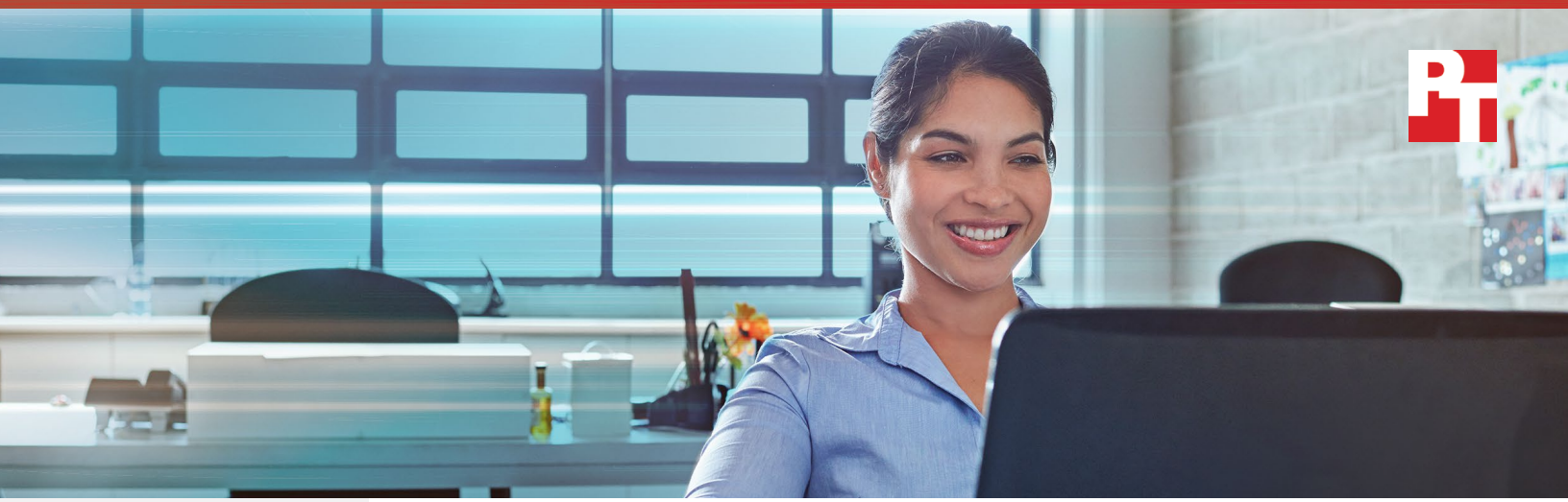


Executive summary

Get rid of database workload silos

The all-flash Dell EMC SC5020 storage array handled transactional database workloads and data mart imports better than an HPE solution without sacrificing performance

Your business may need to keep track of dozens of different initiatives—but that doesn't mean you need dozens of separate storage solutions to get the job done. To reduce complexity, your business may consider storage solutions that can take care of multiple jobs at once without sacrificing performance. For example, if you operate a brick-and-mortar store and an online store, you should be able to retrieve customer data from both sources without compromising transactional database performance. The all-flash Dell EMC™ SC5020 storage array aims to be just such a solution.

In the Principled Technologies datacenter, we tested solutions based on the Dell EMC SC5020 storage array and the HPE™ Nimble Storage® AF5000 All Flash Array to see how well they performed two workloads at once: processing orders from a transactional application and loading terabytes of data into an empty data mart. The Dell EMC SC5020 delivered stronger transactional database performance, whereas the HPE array processed orders more slowly and took longer to load data.

With the all-flash Dell EMC array, your company could attend to more customer orders each minute and save time while simultaneously importing data.

