Xcalar Unlocks the Business Value from NetApp data

KEY FEATURES

Highlights

- Point, analyze, and serve your data on NetApp ONTAP and NetApp Cloud Volumes Service to business analysts, data scientists and LOB managers

- True Data in Place™ allows users to reference source data without copying it into a new format

- Xcalar is agnostic to storage type and format so users can virtualize data across NetApp® ONTAP and StorageGRID Webscale.

- Performance and capacity scale linearly with the number of nodes

- Scale storage independently of compute to accommodate petabyte-sized data lakes

- Deploy on-premises or on any cloud without vendor lock-in

Solution Components

- NetApp ONTAP®
- NetApp Cloud Volumes Service
- NetApp StorageGRID Webscale
- Xcalar Data Platform

Business managers are continually looking for ways to maximize and accelerate the value that they can derive from their data. Because of the growing number of data sources, many customers have large volumes of data on NetApp storage. This data can provide powerful, actionable business insights when coupled with a self-service big data analytics platform.

Understanding the Value of Your Data

NetApp and Xcalar have partnered to provide customers with a powerful, self-service solution for business analysts, data scientists, and line-of-business managers to understand and discover insights from their data on NetApp ONTAP and NetApp Cloud Volumes Service. With Xcalar Data Platform, NetApp users can explore all of their business data without copying or moving the data. Xcalar leverages all the resiliency, availability, and scalability built into NetApp storage and extends it with a simple, powerful, and easy-to-use data analytics solution.

Platform for building analytics pipelines

Designed with a familiar spreadsheet-like paradigm, Xcalar enables all NetApp users to build models that ask questions and create business value at scale, directly, and interactively. Xcalar also provides interactive SQL and support for all major BI tools including Tableau, Qlik, Looker and Power BI. Custom business logic and machine learning algorithms can be quickly added at any stage of the pipeline with Python code. Xcalar represents the sequence of user actions, including UI operations, SQL and Python, as dataflow graphs with full data lineage and auditability. Xcalar users can leverage these dataflow graphs to compile sophisticated algorithms, which can be deployed in production on the Xcalar Compute Engine without assistance from programmers or IT. The resultant virtual tables can be served via JDBC and REST to large numbers of concurrent business analysts.

True Data In Place™

Xcalar's patented True Data In Place™ technology keeps all data in its original form on the NetApp storage platform. This retains all the data management, reliability, and efficiency expected from NetApp. Processed data and analytics result sets can be written directly back to the user's NetApp storage. All data including dataflows, system logs, and user-defined functions are stored on NetApp, providing a true separation of storage and compute for scaling resources to efficiently meet analytics needs.

NetApp Data Management

NetApp's joint solution with Xcalar fully leverages the capabilities of ONTAP, the industry's leading enterprise data management software, combining usability and flexibility with powerful data management capabilities and storage efficiency. With Cloud Volumes Service, users can build a hybrid cloud that is the foundation of a Data Fabric that spans flash, disk, and cloud. Users can also seamlessly manage their data as it flows to where it is needed most, to help make the best possible decisions for the user's organization.

For example, a user can deploy one Xcalar cluster in their test and development storage environment to model Xcalar dataflows, then operationalize by seamlessly deploying dataflows in their production storage environment on a separate Xcalar cluster. Take advantage of NetApp Snapshot and Cloning to maximize efficiency and eliminate redundant data copies.

Cloud Deployment or On-Premises Options

Xcalar architecture separates compute from storage. This enables great flexibility for on-premises, cloud, and hybrid cloud deployments. Here are some of the salient features:

- Xcalar clusters are elastic and can be resized to meet unique service level objectives.
- Xcalar runs on all the major cloud platforms so that users are not locked into one particular cloud vendor. This allows the user to choose a cloud provider based on the provider's cost, performance, and services. Xcalar is deployed on Microsoft Azure, Amazon Web Services, Google Cloud, on premises or any hybrid combination.
- Users can deploy Xcalar on-premises with local access to their NetApp storage, with the option to deploy to the cloud with minimal disruption.

- Xcalar dataflow graphs are transferable and can be moved to other cloud platforms or on-premises environments, without disruption to the user's NetApp storage deployment.
- Multiple Xcalar instances running different workloads can access the same files on shared storage.

About Xcalar

Xcalar is a next-generation open and extensible analytics platform and a modern-day DW for the complete analytics pipeline. This includes data preparation and quality, virtual data warehousing, at-scale self-service interactive analytics and data science. Users interactively build dataflows using visual design, SQL, and structured programming and execute them at petabyte scale. Xcalar's enterprise-grade software scales to hundreds of nodes and thousands of users for both cloud, on-premises, and hybrid deployments.
www.xcalar.com

About NetApp

Leading organizations worldwide count on NetApp for software, systems, and services to manage and store their data. Customers value our teamwork, expertise, and passion for helping them succeed now and into the future.
www.netapp.com