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Executive summary

Keep data available without affecting user response time

All-flash Dell EMC VMAX 250F storage and Dell EMC PowerEdge servers support I/O-intensive SQL Server production and test workloads while offering high availability

Minimizing critical database application performance lag and downtime helps companies offer a good user experience. However, certain circumstances can jeopardize application performance and availability.

At Principled Technologies, a Dell EMC™ VMAX™ 250F array and Dell EMC PowerEdge™ server solution supported multiple environments on a single array. The VMAX 250F let us quickly create snapshots of production Microsoft® SQL Server® data, which ran with consistently low latency and high performance for the production workload even as we added 10 test/dev database snapshots.

Testing also showed that a production workload supported by a pair of VMAX 250F arrays, leveraging SRDF/Metro, continued to access data with no downtime and no performance drop when one of the arrays in the SRDF/Metro pair became unavailable.
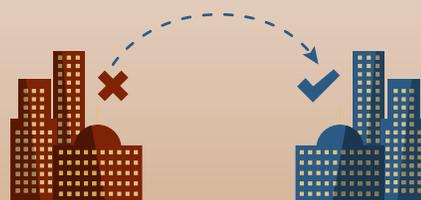
Supporting critical applications with robust and fast storage can help users continue to access necessary data quickly. This can improve the overall user experience and help ensure productivity.

Maintain
low storage latency

≤1ms

mixing production and
test/dev database workloads

Preserve
data access

with SRDF®/Metro
high availability

Ensure peaceful cohabitation for production applications and test/dev environments

Staying competitive in the global economy requires meeting 24/7 demand. The Dell EMC VMAX 250F supported production SQL-based applications and test/dev environments simultaneously without sacrificing performance or storage space. With these SQL databases existing together and functioning optimally, your company could reap a full range of business growth-oriented benefits, including a reduction in storage hardware.

Continuous data access for applications

SRDF®/Metro offers a highly available active/active configuration for high availability to maintain uptime and application performance

Steady performance while increasing activity

Adding test/dev environments to a VMAX 250F that supports a production SQL Server workload doesn't significantly affect performance

Fast response time for users

Average storage latency of a millisecond or less keeps your users accessing data at the speed of business

A company's success depends on critical application performance and availability. Storage latency for the VMAX 250F peaked at a millisecond in our testing while IOPS stayed within an acceptable range. The solution also kept data highly available with no downtime or performance drop when we initiated a lost host connection for the primary storage. Consider the Dell EMC VMAX 250F array for your datacenter to run the critical database applications that drive your company.

Read the full report at http://facts.pt/pZRH4n. ▶

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