

Brief

Respond to evolving BI and EDW requirements

HPE Analytics Workload Optimization with Vertica Solution



Hewlett Packard
Enterprise

IT must perform a balancing act—protect the EDW investment, minimize disruption and risk, deliver business value, and provide BI innovation, all while controlling or reducing IT spend.

Insights

- Your EDW has been successful, but times are changing.
- Users demand real-time access to data and advanced analytics.
- HPE Analytics Workload Optimization with Vertica Solution provides just that.

Deliver enterprise BI and analytics

Many companies have a mature, business-critical enterprise data warehouse (EDW) environment that has successfully provided intelligence, analytics, and reporting capabilities for their line of business customers. However, the competitive model is changing, and enterprise IT business unit users are responding with increased demands on IT for more and real-time data and advanced analytics.

To remain relevant in this new business intelligence (BI) environment, IT is performing a balancing act. It must protect the current EDW investment, minimize disruption and risk, continue to deliver business value, and provide business intelligence innovation. As if these challenges are not complicated enough, there is increased pressure on IT to control or reduce spend.

HPE Analytics Workload Optimization with Vertica Solution provides a cost-effective approach to these and other major challenges such as:

- New workload requirements driven by analytics, such as high CPU, memory, and storage resources, that conflict with normal business reporting
- Inflexible BI environment, where changing business requirements cannot be accommodated with current technology without a significant cost increase
- Shadow IT—Solutions specified and deployed by departments other than the IT department using public cloud or as-a-service solutions
- Expanding load requirements for current BI environment, such as how to mitigate complexity and cost for provisioning the appropriate BI load capabilities
- Big Data strategy for your business units, for example, how to create and support one that builds on current capabilities

HPE Analytics Workload Optimization with Vertica Solution provides proven and pragmatic approaches to address these challenges, enabling your IT to transition to a business analytics provider for the future.

Increase speed to value with our flexible approach

HPE Analytics Workload Optimization with Vertica Solution is a quick, inexpensive, and agile approach to protecting past EDW investments while forging ahead to embrace advanced analytics. This service enables you to examine the most critical aspects of your EDW environment, define and prioritize the most pressing needs, quickly demonstrate the feasibility of solutions, and establish a clear path to an actionable implementation plan.

This solution can comprise up to four steps, providing choice and flexibility in your approach based on your unique requirements.

Qualification—In this first step, your EDW BI strategy experts work in conjunction with a team of Hewlett Packard Enterprise consultants to understand target concerns and estimate the potential impact of the solution. Typical activities include:

- Reviewing existing processes, data, organization, and architectures related to target concerns
- Validating opportunities for improvement based on best practices, value, and risk
- Prioritizing opportunities for improvement based on time to value and risk

Key deliverables of the qualification step include scoping an optional Proof of Concept (PoC) step and/or a workload migration step.

Proof of Concept—In this optional step, you can conduct a PoC to validate Vertica capabilities

and integration into the existing EDW environment. The PoC typically lasts from three to six weeks and can be on premises at your facility or at one of our competency centers. Typical deliverables from a PoC include:

- Proven solution to business issue
- Performance estimates (load, extract, query)
- Third-party product integration (optional)
- Administration and manageability

Workload implementation estimate—The objective of this step is to develop a statement of work (SoW) covering the workload, implementation estimate, and plan. The SoW is a comprehensive overview of the workload migration, including:

- Objectives
- Scope—in-scope, assumptions, out-of-scope
- Approach
- Deliverables—list of deliverables, acceptance
- Schedule—schedule, major checkpoints, project management
- Resourcing and responsibilities—yours and ours
- Specific assumptions
- Fees and invoicing

Implementation—The next step is typically a four-to seven-month engagement, based on your Qualification (and perhaps PoC) findings. Your staff works with HPE BI and analytics consultants to establish the most effective action plan to address your EDW environment priorities.

Deliverables of this project phase include:

- A hardware and software platform—on premises or in an HPE data center
- An optional managed service for the infrastructure software stack
- One or more applications implemented on the new solution including the logical and physical data model, adjusted extract-transform-load or extract-load-transform (ETL/ELT) processes for data load, and integration with your choice of BI tools, based on open standards
- Implementation to production, including initial data load
- An operational transition plan that includes on-board training and support

Improve your business with these benefits

HPE Analytics Workload Optimization with Vertica Solution enables you to quickly identify, scope, and implement the migration of key workloads with a clear path to modernize your EDW.

Benefits include:

- Dramatic reductions in the total cost of ownership (TCO) of your EDW environment, with up to 80% lower administration costs and up to 90% lower storage costs through the use of standard hardware components
- Improved operational service levels for availability and response times, enabling users to focus on business objectives and not IT-related issues
- Improved analytical results and increased insight quality—such as, by analyzing more A- and B- scenarios, avoiding data sampling for statistical analysis—through Vertica's cost-effective scaling capability that uses new or more granular data
- Increased agility to respond to new business requirements—for example, what-if analysis for new products, calculating acquisition or merger situations, responding to regulatory requests—by removing IT complexity through the simplicity of Vertica

Trust our experience

The HPE Analytics and Data Management (A&DM) global practice consists of more than 3600 consultants worldwide, including strategic advisors, business analysts, solution architects, data modelers, and technical consultants. We have an established track record in planning, designing, building, and managing complex information environments. Our domains of expertise include:

- ETL consolidation and improved performance
- Analytic optimization
- Network performance
- Master plan for BI and analytics
- Business metric and key performance indicators (KPIs) development

Partner with a proven leader

Hewlett Packard Enterprise supports clients along their Big Data journey toward insight and transformational value through a “full stack” of offerings designed to support all phases—from advisory through to information management. Our portfolio of analytics and data management services includes:

- Information Advisory Services—Enables you to pave your path to innovation with Big Data and information intelligence workshops, assessments, and discovery environments
- Actionable Analytics Services—Unlocks insight hidden in your data to help you make informed, actionable decisions about your business
- Information Management Services—Simplifies sharing, increases accuracy, and improves consistency when managing data across your information ecosystem
- Information Governance Services—Empowers you to govern your information as a strategic asset in accordance with business, regulatory, and data management objectives
- Enabling Technology Services—Provides end-to-end integration and implementation of your solutions built on a flexible architecture that leverages leading software, including HAVEn—Hadoop, Autonomy, Vertica, Enterprise Security, and n Apps, and strategic partner technologies such as SAP HANA, SAS, and Microsoft

In addition, Hewlett Packard Enterprise has invested in delivery excellence through global methods and accelerators. Examples of these include an Internet protocol hub containing 200-plus accelerators to support IP reuse, technology accelerators for Autonomy, Vertica, Big Data, SAP HANA, and Hadoop; methodology accelerators for business analysis and data integration; estimation tools; and reference architectures.

We support 500-plus clients worldwide within our AD&M practice, with delivery provided through Industrialized Delivery Centers and consultants in core consulting centers that are located in five countries—United States, Italy, United Kingdom, Germany, and Japan.

Learn more at
hp.com/services/workload-optimization



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