Increase your virtual desktop density with Intel Optane persistent memory

Lenovo® ThinkSystem™ SR650

We tested two four-node Lenovo® ThinkSystem™ SR650 VMware® vSAN™ solutions for virtual desktop infrastructure (VDI): one that used 768 GB of traditional DRAM, and another that used a mix of 1.5TB of Intel® Optane™ persistent memory (PMem) with 384 GB of DRAM per node. Each solution had similar costs, but we found the Intel Optane persistent memory-based solution offered the following benefits:

GREATER MEMORY FOOTPRINT:
SUPPORT 2X THE VDI USERS*

MAXIMUM NUMBER OF VDI USERS PER FOUR-NODE CLUSTER
Higher is better

- 708
- 352
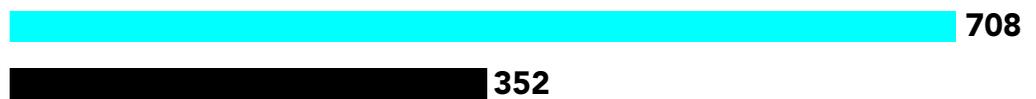
COMPARABLE DESKTOP RESPONSE TIME
VS. DRAM-ONLY SOLUTION*

DESKTOP RESPONSE TIMES
Lower is better

Time (ms)

Acceptable response threshold for our tests

	1,041	1,040	1,129
	Cluster with 768 GB of DRAM at 352 users	Cluster with 1.5 TB PMem at 352 users	Cluster with 1.5 TB PMem at 708 users
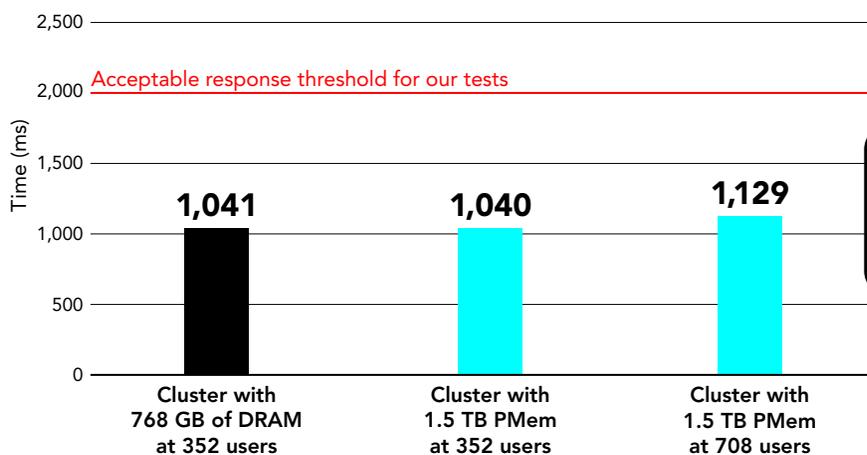
Support twice as many users with PMem with minimal increase in dekstop response time.

MORE COST-EFFICIENT:
PAY 51% LESS PER VDI USER*

COST PER VDI USER
AT MAXIMUM CLUSTER USER DENSITY
Lower is better

- $349.50
- $715.02

■ Four-node Lenovo ThinkSystem SR650 VMware vSAN cluster **with 1.5 TB of Intel Optane persistent memory and 384 GB of DRAM per node**

■ Four-node Lenovo ThinkSystem SR650 VMware vSAN cluster **with 768 GB of DRAM per node**

Learn more at http://facts.pt/ADMMVck