

HPE ProLiant Compute DL340 Gen12 achieves virtualization performance leadership

VMmark® 4 benchmark leadership with 6th Generation Intel® Xeon® Processors



Key takeaways

HPE ProLiant Compute DL340 Gen12 Server with Intel Xeon 6787P processors, virtualization performance claims based on being:

- #1 344 total cores
- #1 344 total cores with vSAN

This result defeated the following competitors in the 344 total cores category

- Outperformed Dell PowerEdge R770 by 6.2%
- Outperformed Lenovo ThinkSystem SR650 V4 by 4.7%

All benchmark results are valid as of 08-18-2025 and are published at [VMmark 4 results](#).

Executive summary

Packing a virtualization performance punch, the HPE ProLiant Compute DL340 Gen12 Server with 86-core Intel Xeon 6787P processors achieved benchmark leadership by achieving the highest result in the 344 total cores category on the VMmark 4 benchmark over the Dell PowerEdge R770 and the Lenovo ThinkSystem SR650 V4. HPE has achieved a 6.2% better virtualization score over Dell and a 4.7% better virtualization score over Lenovo in the total 344 total cores category. Compared to the Dell PowerEdge R770, the HPE ProLiant DL340 Gen12 achieved a higher virtualization score while using 36 fewer vCPU, demonstrating the ability to sustain a greater throughput in a mixed workload cloud environment while consuming fewer virtualized resources.

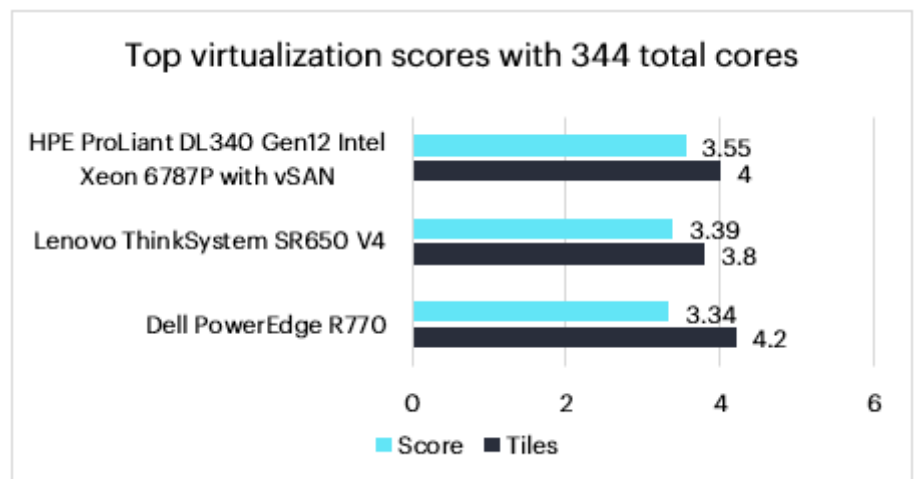


Figure 1. HPE surpasses two competitors in the 344 total cores category on the VMmark 4 benchmark

Next-level security, performance, and efficiency

HPE ProLiant Compute DL340 Gen12 server

The HPE ProLiant Compute DL340 Gen12 is a 2U 1P server that offers three CTO chassis that support SFF, LFF, and GPU configurations. The 3-box modular front design enhances the configuration flexibility. Due to the configuration flexibility and energy efficiency (reduced power consumption due to better thermals within a 2U chassis) the server is ideal for customers that have a requirement for Infrastructure as a Service (IaaS), Platform as a Service (PaaS), and Software as a Service (SaaS) workload. Powered by Intel® Xeon® 6 processors with up to 144 cores, increased memory capability (up to 4 TB), and high-speed PCIe Gen5, the HPE ProLiant Compute DL340 Gen12 SP server is a great 2U single socket performance solution driving better datacenter efficiency

Server configurations

HPE ProLiant Compute DL340 Gen12, 4 servers

- 1 Intel Xeon 6787P Processor @ 2.0/3.8 GHz
- 1024 GB memory
- 1 socket/86 cores/172 threads
- VMware vSAN™, 8.0 update 3 ESA All Flash storage
- Score: 3.55 @ 4 tiles
- Full disclosure report (FDR): [VMmark Results](#)

Lenovo ThinkSystem SR650 V4, 2 servers

- 2 Intel Xeon 6787P Processors @ 2.0/3.8 GHz
- 1024 GB memory
- 2 sockets/172 cores/344 threads
- Score: 3.39 @ 3.8 tiles
- FDR: [VMmark Results](#)

Dell PowerEdge R770, 2 servers

- 2 Intel Xeon 6787P Processors @ 2.0/3.8 GHz
- 1024 GB memory
- 2 sockets/172 cores/344 threads
- Score: 3.34 @ 4.2 tiles
- FDR: [VMmark Results](#)

HPE ProLiant Compute Gen12—engineered for your hybrid world

HPE ProLiant Compute brings a new level of security, performance, and efficiency to IT operations. With the pressure to deploy AI applications and rethink virtualization strategies, IT needs advanced capabilities to maximize productivity and performance. With the addition of new Gen12 systems, HPE has a full, modern portfolio of hardware and software solutions providing a secure foundation for the next generation of workloads, while increasing power efficiency and streamlining operations.

Secured

Next-level security with a robust, security-first design, built with multi-layered protection for now and for future threats.

Optimized

More performance and efficiency with the economics that deliver tailored solutions to power workloads from VDI to AI.

Automated

AI-drive productivity with proactive and predictive automation from data center to edge, leveraging a single management solution.

Bottom line

These performance benchmark records are another proof point for the leadership capability of the HPE ProLiant Compute DL340 Gen12 server. Hewlett Packard Enterprise continues to be on the cutting edge by designing products that stand the test of time with innovations that are ahead of their time. Achieving a higher score using the latest generation processors demonstrates the ability of the HPE ProLiant Compute DL340 Gen12 server to sustain a greater throughput in a mixed workload cloud environment while consuming fewer virtualized resources.

Learn more at

[HPE ProLiant Compute DL340 Gen12 server](#)

[HPE Server performance briefs](#)

Visit [HPE.com](#)

[Chat now](#)

© Copyright 2025 Hewlett Packard Enterprise Development LP. The information contained herein is subject to change without notice. The only warranties Hewlett Packard Enterprise products and services are set forth in the express warranty statements accompanying such products and services. Nothing herein should be construed as constituting an additional warranty. Hewlett Packard Enterprise shall not be liable for technical or editorial errors or omissions contained herein.

Intel Xeon is a trademark of Intel Corporation or its subsidiaries in the U.S. and/or other countries. VMmark® is a product of VMware, Inc. VMware vSAN and VMware are registered trademarks or trademarks of VMware, Inc. and its subsidiaries in the United States and other jurisdictions. All third-party marks are property of their respective owners

a50013626ENW

HEWLETT PACKARD ENTERPRISE

[hpe.com](#)

