# 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

**Principled Technologies**®