

Dell APEX Private Cloud can deliver better OLTP performance in a Kubernetes environment

Relative to a comparable AWS EC2 instance

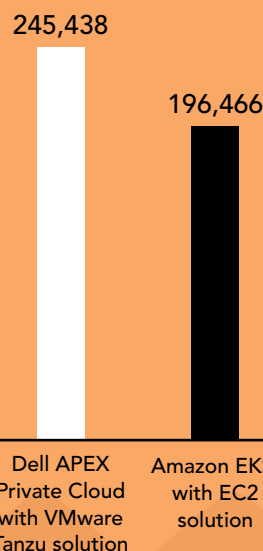


More transactions per minute*

Using the TPROC-C workload from the HammerDB 4.5 benchmark, we compared the online transaction processing (OLTP) performance of containerized SQL Server instances in a Kubernetes environment. For the Dell APEX Private Cloud solution, we used the VMware Tanzu best-effort-4xlarge instance on an Intel® Xeon® Platinum 8358 processor. For the AWS solution, we used the EC2 m6i.4xlarge instance on an Intel Xeon Platinum 8375C processor. For complete configuration details, [read the report](#).

24.9% more OLTP transactions per minute

TPM | Higher is better



More new orders per minute*

The Dell APEX Private Cloud solution processed 24.9 percent more OLTP transactions per minute and 24.7 percent more new orders per minute than the AWS solution. Based on these findings, organizations that process OLTP transactions in a Kubernetes cloud environment should consider choosing Dell APEX Private Cloud with VMware Tanzu.

24.7% more new orders per minute

NOPM | Higher is better



About the Intel Xeon Platinum 8358 Processor

Part of the 3rd Generation Intel Xeon Scalable Processor family, the Intel Xeon Platinum 8358 Processor has 32 cores, 64 threads, a maximum turbo frequency of 3.50 GHz, a processor base frequency of 2.90 GHz, and a 56MB cache. According to Intel, this processor family offers optimization for “cloud, enterprise, HPC, network, security, and IoT workloads with 8 to 40 powerful cores and a wide range of frequency, feature, and power levels.”**

Learn more at

<https://facts.pt/w2IV9JR>

*on a TPROC-C workload using Dell APEX Private Cloud with VMware Tanzu best-effort-4xlarge instance vs. Amazon EKS with EC2 m6i.4xlarge instance

**Intel, “3rd Gen Intel® Xeon® Scalable Processors,” accessed March 23, 2023, <https://www.intel.com/content/www/us/en/products/docs/processors/xeon/3rd-gen-xeon-scalable-processors-brief.html>.



Copyright 2023 Principled Technologies, Inc. Based on “Dell APEX Private Cloud can deliver better OLTP performance in a Kubernetes environment,” a Principled Technologies report, April 2023. Principled Technologies® is a registered trademark of Principled Technologies, Inc. All other product names are the trademarks of their respective owners.