# MICROSOFT SQL SERVER ON RED HAT ENTERPRISE LINUX

**DATASHEET**

### A LEADING DATABASE PLATFORM

Microsoft SQL Server

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### A LEADING LINUX OPERATING SYSTEM[1]

Red Hat Enterprise Linux

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### A LEADING CLOUD PLATFORM

Microsoft Azure Red Hat OpenShift®

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"*Whether you're running on bare-metal hardware, in a virtual machine, or a container environment, Microsoft SQL Server on Red Hat Enterprise Linux delivers outstanding performance, security, and scalability across a broad range of enterprise applications.*"

**ROHAN KUMAR,**
CORPORATE VICE PRESIDENT,
AZURE DATA, MICROSOFT

Modern businesses need a solid data platform to quickly process large volumes of data and meet growing operational and analytical workloads. Microsoft SQL Server on Red Hat® Enterprise Linux® offers businesses additional flexibility, superior performance, enhanced security, and ultra-high availability. This combination provides a scalable foundation with a consistent application experience, whether deployed across bare-metal, virtual machine, container, or cloud environments.

## CO-ENGINEERED CAPABILITIES

Whether you are building a new application or migrating your existing infrastructure, choosing the right data platform is critical. Enterprises gain many capabilities with Microsoft SQL Server on Red Hat Enterprise Linux:

### FLEXIBLE DEPLOYMENT AND PORTABILITY

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

### RECORD-SETTING PERFORMANCE RESULTS

From decision support (TPC-H) to analytical workloads, Microsoft SQL Server on Red Hat Enterprise Linux consistently delivers superior performance results in several industry-leading performance benchmarks.[2]

### ENHANCED SECURITY AND INCIDENT RESPONSE

Microsoft SQL Server is consistently rated one of the most secure Relational Database Management Systems (RDBMS) on the market by the National Institute of Standards and Technology (NIST).[3] You get full access to all of the security features of 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 High-Availability Add-On, combined with high-availability features of SQL Server and backup tools to quickly recover in case of an unexpected failure.

### CONSISTENT HYBRID CLOUD EXPERIENCE

Whether you choose to deploy on-premise, in a virtual machine, or the cloud, Red Hat Enterprise Linux brings the same security, stability, reliability, and manageability—offering you peace of mind and a consistent hybrid cloud experience.

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1  *Worldwide Server Operating Environments Market Shares, 2017: Linux Fuels Market Growth, Published IDC, July 2018 ID: US44150918*

2  *Cisco TPC-H Benchmark using Microsoft SQL Server on Red Hat Enterprise Linux, released April 2019.* *http://www.tpc.org/3337*

3  *Microsoft SQL Server blog, "Microsoft's SQL Platform continues to lead the market with advanced data security." February 10, 2017.* *https://cloudblogs.microsoft.com/sqlserver/2017/02/10/microsofts-sql-platform-continues-to-lead-the-market-with-advanced-data-security/*

## GLOBALLY AVAILABLE SUPPORT AND COMMUNITY

Globally co-located 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 an extensive community of leading partners, customers, and experts.

## BENEFITS FOR DATABASE DEVELOPERS AND ADMINISTRATORS

### TABLE 1. BENEFITS OF SQL SERVER ON RED HAT ENTERPRISE LINUX FOR DATABASE DEVELOPERS AND ADMINISTRATORS

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|---|---|
| **DELIVERS THE SQL SERVER FEATURES YOU EXPECT** | SQL Server on Linux runs essentially the same code as SQL Server on Windows, bringing to Red Hat Enterprise Linux all the SQL Server features that you expect. Key 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 SQL Server command-line tools available on Red Hat Enterprise Linux, such as sqlcmd and mssql-CLI, you can quickly start building your applications on Red Hat Enterprise Linux. You can also run Azure Data Studio on Red Hat Enterprise Linux, as well as 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. |

## BENEFITS FOR I.T. OPERATIONS TEAMS

### TABLE 2. BENEFITS OF SQL SERVER ON RED HAT ENTERPRISE LINUX FOR I.T. OPERATIONS TEAMS

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|---|---|
| **FASTER, MORE INTELLI-GENT INSIGHTS** | Based on over 25 years of customer support experience and learnings from over 1,000,000 support cases, Red Hat Insights strengthens SQL Server and Red Hat Enterprise Linux by providing regularly updated predictive operating system analytics and SQL Server-specific rules to quickly identify optimizations and proactively prevent system risks. |
| **24/7 HIGH AVAIL-ABILITY, WITHOUT DOWNTIME** | 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 SQL Server's availability groups and failover cluster instances (FCI). |
| **CONSISTENT HYBRID CLOUD EXPERIENCE** | Red Hat Enterprise Linux offers a seamless deployment and management experience for SQL Server, spanning datacenter to public cloud, making it easy to run in the location of your choice. |

For more information, visit redhat.com/en/explore/microsoft-sql-server-rhel or contact your Red Hat or Microsoft sales associate.