

Microsoft SQL Server on Red Hat Enterprise Linux

A leading database platform

Microsoft SQL Server

A leading Linux OS¹

Red Hat Enterprise Linux

The natural way forward for Microsoft SQL Server workloads

In 2017, Red Hat and Microsoft joined forces to deliver a flexible, high-performance, security-focused and scalable foundation for modern database operations.

Today, with Microsoft SQL Server running 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. From the edge to the datacenter, across bare-metal, virtualized, container and hybrid cloud environments. No other Linux distribution offers such manageability and flexibility.

Both Red Hat Enterprise Linux and its high availability add-on are optimized to deliver high performance and reliability for Microsoft SQL Server workloads. This is evident in the [record-breaking Microsoft SQL Server price for performance](#) achieved with Red Hat Enterprise Linux.

Comprehensive, world-class support

Operating systems (OS) 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 Red Hat Enterprise Linux for Microsoft SQL Server, you benefit from the engineering expertise and integrated support of both vendors. 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 is considered the most secure database over the last 10 years on the market by the National Institute of Standards and Technology (NIST).² You get full access to all of the security features of Microsoft SQL Server, as well as 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, fast 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 quick recovery in case of an unexpected failure.

¹ IDC White Paper. "Data management platform consolidation with enterprise Linux." 23 Feb 2022.

² National Institute of Standards and Technology Comprehensive Vulnerability Database. accessed 9 Jan. 2024.

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 peace of mind and a consistent hybrid cloud experience.

Globally available support and ecosystem

Globally colocated, Red Hat and Microsoft support teams offer full life cycle 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 Linux runs essentially the same code as when running on Windows, bringing to Red Hat Enterprise Linux all the functionality that you expect. Key Microsoft SQL Server operational and 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 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, more intelligent insights</p> | <p>Based on more than 25 years experience in resolving a million plus customer support cases, Red Hat Insights strengthens Microsoft SQL Server and Red Hat Enterprise Linux by providing regularly updated predictive OS analytics and Microsoft SQL Server-specific rules to identify opportunities for optimization and proactively prevent system risks.</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 24/7 availability by using automated database failover operations for Microsoft SQL Server’s 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](#) or 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.

 facebook.com/redhatinc
 @RedHat
 linkedin.com/company/red-hat

North America
 1 888 REDHAT1
 www.redhat.com

Europe, Middle East, and Africa
 00800 7334 2835
 europe@redhat.com

Asia Pacific
 +65 6490 4200
 apac@redhat.com

Latin America
 +54 11 4329 7300
 info-latam@redhat.com