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>50% More Website Traffic and Web Services Transactions with New Azure® Dv4-series Virtual Machines

Azure Dds_v4-series VMs, feature Intel® Xeon® Platinum 8272CL processors.

Handle website traffic with ease

The Azure Dds_v4-series VMs, offering vCPUs powered by 2nd Gen Intel® Xeon® Scalable 8272CL processor vCPUs, consistently delivered great performance with only an average cost increase of 17%.

Strongest Performance: Choosing Azure D4ds_v4 virtual machines, support as much as 1.51x more web traffic than Azure D4s_v3 VMs.

Larger Website Benefits: Azure D4ds_v4 virtual machines, support as much as 1.46x more web traffic than Azure D4s_v3 virtual machines.

Larger Scale, Consistent eCommerce: Choosing Azure D64ds_v4 series virtual machines, support as much as 1.44x more web traffice than Azure D64s_v3-virtual machines.

Scale to handle up to 1.51x more Wordpress website traffic with the new Azure® Dds_v4-series virtual machines (VMs)

Choosing the right Azure Virtual Machines to handle the scalce of your business's web services and website transactions is critical to ensure you can meet the demands of your customers and their needs. When considering web traffic in the cloud, it's important to understand the type of processor that will best handle your business's changing demands.

Your website is often the first interaction your customers will have with your business and brand. If you rely on your web apps and they do not scale or perform well, users may leave and you may never get a second impression. To ensure they have a great experience while doing business with your site, you need a solution that can scale transaction processing to handle as many requests per second as possible—especially during peak traffic hours.

We tested transactional WordPress workloads on two series of Microsoft Azure VMs: new Dds_v4-series instances powered by Intel® Xeon® Platinum 8272CL processors, and older Ds_v3-series instances powered by Intel Xeon processors E5-2673 v4. Three instance sizes: small (4vCPUs), medium (16vCPUs), and large (64vCPUs) were evaluated to demonstrate their value. The new VMs processed, on average, 47% more website requests per second than the older instances. This could enable your business to support greater website traffic and many more simultaneous customer web app transactions.

>50% more web services tranactions per second

Whether you run a blog, manage a small company, or operate a large ecommerce site where thousands of people make purchases each hour, the performance findings suggest the Dds_v4-series VMs powered by 2nd gen Intel Xeon Platinum 8272CL processors can complete as much as 51% more web transactions per second more than the Ds_v3-series virtual machines.

Support 1.51x more web traffic and transactions

Scale up traffic and transactions with confidence

Consistently better performance across instance sizes

Better virtual machines for richer website experience, for more customers

Even though personal sites, blogs, and landing pages typically don't require much user interaction, being able to support many visits to your page at the same time is important as your web apps grow. In our tests, we found that the newer Dds_v4 instances powered by Intel Xeon Platinum 8272CL processors handled more requests per second than the older Ds_v3 instances powered by Intel Xeon processors E5-2673 v4.

Figure 1 shows that, on average, the new D4ds_v4 instances processed 178.5 requests per second compared to 117.5 requests per second on the older D4s_v3 instances. In other words, choosing the new Azure D4ds_v4 virtual machines means you would be able to support 1.51 times the web traffic and user interactions of the older virtual machines.
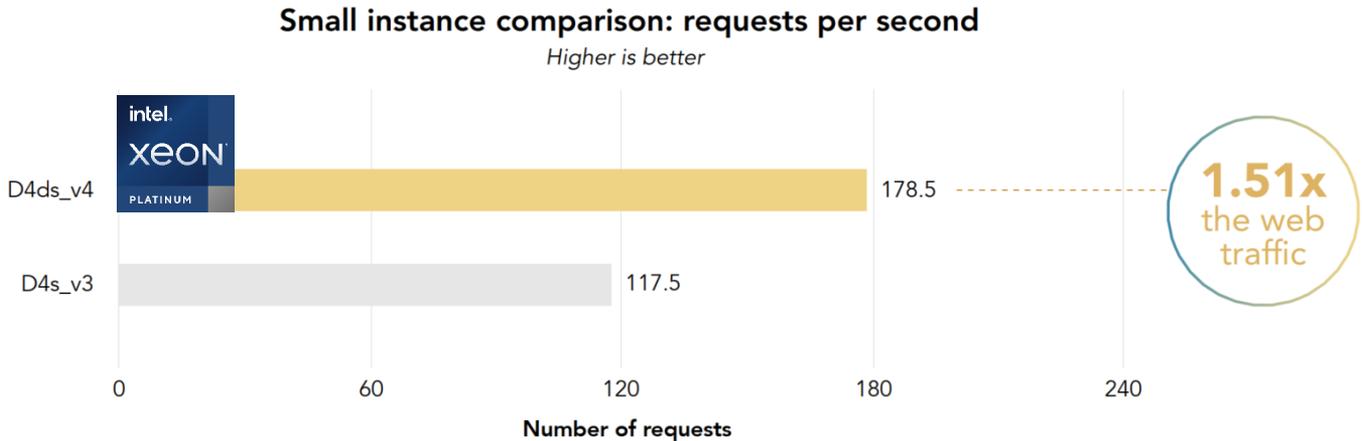
Small instance comparison: requests per second
Higher is better

D4ds_v4	178.5
D4s_v3	117.5

1.51x the web traffic

Number of requests

Figure 1. Average requests per second each 4vCPU small VM achieved with the WordPress workload.

For larger websites that feature more user interaction—such as a website that showcases images and text that content creators upload for their fans—new D16ds_v4 VMs for WordPress could support more audience interaction and provide a better user experience throughout the day compared to older D16s_v3 VMs. The new Intel Xeon Platinum 8272CL processor-powered Azure D16ds_v4 VMs completed 715.7 requests per second on average compared to 487.5 requests per second on the older Intel Xeon E5-2673 v4 processor-powered D16s_v3 VMs. In other words, the new instances accommodated 1.46 times the web traffic and interactions of the older instances.

For large companies that need to support many thousands of users that heavily interact with the company site— such as ecommerce giants that handle inventory, user account information, payment, shipment tracking, and more—being able to process more requests per second is critical for day-to-day business operations. We found that for large VMs, the new D64ds_v4 instances processed 664.4 more requests per second on average compared to the older D64s_v3 instances—meaning the new instances provided capacity for 1.44 times the web traffic of the older instances.

Greater web services throughput that more than justifies the cost

Your website and web apps serve an important function in your business, whether you run a blog or operate a large ecommerce site where thousands of people make purchases each second. The performance findings suggest the Azure Dds_v4-series VMs can complete 1.44x to 1.51x web transactions per second more than the Ds_v3-series VMs. Yet, at the time of this writing, all sizes of the Dds_v4-series, powered by 2nd gen Intel Xeon Platinum 8272CL processors, cost just 17% more than Ds_v3-series. By investing in Dds_v4-series virtual machines, you could be getting greater web services for your money.

Learn More, Process the Facts, Move Faster

Full 3rd party test report, visit http://facts.pt/yhxzcsy
More specific 3rd party test results and configurations, visit http://facts.pt/xif2usg

Begin your Web Services deployments on Azure Dv4-series with 2nd Gen Intel Xeon Platinum 8272CL processors, visit:

https://docs.microsoft.com/en-us/azure/virtual-machines/ddv4-ddsv4-series

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