An agile, distributed database architected and built for the cloud

CockroachDB was built from the ground up to deliver on the core distributed principles of atomicity, scale and survival so you can manage your database in OpenShift.

As a distributed database, CockroachDB deployed on Red Hat OpenShift allows you to roll software updates, patches, and schema modifications to each node, one at a time without service disruption. CockroachDB combines the familiarity of relational data with limitless cloud scale, allowing you to deploy a single logical database across multiple regions and still guarantee transactional consistency.

Executive summary
As enterprise organizations consider a cloud computing strategy for their applications, they require a downstream container orchestration technology, such as OpenShift, to be deployed on a cloud-native distributed database, such as CockroachDB, that works IN Kubernetes, not alongside it.

Product profile
CockroachDB delivers a familiar PostgreSQL interface and automates scale for both reads and writes without operational overhead. It is a database built for transactional workloads and guarantees data consistency for workloads in a single region or even globally distributed environments.
“Customers are looking to migrate their applications to the cloud leveraging containers as the deployment model,” said Mike Werner, senior director, Global Technology Partners, Red Hat. “Red Hat container certification assures a supportable and performant platform for all types of customer deployment models. Red Hat is thrilled to work with software partners like Cockroach Labs, resulting in the world’s largest commercial ecosystem for containers.”

**Product benefits**

Deploying CockroachDB on Red Hat OpenShift benefits organizations with:

- **Elastic scale** – Each instance of CockroachDB is the same, allowing users to spin up new workloads on OpenShift without manual work. There is no need to create additional, complex functions to manage shards.

- **Survival of pod failures** – CockroachDB replicates data and automates placement across pods so users can survive any failure and avoid downtime without any impact to production applications.

- **Automated deployment, management, and online rolling upgrades** – CockroachDB on OpenShift automates basic configurations, deploys secure clusters, and upgrades the database without any application downtime.

**Use cases**

CockroachDB allows you to build data-intensive applications with greater efficiency. It is the database of choice for your modern workloads running in the cloud and is in production, serving global (and local) data to thousands of breakthrough applications.

- **General-purpose database** – the primary data store for even the most mundane apps and services

- **System of record** – for storing and processing mission-critical data with limitless scale, guaranteed uptime and correctness

- **Transactional database** – for transactional data and basic analytics in the database

**Learn more**

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**About Partner**

Cockroach Labs is the creator of CockroachDB, the most highly evolved cloud-native, distributed SQL database on the planet. Helping companies of all sizes — and the apps they develop — to scale fast, survive anything, and thrive everywhere. CockroachDB is in use at some of the world’s largest enterprises across all industries, including Equifax, Bose, and Comcast.

**About Red Hat**

Red Hat is the world’s leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers integrate new and existing IT applications, develop cloud-native applications, standardize on our industry-leading operating system, and automate, secure, and manage complex environments. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500. As a strategic partner to cloud providers, system integrators, application vendors, customers, and open source communities, Red Hat can help organizations prepare for the digital future.