

Cloudera Data Platform with IBM

Manage and secure the data lifecycle from
the edge to AI in any cloud or data center

Cloudera products are used by:



8 of the top 10 global banks



All top 10 global telcos



All top 10 global auto manufacturers



9 of the 10 global pharma companies



8 of the 10 global technology companies¹

Any cloud: public, private and hybrid

Optimized for hybrid cloud, CDP delivers the same data management and analytic capabilities seamlessly across private and public clouds. Companies can provision a data management and analytic solution in the environment of their choice. CDP separates data management from infrastructure strategy, enabling companies to move data and apps from one environment to another without rewriting applications and retraining personnel. These environments have varying degrees of scalability, flexibility, and cost efficiency.

CDP helps ensure that businesses are able to choose the environment that makes the most sense for their use cases (e.g. data privacy regulations and types of analytics required), business objectives (e.g. speed of deployment and cost efficiency) and technical considerations (e.g. source and location of data and required elasticity).

Data lifecycle integration: From the edge to AI

The integration of streaming, analytics and machine learning—the data lifecycle—is now recognized as a prerequisite for nearly every data-driven business use case. With CDP, companies are able to connect disparate workloads to develop critical apps on one data management platform to address current and future workload needs. By enabling companies to get control of data across all environments, companies are able to master the data lifecycle to get insights that improve productivity and continue their transformation to being data-driven organizations.

Secure and governed

Cloudera's Shared Data Experience (SDX) offers consistent data security, governance, and control across the data lifecycle and across all environments while mitigating risk and costs. It provides data access policies and state information (e.g. metadata, data lineage, metrics and audit trails) as an always-on layer in CDP to meet the needs for ever-increasing regulatory compliance, reduce business and security risks in handling sensitive data, and provide safe and agile self-service access to data and analytics. With SDX, enterprises set data access controls and policies once and they are automatically and seamlessly enforced across data and analytics in hybrid as well as multi-cloud deployments, even as data and workloads move between them.

100% open

The foundation of CDP is composed of open source software (Cloudera Runtime) under either Apache or AGPL licenses. This approach delivers enterprise-grade software that fosters innovation and prevents vendor lock-in. This open source foundation enables CDP to be interoperable with a broad range of analytic and business intelligence applications. The interoperability helps minimize the expense and effort required to connect customers' IT infrastructures with CDP's data and processing capabilities. With CDP, customers can preserve their investment in existing IT architecture as they deploy, integrate and work with unprecedented volumes of structured and unstructured data.

Features of Cloudera Data Platform

There are a number of notable features within Cloudera Data Platform:

Data flow and streaming

Ingest, curate, and analyze data for key insights and immediate actionable intelligence using a highly scalable, real-time streaming analytics solution.

Data engineering

Enrich, transform and cleanse data, making it easy to create, execute and manage end-to-end data pipelines.

Data warehouse

Ingest large-scale data anywhere from structured, unstructured and edge sources into an auto-scaling, highly concurrent and cost-effective analytics service.

Operational database

Serve traditional structured data alongside unstructured data from a real-time, scalable database within a unified open source platform.

Machine learning and AI

Provide enterprise data science teams access to business data and the tools and computing resources required for end-to-end machine learning workflows.

Data hub

Run a wide range of custom analytics with a suite of integrated open-source technologies in a traditional cluster-based environment.

Control plane

Easily monitor, orchestrate and administer data in hybrid and multi-cloud environments through a centralized dashboard.

Shared data experience

Provide comprehensive data privacy, compliance and regulation across the data lifecycle and all clouds.

Why CDP?

CDP is a data cloud built for the enterprise. With CDP, your businesses can better manage and secure the end-to-end data lifecycle—collecting, enriching, analyzing, experimenting and predicting with their data, to drive actionable insights and data-driven decisions. Three of the main reasons enterprises choose CDP are:

Lower total cost of ownership

CDP offers an integrated data lifecycle, eliminating ongoing orchestration and integration development work required to implement business use cases with individual data or analytics services from cloud providers.

Stronger security

CDP SDX provides comprehensive security functions across the data lifecycle to secure data and keep it secure. SDX incorporated identity management, DNS, kerberos, TLS, web proxies, storage encryption, SSO, cloud storage authorization, audit, lineage, data stewardship, context preserved replication and workload optimization. Other vendors provide a subset of these security capabilities and an even more limited set of integration across the lifecycle.

Run anywhere

CDP runs analytic workloads on multiple public clouds, on-premises private clouds or a combination of each for hybrid cloud with a consistent user and IT administration experience. Single cloud providers can't match this flexibility, which is critical for data governance, performance and geographic coverage.

Why IBM for CDP?

IBM builds data management products with the AI, hybrid and multi-cloud future in mind. Its enterprise-grade solutions are designed for robust integration across security-rich environments. To assist with your data lake needs, IBM provides value-added offerings including products, services and multi-vendor support.

For more information

To learn more about Cloudera Data Platform, please contact your IBM representative or IBM Business Partner, or visit ibm.com/analytics/partners/cloudera.



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New Orchard Road
Armonk, NY 10504

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- 1 According to Cloudera brochure, “We deliver an enterprise data cloud for any data, anywhere, from the Edge to AI” from 2019.

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