



Executive summary

Handle more orders with faster response times, today and tomorrow

The Dell EMC VxRail P470F handled up to 177% more database work with up to 85% faster response times compared to the HPE SimpliVity 380

Databases are often the driving force behind a company's mission-critical work. They power online stores, confidential records, and customer management systems, so a solution that sustains high levels of database work can be a big advantage as your company grows.

We found that the Dell EMC™ VxRail™ P470F hyperconverged appliance powered by VMware vSAN™ enables more database work than the HPE SimpliVity 380 with OmniStack. With a workload of 18 virtual machines (VMs), the four-node Dell EMC solution processed up to 104 percent more orders per minute (OPM) with up to 81 percent faster response times, so more users can fulfill requests quicker—whether they're placing orders in a store, accessing databases of client info, or adding to company records.

The Dell EMC VxRail P470F sustained this strong performance even after we doubled the number of virtual machines, processing 177 percent more OPM with up to 85 percent faster response times, so it can keep meeting your needs as your business and its services expand. With this powerful, scalable hyperconverged solution, you can support more users with strong performance, now and in the future.



Dell EMC VxRail P470F



Fulfill more customers' orders

Up to 177% more database transactions



Get answers faster

Up to 85% faster response times



Achieve near-linear scalability

Double your workload and sustain higher performance

Maintain robust performance

Handle more orders and more users

If your company relies on databases, you want them to be able to support many simultaneous users while providing fast response times. In both the scenarios we tested using a workload of 18 virtual machines (VMs), the Dell EMC VxRail solution processed more database work, handling up to 104 percent more OPM and up to 66 percent more input/output operations per second (IOPS) than the HPE solution.

Depending on your business, you may have staff members relying on databases of constantly changing client information. Or perhaps you've got thousands of customers attempting to research and purchase your products. No matter what you use your databases for, when your hardware can handle more hits to your databases, it almost certainly means smoother business operations.

Maintain short response times for an excellent customer experience

For the users accessing your databases, fast response times are key. Customers are likely to leave your site if the pages they're seeking won't load, which can directly translate to lost revenue. Slow response times affect your internal operations, too.

Fortunately, in our testing, high latencies weren't an issue with the Dell EMC solution. It offered up to 81 percent faster response times than the HPE solution and delivered lower read and write latencies in both of the 18-VM scenarios we tested. Users expect an immediate response from their databases—and technology in general—and those fractions of seconds can pile up to make a big difference in user experience and productivity.

Double your workload and maintain strong performance

As your business grows, you may need your database hardware to handle more work while continuing to offer a great experience for customers. Ideally, you



want your solution to scale performance linearly; if your solution can handle only a little more work after you increase its workload, it's a bad sign for the solution's ability to handle your company's work moving forward.

When we doubled the VM count from 18 to 36, both solutions did more work, but the performance of the Dell EMC VxRail P470F jumped dramatically, reaching close to linear scaling, while that of HPE solution rose a comparatively small amount.

The Dell EMC solution's advantage was most pronounced in this scenario. It handled 177 percent more OPM and 121 percent more IOPS than the HPE solution while offering up to nine times faster response times. Though latencies were higher than they were in our tests with 18 VMs, both read and write latencies consistently averaged under 10 ms for the VxRail P470F. The HPE solution's response times, on the other hand, were over 10 ms, with write latencies reaching over 63 ms.

To find out more about the Dell EMC VxRail P470F, visit DellEMC.com/VxRail.

Read the full report at <http://facts.pt/tkCS84> ▶



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