

# Oracle Big Data Cloud Service

## Delivering a Big Data Management System in Minutes

Big Data is rapidly becoming a vital part of Enterprise Information Architectures. Maximizing the value Big Data technologies requires extending the reach of existing skills paired with increased agility and capability. The Oracle Cloud enables users to easily deploy a complete Big Data Management System with unified query and security via Oracle SQL.



### The Cloud's Only Complete Big Data Management System

Deploying Big Data technologies in the cloud often yields increased agility in deployment. However, to make the most of Big Data technologies, organizations require the ability to bridge the widening Big Data skills-gap with existing tools and training. Oracle Big Data SQL enables enterprises to unify both query access and security across Hadoop, NoSQL, and Oracle Database without the need to change existing applications. This allows teams the ability to exploit the power of Big Data, and quickly integrate results with business-critical data stored in Oracle Database.

Only the Oracle Cloud provides a complete, enterprise-grade Big Data Management System, unified with Oracle Big Data SQL Cloud Service. This combination of unified query and cloud deployment enable businesses to rapidly deploy data management solutions based on need: optimizing the blend of Hadoop, NoSQL, and Oracle Database footprints for current conditions, while ensuring complete and secure access to all data using the industry's richest SQL dialect.

### Enterprise-Grade Big Data as a Service

When deploying a Big Data Management System in the Oracle Cloud, organizations get the best possible cloud environment for Big Data workloads. At the core of the Big Data Management System is Oracle Big Data Cloud Service. This service provides a massively-scalable Big Data environment featuring:

- » Cloudera's comprehensive software suite including Cloudera Distribution including Apache Hadoop and Apache Spark
- » Big Data Connectors delivers load rates of up to 15TB per hour between Big Data Cloud Service and Oracle Exadata Cloud Service
- » Big Data Spatial and Graph provides cutting-edge tools for exploring and analyzing massive graphs and geo-locational data
- » Dedicated hardware in the Oracle Cloud, featuring 40Gb/sec InfiniBand fabric inside Big Data and Exadata Cloud services
- » Simplified operations, updates and patch management through a single command utility of the entire stack

*“The payoff from joining the big-data and advanced-analytics management revolution is no longer in doubt. The tally of successful case studies continues to build, reinforcing broader research suggesting that when companies inject data and analytics deep into their operations, they can deliver productivity and profit gains that are 5 to 6 percent higher than those of the competition.”*

STEFAN BIESDORF, DAVID COURT, AND PAUL WILLMOTT

*BIG DATA: WHAT'S YOUR PLAN?*

*MCKINSEY QUARTERLY*

#### OPTIMIZED, COMPLETE, AND SECURE

Oracle Big Data Cloud Service provides the industry's most complete and optimized Big Data Management System

- Cloudera's industry-leading Hadoop Distribution
- Dedicated, high-performance hardware and networking
- Comprehensive security leveraging Kerberos and Apache Sentry

## Transforming a Data Warehouse in to a Big Data Management System

Embracing the abundance of components in a Big Data Management System on-premises can be a daunting task. From the acquisition of hardware, to the installation and integration of software stacks, transforming a Data Warehouse into a Big Data Management System is no small task.

The Oracle Cloud radically simplifies the design and setup of a Big Data Management System. Migrating an on-premises data warehouse to Oracle Exadata Cloud Service yields both power of Oracle's Database Machine, as well as the ability to optimize costs through capacity-on-demand pricing. Extending this system into a true Big Data Management System is only a step away.

## One Fast SQL Query on All Your Data

While experts can easily work with data in Hadoop and NoSQL databases, most of your organization is not familiar with these new environments. But most people do know SQL, and it's the main way that business applications already access data.

Oracle Big Data SQL Cloud Service extends Oracle SQL to Hadoop and NoSQL. This means that your analysts can use their existing SQL skills to access new data, and your existing applications require no changes to access data in Hadoop. Big Data SQL also extends the security capabilities of Oracle Database to data in Hadoop and NoSQL, so you can use your existing policies and processes to keep your data secure. Finally, SmartScan accelerates all your Hadoop queries by pushing processing down to the data, minimizing data movement.

## Bring Big Data Innovation and Agility to the Data Warehouse

Oracle Big Data and Big Data SQL Cloud Services enable organizations to make the most of Big Data technologies. With the power of the Oracle Cloud organizations can bridge Big Data skills-gap with existing tools and training, while harnessing the power of a cloud solution engineered for Big Data workloads.

To learn more, please visit [cloud.oracle.com/bigdata](http://cloud.oracle.com/bigdata).

**"Shortage of skilled staff will persist.**  
In the U.S. alone there will be 181,000 deep analytics roles in 2018 and 5x that many positions requiring related skills in data management and interpretation"

GIL PRESS  
6 PREDICTIONS FOR THE \$125 BILLION BIG DATA ANALYTICS MARKET IN 2015  
FORBES.COM

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### Hardware and Software, Engineered to Work Together

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