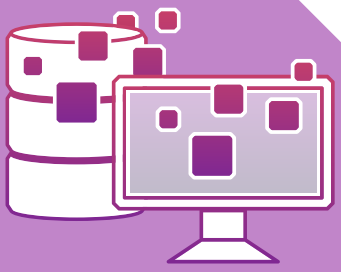
Executive summary

Support more customers and get answers faster with new Dell EMC servers and Microsoft SQL Server 2017 on Linux

A Dell EMC PowerEdge R740xd server running Microsoft SQL Server 2017 Standard and Red Hat Enterprise Linux 7.5 processed more orders and analyzed data in less time than a legacy solution

If the hardware and software you've been using to power your business has been running with few problems, investing in a new solution may be the last thing on your mind. But computing is one area where the adage "If it ain't broke, don't fix it" should not apply. By hanging onto older solutions, you could be missing out on serving more customer requests and getting business insights faster to give customers the responsive experience they deserve.

We compared a legacy solution (a Dell EMC™ PowerEdge™ R720xd server running Microsoft® Windows Server® 2012 R2 with SQL Server® 2008 R2) to a new PowerEdge R740xd solution running Microsoft SQL Server 2017 Standard and Red Hat® Enterprise Linux® 7.5. The new Dell EMC + Microsoft + Red Hat solution handled six times as many requests as the legacy solution and it did so more quickly, providing a snappier user experience that customers will appreciate. It also reduced the time to analyze data from three hours to just 13 minutes, so you can get the answers you need even faster. With the new Dell EMC + Microsoft + Red Hat solution, you can serve more requests and get answers quicker, which can help make your business more profitable.



Support
6x
as many customers

Reach data insights faster
92%
faster query times

Putting a new Dell EMC + Microsoft + Red Hat solution to the test

Microsoft SQL Server 2017 now runs on Red Hat Enterprise Linux 7.5 to offer more flexibility to database admins. To compare the new solution running Microsoft SQL Server 2017 on Linux to the old, we used the DVD Store 2 benchmark to gauge how many online transactions each solution could process, as measured in orders per minute, and latency, which is the time a user waits before getting a response. We then assessed how fast each solution could answer complex database queries using HammerDB, a tool that generates various benchmarking workloads.

What do these testing results mean for your business?

Handle 6 times as many orders per minute
A server solution that can handle 6 times as much database work reduces the chance of a slowdown (even during periods of peak use) and opens up new options for datacenter use. Your business could choose to consolidate, using fewer servers to process just as many orders. This can reduce datacenter costs like power and cooling, as well as ease the burden on IT staff. Alternatively, you could expand your overall capacity by fitting servers that can process more orders into the same amount of datacenter space.

85 percent lower application latency
Reduced application latency indicates that users will spend less time waiting for a response—decreasing the risk that they'll take their business elsewhere.

92 percent faster query times
The updated Dell EMC + Microsoft + Red Hat solution ran a set of 22 queries in 13 minutes, while the legacy solution took almost three hours to complete the same query set. A solution that analyzes data faster enables you to act sooner, helping you make business decisions that improve your bottom line.

Support more customers and get answers faster

Our testing showed that a Dell EMC PowerEdge R740xd server with Microsoft SQL Server 2017 Standard and Red Hat Enterprise Linux 7.5 handled significantly more orders per minute and reduced application latency versus a legacy solution—benefits that can directly translate into a better customer experience. The new solution also processed database queries in less time than the legacy solution, helping your business quickly get the insights it needs to stay competitive and profitable. With a new Dell EMC + Microsoft + Red Hat solution, your business could stop worrying about whether your legacy servers will support customer growth and data analysis, and focus on increasing revenue.

Learn more at http://facts.pt/ok72p5 and http://facts.pt/1s0pmi ▶

Principled Technologies®

Facts matter.®