



Stay up-to-date on everything Data - Subscribe now to any of our free newsletters.

NEWSLETTERS

- 5 MINUTE BRIEFING: INFORMATION MANAGEMENT [LATEST ISSUE]
- 5 MINUTE BRIEFING: DATA CENTER [LATEST ISSUE]
- 5 MINUTE BRIEFING: MULTIVALUE [LATEST ISSUE]
- 5 MINUTE BRIEFING: ORACLE [LATEST ISSUE]
- 5 MINUTE BRIEFING: SAP [LATEST ISSUE]
- 5 MINUTE BRIEFING: BLOCKCHAIN [LATEST ISSUE]
- 5 MINUTE BRIEFING: CLOUD [LATEST ISSUE]
- IOUG E-BRIEF: ORACLE ENTERPRISE MANAGER [LATEST ISSUE]
- IOUG E-BRIEF: CLOUD STRATEGIES [LATEST ISSUE]
- DBTA E-EDITION [LATEST ISSUE]
- DATA SUMMIT CONFERENCE NEWS
- COGNITIVE COMPUTING SUMMIT NEWS

SIGN UP

The Future of Data Analytics: Out of the Warehouse, Through the Lake, and into the Fabric

Aug 11, 2022
By Joe McKendrick

Page 1 of 3 next >>



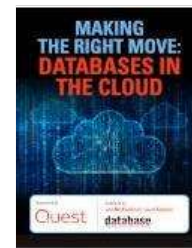
These days, data managers have an embarrassment of riches when it comes to the platforming, storage, and provisioning of data and associated analytics applications. However, selecting the right environment for pressing business needs can be confusing and overwhelming. The key is understanding how to map the right technologies to the business problems or opportunities at hand.

The array of choices include classic, tried-and-true data warehouses, which have evolved with the times, now joined by data lakes, which offer a means to rapidly deposit data of all types, and, lately, data lakehouses, data fabric, and data mesh. Underneath it all are cloud-based platforms and services providing compute power, capacity, and supporting automation.

Data warehouses are still omnipresent—most companies (82%) actively support and invest in a data warehouse; a recent survey of more than 200 IT leaders and professionals finds.

The "Data Delivery and Consumption Patterns Survey", Unisphere Research, a division of Information Today, Inc., May 2022, also finds emerging modern data architectures including data lakehouses, data fabric, and data mesh components are being deployed to support leading-edge initiatives such as artificial

WHITE PAPERS



MAKING THE RIGHT MOVE: DATABASES IN THE CLOUD

THE TOP 16 KEY VALUE NOSQL DATABASES

DREAM11: ARCHITECTING SCALE WITH AEROSPIKE

AEROSPIKE'S NOSQL DATA PLATFORM IMPROVES CONVERSION RATES AND CUSTOMER EXPERIENCE FOR NEW TECH ORGANIZATIONS

BLASTING THROUGH THE 4 BIGGEST CHALLENGES TO LEVERAGING AI IN FINANCIAL SERVICES

[More White Papers](#)

SPONSORS

intelligence, machine learning, and the Internet of Things. Close to half of enterprises have data lakes already implemented, one in five use data lakehouses, followed closely by the adoption of data mesh and/or data fabric solutions. Just about all are being deployed on the cloud. Current users of emerging data architectures—data lakehouses, data fabric, and data mesh—intend to keep investing heavily in these initiatives.

"The traditional ways of looking at data—the mindset of 'I want a data warehouse; I want a single-purpose analytics collection'—doesn't apply anymore," said Steve Zisk, senior product marketing manager for Redpoint Global. "Because now all data has value depending on the use case."

WHAT BUSINESSES WANT

Business demand and preferences for analytics has shifted toward these modern data architectures—and for good reason. "Data is being generated at a mind-blowing rate and businesses are starting to understand that data now defines business operations," said Traci Curran, director of product marketing at Actian.

In addition, "expectations for experience are extremely high," said Scott Gnau, head of data platforms for InterSystems. "Everyone wants to leverage and monetize all this new data, coming from smart devices and everywhere else. Businesses are realizing that the insights they can pull from existing systems are instrumental in making informed and timely business decisions. But traditional data management and analytics architectures make leveraging all of this siloed data very difficult. Thus, businesses are turning to more integrated approaches, such as data fabric architectures."

However, industry observers also caution against the mindset of simply investing in technology for technology's sake. Instead, there needs to be an emphasis on "value, ROI, reuse—deeper and wider impact on business decisions—instead of amassing as much data as possible for no clear purpose," said Sebastian Werner, AI evangelist at Dataiku. He also urges—and sees—greater decentralization and democratization on data analytics, versus "bottlenecked centers-of-excellence."

This is accompanied by demand for simplicity and easy access. "Most users prefer simple to configure or ready-made dashboards, and don't want to get too deep into the underlying technology that makes their data available to them," said Casey McGuigan, product manager at Infragistics.

Often, the challenge to business is free and clear access to data. The "consumption" side of data has been outpacing the "supply" side, as it is often hampered by regulations that constrict access to data. "When it comes to data analytics, organizations are caught in the middle, between the business need to analyze more data faster that is streaming in from multiple sources, with the competing need to better control access to and govern that same data," said Sophie Stalla-Bourdillon, chief privacy officer for Immuta.

Whether being harnessed for operational management, or additional revenue opportunities, "data is now a lighthouse for every business," said Curran. "Every department wants to access data to make improvements and foresee potential troubles. This has resulted in a desire for self-service data access but has also opened risk as data becomes more distributed."

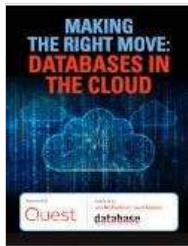
0 Comments

Sort by

Add a comment...

Facebook Comments Plugin

PUBLICATIONS & REPORTS



MAKING THE RIGHT MOVE: DATABASES IN THE CLOUD



THE TOP 16 KEY VALUE NOSQL DATABASES



DREAM11: ARCHITECTING SCALE WITH AEROSPIKE



AEROSPIKE'S NOSQL DATA PLATFORM IMPROVES CONVERSION RATES AND CUSTOMER EXPERIENCE FOR NEW TECH ORGANIZATIONS



BLASTING THROUGH THE 4 BIGGEST CHALLENGES TO LEVERAGING AI IN FINANCIAL SERVICES



Database Trends and Applications delivers news and analysis on big data, data science, analytics and the world of information management.

All Content Copyright © 2009 - 2022 Information Today Inc.

Database Trends and Applications
121 Chanlon Road
New Providence, NJ 07974
(908) 795-3702

[PRIVACY/COOKIES POLICY](#)

Topics

- Big Data
- Business Intelligence and Analytics
- Data Integration
- Database Management
- Virtualization
- Cloud Computing
- Data Center Management
- Data Modeling
- Data Quality
- Data Warehousing
- Database Security
- Hadoop
- Master Data Management
- MultiValue Database Technology
- NoSQL Central

Resources

- DBTA E-Edition
- Data and Information Management
- Newsletters
- DBTA 100: The 100 Companies that Matter in Data
- Trend Setting Products in Data and Information Management
- DBTA Downloads
- DBTA SourceBook
- Sponsors

Other ITI Sites

- Destination CRM
- Faulkner Information Services
- InfoToday.com
- InfoToday Europe
- ITIResearch.com
- KMWorld
- Online Searcher
- Smart Customer Service
- Speech Technology
- Streaming Media
- Streaming Media Europe
- Streaming Media Producer

Problems with this site? Please contact the [webmaster](#).

Media Partner of the following user groups

