Simple, Secure, Integrated and Performant Big Data Platform for the Cloud
Oracle's Big Data Cloud delivers a Big Data Platform designed for the enterprises using open source technologies like Apache Spark and Apache Hadoop. It utilizes Oracle's Infrastructure Cloud Services to deliver a managed, secure, elastic and integrated Platform for all Big Data Workloads.

Benefits:
- Spin up a new Apache Hadoop or Apache Spark Cluster or an entire Big Data Analytics stack in minutes
- Scale-up/down manually or automatically based on KPI based policies
- Launch multiple clusters to analyze the data in a centralized Data Lake
- Centralized Identity and Access management through Identity Cloud Service
- Consume the same service on-premise through Cloud@Customer or on Oracle Public Cloud
An **Open Platform** built on **Open Source** Technologies

Oracle’s Big Data Cloud delivers a curated list of the best Open Source Big Data Technologies stitched together as a coherent platform.

The service provides customers with a choice of open source technologies for maximum portability along with Oracle developed innovations to deliver superior performance and security.
Only from Oracle

Key Differentiators

Oracle Big Data Cloud combines Open Source technologies along with unique innovations from Oracle to deliver a comprehensive Big Data Platform which is designed for the enterprise and built for the cloud.

While providing out-of-the-box integrations with Oracle’s Analytics stack, the service exposes standards based interfaces for 3rd party software.

Public Cloud or Cloud@Customer

Oracle Big Data Cloud is the only Big Data Platform that delivers the same experience in your datacenter or on Oracle’s Public Cloud.

High Performance Stream Analytics

Oracle Big Data Cloud provides high-performance native access to the Oracle Event Hub Cloud Service to deliver an extremely low-latency stream analytics platform.

Open, Secure and Performant Database Integrations

In addition to Open Source technologies, Oracle Big Data Cloud supports technologies like Big Data SQL, Big Data Connectors etc., to work with Relational and Big Data together in secure and performant manner.
Elasticity to enable agility is a core principle behind Oracle Big Data Cloud.

- **Cluster Elasticity**: Scale out/in, up/down based on workload needs.

- **Storage Elasticity**: Scale the storage tier independently from the compute tier

- **Compute Elasticity**: Choose from a variety of compute shapes depending on the workload

Oracle Big Data Cloud enables customers to leverage Open Standards and Open Source Technology without having to worry about the setup, configuration or maintenance.

Open REST APIs and CLIs enable customers and ISVs to integrate with and extend the service.

Simplified operations, and automated lifecycle management through a single command utility of the entire stack.

Ability to monitor the service through the service dashboard or through the metrics exposed by the REST APIs.
Access Security

Through integration with the Oracle Identity Cloud Service, Oracle Big Data Cloud provides a centralized way of enabling user-access to the service and robust auditing of user access.

Kerberized clusters are integrated with Oracle’s central Identity Store to provide strong authentication to all the cluster’s services.

Data Security

Oracle Big Data Cloud protects data-in-motion and data-at-rest through encryption.

All service lifecycle as well as service consumption REST calls to the service are also protected through HTTPS.

Network Security

Software-defined Networking enables the customers of Oracle Big Data Cloud to have fine grained control over the network security.

Customers are able to define VPN, control which ports get exposed as well as white-list IPs through self-service.
Focus on Data Not on Plumbing.

Oracle Big Data Cloud comes pre-integrated with Oracle’s IaaS and PaaS solutions so that you can spend your time deriving value from data, instead of wasting it setting up the plumbing needed to analyze the data.

**Storage Cloud Service**
Pre-built integrations enables leveraging the Storage Cloud as your Data Lake.

Launch multiple clusters against the same data to ensure complete isolation between workloads.

Utilize the cross-datacenter replication policies of the Storage Cloud to enable disaster recovery.

**Event Hub Cloud Service**
Utilize the native APIs exposed by the Oracle Event Hub Cloud Service to build streaming applications with very low latency and high throughput requirements.

**Database Cloud Service**
Big Data Connectors provide highly performant data movement between the database and Big Data Clusters when using Hive, Spark-SQL, Spark and/or Map-Reduce

Big Data SQL provides access to the Big Data through the familiar, feature-rich Oracle SQL.
Full stack optimizations to deliver **superior** performance.

**Compute Optimization:** Non-over subscribed compute and option to utilize dedicated compute provides predictable performance.

**Storage Optimizations:** In-Memory and NVMe based caching to deliver extreme performance for streaming as well as batch analytics.

**Data Movement Optimizations:** Ability to do prediction, projection push downs to databases, object storage to filter data at source without moving them.

**Lifecycle Performance:** Ability to create, terminate, expand, shrink cluster in a matter of minutes.
Learn More

• View data sheets, FAQs, and additional resources on the Big Data Cloud product page.
• Sign up for a free trial at Oracle Cloud.
• Purchase a subscription and get started by visiting the Oracle Help Center.

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