

BETTER TOGETHER

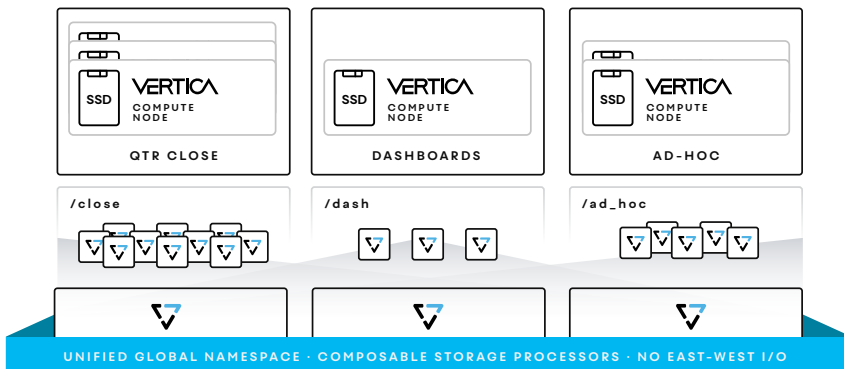
# UNLOCK REAL-TIME RESPONSIVENESS AT SCALE

## THE FASTEST WAY TO POWER VERTICA QUERIES

Organizations that use Vertica Analytics Platform to enable real-time processing of massive datasets, need more speed than ever, especially as users and datasets grow. Vertica in Eon mode expands on this mission and provides organizations with a flexible and efficient way to scale compute performance independent of storage.

In line with that mission, storage must also be architected to ensure real-time performance even as users, applications, and datasets scale. So, Vertica has partnered with VAST Data to unify, analyze, and share previously siloed data, while ensuring blazing fast performance and virtually unlimited scale and concurrency.

Vertica in Eon Mode for VAST Data is the first on-prem solution in the industry to overcome the limitations of legacy shared-nothing architectures that tightly couple storage and compute. The result is a highly scalable and affordable, ACID compliant all-flash solution that allows you to run petabyte and exabyte scale analysis at less than half of the cost of traditional all-flash solutions, while being over 3x times faster.



Running Vertica Sub-Clusters on VAST Data Universal Storage

## WHY VAST & VERTICA

### Real-Time Response

Massively-parallel architecture delivers concurrency and real-time access to billions of files and objects.

### Best in Class Performance

Vertica queries run 3x faster when powered by Universal Storage.

### EON Workload Isolation with QoS

Get dedicated Quality of Service (QoS) for Vertica sub-clusters supporting different departments.

### Built for Scale

Elastically scale storage as the database grows from terabytes to multiple petabytes and beyond.

### Radical Savings & Efficiency

2x better data center density and all-flash performance at 1/2 the cost.



## A BETTER OPTION: VAST DATA UNIVERSAL STORAGE

Most storage technologies just repackage the 20-year old shared-nothing, scale-out architecture, which struggle to reliably scale performance and capacity beyond a few petabytes. With its DASE ([Disaggregated and Shared Everything](#)) architecture, VAST Data has reimagined every aspect of what has become typical in storage system design, delivering superior scalability, resilience, and Quality of Service (QoS) at a radically lower TCO for your rapidly evolving data analytics applications.

### Scale-Out Architecture

DASE allows users to scale the performance, independently from the capacity of their system.

### Massively-Parallel Scalability

Get real-time responsiveness for all your data. With no east-west cluster traffic.

### Multiprotocol Support

Enable access to the same data via S3 and NFS simultaneously, eliminating the need to create multiple copies of the same data.

### Dedicated Quality of Service (QoS)

Pool compute servers to provide dedicated QoS for competing applications on the same namespace.

### Superior Data Reduction

VAST's unique [similarity based data reduction](#) provides the industry's highest.

### No More Migration

Add enclosures and compute servers of multiple generations into a single cluster and namespace.

## VERTICA USE CASES POWERED BY UNIVERSAL STORAGE



### Data Lakehouse

Vertica leverages ORC, Parquet, JSON, Avro and text formats in your VAST data lake and provides analytics for semi-structured data. Seamlessly mix and match data in the data warehouse and data lake.



### Data Warehouse

Consolidate data warehouses and other siloed data on VAST Data as a single, unified repository for Vertica and deliver fast, scalable data warehouse analytics on structured data.



### Data Science

Enable data scientists to choose from a comprehensive list of analytical capabilities that include SQL, Python, AI and ML, time-series, geospatial and more. Connect it to your ecosystem of ETL and BI tools for easy integration.

## ABOUT VERTICA

The future belongs to the fast, and Vertica delivers the fastest, most-scalable advanced analytics platform that is deployed independent from underlying infrastructure. Vertica's SQL Data Warehouse is trusted by the world's leading data-driven companies to deliver speed, scale and reliability on mission-critical analytics. Vertica combines the power of a high-performance, massively parallel processing SQL query engine with advanced analytics and machine learning, so you can unlock the true potential of your data with no limits and no compromises.

