Lab Part 1: **Windows Disks, Volumes, and Features**

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IT278 Windows Administration

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July 31, 2022

1. Using VHD which is Virtual Hard Disk is for storing a computer’s hard drive, over a standard storage. VHD is also a physical hard disk and can create files and folders. It is similar to a traditional storage but has to be accesses and it can be managed, and it has to be installed. VHD with a Windows Operating System can host file systems like NTFS, FAT, exFAT, and UDFS.

Some advantages of using VHD over traditional storage reduces the storage cost, and it is also a better performance rate, and it is easier manage. One disadvantages of VHD are that you will have to continue to support it long term with the cost of the consumption. Another disadvantage is that it adds layers to the architecture of the storage system, which can make it difficult to work on when having troubles with troubleshooting.

2. A storage pool in Microsoft Server 2016 is a group of physical disks. It is also how you start a storage space. “A storage pool enables storage aggregation, elastic capacity expansion, and delegate administration.” ("Deploy Storage Spaces on a stand-alone server", 2022). With storage pools you can make virtual disks, which are also storage spaces. Any size disks can be put together to make one storage space. It is used in Microsoft Server 2016 for back up files, and also to store managed files.

Benefits storage pools adds more data protection. The data protection allows data to be recovered. Another benefit is it can also improve the system performance. It also requires no extra hardware, and you can expand the and add more space for the data when you need it.

References

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