

Optimize Memory Capacity, Performance, and Cost with Tiered Memory

Traditional memory (DRAM) is not keeping up with the growing data demands of today. Intel® Optane™ technology is the solution.

DRAM Capacity Is Not Scaling Fast Enough



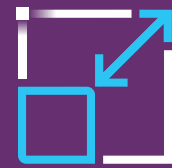
Compute Performance Growth Is Accelerating

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DRAM Scaling Speed Is Decreasing

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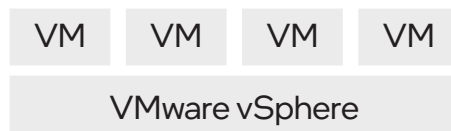
The Gap Between Data and Memory Is Widening

Deploy VMware vSphere with Tiered Memory
Cost-effectively expand memory capacity with no system modification

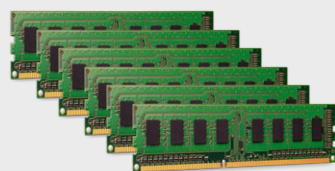


The concept of tiered storage has been around for decades. We applied the same concept to tiered memory.

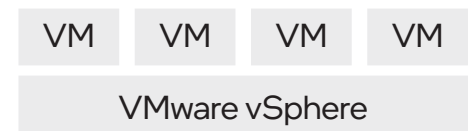
Legacy Architecture



Traditional Memory
Data stored in DRAM only with limited capacity is expensive

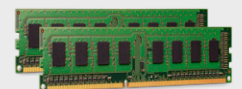


Today's Tiered Architecture



Tiered Memory
Data is stored in optimal 1:4 ratio, providing high-capacity and low TCO

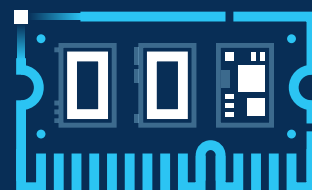
Cache Tier (DRAM DDR4)



Capacity Tier (Intel® Optane™ PMem)



Faster Access to More Data for Accelerated Insights



Decreased Cost via Lower Price/GB and Server Consolidation

Learn more about how **Intel Optane technology and VMware** work together to keep up with today's workloads.

