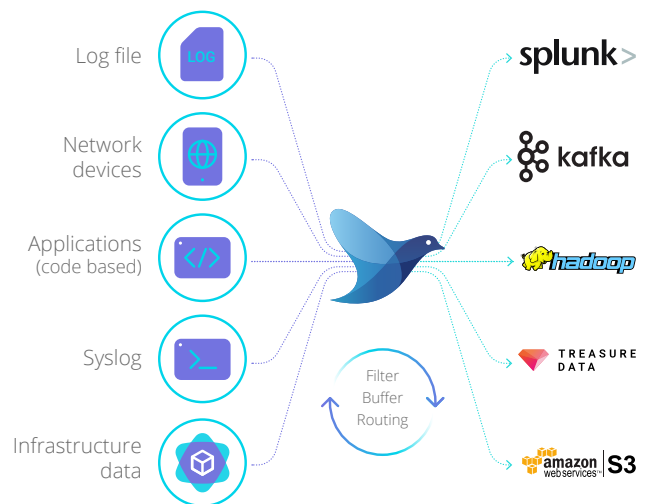
Trusted Packaging

Treasure Data scans Fluentd Enterprise and all down level components for vulnerabilities before packaging it up as a single, easy-to-deploy binary (Fluentd Enterprise release). These down-level packages include the runtime framework (Ruby), event handler (Cool.io), data serialization (MessagePack), and Fluentd engine itself. The value in Fluentd Enterprise Trusted Packaging means that if a security flaw is discovered anywhere in the stack, Treasure Data makes appropriate changes quickly and reliably while maintaining integrity and compatibility of the entire stack.

Security

Security is paramount when logging data from potentially tens of thousands of endpoints including firewalls, network devices, applications, web servers, infrastructure, and infrastructure services (such as PaaS) and forwarding to multiple destinations. As an example, a feature that makes unified logging with Fluentd of high quality is the ability to buffer and retry in the case of intermittent endpoint connections. With Fluentd Enterprise, data buffered at the endpoint is encrypted at rest with AES 256-bit government-level encryption giving Enterprises end-to-end security for their unified logging.

Enterprise Certified Connectors

When building a unified logging layer you need to ensure that you have the ability to route data to the destinations you need without having to worry about being locked into a single vendor. Fluentd Enterprise offers you flexibility in routing data to multiple type of backends, choosing end destination based on content, and even modifying streams of data to multiple backends at a time.

Fluentd supports data output to schema-less backends, syslog search, data archiving, schema-full backends, middleware, monitoring systems, notification systems, and the like. Fluentd can be configured to route to a destination based on log content, and streams may be modified to route to multiple backends simultaneously.

With Fluentd Enterprise, Treasure Data provides Certified Enterprise Connectors that have been optimized for specific destination systems and tested / benchmarked for maximum performance. You can have confidence relying on Enterprise Certified Connectors as backend tools continue to evolve and update over time. We continue to add more Enterprise Certified Connectors as the adjacent ecosystem evolves to ensure that your logging layer is always ready for future needs.

Enterprise Certified Connector	Description
Amazon S3 Connector	This connector allows you to quickly, reliably and securely store and archive data into S3. In addition, this plugin features support for Amazon security features such as server side decryption.
Splunk Connector	This connector allows you to send data to Splunk (on-premises and cloud). Fluentd Enterprise allows you to perform in-stream filtering to pre-process data for better performance (faster processing and more economic throughput)
Kafka Connector	The Kafka connector allows you to stream data from Kafka topics, as well as output data to Kafka topics.
Hadoop File System (HDFS) Connector	HDFS is the most popular open source distributed filesystem and forms the backbone of every Hadoop distribution. This connector allows you to centralize data in HDFS for further processing by Apache Hadoop tools like Presto, Apache Spark and Apache HIvemall.
Treasure Data	Treasure Data is a Customer Data Platform that makes customer data more connected, live and actionable. Treasure Data is the inventor and primary sponsor of the open source Fluentd.

Management / Monitoring

Fluentd Enterprise is compatible with popular operations management tools such as Puppet, Chef, and Ansible, making deployment and maintenance of Fluentd Enterprise in Enterprise operational frameworks easy. Furthermore, Fluentd Enterprise provides real-time metrics around buffer performance and other internal functions. These metrics are easily consumed by popular monitoring tools for anomaly detection and alerting.

How to Buy

Fluentd Enterprise is available in two editions: Gold or Platinum:

	Open Source	Gold Plan	Platinum Plan
Fluentd Core, Fluent Bit Core, community plugins	✔	✔	✔
Fully secured, memory-optimized, cross-platform packages		✔	✔
Enterprise Certified Connectors		✔	✔
Monitoring		✔	✔
Management			✔
Support level		Business hours	24/7/365
Additional services		Consulting & training	Consulting, training & custom connectors

fluentd
enterprise

For further details on Fluentd Enterprise, check out
www.treasuredata.com/fluentd-enterprise/

For tailored pricing for your environment, please contact
sales@treasuredata.com