The all-flash Dell EMC SC5020 storage array

Process up to 3.4x the orders per minute
during a data mart import, at a fraction of the latency*

Load to a data mart up to 31% faster
during an online transaction processing workload, at a fraction of the latency*

*Compared to a solution based on the HPE Nimble Storage AF5000 All Flash Array

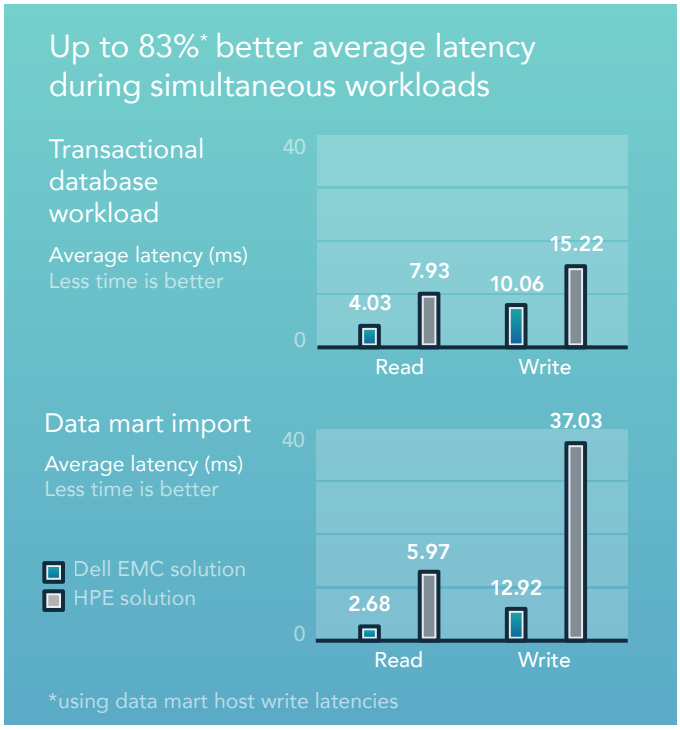
Handle demanding transactional database work while loading to a data mart without losing performance

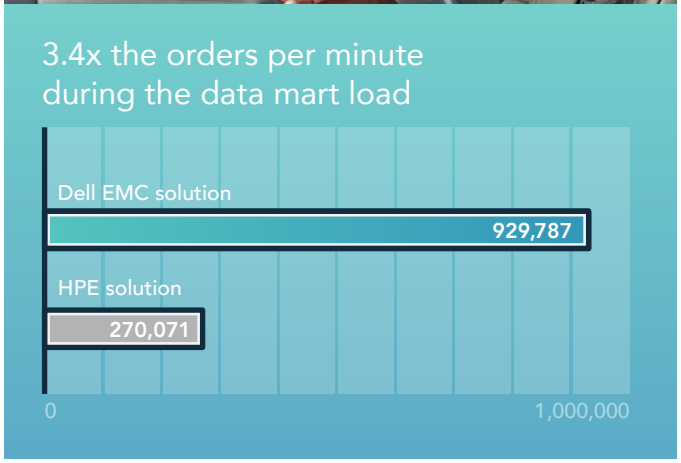
You'd typically need dedicated storage to import files to a data mart; however, with newer technologies, your business could combine multiple workloads into a single solution. In our tests, a solution based on the all-flash Dell EMC SC5020 supported two concurrent storage-intensive workloads with better performance than an HPE solution.

The Dell EMC solution fulfilled over 929K orders per minute while simultaneously loading to a data mart. With 270K orders, the HPE solution only managed less than a third of that. And while the Dell EMC solution completed the data mart import in just 43 minutes, the HPE offering took over an hour—46 percent longer.

Lower latency contributes to stronger performance

The Dell EMC solution also performed both workloads at lower latency than the HPE solution. The Dell EMC solution's lower latency likely contributed to its higher OPM count and to its speed at importing to a data mart.





Conclusion

In our hands-on evaluations, the all-flash Dell EMC SC5020 array handled two simultaneous workloads better than the HPE Nimble Storage AF5000 All Flash Array. The Dell EMC solution processed 3.4 times the orders per minute of the HPE solution while also saving 20 minutes on a data mart import.

With the ability to process multiple workloads simultaneously, your business could break free of storage silos that complicate your datacenter. The less complex your datacenter's design, the fewer costly solutions you'll have to plan for, purchase, and maintain.

Read the full report at http://facts.pt/fb3VN8 ▶

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