



Executive summary

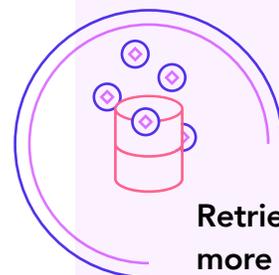
Move your private cloud to Dell EMC PowerEdge C6420 server nodes and boost Apache Cassandra database analysis

Powered by 2nd Generation Intel Xeon Scalable processors, Dell EMC PowerEdge C6420 server nodes handled 2X the operations per second of HPE ProLiant XL170r Gen9 nodes

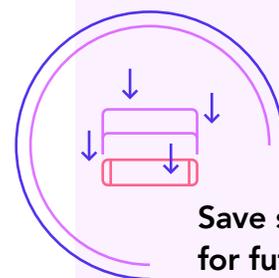
In an era when critical business decisions can depend on getting the right answers as quickly as possible, aging modular solutions in your organization's private cloud can slow you down. Business units may be able to retrieve the data they need today, but tomorrow's demands could be too much for your older server nodes.

If your private cloud runs Apache Cassandra workloads, the bump in performance from moving to new nodes could help put more in-depth, actionable insight into the hands of decision makers.

Running read-intensive Yahoo Cloud Serving Benchmark (YCSB) workloads in our data center, a current-generation modular solution of Dell EMC™ PowerEdge™ C6420 server nodes powered by 2nd Generation Intel® Xeon® Scalable processors outperformed an older modular solution of HPE ProLiant XL170r Gen9 nodes. In addition, the current-generation Dell EMC solution did more work in the same amount of rack space, which means you could also limit data center sprawl.



Retrieve more data
More than twice the operations per second



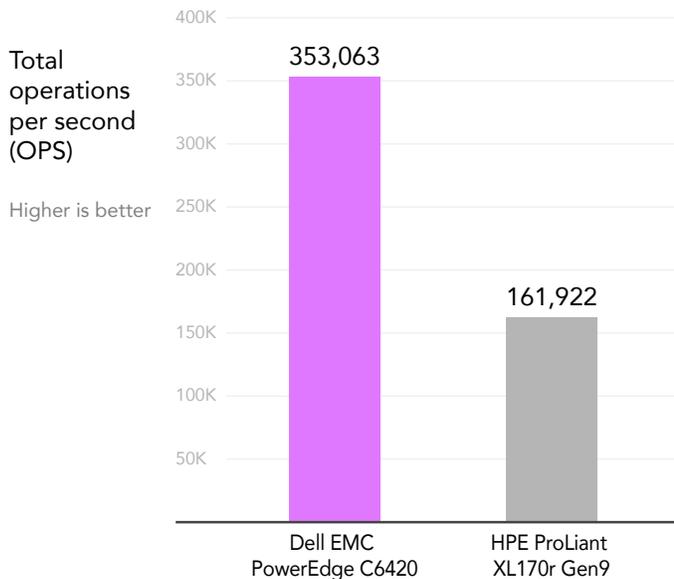
Save space for future endeavors
Twice the work in the same amount of rack space

Find more of what you're looking for in unstructured data

The Dell EMC PowerEdge C6420 solution powered by 2nd Generation Intel Xeon Scalable processors delivered more than twice the operations per second (OPS) of the older HPE ProLiant XL170r Gen9. This boost means a private cloud could handle the work of several older nodes while helping organizations prepare for data growth and increased analytic complexity.

Retrieve more data

More than twice the operations per second



Save rack space for future projects

Both the Dell EMC PowerEdge C6420 solution powered by 2nd Generation Intel Xeon Scalable processors and the older HPE ProLiant XL170r Gen9 use 2U of rack space. Handling twice the OPS in the same amount of rack space means your organization can preserve space for future data center initiatives by replacing older ProLiant XL170r Gen9 server nodes.

The winning solution at a glance

Dell EMC PowerEdge C6420 server

- A two-socket server node for the Dell EMC PowerEdge C6400 chassis
- 16 DDR4 DIMM slots
- Up to 30 TB of storage
- Offers density and scalability for highperformance computing and scale-out workloads¹

2nd Generation Intel Xeon Scalable processor platform

- Offers multiple levels of performance to match your workloads, including Bronze, Silver, Gold, and Platinum
- Supports Intel Optane™ DC persistent memory,² a new memory and storage technology for workload acceleration

Conclusion

If you replace older HPE ProLiant XL170r Gen9 server nodes with current-generation Dell EMC PowerEdge C6420 server nodes powered by Intel Xeon Scalable processors, business units in your organization could mine unstructured data for more in-depth actionable intelligence more quickly. You also can consolidate your older nodes with newer ones, which could help control private cloud costs such as power, cooling, and licensing.

- 1 Dell EMC, "PowerEdge C6420," accessed October 8, 2019, <https://www.dell.com/en-us/work/shop/povw/poweredge-c6420>.
- 2 Intel, "2nd Gen Intel Xeon Scalable Processors Brief," accessed October 8, 2019, <https://www.intel.com/content/www/us/en/products/docs/processors/xeon/2nd-gen-xeon-scalable-processors-brief.html>.

Read the report at <http://facts.pt/kk9hwux>



Facts matter.®

Principled Technologies is a registered trademark of Principled Technologies, Inc. All other product names are the trademarks of their respective owners. For additional information, review the report.