GAIN DATABASE SECURITY AND PERFORMANCE FOR MICROSOFT SQL SERVER 2019

BRIEF

Red Hat and Microsoft deliver a flexible, high-performance, security-focused foundation for modern database operations.

Key components include:

- Microsoft SQL Server 2019
- Red Hat® Enterprise Linux®
- Red Hat OpenShift®
- Red Hat Virtualization
- Red Hat Ceph® Storage
- Red Hat management and automation
- Red Hat Services

DATA POWERS BUSINESS

Organizations use data to run applications, inform processes, and gain insight. To support these initiatives, applications and users need fast, reliable, secure access to the right data at all times. Together, Red Hat and Microsoft deliver a flexible, high-performance, security-focused foundation for modern database operations.

A COMPLETE SOFTWARE PORTFOLIO FOR MICROSOFT SQL SERVER 2019

With Microsoft SQL Server 2019, Microsoft continues to embrace open source solutions, including Red Hat infrastructure software. SQL Server 2019 is a database management system for critical workloads ranging from small, single-machine applications to large, enterprise-scale and internet-facing applications with thousands of concurrent users. It supports a variety of languages and platforms—including Windows, Linux, and containers—giving you more choice.

Red Hat and Microsoft work together to deliver customer-focused, integrated solutions supported by joint engineering and integrated, global support. Red Hat's portfolio of enterprise-grade, open source IT infrastructure products provides the security features, performance, and intelligence needed for consistent, high-quality database operations.

RED HAT ENTERPRISE LINUX

Red Hat Enterprise Linux is an open source, consistent foundation that offers control, confidence, and freedom for IT operations and database administrators. It supports bare-metal, virtualized, container, and public and private cloud infrastructure, allowing you to create a unified environment. Both the operating system and the Red Hat Enterprise Linux High Availability Add-On are optimized to deliver high performance and reliability for SQL Server workloads. Additionally, Red Hat Enterprise Linux delivers a consistent database experience from the edge to the datacenter and within Microsoft Azure.

Red Hat Insights—a proactive management solution included with active Red Hat Enterprise Linux subscriptions—helps you identify threats to security, performance, availability, and stability. It also gives you remediation guidance to better avoid issues, outage, and unplanned downtime.

RED HAT OPENSHIFT

Built on the foundation of Red Hat Enterprise Linux, Red Hat OpenShift is an enterprise-grade, Kubernetes-based container application platform for delivering data-driven, analytics, and artificial intelligence workloads across hybrid cloud environments. Running workloads like SQL Server in containers lets you code once and deploy across your environment with a consistent experience. Integration with SQL Server 2019 via the Operator framework accelerates database and application delivery from the datacenter to edge and cloud environments. Additionally, Red Hat OpenShift Container Storage supplies integrated persistent storage for containerized instances of SQL Server and stateful applications.

RED HAT VIRTUALIZATION

Red Hat Virtualization is an open, software-defined platform that virtualizes both Linux and Microsoft Windows workloads, including SQL Server. Built on Red Hat Enterprise Linux and the Kernel-based Virtual Machine (KVM), it features management tools that virtualize resources, processes, and applications, giving you a stable foundation for SQL Server consolidation onto cloud-native and containerized infrastructure.

RED HAT CEPH STORAGE

Red Hat Ceph Storage is an open, massively scalable, software-defined storage solution for modern workloads like data analytics, cloud infrastructure, and artificial intelligence. It provides fast data access to SQL database environments.

RED HAT MANAGEMENT AND AUTOMATION

Red Hat management and automation tools accelerate IT operations and improve visibility into your infrastructure. Based on years of customer support experience, Red Hat Insights rules help you optimize performance, availability, security, and stability of workloads running on Red Hat Enterprise Linux. Red Hat Smart Management—a combined offering of Red Hat Satellite and Cloud Management Services for Red Hat Enterprise Linux—streamlines Red Hat Enterprise Linux system management operations. Red Hat Satellite provides complete life-cycle management of Red Hat systems and allows you to create and run automation playbooks to remediate risks identified in Red Hat Insights. Cloud Management Service for Red Hat Enterprise Linux adds compliance visibility, Common Vulnerabilities and Exposures (CVE) checking, and system comparison capabilities. Finally, Red Hat Ansible® Automation Platform supplies scalable, enterprise-wide, collaborative automation and orchestration across mixed environments, including Red Hat and Microsoft Windows platforms. Combined, these tools make it easier and faster to manage your SQL Server environment.

RED HAT SERVICES

From architecture through adoption, training, and support, Red Hat Services helps you get the most out of your technology investment in Microsoft SQL Server 2019 for Linux. Using a holistic approach that incorporates technology, people, and processes, Red Hat Consulting delivers strategic advice and services to help you transition to cloud infrastructure. Red Hat Open Innovation Labs provides a set of community-powered experiences and engagements that empower individuals, teams, and organizations to accelerate business value from IT. Red Hat Training and Certification helps you maximize your teams' skills and the impact of your technology investments through flexible training options, prescriptive content, and skills validation.

LEARN MORE

Data management and access are critical for modern organizations. Red Hat and Microsoft provide integrated solutions that encompass the flexibility, performance, and security needed for effective database operations. Contact your Red Hat or Microsoft representative to discover how you can deliver a consistent, high-quality database experience to your users.

Learn more at redhat.com/en/explore/microsoft-sql-server-rhel.