CMPS1211-HF: LAB11-13 (50 points)

Date: _Apr 9, 2024_ Group: _S1-9_ 1: _T.D._ 2: _E.B._

For this lab, you will identify and set file and folder compression and encryption.

Lab 11-13.1   Using Compression (Windows 10) - 10 points

Note: The disk volume must have an NTFS file system on it in order to do this section. To check: right-click the hard drive volume that contains Windows and select Properties. In the Properties window near the top, file system type is listed.

a. Create a file called Compression File using Notepad and save it in the Documents folder on the hard drive. The text to be placed in the file follows. <u>Copy the text below 25 times in the document</u>.

> The most successful career must show a waste of strength that might have removed mountains, and the most unsuccessful is not that of the man who is taken unprepared, but of him who has prepared and is never taken. On a tragedy of that kind, our national morality is duly silent. —Edward M. Forster

b. Close the Notepad application window. Using Windows Explorer, locate Compression File. Right-click the filename and select Properties. What is the current Compression File file size on disk? **8.00 KB (8,192 bytes)**

c. Right-click the filename and select Properties. Click the Advanced button. In the Advanced Attributes dialog box, locate the Compress or Encrypt attributes section. Click the Compress contents to save disk space checkbox. This option is used to compress a file or folder. Click the OK button. Again, click the OK button to finish the process. Keep in mind that in order to save disk space efficiently, the file needs to be at least 4K of disk space. Using Windows Explorer, locate Compression File. Right-click the filename and select Properties. What is the current Compression File file size on disk? **4.00 KB (4,096 bytes)**

Lab 11-13.2   Enabling Encryption (Windows 10) – 10 points

Note: The disk volume must have an NTFS file system on it in order to do this section.

a. Create a file called Encryption File using Notepad and save it to My Documents. Place the following text in the file:

> I do not fear computers. I fear the lack of them. —Isaac Asimov

b. Close the Notepad application window. Using Windows Explorer, locate Encryption File. Right-click the filename and select Properties. What is the current Encryption File file size? **63 bytes (63 bytes)**

c. Right-click the filename and select Properties. Click the Advanced button. In Advanced Attributes dialog box, locate Compress or Encrypt attributes section. Click Encrypt contents to secure data checkbox (option used to encrypt a file or folder). Click OK button twice. Click **Encrypt the file only** radio button and click OK. Using Windows Explorer, locate Encryption File. Right-click the filename and select Properties. What is the current Encryption File file size after encryption? **63 bytes (63 bytes)**

Lab 11-13.3   Windows 10 Upgrade/Installation – 30 points

a. Minimum Hardware requirements for Windows 10. (10 points)

Processor?	RAM?	Graphics card?	Display?	Hard disk space?
1GHz	1GB (32 bit) / 2GB (64 bit)	Direct X9 with WDDM 1.0 Driver	800x600	16GB (32 bit) / 2GB (64 bit)

b. Differences between an Upgrade and a Clean install of Windows 10. (20 points)

Upgrade (three main benefits)	Clean Install (three main things to know)
1.) It preserves your files, settings, and applications; It allows you to keep all your personal data, installed programs, and system settings intact while updating.	1.) It provides you with a clean fresh start, as it completely erases your hard drive and installs a new copy of Windows, which gives you a clean slate to work with.
2.) It is faster and more convenient; it is generally quicker than performing a clean install since you don't need to reinstall apps and reconfigure your settings.	2.) It resolves performance and stability issues; if your current system has accumulated clutter, errors, or instability overtime, this can help.
3.) It maintains compatibility with existing hardware and software; it minimizes the risk of encountering compatibility issues with your current hardware & software.	3.) It allows for better customization and you have the opportunity to selectively install only the apps & drivers you need.