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Unlike some operating systems, Linux doesn't try to hide the important bits from you—it gives you full control of your computer. But to truly master Linux, you need to understand its internals, like how the system boots, how networking works, and what the kernel actually does.

~~Amazon.com: How Linux Works, 2nd Edition: What Every ...~~

Some books try to give you copy-and-paste instructions for how to deal with every single system issue that may arise, but How Linux Works actually shows you how the Linux system functions so that you can come up with your own solutions. After a guided tour of filesystems, the boot sequence, system management basics, and networking, author Brian Ward delves into open-ended topics such as development tools, custom kernels, and buying hardware, all from an administrator's point of view.

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How Linux Works describes the inside of the Linux system for systems administrators, whether they maintain an extensive network in the office or one Linux box at home. Some books try to give you copy-and-paste instructions for how to deal with every single system issue that may arise, but How Linux Works actually shows you how the Linux system functions so that you can

~~How Linux Works: What Every Superuser Should Know by Brian ...~~

How Linux Works; What every superuser should know, is described by the publisher as a book suitable for systems administrators and home users if they want to know "how it boots, how networking works, how to customize the kernel...all of which you need to understand before you can master the Linux internals."

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How Linux Works: What Every Super-User Should Know

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How Linux Works describes the inside of the Linux system for systems administrators, whether they maintain an extensive network in the office or one Linux box at home. Some books try to give you copy-and-paste instructions for how to deal with every single system issue that may arise, but How Linux Works actually shows you how the Linux system functions so that you can come up with your own solutions.

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Overview. Unlike some operating systems, Linux doesn't try to hide the important bits from you—it gives you full control of your computer. But to truly master Linux, you need to understand its internals, like how the system boots, how networking works, and what the kernel actually does. In this completely revised second edition of the perennial best seller *How Linux Works*, author Brian Ward makes the concepts behind Linux internals accessible to anyone curious about the inner workings of ...

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~~How Linux Works: What Every Superuser... book by Brian Ward~~

Linux Works to see how to administer Linux and why each particular technique works. This book covers such need-to-know topics as: How Linux boots, with coverage of boot loaders and init How networking, interfaces, firewalls, and servers work How development tools and shared libraries work How the kernel manages devices, device drivers, and processes, and how to build a custom kernel How the Linux printing system works, with sections on cups, filters, and Ghostscript

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~~List of Tables List of Figures Index Appendix A—Command...~~

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Get Free How Linux Works What Every Superuser Should Know How Linux Works What Every You'll also explore the kernel and examine key system tasks inside user space, including system calls, input and output, and filesystems. With its combination of background, theory, real-world examples, and patient explanations, How Linux Works will teach you what you need

Unlike some operating systems, Linux doesn't try to hide the important bits from you—it gives you full control of your computer. But to truly master Linux, you need to understand its internals, like how the system boots, how networking works, and what the kernel actually does. In this completely revised second edition of the perennial best seller How Linux Works, author Brian Ward makes the concepts behind Linux internals accessible to anyone curious about the inner workings of the operating system. Inside, you'll find the kind of knowledge that normally comes from years of experience doing things the hard way. You'll learn: * How Linux boots,

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from boot loaders to init implementations (systemd, Upstart, and System V) * How the kernel manages devices, device drivers, and processes * How networking, interfaces, firewalls, and servers work * How development tools work and relate to shared libraries * How to write effective shell scripts You'll also explore the kernel and examine key system tasks inside user space, including system calls, input and output, and filesystems. With its combination of background, theory, real-world examples, and patient explanations, How Linux Works will teach you what you need to know to solve pesky problems and take control of your operating system.

Best-selling guide to the inner workings of the Linux operating system with over 50,000 copies sold since its original release in 2014. Unlike some operating systems, Linux doesn't try to hide the important bits from you—it gives you full control of your computer. But to truly master Linux, you need to understand its internals, like how the system boots, how networking works, and what the kernel actually does. In this third edition of the bestselling How Linux Works, author Brian Ward peels back the layers of this well-loved operating system to make Linux internals accessible. This edition has been thoroughly updated and expanded with added coverage of Logical Volume Manager (LVM), virtualization, and containers. You'll learn:

- How Linux boots, from boot loaders to init (systemd)
- How the kernel manages devices, device drivers, and processes
- How networking, interfaces, firewalls, and servers work
- How development tools work and relate to shared libraries
- How to write effective shell scripts

You'll also explore the kernel and examine key system tasks inside user space, including system calls, input and output, and filesystems. With its combination of background, theory,

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real-world examples, and patient explanations, How Linux Works, 3rd edition will teach you what you need to know to solve pesky problems and take control of your operating system.

