



ENTERPRISE & SCALABLE STREAMING PLATFORM

Build, Deploy and Govern scalable
Apache Kafka-based stream applications



LENSES V1.1
PRODUCT DATASHEET



LENSES SQL ENGINE

REST/WS Endpoints

Auditing & Alerting

- Native Kubernetes processing
- 25+ Kafka Connectors
- Query real time data streams, JS/BI integrations

LENSES is a management platform for streaming data with Apache Kafka. Built and operated in production systems in various industries ie. Finance, IoT, Retail, ect. Lenses supports the core elements of Kafka with a rich user interface, endpoints and vital enterprise capabilities that enable engineering and data teams to query real time data, create and monitor Kafka topologies with rich integrations with other systems.

- First enterprise grade SQL Engine over Kafka
- First native Kubernetes integration for streaming apps
- First Topology visualisations over Kafka

WHY LENSES

- Faster deliveries, complement your existing skills and tools
- Organise and deploy your streaming data flows, at scale
- Gain valuable real-time insights for your business

Lenses Documentation at <https://lenses.stream>

OVERVIEW

ANALYSE

- Query Real Time and Batch Data in Kafka with Lenses SQL
- Allow your teams to get complete control of the data, via Lenses web interface, Rest APIs, Web Sockets, Frontend libraries, Data science notebooks
- Role based access to data, including no-data roles to align with data protection regulations, and security systems integrations like LDAP

PROCESS

- Register stream processors to Kafka via the scalable Lenses SQL engine
- Minimise the development effort of a streaming app at scale by integrating with Kubernetes
- Visualise the topologies to get a full understanding of your data flows.
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CONNECT

- Connect your Kafka streams from / to any data store choosing from a collection with over 25 connectors for source and sink systems
- Leverage Lenses SQL capabilities embedded in our connectors to simplify field selection, filtering and target system special features

MONITOR

- Audit user operations in Kafka and get a full lineage of your cluster.
- Get alerts and notifications for major cluster operations but also monitor consumer apps.
- JMX metrics organised and templated in a grafana/prometheus setup with explanations and hints for the operational cluster monitoring but also the client applications.

APACHE KAFKA DISTRIBUTIONS

APACHE KAFKA

Apache Kafka 0.10.2.0+

CONFLUENT

Confluent Platform 3.2.1+ with Apache Kafka 0.10.2.0+

CLOUDERA

Cloudera Manager 5.9.x - Cloudera Distribution of Kafka 2.2.0 - Based on 0.10.2.0+

Cloudera Manager 5.13.x - Cloudera Distribution of Kafka 3.0.0 - Based on 0.11.0

HORTONWORKS

HortonWorks HDP 2.6.1+ Apache Kafka 0.10.1.1+

MANAGE, SECURE, AND GOVERN YOUR DATA

SECURITY LDAP, Kerberos, TLS Certificates, Role based access

CLIENTS JDBC, ReduxJS, Java, Python

DATA LINEAGE Auditing, Processor & Application Topology, Schema Management

ETL READY 25+ Landoop Kafka Connectors to simplify your streaming ETL data pipelines

MONITOR 150+ Key Indicator metrics of your infrastructure, continuously monitored, 60 Days low level infrastructure metrics

