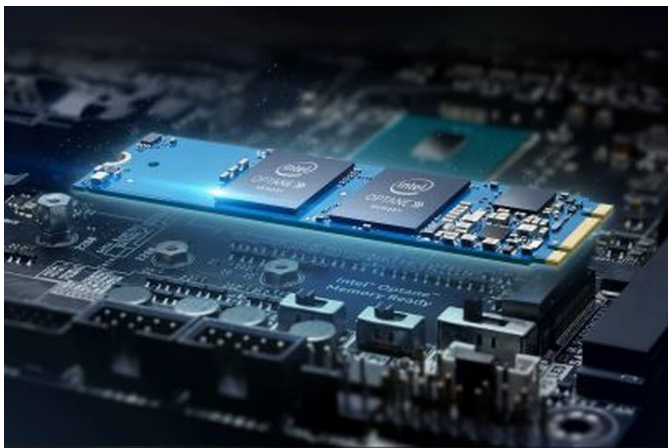


Aerospike Optimises Open Database for Intel Optane

Written by Frederick Douglas
20 December 2018

Aerospike announces Aerospike Enterprise Edition 4.5-- described by the company as the first commercially available enterprise-grade non-relational database supporting both traditional DRAM and Intel Optane DC persistent memory.



Aerospike database architecture natively supports a wide range of enterprise application environments, including Java, .NET, Node.js, Python, Go and other commonly used programming languages. Intel Optane is a memory/storage technology architected specifically for data-intensive applications demanding low latency, high durability and strong data consistency. It is available in beta form from multiple cloud service providers and hardware vendors, providing flexibility to run the Aerospike database in the cloud, on premises or both.

"Aerospike powers high-scale, real-time machine learning-based applications at many of the world's industry leading enterprises today," the company says. "Adding support for Intel Optane DC persistent memory into our existing storage hierarchy gives our customers greater flexibility to develop and deliver mission-critical, strategic operational applications at the edge, on premises or in the cloud."

The combination of persistence with highly parallel access to other storage tiers makes for a breakthrough in both high performance and scale. For instance, for planned restarts of a NoSQL in-memory database using Aerospike Hybrid Memory Architecture, Intel Optane DC persistent memory provides a minutes-to-seconds restarts speedup compared to DRAM-only cold restarts.

According to the company, the combination of the higher density of Optane memory (up to 512GB per module) compared to DRAM (currently limited to 128GB per DIMM) with the

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Aerospike hybrid memory density advantage of 10x (compared with traditional NoSQL databases) delivers a "massive" scale improvement with negligible performance impact. Version 4.5 follows the recent 4.3 release with extended support for in-memory and hybrid memory with all-flash-based storage, enabling support for petabyte-scale database implementations.

Aerospike Enterprise Edition 4.5 is available now.

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