

Microsoft SQL Server on Red Hat Enterprise Linux

A leading relational database platform¹

Microsoft SQL Server

The preferred Linux OS¹

Red Hat Enterprise Linux

The way forward for Microsoft SQL Server on Red Hat Enterprise Linux

Red Hat and Microsoft joined forces more than 8 years ago to deliver a flexible, high-performance, security-focused and scalable foundation for modern database operations. Today, with Microsoft SQL Server on Red Hat® Enterprise Linux®, IT operations teams and database administrators have a single, unified environment to configure, manage and control, while users benefit from a consistent database experience. Both Red Hat Enterprise Linux and the Red Hat Enterprise Linux High Availability Add-on are optimized to deliver high performance and reliability for Microsoft SQL Server workloads. From the edge to the datacenter, across bare-metal, virtualized, container and hybrid cloud environments, no other Linux distribution offers such manageability and flexibility.

Comprehensive, world-class support

Operating systems (OSs) built on community Linux need to be maintained and developed in-house or by a third-party, either of which comes at a cost.

In contrast, with Microsoft SQL Server on Red Hat Enterprise Linux, you benefit from both the engineering expertise and integrated support of each vendor. Internal resources are released from essential but routine tasks for more strategic and rewarding activities.

Flexible deployment and portability

With Red Hat Enterprise Linux, developers can efficiently install Microsoft SQL Server and get started within minutes. Installing the mssql-server package will provide everything you need to get up and running.

Enhanced security and incident response

Microsoft SQL Server on Red Hat Enterprise Linux, “provides customers with a robust data platform that not only caters to enterprisewide relational and structured data management requirements but also supports unstructured, nonrelational, and big data and analytics requirements.”¹ Your enterprise OS also gets full access to all of the security features of Microsoft SQL Server and the latest security features and hardened code of Red Hat Enterprise Linux.

24/7 high availability and disaster recovery

Red Hat Enterprise Linux provides business-critical uptime, automated failover, and improved manageability with Red Hat Enterprise Linux High-Availability Add-On, combined with the high-availability features of Microsoft SQL Server and backup tools for quicker recovery in case of an unexpected failure.

Consistent hybrid cloud experience

Whether you choose to deploy on-premise, in a virtual machine (VM), or in a cloud environment, Red Hat Enterprise Linux brings the same security, stability, reliability, and manageability. You gain a reliable and consistent hybrid cloud experience.

Globally available support and ecosystem

Globally colocated, Red Hat and Microsoft support teams offer full lifecycle support and accelerate issue resolution times for your most critical applications. Additionally, you benefit from our extensive network of partners, customers, and experts.

Table 1. Benefits of Microsoft SQL Server on Red Hat Enterprise Linux for database developers and administrators

Delivers the Microsoft SQL Server features you expect	Microsoft SQL Server on Red Hat Enterprise Linux runs essentially the same code as when running on Windows, bringing to Red Hat Enterprise Linux all the functionality you expect. Key Microsoft SQL Server operational and Transact SQL (T-SQL) features are available on Red Hat Enterprise Linux with no compromise.
Same tools, new environments	With the native installer, and all of the Microsoft SQL Server command-line tools available on Red Hat Enterprise Linux, such as sqlcmd and mssql-CLI, you can start building your applications on Red Hat Enterprise Linux. You can also run Microsoft Azure Data Studio on Red Hat Enterprise Linux, and connect Microsoft SQL Server on Red Hat Enterprise Linux to a variety of existing and newer third-party ecosystem tools using the Linux Open Database Connectivity (ODBC) driver.

Table 2. Benefits of Microsoft SQL Server on Red Hat Enterprise Linux for IT operations teams

<p>Swift, intelligent insight</p>	<p>Based on more than 25 years experience in resolving more than a million customer support cases, Red Hat Lightspeed boosts your subscription with proactive, AI-powered management and advanced security capabilities woven into your existing experience. Microsoft SQL Server on Red Hat Enterprise Linux has specific rules to help identify opportunities for optimization and system-risk prevention.</p>
<p>24/7 high availability without downtime</p>	<p>Red Hat Enterprise Linux High Availability Add-On offers a solid foundation for clustering and resource management. Your applications can get 24x7 availability by using automated database failover operations for Microsoft SQL Server availability groups and failover cluster instances.</p>
<p>Consistent hybrid cloud experience</p>	<p>Red Hat Enterprise Linux offers a smooth deployment and management experience for Microsoft SQL Server, from the datacenter to a public cloud, making it more efficient to run in the location of your choice.</p>

For more information, visit [RHEL leads SQL Server deployments on Linux](#) and contact your Red Hat or Microsoft sales associate.



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 develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. [A trusted adviser to the Fortune 500](#), Red Hat provides [award-winning](#) support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organizations grow, transform, and prepare for the digital future.

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