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Best selling guide to the inner workings of the Linux operating system with over 50,000 copies sold since its release in 2014. This in-depth guide to the various components of a Linux system covers topics like how the system boots, how networking works, and what the Linux kernel

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actually does. The Linux operating system is the power behind Android, Chromebooks, web servers, and the public cloud. It's impossible to know for sure but there may well be over 60 million Linux users in the world. Developers and system maintainers need to understand how Linux works in order to use it effectively and fix it when it breaks. In this third edition of the best selling How Linux Works, author Brian Ward peels back the layers of this well-loved operating system to make Linux internals accessible. Readers learn how Linux boots, how the kernel manages devices and device drivers, and how processes, networking, interfaces, firewalls, and servers work. They also learn how Linux-based development tools work, how to use shared libraries, and how to write effective shell scripts. This edition has been thoroughly updated and expanded with added coverage of Logical Volume Manager (LVM), virtualization, and containers.

Find an introduction to the architecture, concepts and algorithms of the Linux kernel in Professional Linux Kernel Architecture, a guide to the kernel sources and large number of connections among subsystems. Find an introduction to the relevant structures and functions exported by the kernel to userland, understand the theoretical and conceptual aspects of the Linux kernel and Unix derivatives, and gain a deeper understanding of the kernel. Learn how to reduce the vast amount of information contained in the kernel sources and obtain the skills necessary to understand the kernel sources.

Provides information on writing a driver in Linux, covering such topics as character devices, network interfaces, driver debugging, concurrency, and interrupts.

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In the realm of mental phenomena, experiment and measurement have hitherto been chiefly limited in application to sense perception and to the time relations of mental processes. By means of the following investigations we have tried to go a step farther into the workings of the mind and to submit to an experimental and quantitative treatment the manifestations of memory. The term, memory, is to be taken here in its broadest sense, including Learning, Retention, Association and Reproduction. (PsycINFO Database Record (c) 2004 APA, all rights reserved).

This practical, tutorial-style book uses the Kali Linux distribution to teach Linux basics with a focus on how hackers would use them. Topics include Linux command line basics, filesystems, networking, BASH basics, package management, logging, and the Linux kernel and drivers. If you're getting started along the exciting path of hacking, cybersecurity, and pentesting, Linux Basics for Hackers is an excellent first step. Using Kali Linux, an advanced penetration testing distribution of Linux, you'll learn the basics of using the Linux operating system and acquire the tools and techniques you'll need to take control of a Linux environment. First, you'll learn how to install Kali on a virtual machine and get an introduction to basic Linux concepts. Next, you'll tackle broader Linux topics like manipulating text, controlling file and directory permissions, and managing user environment variables. You'll then focus in on foundational hacking concepts like security and anonymity and learn scripting skills with bash and Python. Practical tutorials and exercises throughout will reinforce and test your skills as you learn how to: - Cover your tracks by changing your network information and manipulating the rsyslog logging

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utility - Write a tool to scan for network connections, and connect and listen to wireless networks - Keep your internet activity stealthy using Tor, proxy servers, VPNs, and encrypted email - Write a bash script to scan open ports for potential targets - Use and abuse services like MySQL, Apache web server, and OpenSSH - Build your own hacking tools, such as a remote video spy camera and a password cracker Hacking is complex, and there is no single way in. Why not start at the beginning with Linux Basics for Hackers?

You've experienced the shiny, point-and-click surface of your Linux computer—now dive below and explore its depths with the power of the command line. The Linux Command Line takes you from your very first terminal keystrokes to writing full programs in Bash, the most popular Linux shell. Along the way you'll learn the timeless skills handed down by generations of gray-bearded, mouse-shunning gurus: file navigation, environment configuration, command chaining, pattern matching with regular expressions, and more. In addition to that practical knowledge, author William Shotts reveals the philosophy behind these tools and the rich heritage that your desktop Linux machine has inherited from Unix supercomputers of yore. As you make your way through the book's short, easily-digestible chapters, you'll learn how to: *

- * Create and delete files, directories, and symlinks
- * Administer your system, including networking, package installation, and process management
- * Use standard input and output, redirection, and pipelines
- * Edit files with Vi, the world's most popular text editor
- * Write shell scripts to automate common or boring tasks
- * Slice and dice text files with cut, paste, grep, patch, and sed

Once you overcome your initial "shell shock," you'll find that the command line is a natural and expressive way to communicate with your computer. Just don't be surprised if

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your mouse starts to gather dust. A featured resource in the Linux Foundation's "Evolution of a SysAdmin"

A guide to the Debian 2.1 distribution of Linux demonstrates the capabilities of the completely open-source operating system, covering installation, setup, and basic applications

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