Vertica Analytics Platform 9.2

Vertica 9.2 features backup and recovery of Vertica in Eon Mode, in-database Machine Learning advancements, support for open source Python client, and performance enhancements.

Product Highlights

Vertica performs queries 10 to 50* times faster than traditional analytical databases, at a fraction of the cost and using a fraction of the compute and storage resources. In its lat¬est release, Vertica in Eon Mode includes backup and recovery functionality for 24x7 data protection against data corruption and disasters. Vertica 9.2 enhances Machine Learning functionality by supporting non-numeric values for evaluation functions and providing data type consistency for function arguments, making it easier for users to create workflows involving multiple machine learning algorithms with similar data types. Vertica 9.2 also introduces support for a new open source Python Vertica client, enabling users to run SQL queries, perform advanced analytics, and load data into Vertica, all from within the confines of their Python code.

Key Features

Vertica in Eon Mode Backups

Vertica 9.2 also provides backups of your Vertica in Eon Mode database to AWS S3. These backups provide data protection against data corruption and disasters with timely recovery of the database from S3.

Advanced, In-Database Analytics and Applied Machine Learning

Predictive analytics helps organizations with everything from predicting and preventing machine downtime to minimizing customer churn. Vertica 9.2 provides new machine learning library functions that have consistent data types for input and output columns for the extensive set of algorithms supported. This makes it easier for you to create workflows involving multiple algorithms where similar data types will work across those algorithms.

Vertica 9.2 also includes enhanced evaluation functions that now support classification algorithms by accepting non-numeric values as well. As a result, you can use training algorithms like Random Forests for classification purposes to see the effectiveness of the trained models.

Python Client

Vertica Engineering has officially taken over the maintenance and upkeep of the open source Python client for Vertica from customers. With this Python client, developers can run SQL queries on Vertica data, load data into Vertica, and more—all directly from within their Python code. Download the open source Python client for Vertica here: **https://github.com/vertica/vertica-python/**.

Performance and Management Enhancements

Vertica 9.2 includes faster refresh of tables with multiple Live Aggregate Projections (LAP) by

_____

Key Benefits

- **Vertica in Eon Mode Backups:** Provides data protection against data corruption and disasters with timely recovery of the database from S3 backups.

- **Open Python client for Vertica:** Assist data scientists and developers to perform advanced analytics, run SQL queries, and load data into Vertica from Python-based applications.

- **Faster Live Aggregate Projection updates:** Provide faster refresh of multiple live aggregate projections on database tables. Deliver faster query performance on larger data sets with live aggregate projections for Flattened Tables.

applying the fast plan to each LAP refresh as a separate transaction. Doing so significantly reduces the total time required to refresh tables with multiple LAPs. Vertica 9.2 supports LAP on Flattened Tables, delivering faster query performance on larger data sets. Also, the Vertica Management Console in 9.2 makes it operationally easier for AWS users to seamlessly deploy and revive databases in Vertica in Eon Mode.

Try Vertica Today

Vertica is the core SQL database analytics engine that was purpose-built with speed, scalability, simplicity, and openness. With Vertica, your queries can run 50–1,000x faster than any data warehouse or database technology. It's proven to run at Exabyte-scale and gives you complete openness to use any BI/ETL tool, run as a SQL on Hadoop engine, and leverage scalable predictive analytics and a comprehensive library of built-in advanced analytical functions.

Get started today and download Vertica Community Edition, a free version of the Vertica Analytics Platform. Store up to 1 TB of data and deploy Vertica on a three-node cluster. Sign up for Vertica Community Edition at **www.vertica.com/try**.

Learn more at
www.vertica.com/try

System Requirements

Server Platforms
Vertica 9.2 is supported on the following server platforms:

- Red Hat Enterprise Linux 6.6, 6.7, 6.8, 6.9, 7.0, 7.3, 7.4, 7.5
- SUSE Linux Enterprise Server 12 SP2, 12 SP3
- Oracle Enterprise Linux (Redhat Kernel) 6.7, 6.8, 6.9, 7.3, 7.4, 7.5
- Debian Linux 8.5, 8.9
- CentOS 6.6, 6.7, 6.8, 6.9, 7.0, 7.3, 7.4, 7.5
- Ubuntu 14.04 LTS, 16.04 LTS
- Amazon Linux 2.0 on AMI

Client Platforms
The following client interfaces and platforms are supported:

- JDBC on all Java 7.2.x, 8.0.x, 8.1.x, 9.0.x, 9.1.x, 9.2.x -compliant platforms
- ODBC for Windows, Linux, OS X
- Perl and Python on Linux, OS X
- ADO.NET provider for Microsoft .NET Framework 3.5 SP1 or higher
- Connectors for HDFS and HCatalog
- Connectors for Informatica and Microsoft BI Suite available from Vertica.
- Connectors for popular data integration tools including IBM, Pentaho, Syncsort and Talend from vendor. Contact vendor for details.
- Vertica ODBC driver—Microsoft ODBC MDAC 2.8, iODBC 3.52.6 or later, unix-ODBC 2.3.0 or later, DataDirect 5.3 and 6.1 or later
- Vertica JDBC driver is JDBC 5.0 compliant.