**Activity 1**

In truth, there are clear advantages in favor of cloud storage as well as disadvantages. For example, cloud storage is not as costly as it would be to use physical storage such as hard disk drives and such. There is no longer a need to pay for a storage unit if a cloud storage company is handling your needs, so the system is more streamlined and organized with no unforeseen additional payments. In addition to costs, it must be mentioned that one only needs to pay for the amount of storage they require; depending on a company’s needs they could just pay less money for less storage, or vice versa. Cloud storage is also more convenient because of how accessible it is; one does not have to be in a specific location to access cloud data. One could access their data from anywhere they choose. If one has to move around constantly then it is definitely advantageous for them to depend on cloud storage. Loss of data is also significantly reduced, as opposed to a physical drive that may get damaged. Cloud storage offers great encryption, granting it efficient security. One can rest assured that their data is safe.

Disadvantages in cloud storage may arise from issues such as internet connection; the slower the connection the more one’s time will be consumed. That in itself may present an issue, the fact that one needs an internet connection at all. If one isn’t connected at all times they won’t have access to the data they need, which could really hurt the reliability of the company. Although security isn’t an issue per se, when one uses a cloud provider then there may be an issue with the integrity of the data being accessed (this is a concern touched on from earlier ages of cloud storage). Another disadvantage definitely lies in how hard a task it is to move data to another cloud provider. The larger the data a company stores away, the more difficult it will be to migrate, mainly because of how great the size of the data that is required to move is. This is an issue faced by several large businesses.

In summary, cloud storage is quite necessary in this day and age. The benefits outweigh the negatives, and cloud storage helps more than it is liable to hurt those who invest in it. Issues with it are easily solvable/preventable with the exception of data migration. One only needs a stable and decent internet connection as well as the resources/funds to keep up with paying for an adequate amount of cloud storage on a monthly basis. It is most imperative to keep track of how much storage a company actually needs, as prices can stack up and a company may not always need to use the same amount of storage every month. The opposite may be true, however – in that a company may require more storage than they did the previous month.

**Activity 2**

What makes WannaCry ransomware so incredibly dangerous is the fact that it infects all systems on a network. So not only one system is in risk, but rather the entire network is in danger. WannaCry however, doesn’t have to be such a threat. The security protocols on older models of Windows OSes are potentially at risk: *Windows 8, Windows XP,* & *Windows Server 2003*. One might notice these are by far older than most OSes that are more commonly used today. It is Windows-oriented, but not towards later models of the OS. One particular quick fix is upgrading your Windows OS to the latest that is available, and making sure that one is on the latest Windows update. Another way to buff up on protection against ransomware would be to install a ransomware blocker; many of these are free and are not too demanding as far as storage is concerned.

**Activity 3**

It is vital to have data backed up in a cybersecurity framework, if the integrity of a system is compromised it could not only be costly, but there would no longer be trust given towards whoever is in charge of cybersecurity.

* Use two-factor authorization for my personal pc to be unlocked.
* I have a 1 TB external USB 3.0 hard drive which I use to backup work and other documents.
* I occasionally use Microsoft OneDrive and Google Drive to store different documents that I may require for later use.
* I plan to obtain a flash drive for booting my system off another OS.

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