ORACLE® Cloud

ORACLE BIG DATA 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..

Big data is a mega-trend every bit as powerful as the alphabet, the printing press, or the Internet itself. It will inevitably transform the competitive landscape, and it will happen faster than one expects. To remain competitive, enterprises need to be relentless in their pursuit of data. Is there data you can collect about your prospects, customers, products or employees that'll give you an edge over the competition? And just as important, do you have a real-time framework to turn that data into action, so you're able to programmatically increase the probability of good outcomes for your business, while decreasing bad outcomes?

Oracle's Big Data Cloud delivers a curated list of the best Open Source Big Data Technologies stitched together as a coherent platform to help enterprises deal with the data explosion. 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.

Simple

Get started with Big Data without having to be a Apache Hadoop expert.

• **Completely Elastic**. Elasticity to enable agility is a core principle behind Oracle Big Data Cloud. Right-size your environment by scaling compute, storage independently to exactly suit your needs.

• **Automated**. Simplified operations and automated lifecycle management of your entire Big Data stack through command line interface or REST APIs.

• **Notebooks**. Oracle Big Data Cloud comes integrated with Apache Zeppelin Notebooks for Data Scientists to interact and explore data.

Secure

Oracle Big Data Cloud automates labor-intensive and time-consuming Hadoop administration tasks, allowing enterprises to focus resources on innovation:

• **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.

• **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 can define VPN,

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control which ports get exposed as well as white-list IPs through self-service.

Integrated

Oracle Big Data Cloud is integrated with Oracle Public Cloud at both infrastructure and platform layers, providing a seamless experience for application development and deployment.

- **PaaS Integration**. Pre-integrated with Oracle Cloud Application Development offerings such as Oracle Event Hub Cloud Service, Oracle MySQL Cloud Service, Oracle Database Cloud Service and Oracle Analytics cloud; Developers can quickly spin up a small development environment or administrators can spin up an entire production stack using Oracle Cloud Stack in a matter of minutes.

- **IaaS Integration**. Pre-integrated with Oracle Cloud Infrastructure; organizations can choose to backup data to Oracle Storage Cloud, setup a virtual private network between Oracle Cloud and on-premises infrastructure and run custom Big Data applications on Oracle Big Data Cloud Service using common programming languages (Python, Java, Scala, etc.).

Fast

Oracle Big Data Cloud strives to deliver speed without sacrificing security or ease of use. It achieves this by not only optimizing every layer of the stack in isolation but also stringing these optimizations together in a manner to deliver maximum benefit to the user.

- **Compute Optimizations**. Non-oversubscribed compute and the ability to utilize dedicated compute zones provides for a predictable performance.

- **Storage Optimizations**. In-Memory and NVMe based caching to deliver extreme performance for batch as well as interactive analysis of all data.

- **Data Movement Optimizations**. Ability to do predicate, projection push downs to a multitude of data source including database, object storage enables filtering of data at source and avoid un-necessary data movement.

- **Lifecycle performance:** Ability to create, terminate, expand, shrink cluster in a matter of minutes provides the ability to quickly size the cluster to meet the processing demands.

Contact Us

For more information about Oracle Big Data Cloud, visit oracle.com or call +1.800.ORACLE1 to speak to an Oracle representative.

Oracle is committed to developing practices and products that help protect the environment

Integrated Cloud Applications & Platform Services

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