Module 4: Project

The two Operating systems I will be comparing and contrasting are Linux and Ios. Linux is an open-source operating system that directly manages a system’s hardware and resources, like CPU, memory, and storage. (“What Is Linux?” *Red Hat - We Make Open Source Technologies for the Enterprise*, <https://www.redhat.com/en/topics/linux/what-is-linux>.”.) ios are similar to this because it is also an operating system except it is for the iPhone, but unlike Linux, ios have a heavy emphasis on swiping, tapping, and pinching(“What Is Ios? - Definition from Techopedia.” *Techopedia.com*, <https://www.techopedia.com/definition/25206/ios>.) There are many Differences between the two systems even though they are both operating systems like the fact that the Linux kernel type is Monolithic and ios kernel type is a hybrid, also the fact that they were released almost a decade after each other, as well as Linux updates are dependent on distribution and ios updates are based on the software as a whole. (“Difference between Linux and IOS.” *GeeksforGeeks*, GeeksforGeeks, 9 July 2020, https://www.geeksforgeeks.org/difference-between-linux-and-ios/.)

File systems are a way in which files are named and where they are placed logically for storage and retrieval. Without the file system, information and files would be hard to retrieve and organize. (Sullivan, Erin, and Ellen O'Brien. “What Is a File System?” *Storage*, TechTarget, 15 Aug. 2018, https://www.techtarget.com/searchstorage/definition/file-system.) It works by being an index for what is stored within the files it creates and sorts specific paths through directories. Being able to name and have subcategories within storage is another benefit, it also can sort when it was made and the file size which is good for organization purposes. (Sullivan, Erin, and Ellen O'Brien. “What Is a File System?” *Storage*, TechTarget, 15 Aug. 2018, <https://www.techtarget.com/searchstorage/definition/file-system>.)

The best file system for Linux is Ext4 this is because Ext4 was specifically developed for Linux and is its default for Linux in recent versions.But if you are looking for something else like Reiserfs that helps store a lot of small files also comes with metablock prevents file systems blocks, there is also BTRFS which people seem to think is more of a long term solution then the ext4 as stated above. but if you were looking for an easy file system ext4 would be the easiest to use and manage(Tirthakar, Swapnil. *5 Best Linux File Systems*, 1 Jan. 1967, https://linuxhint.com/best\_linux\_file\_systems\_5/#:~:text=Most%20of%20the%20recent%20Linux,flexible%20file%20systems%20out%20there.)

Works Sited

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