

# Basic vs General Purpose or Memory Optimized IO Performance

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<https://techcommunity.microsoft.com/t5/azure-database-support-blog/understanding-performance-in-basic-tier-for-azure-database/ba-p/369142>

Had a case, 117051415735447, where customer was doing high IO operations and it was extremely slow. While we know the IO system differences as they have applied to Azure SQL DB for some time, the product team provided a great response to our customer regarding the performance. The **bold** paragraph should be nicely usable for scenarios of discussing performance with the customer but as Standard becomes available, customers should be able to give that a try as this customer only has Basic currently.

Hi Kevin,

I am the product management lead for the PostgreSQL service. I am given to understand you did not have a good experience testing with Basic service tier and had questions about standard tier and the expected performance differences. If it is okay for you, I would be happy to get on a short call with you and explain the offering including expectations on performance.

**In short, Basic service tier uses Azure standard storage that is backed by magnetic disks. This service tier therefore is not suitable for any workloads that needs predictable IO performance. Standard service tier on the other hand uses flash storage and provides predictable IO performance and scales at 3 IOPS per GB. Standard also provides more options to scale compute (100 -> 800 compute units).**

We did a controlled rollout of standard tier and is therefore not available in all regions due to limited capacity in our data centers. It is already enabled in East Asia today. In the coming weeks, we will be opening standard to more regions as the capacity challenge is being addressed. However as nick has already shared with you, we can enable you access to standard in any region of your choice.

Please let me know how I can be of further help and look forward to hearing from you.

Thanks,  
Sunil

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