IBM Data Management Platform for MongoDB Enterprise Advanced

Gone are the days of a single database that does everything. With the rise in mobile devices and applications, Internet of Things and cloud-first strategies, businesses live in a world of new challenges, exploding data types and now expectations. Three of the challenges companies are facing with their data management solution include:

- **Enable a broadly accessible yet singular view of data:** To stay competitive, companies are moving beyond traditional data types and integrating new ones, driven by Internet and social requirements, with existing and new applications. This has added complexity into their data management solutions and added new requirements to support multiple vendors and skills.
- **Developing applications faster with lower costs:** As companies are building and/or updating their applications to keep up with dynamic environments, the ability to standup a database quickly and cost-effectively is critical. Agility is key, but at the same time this must be done with the same amount of resources or fewer resources to drive higher efficiencies. Finally, applications must leverage data to address modern use cases like rapidly changing operational requirements, mobile, IOT, Analytics, AI, and more.
- **Maintaining enterprise scale, availability and security:** Scalability requirements are increasing as more devices, applications, and locations need to be supported. In addition, security needs keep getting more complex while *always-on* availability is the new normal.

One way that companies are addressing these challenges is through integration of select open source databases into their data management environment.

IBM not only recognizes this trend, but has taken an active role in the open source community for decades. We are now building on that legacy by helping companies integrate open source databases into their data management solution with the IBM® Data Management Platform for Open Source Database.

IBM Data Management Platform for Open Source database

The IBM Data Management Platform for Open Source Database offerings extend open source databases with capabilities that support enterprise-scale deployments. These capabilities support the database lifecycle, including development, secure access, analysis, deployment and management, and the capability to scale as data requirements grow and change.

Your IT strategy is not an either-or decision. Most data-centers today have a mix of solutions and the same can be said for your database solutions. That is why integration is key for any database that is being deployed, whether open-source or commercial. With that in mind the Data Management Platform for Open Source databases integrates with other IBM Analytics offerings, including:

- **The IBM Hybrid Data Management Platform:** Supports virtualized access through creation of a federation source across many client data management platform environments, including MongoDB environments. This allows you to properly manage, use and protect your data under a single management strategy.
- **IBM Cloud™ Private for Data:** Includes a tightly integrated collection of data and analytic microservices that are built on cloud native architecture enabling integration, governance, data science and business analytics. This helps you to accelerate your journey to AI with a single interface.
- **IBM's Data Governance:** Provides solutions that let you locate and retrieve information about data objects, their meaning, physical location, characteristics and usage. This helps provide a holistic approach to managing, improving and leveraging information to help you gain insight and build confidence in business decisions and operations.
- **IBM Business Analytics:** Includes solutions that help you mitigate risks and increase operational efficiency in all areas of your business. This boosts confidence that you're making the right decisions and taking the right actions to drive your business forward.

IBM Data Management Platform for MongoDB Enterprise Advanced

An integral part of the Data Management Platform for Open Source portfolio, the Data Management Platform for MongoDB Enterprise Advanced is an integrated document database that provides a rich data environment and a diverse set of extended capabilities, supporting deployment of MongoDB database software in high availability production environments and cost-effective nonproduction environments.

IBM Data Management Platform for MongoDB Enterprise Advanced includes MongoDB Enterprise Server database with several capabilities that support security-rich deployment at scale, as well as development, analyst, and operational management roles. These capabilities include:

- **Advanced security:** Security and compliance features include Kerberos and LDAP authentication, audit trails for forensic analysis, and encryption of data at-rest, all natively integrated to the database. Features such as role-based access control, PKI certificates, TLS/SSL encryption, read-only views and field-level redaction complement this security-rich component.
- **Improved management:** Management platforms give operations teams a streamlined way to provision, monitor, back up, and scale MongoDB database software.
- **In-memory speed:** The In-Memory Storage Engine delivers extreme throughput and predictable latency.
- **Intuitive GUI:** MongoDB Compass offers an easy way to explore and manipulate MongoDB data. Developers and analysts can quickly visualize and explore schema, run ad hoc queries, update and delete documents, view real-time usage statistics and build document validation rules.
- **Advanced analytics:** The Connector for Business Intelligence enables the use of MongoDB database software as a data source for SQL-based business intelligence and analytics platforms. Its capability to seamlessly create the visualizations and dashboards can help your analytics teams to extract the insights and hidden value in multi-structured data.

IBM Data Management Platform for MongoDB Enterprise Advanced is delivered in production and nonproduction offerings, and supports deployment on x86, IBM Power® and IBM Z® environments.

IBM's Hybrid Data Management Solution

IBM has been a leader in the database space for over 40 years, while simultaneously helping drive forward open-source technologies such as Apache, Eclipse, Java™, Python and Hadoop, to name just a few. IBM understands that data does not live in a silo, so we provide the ability to integrate data repositories through data virtualization and federation.

With data virtualization companies can access disparate data through a single view without having to copy or move any of the data. This is done by establishing a virtual data platform to extend the local access point, making it appear as if remote database objects reside seamlessly on the local database server.

Not only does IBM use the same concepts of data virtualization to expand server connections, but we have added the concept of *remote external tables*, managed within our UI, to easily facilitate an application's SQL access to a myriad of data stores too.

As part of our dedication to making sure you get the most out of your open source database, IBM also provides a range of additional support options to help customers looking to add MongoDB Enterprise Advanced into their data management solution. They include:

- **Consultancy:** IBM offers the client consultancy on individual Open Source database technologies and the overall solution architecture
- **Integrated platform experience:** *One stop shopping* from procurement to deployment, use and management and support.
- **Migration support:** Link on-premises to multi-cloud with ease.

Solve your data challenges with IBM and Open Source today

IBM Data Management Platform for MongoDB Enterprise Advanced allows companies to integrate open source databases into their existing data management solution without sacrificing enterprise expectations. With its purpose-built document database and deployment features, the Data Management Platform for MongoDB Enterprise Advanced accelerates the deployment of scalable, flexible MongoDB database software and brings a more robust, security-rich suite of database deployment management tools to your organization.

Learn more about **adding MongoDB to the IBM enterprise database ecosystem**.

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Actual available storage capacity may be reported for both uncompressed and compressed data and will vary and may be less than stated.

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