

Optimize your Microsoft SQL Server deployment with Red Hat and AWS

Data powers digital business.

Your Microsoft SQL Server database is a key business asset, running applications, informing processes, and providing insight. Database performance, cost, and flexibility are essential to support digital business initiatives. Detailed planning can help you build an efficient, high-performance, agile foundation for Microsoft SQL Server databases. Consider the following questions when planning your Microsoft SQL Server database strategy.

1 Underlying infrastructure

Your underlying infrastructure can greatly impact your Microsoft SQL Server database costs, performance, and flexibility. Modernizing your underlying infrastructure to adopt hybrid cloud technologies can help you more easily meet fast-paced, digital business needs.

- ▶ Do you have larger IT initiatives to modernize infrastructure and adopt cloud resources?
- ▶ Have you already deployed cloud infrastructure?
- ▶ Do you have initiatives to reduce overall IT costs?
- ▶ Do you have difficulty scaling your on-site database infrastructure cost-effectively to meet performance demands?
- ▶ Are you starting new database projects that would be ideal for deployment in the cloud?
- ▶ Are you running current, supported versions of Microsoft SQL Server?

2 Cloud provider

Each cloud provider offers a different set of services, resources, and specialities. Ideal cloud providers for your Microsoft SQL Server environment will deliver not only cost-effective compute and storage resources, but also tailored database solutions and expertise.

- ▶ Does your cloud provider support Microsoft SQL Server and the operating systems that it is certified for?
- ▶ Does your cloud provider offer complete, on-demand Microsoft SQL Server solutions?
- ▶ Does your cloud provider offer migration tools and services to help you move your on-site Microsoft SQL Server deployments to the cloud?
- ▶ Does your cloud provider offer capabilities, instances, and services tailored for Microsoft SQL Server?
- ▶ Does your cloud provider meet your requirements for compliance, security, reliability, and geographic coverage?

3 Operating system

Your operating system provides key services to Microsoft SQL Server. A consistent operating system can provide a unified foundation across on-site and cloud infrastructure.

- ▶ Does your operating system run consistently across your on-site datacenter and your chosen cloud provider?
- ▶ Does your operating system offer integrated security features and provide tools for maintaining compliance?
- ▶ Does your operating system include tools to streamline management across infrastructure?
- ▶ Is your operating system certified for use with other key IT workloads in your organization?

4 Standardization

IT infrastructure built on multiple operating systems creates complexity and reduces efficiency. A [standardized operating environment \(SOE\)](#) simplifies infrastructure and operations.

- ▶ Do you have difficulty keeping up with day-to-day management of multiple operating systems?
- ▶ Do you use manual workflows to complete IT tasks?
- ▶ Are your overall IT management costs higher than desired?
- ▶ Do you struggle to maintain compliance and keep up with security operations across multiple platforms?

5 Support

The quality of support for your database environment can be the difference between a quick fix and an outage that impacts business. Ideal support offerings bring your vendors together to streamline contacts, reporting, and resolution.

- ▶ Do you manage multiple support contracts and relationships for your Microsoft SQL Server environment?
- ▶ Do you find it difficult and time consuming to troubleshoot issues that impact multiple layers of your database stack?
- ▶ Do your chosen cloud and operating system vendors offer integrated support for Microsoft SQL Server?
- ▶ Do your chosen cloud and operating system vendors have experience building and supporting production-grade Microsoft SQL Server environments?

Together, Red Hat and AWS offer a proven, scalable hybrid cloud foundation to help you maximize the value of your Microsoft SQL Server deployment. This integrated solution improves efficiency, manageability, and performance to reduce costs while preparing you for future change. Consistency across on-site and cloud infrastructure lets you deploy new Microsoft SQL Server workloads in a cost-efficient cloud environment and migrate existing workloads over time to meet digital business needs. Streamlined procurement and support lets you get started quickly and resolve issues more easily.

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Launch SQL Server on Red Hat® Enterprise Linux® on AWS directly from the [AWS Marketplace](#).

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