



Improve MySQL™ Database Performance by up to 1.21x with Google Cloud™ N2 High-Memory Virtual Machines Featuring 2nd Gen Intel® Xeon® Scalable Processors

Google Cloud N2 high-memory VMs feature 2nd Generation Intel Xeon Scalable processors

Handle More MySQL Database Transactions in Google Cloud N2 High-Memory VMs

Organizations that rely on strong OLTP database performance to power e-commerce workloads will benefit from choosing Google Cloud instances that run on updated hardware. Customers accessing websites to make purchases demand fast service. Selecting newer, faster processors to power these critical workloads can ensure these users remain satisfied, allow your business to handle more customer transactions per minute, and ultimately increase revenue.

In MySQL transactional database tests comparing Google Cloud virtual machines, newer N2 high-memory instances enabled by 2nd Generation Intel Xeon Scalable processors outperformed N1 high-memory instances with older Intel Skylake processors, processing 1.21x the transactions per minute.

Whether your business is seeking to extend your existing cloud presence by adding new virtual machines or starting from scratch in the cloud, selecting Google Cloud N2 high-memory VMs running on 2nd Generation Intel Xeon Scalable processors will deliver the MySQL database performance you need to support more customers, accommodate business growth, and deliver better security features to valued customers.

Support More E-commerce Customers per Virtual Machine on a Google Cloud N2 High-Memory VM

When selecting the hardware configurations that drive your Google Cloud virtual machines, it may be tempting to choose a basic option that costs less to power your e-commerce workloads. However, selecting instances that can support only your existing customer base presents limitations—potentially slowing down the customer experience and cutting off your route to future growth.

HammerDB tests show Google Cloud N2 high-memory VMs with 2nd Generation Intel Xeon Scalable processors offer up to 1.21x the MySQL transactions per minute of N1 high-memory VMs running on Intel Skylake processors.

This means that organizations looking to deliver improved performance or support more customers per virtual machine can meet those goals by selecting Google Cloud N2 high-memory VMs with updated 2nd Generation Intel® Xeon® Scalable processors.



MySQL Database



Support 1.21x more customer transactions



Accommodate business growth with 1.21x better MySQL database performance



Enjoy improvements in hardware-enhanced security



Accommodate Your Quickly Growing Business on Fewer VMs

Successful businesses don't stagnate—they continue to add customers. For e-commerce workloads, this means more users accessing Google Cloud VMs to browse and make purchases, which taxes the underlying cloud infrastructure and requires expansion.

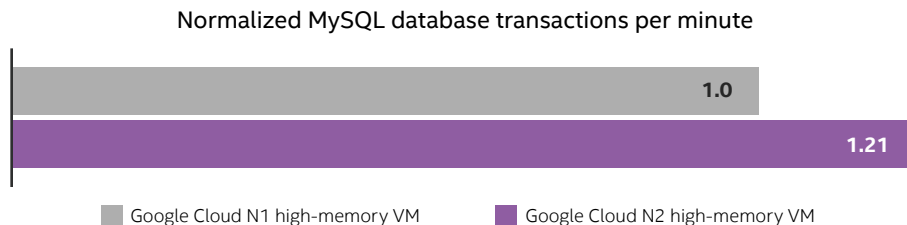


Figure 1. Performance results for MySQL on Google Cloud N2 high-memory VMs used for HammerDB testing.

By selecting Google Cloud N2 high-memory VMs with updated 2nd Generation Intel® Xeon® Scalable processors that offer 1.21x the database performance from the outset, your organization is primed and ready to handle additional customer activity without necessarily needing to immediately expand the number of VMs you operate, manage, and secure. Ensuring your cloud solution can handle day-to-day activity easily, support customer activity during peak times, and allow for business growth means your organization can postpone the additional operational expenses that come with more VM instances.

Google Cloud VMs with Updated Processors Offer Security and Agility Benefits

Operating your critical MySQL workloads on Google Cloud N2 high-memory VMs running on 2nd Generation Intel Xeon Scalable processors offers more than just performance benefits. With hardware-enhanced features such as Enhanced Intel Run Sure Technology, Intel Key Protection Technology, and Intel Trusted Execution Technology, 2nd Generation Intel Xeon Scalable processors increase data protection and reliability to deliver trusted services in cloud environments.

Learn More

To begin your MySQL database deployments on Google Cloud N2 high-memory virtual machines with 2nd Generation Intel Xeon Scalable processors, visit <https://intel.com/googlecloud>.



1. Pricing from Google Cloud, accessed October 22, 2020, https://cloud.google.com/compute/vm-instance-pricing#n2_predefined.

Performance varies by use, configuration and other factors. Learn more at <https://intel.com/benchmarks>.

Intel does not control or audit third-party data. You should consult other sources to evaluate accuracy. Your costs and results may vary.

Intel technologies may require enabled hardware, software or service activation.

© Intel Corporation. Intel, the Intel logo, and other Intel marks are trademarks of Intel Corporation or its subsidiaries. Other names and brands may be claimed as the property of others

Printed in USA 0121/JO/PT/PDF US001

