SOLUTION BRIEF

Redis Enterprise on Red Hat® OpenShift®

The Preferred In-Memory Database for Cloud-Native Applications

Organizations are rapidly adopting digital strategies to better win, serve and retain customers. As they do so, forward-thinking companies are embracing cloud-native platforms to help accelerate business automation, harness new customer insights and widen their competitive advantage.

The Red Hat OpenShift Container Platform helps organizations deliver applications with shorter development cycles and lower operating costs. Built on open source innovation and industry standards, including Kubernetes and Red Hat Enterprise Linux®, OpenShift provides developers with a self-service platform for provisioning, building and deploying applications and their components. It also supports IT operations with secure, enterprise-grade Kubernetes for policy-based controls and automation for simplified application management.

Built on the Red Hat OpenShift Container Platform, Redis Enterprise helps developers seamlessly deploy and manage multi-model databases in order to rapidly build modern cloud-native applications. This joint solution unburdens developers from the complexity of infrastructure operations, reduces deployment time, increases agility and improves maintainability at any scale.
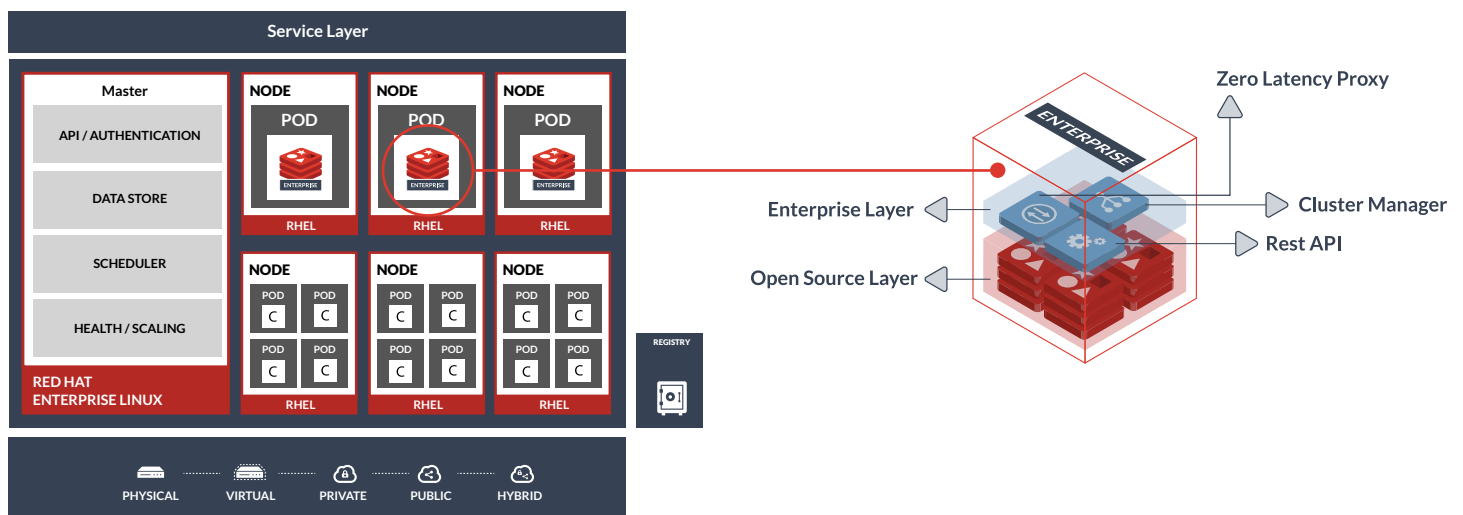
Solution at a glance

Redis Enterprise on the OpenShift provides a flexible and cost-effective data platform so developers can focus on rapid, high-quality development for sophisticated use cases that meet the needs of a modern digital enterprise. With Redis Enterprise on Red Hat OpenShift, you can:

- Enjoy high performance and record-setting low latencies with minimal operational overhead
- Develop highly scalable microservices-based and Kubernetes-orchestrated applications
- Use versatile data structures for a variety of use cases, such as high-speed transactions, user session management, real-time analytics, caching and many more
- Leverage enterprise-grade operational controls for high availability, security and seamless scale
- Automate operational best practices for deploying and managing the Redis Enterprise data platform with built-in Kubernetes Operator support
- Deploy, manage and move applications to and from any cloud for seamless portability

Red Hat and Redis Labs: Better together

The Redis Enterprise data platform is certified for the Red Hat OpenShift Container Platform. Redis Enterprise is a multi-model database that simplifies application development and powers a variety of real-time modern applications in e-commerce, social, personalization, IoT, metering, fraud detection, and other use cases.

This combined solution delivers a range of benefits to enterprises. They can:

- **_Speed application development and time to market:_** Unburden developers from the complexity of infrastructure operations and empower them to manage data with maximum flexibility. This helps them build modern applications quickly, make changes rapidly and support a variety of different data structures, models, relationships and use cases.

- **_Ensure business continuity with always-on data service:_** Maintain service uptime and ensure failsafe high availability, instant failover and automatic recovery to protect your applications against unplanned downtime, outages and data loss.

- **_Design for performance and unmatched user experience:_** Deliver the highest level of responsiveness and interactive customer experiences with best-in-class exceptional linear scaling high performance through a shared-nothing architecture and in-memory processing.

- **_Simplify operations with automated lifecycle management and layered orchestration:_** Automate database provisioning, management and maintenance, and abstract away the complexities of high availability, seamless scale and zero-downtime upgrades with built-in support for Kubernetes and Operators on OpenShift.

- **_Enjoy multi-level robust security:_** Provide granular control to meet self-imposed and regulatory compliance regulations and standards with built-in fine-grained security controls and data encryption.

- **_Gain platform independence with flexible deployment options:_** Ensure portability with multiple deployment options across any cloud of choice for multi-cloud and hybrid deployments and on-premises.

- **_Ensure success:_** Leverage 24x7 enterprise-grade support backed by expertise in managing and scaling hundreds of thousands of Redis databases for thousands of enterprise customers worldwide.

- **_Future proof investments:_** Use the most popular database amongst developers, built on open source innovation and entrenched firmly in the application landscape with over 1B downloads on Docker. Redis preserves your investment for years with easy extensibility and versatility through its Modules and support for over 50 different programming languages.

Get started with Redis Enterprise on Red Hat OpenShift Container Platform today!

To learn more about this joint offering, visit https://redislabs.com/partner/openshift/.
Download the container image from the Red Hat Container Catalog here.
Talk to a Redis Enterprise expert. Contact us at openshift@redislabs.com.

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