MongoDB Announces Multi-Document ACID Transactions in Release 4.0

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NEW YORK, Feb. 15, 2018 /PRNewswire/ -- Today MongoDB Inc. (Nasdaq: MDB), the leading modern, general purpose database platform, announced MongoDB 4.0 will support multi-document ACID transactions. MongoDB has always been an easy choice due to the flexibility and power of its document model, and now the addition of transactions makes MongoDB the best choice for the broadest set of use cases. MongoDB transactions will provide a globally consistent view of data across replica sets and enforce all-or-nothing execution to maintain data integrity. MongoDB's multi-document transactions will be very familiar to those developers already accustomed to working with transactions in relational databases. MongoDB plans to ship version 4.0 in summer of 2018. The beta program is available now.

MongoDB co-founder and CTO, Eliot Horowitz, will make a detailed announcement on stage at MongoDB Seattle and via livestream today at approximately 12:10pm ET/9:10am PT.

"MongoDB disrupted the database industry by introducing the document model, a more intuitive, flexible and performant way for developers to work with data, designed from the ground up for scalability and resiliency. As a result, MongoDB was widely adopted by developers worldwide and became the most popular modern database," said Dev Ittycheria, President and CEO, MongoDB. "With this announcement, developers have the peace of mind of using a modern general purpose database that can literally address any use case, and do it faster and cheaper than a traditional database."

MongoDB's path to transactions has been a substantial engineering effort that began with the acquisition of the WiredTiger storage engine more than three years ago. Since then, the MongoDB engineering team has built out fine-grained consistency and durability guarantees, introduced a global logical clock, refactored cluster metadata management and more to bring transactions to the company's more than 4,900 customers and hundreds of thousands of MongoDB users around the world.

"Adding ACID transactions support to MongoDB removes any hesitation for developers when selecting a database. They no longer need to sacrifice speed of development over concerns that they might need transactions in a future application," said Eliot Horowitz, CTO and cofounder, MongoDB. "Thousands of customers have shown how easy it is to use MongoDB to build applications for a wide range of mission-critical use cases. We're excited to continue to deliver on our commitment to developer productivity by making it easier than ever to build any kind of application on MongoDB."

Additional Commentary

"Transactional guarantees have been a critical feature for relational databases for decades, but have typically been absent from non-relational alternatives, which has meant that users have been forced to choose between transactions and the flexibility and versatility that non-relational databases offer," said Stephen O'Grady, Principal Analyst with RedMonk. "With its support for multi-document ACID transactions, MongoDB is built for customers that want to have their cake and eat it too."

"ACID transactions are a key capability for business critical transactional systems, specifically around commerce processing," said Dharmesh Panchmatia, Director of E-commerce, Cisco Systems. "No other database has both the power of NoSQL and cross collection ACID transaction support. This combination will make it easy for developers to write mission critical applications leveraging the power of MongoDB."

"Document database software such as the MongoDB document model gives users great flexibility for defining and building applications in an agile manner. MongoDB adds to this its distributed systems design, made for data locality, scaling, and high availability," said Carl Olofson, IDC Research Vice President, Data Management Software. "The ability to execute sophisticated multi-document ACID transactions, announced for Release 4.0 elevates this product to one that supports the building and operating of mission-critical applications. This is a very important step for MongoDB."

"Document databases are well known for their flexibility and ease of development," said Doug Henschen, Vice President and Principal Analyst at Constellation Research. "The ability to guarantee the ACID properties of atomicity, consistency, isolation and durability in transactions involving multiple document sets greatly extends the range of applications and use cases that developers can support."

"MongoDB's latest feature for multi-document ACID transactions will make it easier for enterprise customers to accelerate their application transformation and digital analytics initiatives," said Gautam Khanna, Head, Open Source COE at Infosys. "We are confident that our participation in the beta program will strengthen our joint offerings, as we develop solutions and best practices at the Infosys-MongoDB innovation lab in Bangalore and other development centers around the world."

Resources

Join a live-stream of the announcement at MongoDB Seattle.

Sign up for the Transactions Beta Program.

Safe Harbor Statement

This press release contains "forward-looking statements" within the meaning of Section 27A of the Securities Act of 1933, as amended, and Section 21E of the Securities Exchange Act of 1934, as amended. Such forward-looking statements are subject to a number of risks, uncertainties, assumptions and other factors that could cause actual results and the timing of certain events to differ materially from future results expressed or implied by the forward-looking statements. Factors that could cause or contribute to such differences include, but are not limited to, those identified our filings with the Securities and Exchange Commission. You should not rely upon forward-looking statements as predictions of future events. Furthermore, such forward-looking statements speak only as of the date of this press release. Except as required by law, we undertake no obligation to update any forward-looking statements to reflect events or circumstances after the date of such statements.

The development, release, and timing of any features or functionality described for MongoDB products remains at MongoDB's sole discretion. This information is merely intended to outline our general product direction and it should not be relied on in making a purchasing decision nor is this a commitment, promise or legal obligation to deliver any material, code, or functionality.

About MongoDB

MongoDB is the leading modern, general purpose database platform, designed to unleash the power of software and data for developers and the applications they build. Headquartered in New York, MongoDB has more than 4,900 customers in over 90 countries. The MongoDB database platform has been downloaded over 30 million times and there have been more than 800,000 MongoDB University registrations.

Press Contact:
Mark Wheeler
1-646-300-8748
communications@mongodb.com

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