

Discover CrateDB Edge

Combine cloud and on-premise for better data collection, analysis and storage

CrateDB Edge is a hybrid cloud database solution that allows to collect and analyze data at the source while still enjoying the advantages of a managed service in the cloud. With CrateDB Edge, you will have full ownership of your infrastructure, access to enhanced security, and the possibility of syncing with other edge regions and/or with a centralized cloud database—while leaving all the database operations to Crate.io.

The cloud offers unprecedented new opportunities to organizations. Hosting your database in the cloud allows for the easy setup, accessibility, scalability, and integration of your solution. It also unlocks key advantages such as the centralized monitoring of multiple data sources.

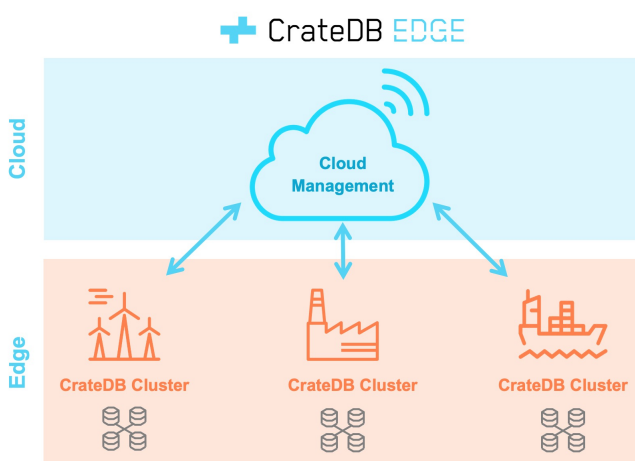
However, many enterprises are still choosing to host their database on-premise. For example, with traditional cloud solutions, organizations don't have full control over their infrastructure. In certain sectors, it is also important for customers to control where their backups are stored, or to handle their own data security.

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For example, let's picture a global manufacturer with plants distributed all over the world. For such a customer, it is advantageous to perform certain analytics locally on each plant to manage the "control loop" (the actual operations and production processes of the plant) and later sync to a centralized database. Such hybrid deployment allows real-time analytics on the edge (reducing bandwidth requirements as only the necessary data travel from the edge to the central cloud). At the same time, the information can be shared among multiple plants.

Another benefit of edge computing is data availability. In the manufacturing industry, it is common to have plants located in places with unstable internet connection; by operating edge clusters on-site, operations can be performed without the risk of data loss, as data always remains available locally. The combination of all these benefits results in increased uptime, optimized quality, reduction of maintenance needs, and overall decreased costs for the manufacturer.

CrateDB Edge was built to make this possible. With CrateDB Edge, customers can deploy a CrateDB cluster on their own infrastructure (on their own premises and/or their own cloud infrastructure) and access it through the CrateDB Cloud web UI.



The companies laying on this crossroads are looking for a hybrid cloud solution, allowing them to keep control over infrastructure while

Is CrateDB Edge for you?

You will benefit from CrateDB Edge if you're looking for any of these features

- ✓ Have full ownership of your infrastructure while accessing cloud features, like easy accessibility, automated backups, or automated data recovery
- ✓ Run your region on-premise or in the cloud of your choice
- ✓ Access to advanced network security (VPN)
- ✓ Assure data accessibility even in areas with poor internet access
- ✓ Perform local analytics

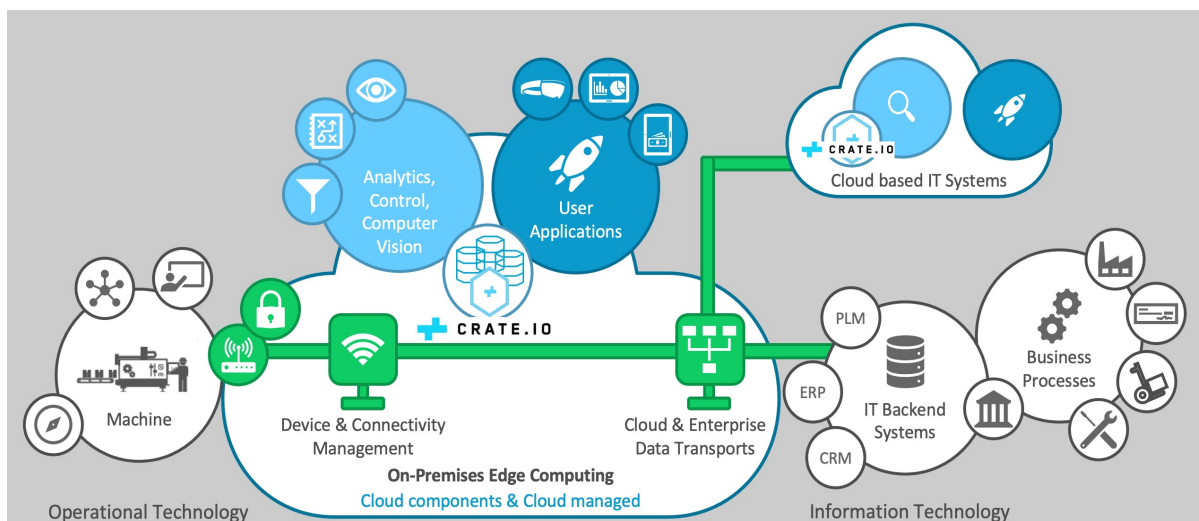
Access the potential of an edge-cloud computing ecosystem

In this digital era, organizations want to have all their data available and inter-connected. The birth of the IoT and digital cloud ecosystems favored the convergence of IT and OT data, causing an increased visibility of the different areas of their business, the easy identification areas with cost-reduction potential, and overall, an increased efficiency of the operations.

Including edge computing in this ecosystem is the logical next step. If all the information is sent to the cloud for being analyzed and stored, the total cost may increase unnecessarily; edge

computing solves this problem by optimizing which data is processed locally and which is sent to the cloud. This allows to really tap into the potential of industry 4.0, enabling real-time monitoring, predictive maintenance, and autonomous control systems while maintaining operational efficiency.

The smooth integration between the cloud and the edge is essential for this ecosystem to work. Being a database compatible with both environments, CrateDB allows customers to use the same data technology in their deployments, the same analytic tools, and the same applications, connecting all the elements through the centralized cloud.



Try CrateDB Edge

Reach out to the team and join our early adopters' program
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