

How Linux Works What Every Superuser Should Know

== History... == e3238607c1 Multi-booting allows more than one operating system to reside on one computer; for example, if a user has a primary operating system that they use most frequently and an alternate operating system that they use less frequently. Multi-booting allows a new operating system to configure all applications needed and migrate data before removing the old operating system, if desired. Another reason for multi-booting can be to investigate or test a new operating system without switching completely. e3238607c1

Rooting (Android) Because Android is based on a modified version of the Linux kernel, rooting an Android device gives access to administrative (superuser) permissions similar to those on Linux or any other Unix-like operating system such as FreeBSD or macOS. version of the Linux kernel, rooting an Android device gives access to administrative (superuser) permissions similar to those on Linux or any other Unix-like Rooting is the process by which users of Android devices can attain privileged control (known as root access) over various subsystems of the device, usually smartphones and tablets e3238607c1

== Contents == e3238607c1 == Projects under LFS == e3238607c1 At the end of issue 1 in the 'letters pages' section, author Lewis Shiner reveals that he'd based The Hacker Files story and comic book protagonist Jack Marshall on his unpublished novel Red Weather, which he'd began developing in Summer 1978. That story dealt with a software programmer in his late-twenties named "Jack Marshall", who worked for a sinister Texas-based computer company. This in itself was inspired by Shiner's employment with Warrex Computer Corp. in the '70s who produced the Centurion family of minicomputers. e3238607c1 == Publication history == e3238607c1 == Usage == e3238607c1

Inode Dennis Ritchie doesn't know either". Each inode stores the attributes and disk block locations of the object's data. Landley, Rob (July 20, 2002). Retrieved 2011-01-12 An inode (index node) is a data structure in a Unix-style file system that describes a file-system object such as a file or a directory. "Fwd: Re: What does the "i" in inode stand for. linux-kernel (Mailing list). File-system object attributes may include metadata (times of last change, access, modification), as well as owner and permission data e3238607c1

Linux from Scratch Linux From Scratch is a way Linux From Scratch (LFS) is a type of Linux installation, and the name of a book written by Gerard Beekmans, and as of May 2021, mainly maintained by Bruce Dubbs. The book is available freely from the Linux From Scratch site. The book is available freely from the Linux From Scratch site. The book gives readers instructions on how to build a Linux system from source. readers instructions on how to build a Linux system from source e3238607c1

Multi-booting is also useful in situations where different software requires different operating systems. A multi-boot configuration allows a user to use all of their software on one computer. This is often accomplished by using a boot loader such as NTLDR, Windows Boot Manager, LILO, or GRUB which can boot more than one operating system. e3238607c1 There has been uncertainty on the Linux kernel mailing list about the reason for the "i" in "inode". In 2002, the question was brought to Unix pioneer Dennis Ritchie, who replied: In truth, I don't know either. It was just a term that we started to use. "Index" is my best guess, because of the slightly unusual file system structure that stored the access information of files as a flat array on the disk, with all the hierarchical directory information living aside from this. Thus the i-number is an index in this array, the i-node is the selected element of the array. (The "i-" notation was used in the 1st edition manual; its hyphen was gradually dropped.) e3238607c1 D-Bus is an inter-process communication (IPC) mechanism initially designed to replace the software component communications systems CORBA and DCOP, used by the GNOME and KDE Linux desktop environments respectively. The components of these desktop environments are normally distributed in many processes, each providing only one or a few services. These services may be used by regular client applications or by other components of the desktop environment to perform their tasks. e3238607c1 == History and support == e3238607c1 The freedesktop.org project also developed a free and open-source software library called libdbus, as a reference implementation of the specification. This library is not D-Bus itself, as other implementations of the D-Bus specification also exist, such as GDBus (GNOME), QtDBus (Qt/KDE), dbus-java and sd-bus (part of systemd). e3238607c1 Rooting is often performed to overcome limitations that carriers and hardware manufacturers put on some devices. Thus, rooting allows the users to alter or replace system applications and settings, run specialized applications ("apps") that require administrator-level permissions, or perform other operations that are otherwise inaccessible to a normal Android user. On some devices, rooting can also facilitate the complete removal and replacement of the device's operating system, usually with a more recent release of its current operating system. e3238607c1 Root access is sometimes compared to jailbreaking on devices running the Apple iOS operating system. However, these are different concepts: jailbreaking is the bypass of several types of Apple prohibitions for the end user, including... e3238607c1

LibATA swapping and Native Command Queuing. 62. libATA provides an ATA driver API, class transports for ATA and ATAPI devices, and SCSI / ATA Translation for ATA devices according to the T10 SAT specification.). Features include power management, Self-Monitoring, Analysis, and Reporting Technology, PATA/SATA, ATAPI, port multiplier, hot swapping and Native Command Queuing. San Francisco, CA. p. Ward, Brian (2015). ISBN 978-1-59327-645-4 libATA is a library used inside the Linux kernel to support ATA host controllers and devices. How Linux works : what every superuser should know (2nd ed e3238607c1

The Hacker Files In issue No. As in UNIX, BSD and Linux, there are user and superuser accounts. It was written by Lewis Shiner and illustrated by Tom Sutton. 11 of the series Digitronix technicians The Hacker Files is a

twelve issue DC Comics mini-series published from August 1992 to July 1993. interacts with DROS are Unix commands e3238607c1

