Filesystem Types Video: Module Introduction Module 4 Glossary 38 sec Video: Review of Filesystems Reading: Supplemental Reading for New terms and their definitions: Course 3 Week 4 FAT32 File System Command line mode: When you are able to run commands while still in your current shell Video: Disk Partitioning and File Data: Actual content of a file System Essentials **Data buffer:** A region of RAM that's used to temporarily store data while it's being moved around Video: Windows: Disk Partitioning and Formatting a Filesystem **Defragmentation:** A process of taking all the files stored on a given disk and reorganizing them into neighboring locations Reading: Supplemental Reading for **Disk Management utility:** Native tool for Windows that helps with managing disk space Disk Partitioning and Formatting in Windows File record number: The index of the files entry in the MFT File system: Used to keep track of files and file storage on a disk Video: Windows: Mounting and Unmounting a Filesystem 37 sec Hard link: When created in NTFS, an entry is added to the MFT that points to the linked file record number, not the name of the file. This means the file name of the target can change and the hard link will still point to it Video: Linux: Disk Partitioning and Formatting a Filesystem Inode: A file structure for metadata and files **Interactive mode:** When the parted tool launches you into a separate program Video: Linux: Mounting and Master boot record (MBR): a traditional partition table within a storage disk that lets you have volume sizes of 2 terabytes or less and is mostly used in the Windows OS Reading: Supplemental reading Mounting and Unmounting a Filesystem in Linux Master file table (MFT): A way NTFS stores and represents the files you're working with on your operating system **Memory manager:** A Windows OS program that helps manage virtual memory Video: Windows: Swap **Metadata:** Tells us everything we need to know about a file, including who created it, when it was last modified, who has access to it, and what type of file it is. Reading: Supplemental Reading for Windows Paging **Mounting:** Making a file or hard disk accessible to the computer 10 min Partition table: How the disk is partitioned on an OS Video: Linux: Swap **Shortcut:** An entry in the MFT that has a reference to some destination, so that when you open it up, you get taken to Reading: Supplemental Reading for that destination Linux Swap 10 min **Softlinks:** A shortcut in Linux, that allows us to link to another file using a file name Video: Windows: Files **Swap space:** The allocated space where the virtual memory is stored on the hard drive when the amount of physical memory space is used up or full Reading: Supplemental Reading on NTFS File System **Symbolic links:** Work similarly to shortcuts, but at the file system level. The key difference is that the operating system treats them like substitutes for the file they're linked to in almost every meaningful way Video: Linux: Files **System properties:** A control panel applet that allows you to edit the size and number and location of paging files Video: Windows: Disk Usage **Trim:** A command to delete unused data blocks so the space can be used for the computer's storage needs **UEFI:** A new standard for BIOS Reading: Supplemental Reading for Windows Disk Usage **UUID:** Universally Unique ID Video: Linux: Disk Usage **Virtual memory:** A combination of hard drive space and RAM that acts like memory which our processes can use **Volume:** A format for a filesystem on a partition Reading: Supplemental reading for Linux Disk Usage 10 min Video: Windows: Filesystem Repair Terms and their definitions from previous weeks Video: Linux: Filesystem Repair **Absolute path:** It is one that starts from the main directory Reading: Supplemental Reading for Linux Filesystem Repair ACI: Access Control Lists **Administrator:** A user that has complete control over a machine Discussion Prompt: Disk Alias: A nickname for common commands 10 min Appending flags: A way to add the data of the file without erasing existing data Practice Quiz: Filesystem Types **App Store apps:** A Package Manager that acts as a repository Video: Ben: The power of computers1 min **App store repository:** A app store service that also acts as a repository Reading: Module 4 Glossary **App stores:** A central managed marketplace for app developers to publish and sell mobile apps **APPX:** An APPX is another way to package contents of a file to act like a unit of distribution **Graded Assessments Archive:** An archive is comprised of one or more files that are compressed into a single file" for verb agreement Bash: The language used to interact with the shell **Biometric data:** A way of protecting your accounts and information using biometric data such as facial recognition and **Block devices:** A system that acts like USB drives and hard drive by transmitting data **Cache:** The assigned stored location for recently or frequently accessed data; on a mobile app it is where anything that was changed or created with that app is stored Character devices: A way to transmit data character by character like a keyboard and mouse Chocolatey: A third party package manager for Windows **CLI:** Command line interpreter Closed source packages: A source code that does not allow public access **Command line:** A text interface program for a computer that inputs text commands and translates them to the operating system **Computer management:** A tool that lets you manage a local or remote computer **DACL:** Directory Control Lists **Debian(.deb):** A Debian package is packaged as a .deb file **Device manager:** A console management system for your device **Driver:** Used to help our hardware devices interact with our Operating System **Dynamic-link libraries:** Programs that want to use functionality that the code provides can tap into it if they need to (shared libraries) **Enterprise app management:** A management system that allows an organization to distribute custom mobile apps **Escape characters:** A concept that means that the next character after the back tick should be treated literally **Executable file:** A file containing instructions for a computer to execute when they're run .exe: A file extension found in Windows for an executable file **File permissions:** A process for setting permissions for who has access to certain files Full control: A user or group with full control that can do anything they want to files **Groups:** A collection of users **GUI:** A graphical user interface Hardware ID: A special string of characters assigned to hardware **Having dependencies:** A process of counting on other pieces of software to make an application work since one bit of code depends on another in order to work **Hidden files:** A set of files that are not visible either to avoid alteration or simply because you don't want someone to see them Hot key: A keyboard shortcut that does a particular task Inherit only: A permission group that means that a DACL will be inherited, but not applied to a container Installing from source: A process of installing from a source I/O Streams: An input stream handles data flowing into and out of a program **Kernel module:** It extends the kernel's functionality so developers don't have to actually touch the Linux kernel **Library:** A way to package a bunch of useful code that someone else wrote **List folder contents:** A command that will execute and list folder contents and is an alias for Read and Execute Manifest: A library used if an application needs to use a shared library Microsoft Install Package(.msi) and MSI files: Microsoft Install Package is a file extension used to guide a program called Windows Installer in the installation, maintenance, and removal of programs of the windows operating systems. MSI files are a combination of of databases that contain installation instructions in different tables along with all the Mobile applications: Software that is distributed on mobile OS devices **Mobile device management:** A system used to apply and enforce rules about how the device has to be configured and **Modify:** An umbrella permission that includes read and execute and write **Packaged archives:** The core or source software files that are compressed into one file **Packaged managers:** An application that makes package installation and removal easier Parameter: A value that is associated with a command Parent directory & child directories: A parent directory is a directory that houses all subsequent child directories **Paths:** A main directory that branches off and holds other directories and files **Personal package archives:** A software repository for uploading source packages to be built and published Portable Executable (PE) format: Windows unique version of .exe **Primary account:** The initial account you made during setup **Process monitoring:** A way of monitoring what processes are happening during installation **Prompt:** A prompt shows you which directory you're currently in **Read and execute permission:** Permissions that grant you access to read the file that exists and execute it if its **Read permission:** Permissions that grant you access to read the file that exists **Regular expression:** A pattern matching language that describes words, phrases, or more complicated patterns; regular expressions are used to help you do advanced pattern based selection **Relative path:** It is a path from your current directory **Repository:** A server that acts like a central storage location for packages Root directory: A parent directory for all other directories in a file system Root user: It is the first user that gets automatically created when we install a Linux OS and has all the privileges on the OS. Also called the super user. There's technically only one superuser or root account, but anyone that's granted access to use their powers can be called a superuser too SACL's: System Access Control List SD devices: Mass storage devices like hard drives **Security patch:** A piece of software that is meant to fix up a security hole **Shell:** A shell is a command line interpreter for Linux **Side-by-side assemblies:** A system that manages most shared libraries and resources on Windows and supports access to multiple versions of the same shared library automatically **Side-loading:** A process of installing mobile apps directly without using an app store Simple permissions: Special or specific permissions **Single sign on (SSO):** An account that grants you access to multiple accounts without require constant entry of a **Standard error (stderr):** A data stream that redirect the output of error messages in a different output stream. It works both in Linux and Windows **Standard In (stdin):** A data stream in which the input that you provide through the keyboard goes to the standard in stream of the process that you're interacting with. It works both in Linux and Windows Standard out (stdout): A data stream that when a process creates output, it adds data to the standard out stream, which flows out of the process. It works both in Linux and Windows **Standard user:** A user who is given access to the machine but has restricted access to do thing like install software or change certain setting **Stdin, stdout, stderr:** Three data streams created when you launch a Linux command **Subdirectories:** A directory below or at a deeper level in the directory hierarchy **Sysinternals package:** A set of tools released by Microsoft that can help you troubleshoot **Tab completion:** A way to auto-complete a command or file names and directories **Wildcard:** A character that is used to help select files based on a certain pattern **Windows domain:** A network of computers and users that are added to a central database **Windows Search service:** A service that indexes files on your computer by looking through them on a schedule **Windows store:** A Windows store is an application repository or warehouse where you can download and instal universal Windows platform apps **Windows update client service:** System that runs in the background on your computer to download and install updates and patches for your operating system Write permission: A permission that allows you to make changes to a file

Mark as completed