



Partner Brief

Security and Scalability for Big Data Apps



Today many organizations require secure, scalable and flexible data architectures that enable them to make critical business decisions based on real-time analytics—often times in very complex business environments.

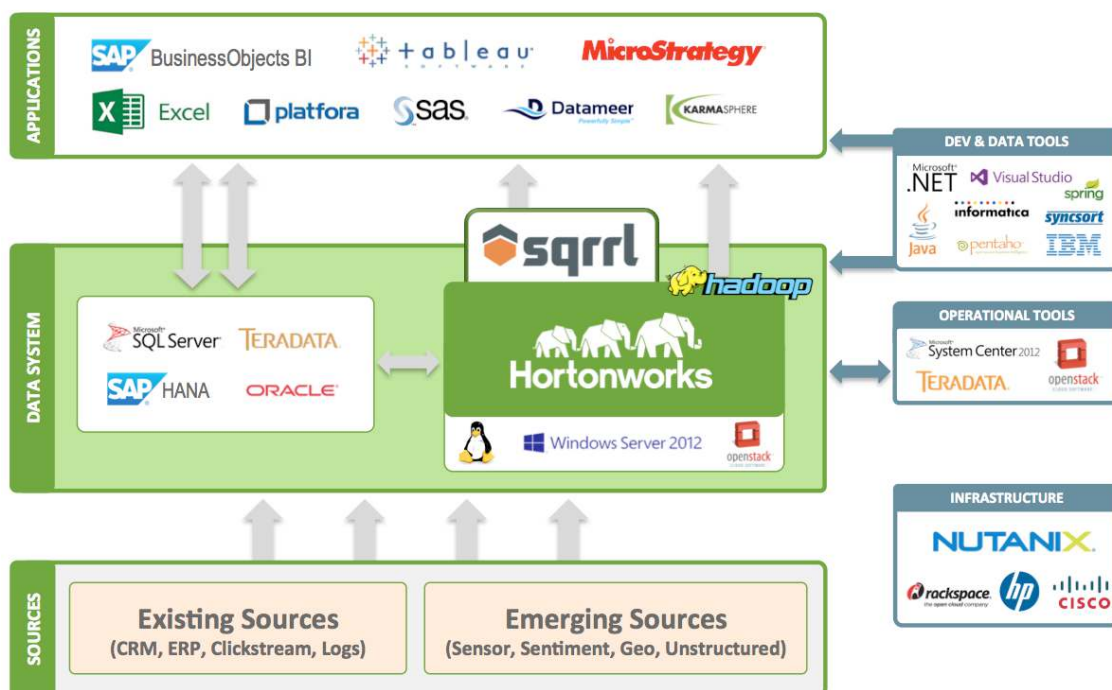
Increasingly these public and private organizations have turned to the Hortonworks Data Platform to store semi-structured or unstructured data. Sqrrl can plug directly into those deployments and provide organizations with a secure, real-time NoSQL database on top of the Hortonworks Data Platform. In doing so, Sqrrl makes it easy for these organizations to build powerful, interactive Big Data applications across all of their data and data feeds from outside the organization. Uniting data yet maintaining strong controls on who can access the data. So, whether you are the company CTO, Data Analyst or one of a number of Business Users within an organization, you get what you need, when you need it and how you need it.

Sqrrl supports and develops software for Apache Accumulo, which is a secure, low latency, highly scalable NoSQL database that runs on top of the Hortonworks Data Platform. Accumulo combines the power of fine-grained security with scalability and real-time analytics. Together Sqrrl and Hortonworks enable companies to securely develop new insights from their data at scale.

Features & Benefits of Combined Solution

- **Best-in-class security, including cell-level security access controls and encryption**
- **Superior performance, massive scalability to 10s of petabytes, very low latency reads and half a million writes per second per node**
- **Automatic secondary indexing and more diverse data models, including document and graph storage**

Sqrrl and Hortonworks in the Modern Data Architecture

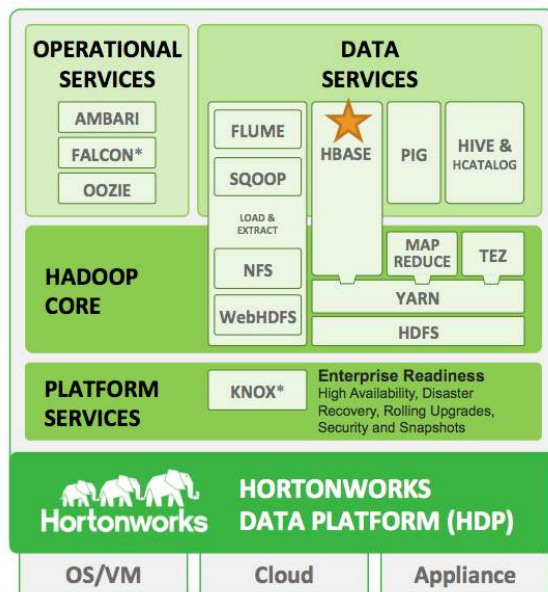


This diagram shows how Sqrrl and Hortonworks fit in the Modern Data Architecture with examples of ecosystem partners.

What Business Challenges are Solved?

Build secure, multitenant, and scalable operational data applications

Sqrrl natively uses the Hortonworks Data Platform as its storage layer but does not use HBase in the Data Services layer of the Hortonworks Data Platform - it is an alternative to HBase. With Sqrrl deployed on each data node in the Hadoop cluster, the resulting solution holds a number of advantages including cell-level security, better performance metrics, massive scalability, and additional data models including JSON and graph support.



- ★ Sqrrl Enterprise is an alternative to HBase in the HDP technology stack
- Sqrrl Enterprise (powered by Accumulo) advantages include cell-level security, better performance metrics, massive scalability, and additional data models including JSON and graph support

Industry Successes

In Financial services organizations, to say “data is king” might be an understatement—throw in the various requirements from the Securities Exchange Commission (SEC) and you’ve got a highly complex environment.

Sqrrl combined with Hortonworks Data Platform, enables organizations such as banks, mutual funds, hedge funds and others to analyze massive amounts of trading data and correlate it with other data feeds, such as social media sentiment analysis, to make better trading decisions in real-time.

Sqrrl and Hortonworks position these organizations to favorably reduce financial risks and scale their businesses.

“We’re really excited to partner with Hortonworks. This partnership will bring new Big Data capabilities to a wide variety of industries that use Accumulo. Customers can now leverage Hortonworks Data Platform expertise and combine it with our ability to securely bring data together and support low latency user interaction at scale.”

--- Sqrrl

Sqrrl is a Hortonworks Technology Partner

Sqrrl develops software for Apache Accumulo – the secure and highly scalable NoSQL database with real-time analytics. Sqrrl extends Accumulo with enterprise tooling for fine-grained security controls, JSON support, easy-to-use APIs, and richer query languages that native Accumulo, including the Sqrrl Query Language (SqrrlQL), graph search, and full-text search.

For additional questions, contact:

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About Hortonworks

Hortonworks develops, distributes and supports the only 100-percent open source distribution of Apache Hadoop explicitly architected, built and tested for enterprise-grade deployments.



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