

CREATE COMPETITIVE ADVANTAGE WITH AN INTEGRATED, MODERN APACHE HADOOP INFRASTRUCTURE

SOLUTION BRIEF

Hortonworks and Red Hat expand their strategic alliance to provide a comprehensive approach to big data strategies that include Apache Hadoop.

INTRODUCTION

As enterprises look to use Apache Hadoop as part of their big data strategies, they must consider a comprehensive approach that addresses the expanding needs of the stakeholders and their disparate and unstructured information. These stakeholders include:

- Data architects who need an enterprise-class application platform that enables them to store, integrate, and analyze all of their data at scale.
- Operators who are expected to respond to growing needs to analyze large amounts of data while preserving investments in traditional data warehousing infrastructure. They need to modernize their data architectures to include Apache Hadoop as an integrated component—complementing their existing systems while providing elastic capabilities.
- Application developers who need agile environments that allow them to take advantage of new data analytics functionality.
- Business analysts and data scientists who need to consume data in a form that is relevant to them thereby improving their productivity.

The combined requirements from these stakeholders are typically very stringent and enterprise-focused and thus demand a new, more integrated approach to Apache Hadoop.

THE SOLUTION

If enterprises had an integrated and modern Apache Hadoop infrastructure that improved time to results, they could gain valuable business insights and create competitive advantage. The best way to achieve this is to have a comprehensive approach for Hadoop that meets the needs of all big data stakeholders in the enterprise.

Open source leaders, Hortonworks and Red Hat have expanded their strategic alliance to tightly integrate their products so that enterprises can spend more time analyzing big data to achieve business results sooner. Specifically:

- Red Hat® Enterprise Linux®, which includes OpenJDK, the open source Java development and run-time environment, serves as a foundation for Hortonworks Data Platform (HDP). The Red Hat Enterprise Linux and HDP combination creates a stable and tested infrastructure that enables enterprises to build and scale their big data solutions while providing application developers and data scientists with a viable, flexible, and tightly integrated development platform.
- Integration between Red Hat Enterprise Linux OpenStack® Platform and HDP delivers elastic Hadoop services to cloud infrastructure customers. Data architects can store and access all of their big data in one place while using multiple protocols.

- The combination of HDP and Red Hat JBoss® Data Virtualization enables business analysts to process and consume data from multiple sources without moving it around, therefore increasing efficiently and decreasing time to results.

Together, Hortonworks and Red Hat bring an enterprise-class Apache Hadoop infrastructure to enterprises, enabling them to develop and deploy their big data applications across physical, virtual, and hybrid cloud domains.

Interested in the technical details? Check out our joint reference architectures to learn how to plan and implement your deployments more quickly. redhat.com/promo/big-data

AN INTEGRATED APPROACH

Red Hat and Hortonworks are tightly integrating their products to provide joint customers with a seamless installation, configuration, and operating experience. They are jointly supporting these combined solutions, with a coordinated customer service experience, to deliver an optimized infrastructure for the next generation of big data applications.

The areas of collaboration include the following product categories:

RED HAT JBOSS DATA VIRTUALIZATION WITH HDP

- Enables enterprises to integrate HDP with existing information sources like enterprise data warehouses, SQL and NoSQL databases, enterprise and cloud applications, and flat and XML files.
- Creates business-friendly, reusable, and virtual data models and unified views by combining and transforming data from multiple sources including Hadoop.
- Creates integrated data that is available on demand for consumption by external applications through open standard SQL and web services interfaces.

HDP ON RED HAT ENTERPRISE LINUX OPENSTACK PLATFORM

- Provides elastic Hadoop services on a secure, private cloud infrastructure.
- Lowers total cost of ownership and improves flexibility compared to dedicated clusters

HDP WITH RED HAT STORAGE SERVER

- Provides a highly scalable, secure, resilient, general purpose storage pool with multiple interfaces (e.g., POSIX-compliant, Swift, Hadoop).
- Improves flexibility and decreases the time to develop and deploy new and existing enterprise analytic workflows.
- Drives down the costs for managing big data.
- Increases IT agility.

HDP ON RED HAT ENTERPRISE LINUX WITH OPEN JDK

- Enables developers to build the next generation of enterprise-strength analytic applications for big data
- Provides customers with an open and flexible platform that seamlessly supports a full range of deployment scenarios from physical and virtual to cloud

As a part of this strategic alliance, Hortonworks and Red Hat are also collaborating to bring enterprises Apache Hadoop in open hybrid cloud architectures.

BENEFITS OF THE PARTNERSHIP

The Hortonworks and Red Hat partnership brings together leading providers in enterprise, open source infrastructure solutions for storing and processing disparate big data. The result is a comprehensive approach to Apache Hadoop that benefits all stakeholders:

- Data architects can combine Hadoop data with other enterprise data in a single open source repository.
- Operators can deploy Apache Hadoop on physical, virtual, or cloud environments as an integrated component that can elastically scale to meet changing demands.
- Developers can build the next generation of big data analytic applications to take advantage of new data types and deployment flexibility.
- Data analysts can take advantage of improved access to data through standard interfaces.

LEARN MORE

Learn more about the partnership at redhat.com/promo/big-data



ABOUT RED HAT

Red Hat is the world's leading provider of open source solutions, using a community-powered approach to provide reliable and high-performing cloud, virtualization, storage, Linux, and middleware technologies. Red Hat also offers award-winning support, training, and consulting services. Red Hat is an S&P company with more than 75 offices spanning the globe, empowering its customers' businesses.



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