ALERT Setup and Receive alerts

KEY FEATURES

FEATURE	DESCRIPTION	LENSES SANDBOX	LENSES TRIAL	LENSES ENTERPRISE
Manage Data				
LENSES SQL Engine	Best-in-class SQL engine for Kafka that integrates to Query, Analyse, Process and Connect Data in motion and in batch. Docs	✓	✓	✓
View Data	Query and Analyse streams of data straight from Lenses interface, REST and WebSocket endpoints.	✓	✓	✓
Topic and Partitions 360 view	Manage topics and AVRO schemas, update topic configurations. Identify the leader broker of the partition, visually verify that messages are evenly distributed, all replicas are in-sync and brokers share the load. Video	✓	✓	✓
Security				
Role Based Access	Lenses supports role base authorisation to protect your cluster and your data, especially in a multi-tenant environment.		✓	✓
Basic Authentication	Token based authentication scenarios		✓	✓
LDAP	Integrate via memberOf or pluggable LDAP, or AD (Active Directory) and provide the people in your organization role based access to Kafka streaming data		✓	✓
Kerberos	JaaS, Utilise Kerberos Authentication, Authorization		✓	✓
TLS Certificates	Authenticate and Authorise Clients and Application via signed TLS certificates.		✓	✓
ACLs	Manage Access Control Lists (Kafka ACLs) via Lenses interface		✓	✓
Lineage				
Auditing	All 'Create, Update, Delete' (CRUD) user actions on: topics, configurations, connectors, processors, schemas are fully audited - Who did what and when	✓	✓	✓
Data Schemas	Additional role-based security layer and access right to changing Schemas.	✓	✓	✓
Topology	Application / Topology level view of data-pipelines, highlights relations of data with private or GDPR regulated data.	✓	✓	✓
ETL Ready with Stream Reactor				
Change Data Capture	Extract Change Data Capture (CDC) events from MainFrame or RDBMS via bin-logs. Video	✓	✓	✓
Source Connectors	Bring data onto Kafka from multiple sources: Twitter, Blockchain, MQTT, JMS, RDBMS, FTP, File location, Yahoo, Bloomberg, Blockchain, Cassandra, CoaP, ReThink Docs	✓	✓	✓
Sink Connectors	Popular distributed NoSQL and caching systems: Cassandra, DocumentDB, Elastic Search, SolR, HDFS, RDBMS, HazelCast, InfluxDB, MongoDB, HBase, Kudu, Redis, Pulsar, VoltDB, Rethink and others. Docs	✓	✓	✓
Micro-service Ready				
JSON	JSON messages are treated as first-class citizens.	✓	✓	✓
AVRO	AVRO messages, accommodate for schema evolution, and enforce a data contract on your messages, being a fast and useful data serialization.	✓	✓	✓

Contact us at info@landoop.com or www.landoop.com/contact-us

FEATURE	DESCRIPTION	LENSES SANDBOX	LENSES TRIAL	LENSES ENTERPRISE
Stream Processing				
In-Process	Excellent for the Development environment. Can run up to 30 SQL processors and up to 1 M messages / second. Docs	✓	✓	✓
Native scale via Connect Workers	Distribute your stream-processing jobs to Kafka-Connect clusters. Lenses SQL stream processors provide a native integration with Connect workers to scale up or down. Video			✓
Native scale via Kubernetes	Run and manage your data stream processing application within Kubernetes. Lenses SQL stream processors provide a native integration with Kubernetes to scale up or down. Video			✓
Deployment Options				
OS	Linux, Mac, Windows	✓	✓	✓
Containers	Docker, Kubernetes, Openshift	✓	✓	✓
Operational Kafka Monitoring				
Prometheus Exporters	Templated agents for exporting critical key-metrics of the infrastructure, and reporting to Prometheus.			✓
Grafana Templates	Collection of Grafana templates, curated over 2 years with suggestions and additions from our clients in production environments.			✓
Service & Support				
Professional Services			✓	✓
Enterprise Support				✓

ABOUT LANDOOP

Landoop, creator of Lenses, brings the fastest and simplest ways for companies to get complete control of their data and transform the way teams collaborate to access, process, analyse their data streams.

Landoop provides enterprise grade software products but also has contributed more than 35 open source components related with Apache Kafka technologies, and we are continuously open sourcing parts of our work. With over 200,000 downloads of our containers the past year, we would like to thank our community for participating into making better software. We are strong supporters of Apache Kafka - as well as the Cloud Native Computing Foundation projects: Kubernetes & Prometheus.

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