Executive summary

Preserve user response time while ensuring data availability

Dell EMC VMAX 250F all-flash storage and Dell EMC PowerEdge servers uphold performance of I/O-intensive Oracle Database 12c workloads and provide high availability

Resource contention and lost connections can put critical database application performance and availability at risk. By reducing the chance of lag and downtime, IT staff can lay the groundwork to create a positive user experience.

A Dell EMC™ VMAX™ 250F array and Dell EMC PowerEdge™ server solution can help companies achieve these goals. At Principled Technologies, our hands-on tests first proved that the array supports both production and test/dev environments in one spot. So when application owners and admins make changes, applications continue to access critical data at the speed of business. The VMAX 250F let us quickly create snapshots of production Oracle® Database 12c data, which ran with consistently low latency and high input/output per second (IOPS) even as we added seven test/dev database snapshots.
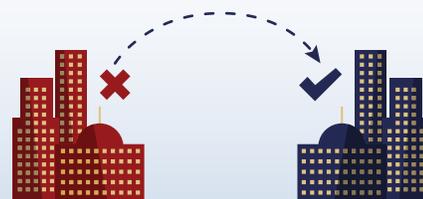
Testing also showed that a production workload supported by a pair of VMAX 250F arrays, leveraging SRDF/Metro, continued to access data with no downtime and no performance drop when one of the arrays in the SRDF/Metro pair became unavailable.

Maintain
low storage latency

≤1ms

mixing production and test/dev database workloads

Preserve
data access

with SRDF®/Metro high availability

Run production applications and test/dev environments together harmoniously

Having test/dev environments for updates and patches ensures a safety net for production applications. The Dell EMC VMAX 250F supported production Oracle 12*c*-based applications and test/dev environments at the same time without sacrificing performance or storage space. With these Oracle 12*c* databases existing together and functioning optimally, your company could gain a host 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 Oracle 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

Slow performance and unavailable critical applications can impinge on a company's progress. As we added VMs designed for test/dev environments, the production workload maintained an acceptable level of IOPS and achieved an average storage latency of less than a millisecond. The solution also kept data highly available with no downtime and no performance drop when we initiated a lost host connection for the primary storage. To run critical Oracle database 12*c* applications of your company, consider the Dell EMC VMAX 250F array.

Read the full report at http://facts.pt/cF2dMf. ▶

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