

The Linux System Administrator S Guide

A file system provides a data storage service that allows applications to share mass storage. Without a file system, applications could access the storage in incompatible ways that lead to resource contention, data corruption and data loss. 97416f457c

SUSE Linux Enterprise It is available in two editions, suffixed with Server (SLES) for servers and mainframes, and Desktop (SLED) for workstations and desktop computers. SUSE Linux Enterprise (SLE) is a Linux-based operating system developed by SUSE. It is available in two editions, suffixed with Server (SLES) for servers SUSE Linux Enterprise (SLE) is a Linux-based operating system developed by SUSE 97416f457c

Windows Subsystem for Linux WSL 2 (announced May Windows Subsystem for Linux (WSL) is a component of Microsoft Windows that allows the use of a Linux environment from within Windows, foregoing the overhead of a virtual machine and being an alternative to dual booting. In Windows 10, WSL can be installed either by joining the Windows Insider program or manually via Microsoft Store or Winget. The WSL command-line interface tool is installed by default in Windows 11, but a distribution must be downloaded and installed through it before use. a compatibility layer for running Linux binary executables (in ELF format) by implementing Linux system calls in the Windows kernel 97416f457c

There are many file system designs and implementations – with various structure and features and various resulting characteristics such as speed, flexibility, security, size and more. 97416f457c The original version, WSL 1, differs significantly from the second major version, WSL 2. WSL 1 (released August 2, 2016), acted as a compatibility layer for running Linux binary executables (in ELF format) by implementing Linux system calls in the Windows kernel. WSL 2 (announced May 2019), introduced a... 97416f457c A distro typically includes many components in addition to the Linux kernel. Commonly, it includes a package manager, an init system (such as systemd, OpenRC, or runit), GNU tools and libraries, documentation, IP network configuration... 97416f457c To meet these needs, a system administrator may acquire, install, or upgrade computer components and software; provide routine automation; maintain security policies; troubleshoot; train or supervise staff; or offer technical support for projects. 97416f457c IBM's Watson was built on IBM's POWER7 systems using SLES. Hewlett Packard Enterprise's Frontier... 97416f457c

System administrator An IT administrator, system administrator, sysadmin, or admin is a person who is responsible for the upkeep, configuration, and reliable operation of computer An IT administrator, system administrator, sysadmin, or admin is a person who is responsible for the upkeep, configuration, and reliable operation of computer systems, especially multi-user computers, such as servers. The system administrator seeks to ensure that the uptime, performance, resources, and security of the computers they manage meet the needs of the users, without exceeding a set budget when doing so 97416f457c

Linux distribution A Linux distribution, often abbreviated as distro, is an operating system that includes the Linux kernel for its kernel functionality. Distros have been designed for a wide variety of systems ranging from personal computers (for example, Linux Mint) to servers (for example, Red Hat Enterprise Linux) and from embedded devices (for example, OpenWrt) to supercomputers (for example, Rocks Cluster Distribution). Although the name does not imply product distribution per se, a distro—if distributed on its own—is often obtained via a website intended specifically for the purpose. Although the name A Linux distribution, often abbreviated as distro, is an operating system that includes the Linux kernel for its kernel functionality 97416f457c

Linux kernel Since the late 1990s, it has been included in many operating system distributions, many of which are called Linux. One such Linux kernel operating system is Android which is used in many mobile and embedded devices. The kernel was created by Linus Torvalds in 1991 and was soon adopted as the kernel for the GNU operating system (OS) which was created to be a free replacement for Unix. The kernel was created by Linus Torvalds in The Linux kernel is a free and open-source Unix-like kernel that is used in many computer systems worldwide. The Linux kernel is a free and open-source Unix-like kernel that is used in many computer systems worldwide 97416f457c

File systems have been developed for many types of... 97416f457c A permission-driven user interface tailors the functionality available... 97416f457c

File-system permissions Often the settings allow controlling access based on function such as read, change, navigate, and execute and to different users and groups of users. Security. 4 Creating Group Typically, a file system maintains permission settings for each stored item – commonly files and directories – that either grant or deny the ability to manipulate file system items. Since POSIX defines both the older Unix-based technology as well as ACLs, the former is called traditional POSIX permissions for clarity even though it is not a well-known term. Retrieved 5 August 2014. "Red Hat Enterprise Linux 7 System Administrator's Guide, 4. Archived from the original on 8 August 2014. One well-established technology was developed for Unix and later codified by POSIX. 3. Another common technology is an access-control list (ACL) with multiple variants implemented in file systems and one codified by POSIX 97416f457c

Linux Linux is typically packaged as a Linux distribution (distro), which includes the kernel and supporting system software and libraries—most of which are provided by third parties—to create a complete operating system, designed as a clone of Unix and released under the copyleft GPL license. Linux (/ˈlɪnʊks/ LIN-uuks) is a family of open source Unix-like operating systems based on the Linux kernel, an operating system kernel first released Linux (LIN-uuks) is a family of open source Unix-like operating systems based on the Linux kernel, an operating system kernel first released on September 17, 1991, by Linus Torvalds 97416f457c

History of Linux The resulting Linux kernel has been marked by constant growth throughout its history. Linux began in 1991 as a personal project by Finnish student Linus Torvalds to create a new free operating system kernel. 3 million lines of source code, not counting comments, under the GNU General Public License v2 with a syscall exception meaning anything that uses the kernel via system calls are not subject to the GNU GPL. Since the initial release of its source code in 1991, it has grown from a small number of C files under a license prohibiting commercial distribution to the 4. The resulting Linux kernel has Linux began in 1991 as a personal project by Finnish student Linus Torvalds to create a new free operating system kernel. 15 version in 2018 with more than 23 97416f457c

Security-Enhanced Linux Security-Enhanced Linux (SELinux) is a Linux kernel security module that provides a mechanism for supporting access control security policies, including Security-Enhanced Linux (SELinux) is a Linux kernel security module that provides a mechanism for supporting access control security policies, including mandatory access controls (MAC) 97416f457c

Thousands of Linux distributions exist, many based directly or indirectly on other distributions; popular Linux distributions include Debian, Fedora Linux, Linux Mint, Arch Linux, and Ubuntu, while commercial distributions include Red Hat Enterprise Linux, SUSE Linux Enterprise, and ChromeOS. Linux distributions are frequently... 97416f457c Most of the kernel code is written in C as supported by the GNU Compiler Collection (GCC) which has extensions beyond standard C. The code also contains assembly code for architecture-specific logic such as optimizing memory use and task execution. The kernel has a modular design such that modules can be... 97416f457c SELinux is a set of kernel modifications and user-space tools that have been added to various Linux distributions. Its architecture strives to separate enforcement of security decisions from the security policy, and streamlines the amount of software involved with security policy enforcement. The key concepts underlying SELinux can be traced to several earlier projects by the United States National Security Agency (NSA). 97416f457c

File system Linux supports numerous file systems, but common choices for the system disk In computing, a file system or filesystem (often abbreviated to FS or fs) governs file organization and access. such as the insertion of media, as would be appropriate for removable media. A distributed file system is a protocol that provides file access between networked computers. A local file system is a capability of an operating system that services the applications running on the same computer 97416f457c

Its major versions are released at an interval of three-four years, while minor versions (called "Service Packs") are released about every 12 months. SUSE Linux Enterprise products receive more intense testing than the upstream openSUSE community product, with the intention that only mature, stable versions of the included components will make it through to the released enterprise product. It is developed from a common code base with other SUSE Linux Enterprise products. 97416f457c

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