Hewlett Packard Enterprise

Dig into Big Data analytics with HPE Vertica 7.2

New improvements to the HPE Vertica analytics platform feature optimized SQL analytics, Hadoop performance, advanced data streaming, and machine log analytics.

Excavator at-a-glance

- HPE Vertica Analytics SQL Platform offers a no-limits, no-compromises platform for Big Data analytics.

- The newest release of HPE Vertica offers powerful features that help you dig into Big Data analytics, even in a complex infrastructure.

- HPE Vertica 7.2 now offers Apache Kafka support for simplified integration with real-time architectures.

- Use Kafka for streaming loads and the Internet of Things to achieve near real-time analytics.

- HPE Vertica 7.2 offers support for Hadoop ORC data format. Enhancements improve performance and allow analytics to be performed on Hadoop data without having to move it.

- HPE Vertica 7.2 features many more enhancements to make managing your data for analytics simple.

Designed to power next-generation analytical applications

Organizations today struggle with their ability to consume, derive insight from, and act on the increasing volume of data generated from millions of connected devices and emerging applications. Hewlett Packard Enterprise announces the release of a new version of HPE Vertica 7.2, code named "Excavator," with enhanced open and scalable Big Data analytics capabilities. This latest version of HPE Vertica enables organizations to quickly ingest and analyze high-speed streaming data, from various sources, including Internet-of-Things applications, and provides enhanced SQL analytics and performance to Hadoop. HPE Vertica 7.2 is designed for those who need to be able to reach across technologies and access data for analysis no matter where it sits in the organization. Our latest release offers new features for the most demanding infrastructures. HPE Vertica 7.2 includes many enhancements that enrich its value in a complex IT infrastructure.

Hadoop native file formats

Furthering its commitment to open source, HPE Vertica enhances its support for Hadoop architectures. By working collaboratively with Hortonworks, we've developed a new high-performance access layer that enables SQL queries to run directly on ORC files. With this new SQL analytics capability,

organizations can now experience up to ten-times performance improvements, in a diverse set of use cases, over traditional Hadoop-based Big Data analytics solutions. Hadoop users may use ORC or Parquet files as native relational formats. HPE Vertica also offers support of semistructured data via the Flex Zone feature, where structure on read is applied to JSON, CSV, AVRO, and text files.

Operational excellence with Apache Kafka

HPE Vertica is now integrated with Apache Kafka, a distributed messaging system for data streaming. HPE Vertica 7.2 will allow organizations to analyze these volumes of data in real time. In addition, organizations will now be able to simplify and automate data load-and-query functionality, enabling them to empower any application with real-time data analytics.

This latest release of HPE Vertica embraces and extends open source technologies, such as Hadoop and Kafka, while simplifying and accelerating data steaming ingestion, enabling organizations to harness 100 percent of their data to improve business outcomes.

More Excavator enhancements

HPE Vertica 7.2 also enables organizations to apply the most advanced Big Data analytics with enhanced security and enterprise-class performance and reliability. Additional HPE Vertica 7.2 features include:

Solution brief

Server platforms
- HPE Vertica Excavator is supported on the following server platforms:
- Red Hat® Enterprise Linux® 5, 6
- SUSE Linux Enterprise Server 11
- Oracle Enterprise Linux (Red Hat Kernel) 6
- Debian Linux 6, 7
- CentOS 5, 6
- Ubuntu 12.04 LTS, 14.04 LTS

Client platforms
- The following client interfaces and platforms are supported:
- JDBC on all Java 5, 6, or 7-compliant platforms
- ODBC for Windows®, Linux, Solaris, AIX, HP-UX, OS X
- Perl and Python on Linux, Solaris, AIX, HP-UX, OS X
- ADO.NET provider for Microsoft® .NET Framework 3.5 SP1 or higher
- Connectors for Hadoop MapReduce, HDFS, HCatalog, and Pig
- Connectors for Informatica and Microsoft BI Suite available from HPE Vertica
- Connectors are available for popular data integration tools including IBM, Pentaho, Syncsort, and Talend from vendor. Contact vendor for details
- HPE Vertica ODBC driver is ODBC 3.5 compliant
- HPE Vertica JDBC driver is JDBC 4.0 compliant

- **Machine data log text search**—Organizations can collect and index large log file data sets that are generated by networked systems such as IT, utility infrastructure, and others, helping IT organizations to quickly identify and predict application failures and cyber-attacks, and investigate unauthorized access.

- **HPE Vertica Flex Table library**—Hewlett Packard Enterprise has open sourced its innovative Flex Table "schema on-need" technology to the global developer community. With this innovative approach, organizations will now be able to fully harness virtually any form of semi-structured data to meet their unique needs.

- **Enhanced SQL analytic functions**—HPE Vertica 7.2 offers advancements in the growing library of built-in analytical functions ranging from ROLAP to geospatial to sentiment for deriving insight from varying forms of data.

- **Improved manageability**—The release also provides administrators with greater flexibility in managing precious computing resources to run data analytics at scale, anticipate and minimize system issues with dynamic alerts, and backup and restore at a more granular level.

- **Enhanced security**—With more advanced synchronization with LDAP, this release automates the maintenance of users and user groups, while also enabling role-based access capabilities.

HPE Vertica leads the way in Big Data analytics

HPE Vertica is the core SQL database analytics engine of the HPE Haven Big Data Platform that was purpose built with speed, scalability, simplicity, and openness.

With HPE Vertica, your queries will run fifty to one thousand times faster than any other data warehouse solution or database technology. It's proven to run at petabyte-scale and gives you complete openness to use any BI/ETL tool, run as SQL on Hadoop, and leverage scalable predictive data analytics and a comprehensive library of built-in analytical functions. HPE Vertica enables organizations to manage and analyze massive volumes of data quickly and reliably with no limits or business compromises that typically accompany traditional enterprise data warehouses that were not designed for the Big Data era.

HPE Vertica delivers the most advanced SQL analytics. As a standards-based relational database, it includes full support for SQL, JDBC, and ODBC. This allows users to preserve years of investment and training in these technologies because all SQL programming tools and languages work seamlessly together. HPE Vertica also includes a wide array of built-in analytical functions, including geospatial, time series, pattern matching, and more, and supports all leading BI and visualization tools.

Learn more at
hp.com/us/en/software-solutions/advanced-sql-big-data-analytics/

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