Jeremiah Nicols

Professor Dodge

Computer Technologies

Oct. 8, 2023

Module 4: Project

Linux and macOS use open-source software, even though Linux distributions are entirely open source, some of macOS are not and are proprietary. “Mac and Linux have similar terminal emulators, but Linux is entirely free and open-source software” (Kumwenda). On Linux you can use it on any hardware while macOS is meant specifically for Mac devices. When you buy an apple pc you are buying both the software and hardware. “A file system is a method of organizing and retrieving files in storage by dividing data into pieces and naming them” (Lavarian). Without a file system the data stored on a device would be one big pile of data shuffled together. Files are separated into groups called directories which can contain more files and more directories. “EXT4 (Fourth Extended File System) is considered the standard for Linux distributions. It excels in preventing the loss of data after a system crash, as well as having the features “extents” and “delayed allocations” which manage how data is written and improve performance” (Kourafalos). “XFS specializes in rendering 3D graphics, which is the best option for systems that are constantly reading and writing data” (Kourafalos). “F2FS is a flash-based system and was created by Samsung primarily in order to split the storage medium into smaller parts which contain zones with smaller parts and so on. F2FS (Flash-Friendly File System) doesn’t have many features where it exceeds, based on speed or data security, compared to other file systems and their superior feature-sets" (Kourafalos). However, F2FS is one of the best at flash-based storage, since it was created for that purpose specifically.

Works Cited

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