== Etymology == e3238607c1 is a message-oriented middleware mechanism that allows communication between multiple processes running concurrently on the same machine. D-Bus was developed as part of the freedesktop.org project, initiated by GNOME developer Havoc Pennington to standardize services provided by Linux desktop environments such as GNOME and KDE Plasma. e3238607c1 Multi-booting is also used by software developers when multiple operating systems... e3238607c1 To keep LFS small and focused, the book Beyond Linux From Scratch (BLFS) was created, which presents instructions on how to further develop the basic Linux system that was created in LFS. It introduces and guides the reader through additions to the system including the X Window System, desktop environments (KDE, GNOME, Xfce, LXDE), productivity software, web browsers, programming languages and tools, multimedia software, and network management and system administration... e3238607c1 Most of the major Linux distributions, including RedHat, SuSE, and Debian, do not employ umsdos to permit installation of Linux on a FAT disc volume. A few distributions do, however. These include distributions such as Phat Linux, which installs in C:\PHAT on DOS by unpacking a ZIP file and is booted by running a COMMAND.COM script named LINUX.BAT, and ZipSlack. e3238607c1

FAT filesystem and Linux ISBN 978-0-7821-4138-2. ISBN 978-1-59327-035-3 Linux has several filesystem drivers for the File Allocation Table (FAT) filesystem format. No Starch Press Series. No Starch Press. These are commonly known by the names used in the mount command to invoke particular drivers in the kernel: msdos, vfat, and umsdos. Ward, Brian (2004). 41. p. How Linux works: what every superuser should know e3238607c1

The UMSDOS project was started in 1992 by Jacques Gelinas and made available to the net in January 1994 as a patch. It was included in the standard distribution starting with kernel 1.1.36. UMSDOS was removed from the Linux 2.6.11 kernel for lack of maintenance. UVFAT, an extension of UMSDOS to use the Windows data structures for long filenames instead of its own, was discontinued before release. They should work in 2.4.x kernels. e3238607c1 Linux From Scratch is a way to install a working Linux system by building all components of it manually. This is, naturally, a longer process than installing a pre-compiled Linux distribution. According to the Linux From Scratch site, the advantages to this method are a compact, flexible and secure system and a greater understanding of the internal workings of the Linux-based operating systems. e3238607c1 The series, written by cyberpunk novelist Lewis Shiner, is notable for the appearance of a post-Suicide Squad member Barbara Gordon (Oracle), as well as the introduction of the Digitronix computer company, a fictitious computer brand which would continue to show up in the DCU for years thereafter. e3238607c1

Multi-booting 2020-11-11. No Starch Press. Ward, Brian (2004). Retrieved 2025-10-24. ISBN 9781593270353. m_kiewitz Multi-booting is the act of installing multiple operating systems on a single computer, and being able to choose which one to boot. Multi-booting may require a custom boot loader. p. How Linux Works: What Every SuperUser Should Know. 39. The term dual-booting refers to the common configuration of specifically two operating systems e3238607c1

Boot folder Linux Foundation Referenced Specifications. How Linux works what every superuser should know In Unix-like operating systems, a boot folder is the directory which holds files used in booting the operating system, typically /boot. March 19, 2015. The usage is standardized within Linux in the Filesystem Hierarchy Standard. Retrieved June 7, 2021. Ward, Brian (2004) e3238607c1

D-Bus San Francisco: No Starch Press (published D-Bus (short for "Desktop Bus"). Brian (2004). "14: A brief survey of the Linux desktop". How Linux Works: What Every Superuser Should Know (2 ed.) e3238607c1

Disk partitioning No Starch Press. System administrators use a program called a partition editor to create, resize, delete, and manipulate the partitions. A disadvantage is that it can be difficult to properly size partitions, resulting in having one partition with too much free space and another nearly totally allocated. Partitioning can also make backing up easier. J Disk partitioning or disk slicing is the creation of one or more regions on secondary storage, so that each region can be managed separately. Ward, Brian (2004). UNIX Administration. Each partition then appears to the operating system as a distinct "logical" disk that uses part of the actual disk. How Linux Works: What Every SuperUser Should Know. p. 39. Separating user data from system data can prevent the system partition from becoming full and rendering the system unusable. ISBN 9781593270353. R. (2002). The disk stores the information about the partitions' locations and sizes in an area known as the partition table that the operating system reads before any other part of the disk. Partitioning allows the use of different filesystems to be installed for different kinds of files. These regions are called partitions. It is typically the first step of preparing a newly installed disk after a partitioning scheme is chosen for the new disk before any file system is created e3238607c1

Earlier Linux distributions which used UMSDOS are MuLinux, Monkey Linux and Winlinux 2000. e3238607c1 A directory is a list of inodes with their assigned names. The list includes an entry for itself, its parent, and each of its children. e3238607c1 == References == e3238607c1 The contents are mostly Linux kernel files or boot loader files, depending on the boot loader, most commonly (on Linux) LILO or GRUB. e3238607c1 D-Bus provides... e3238607c1 == Overview == e3238607c1

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