Storage Disk IOPS

This guide demonstrates the IOPS achieved on a single data disk as well as a striped volume comprised of 3 data disks. In this demonstration you will show how to

* Perform a benchmark test to show the IOPS capable.

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## Pre-Requisites

This section lists the pre-requisites required for this demonstration.

* Azure subscription

## Setup

Estimated time: None. If you setup demo 1 and presented demo 1 then you are ready to present this demo. Otherwise, complete demo 1 first.

## Demo Steps

Estimated time: 5 mins

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| --- | --- |
| 1. RDP into the virtual machine you used in demo 1. 2. Revisit the Disk Management screen to show the two drive configurations ( F: and G: ). |  |
| 1. Open a CMD prompt window. 2. Change directories to C:\Temp\Diskspd (or where you placed DiskSpd in Demo 1) 3. Run the following commands:    1. diskspd -c2G -b2K -w20 -F8 -o32 -d10 -h F:\testfile.dat    2. While this is running explain the test you are performing. The test is an IO benchmark test against drive F: (the single 1TB drive). The test is performing a R/W test using the SQLIO benchmarking test tool. This is a tool that the Azure Storage team recommends using to benchmark storage. The test is running for 20 seconds (-s parameter).    3. When the test is done, point out the IOPS which should be ~500. Reiterating that the IOPS per data disk is 500 IOPS.    4. You need to point to the Write-IO, b/c Read-IO is typically cached. |  |
| 1. Run the following commands:    1. diskspd -c2G -b2K -w20 -F8 -o32 -d10 -h G:\testfile.dat    2. When the test is done, point out the IOPS which should be ~1500. Reiterating that the IOPS per data disk is 500 IOPS.   You need to point to the Write-IO, b/c Read-IO is typically cached. |  |

## Clean Up

To clean up this environment delete the resource group you created in the Setup section.