Cloudera SDX

DELIVERING CONSISTENT DATA CONTEXT IN A HYBRID ECOSYSTEM

- Cloudera SDX provides enterprise-grade security and governance on all data and metadata, with dedicated, integrated interfaces to manage it. Data security and governance policies can be set once and consistently enforced everywhere, reducing operational costs and business risks while enabling complete infrastructure choice and flexibility.

- SDX's Data Catalog provides a single pane of glass for both administrators and end users alike. Data stewards can profile and classify data as well as create data access policies based on classification and audit adherence for complete visibility and traceability of sensitive and regulated data. For data users, the Data Catalog provides a self-service portal to find and share relevant, trusted business information with full access to profiling insight, data lineage and business glossary.

Organizations today are leveraging data to drive more efficient processes and more effective outcomes. The highest value use cases rely on a variety of data analysis capabilities working in concert, yet this can be hard to achieve in a fragmented IT ecosystem. In a hybrid and multi-cloud world, organizations need data context – a single, coherent way to view and manage data processes across multiple architectures.

A critical part of Cloudera Data Platform (CDP), Cloudera SDX (Shared Data Experience) delivers data context in support of greater security, governance, and intelligence. It offers:
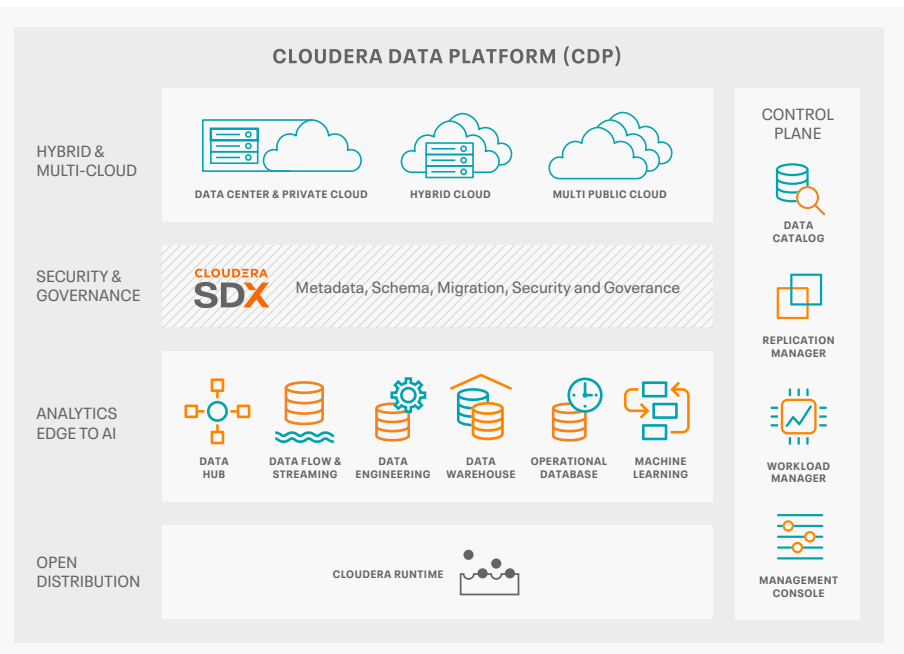
- Granular security across the platform and its data
- Consistent governance in support of auditing and transparency
- Intelligent insights into data, wherever it may reside and however it may be utilized

Data in Context

Cloudera SDX applies centralized, consistent data context services across all platform deployments, enabling hundreds of different workloads to run against shared or overlapping sets of data.

SDX offers organizations a single means through which to derive business insights and apply data governance. As such, it helps to reduce the operational costs and IT staff overhead associated with advanced data uses, while lowering security risks and improving the end-user experience. As SDX sits within the platform infrastructure, it reduces security risk both for data at rest and data in use.

DATA CONTEXT: A SINGLE, COHERENT WAY TO VIEW AND MANAGE DATA PROCESSES ACROSS MULTIPLE ARCHITECTURES

About Cloudera

At Cloudera, we believe that data can make what is impossible today, possible tomorrow. We empower people to transform complex data into clear and actionable insights. Cloudera delivers an enterprise data cloud for any data, anywhere, from the Edge to AI. Powered by the relentless innovation of the open source community, Cloudera advances digital transformation for the world's largest enterprises.

Learn more at cloudera.com

Functions and Benefits

Key functions and benefits of SDX include:

- **Enterprise-Strength Security:** Standardize and enforce granular, dynamic, role- and attribute-based security policies. Prevent and audit unauthorized access to sensitive or restricted data across the platform. Encrypt data across the stack at rest as well as in motion and manage encryption keys.

- **Governance & Compliance:** Identify and manage sensitive data and effectively address compliance requirements with unified data management operations, including metadata search, lineage and chain of custody, data access auditing as well as classification, profiling and business glossary.

- **Shared Intelligence:** Gain insight on how data and workloads are used across the platform to drive continuous optimization as well as unlock deeper data insight and value.

SDX in the Cloud

Organizations need a way to deploy analytics for the data lifecycle on cloud resources without sacrificing consistency and control of data security and governance in on-premises deployments. SDX makes this easy, providing consistent data context across all cloud and data center deployments.

In the absence of this automatic contextualization, workloads tend to degenerate into silos of isolated policies, with sporadic or haphazard enforcement. In such scenarios, enterprise IT is overburdened, working to implement, reproduce, and manage governance and security policies for the heterogeneous analytics systems and applications across diverse architectures.

An always-on service implemented using powerful open-source projects, SDX gives IT the ability to enforce consistent security and governance and glean valuable business intelligence, regardless of where the data lives or how it is used. It breaks down silos, operating seamlessly across cloud and data center deployments.

With data in context, SDX enables businesses to manage performance at a high level. Intelligent insight enables data stewards to see how different workloads are performing and to readily spot the outliers. This information helps the platform make recommendations for improvement and can even apply automatic fixes to restructure underperforming processes.

With data context, analytics are deployed faster, more economic, and more resilient. Ongoing observation allows for continuous optimization and improvement.

As part of CDP, SDX empowers enterprises to own the data lifecycle in its entirety, no matter its location or application, from edge to AI. With better and consistent security, governance, and intelligence, organizations can put their data to work faster and more cost effectively, maintaining close control over security and governance, and ultimately driving improved business outcomes.

Learn more at cloudera.com/sdx

CLOUDERA