

Deliver better return on investment and faster data analysis while performing image classification tasks with Dell Technologies APEX Private Cloud compared to a set of comparable Amazon EC2 instances

We compared the online analytics processing (OLAP) performance and cost of two solutions from Dell Technologies (APEX Private Cloud) and Amazon Web Services (general-purpose Amazon EC2 m5.2xlarge instances). We configured these solutions to have comparable specs.

Spend less over time

Estimated total cost of ownership (TCO) in USD over three years *Lower is better*



Three-node GPU-enabled Dell Technologies APEX Private Cloud capable of hosting nine ML VMs and twelve database VMs

\$311,863.86

Amazon EC2 solution with nine ML VMs (g4dn.xlarge) and twelve database VMs (m5.2xlarge)

\$402,272.28

Get faster OLAP analysis

Time to complete data analysis workload *Lower is better*



Dell Technologies APEX Private Cloud VM with 8 cores, 32 GB of RAM, and 2.5 TB of storage

10.5 hours

Amazon EC2 m5.2xlarge VM with 8 cores, 32 GB of RAM, and 2.5 TB of storage

40 hours

Support complex workloads at scale

We scaled up the APEX Private Cloud solution to use twelve database VMs performing the OLAP workload, and nine machine learning VMs performing image classification.



As little as

**14 hours &
11 minutes**

to complete an OLAP workload
with twelve VMs

Nine VMs processed

**4,701
queries/second each**

For a total of

**42,309
queries/second**

Learn more at <https://facts.pt/IOpaHrs>