

# Download File The Linux Programming Interface A Linux And Unix System Programming Handbook Read Pdf Free

[The Linux Programming Interface Linux-Kernel-Handbuch](#) The Linux Programming Interface guo ji zhong wen ban Linux-Ger ä tetreiberLinux in a nutshell Einf ü hrung in die bash-Shellgrep kurz & gut [Pro Linux System Administration Expert-C-Programmierung Sed & awk - kurz & gut Networking Linux Smart Homes For Dummies User Interface Design for Mere Mortals](#); Network Programmability and Automation CompTIA A+ Certification All-in-One For Dummies [The Linux Command Line Beginner's Guide](#) Linux Command Line and Shell Scripting Bible Concepts of Computer Science Linux Network Servers Ethical Hacking: Techniques, Tools, and Countermeasures Python kurz & gut [Programming the Parallel Port](#) Beginning the Linux Command Line Hands-On System Programming with Linux [Embedded Linux mit dem Raspberry Pi The Book of PF, 2nd Edition](#) DBAs Guide to Databases Under Linux Fehlersuche bei Linux Servern und in IP-Netzwerken Debugging Linux Systems (Digital Short Cut) Setup of a Graphical User Interface Desktop for Linux Virtual Machine on Cloud Platforms 802.11 Wireless Networks Advanced Linux Programming R For Dummies Learning OpenStack Networking (Neutron) [Mehr Hacking mit Python Oracle Database 10g Linux Administration](#) Professional Linux Programming Principles of Modern Operating Systems Unix and Shell Programming Practical Linux Forensics

[User Interface Design for Mere Mortals](#); Oct 20 2021 User Interface Design for Mere Mortals takes the mystery out of designing effective interfaces for both desktop and web applications. It is recommended reading for anyone who wants to provide users of their software with interfaces that are intuitive and easy-to-use. The key to any successful application lies in providing an interface users not only enjoy interacting with but which also saves time, eliminates frustration, and gets the job done with a minimum of effort. Readers will discover the secrets of good interface design by learning how users behave and the expectations that users have of different types of interfaces. Anyone who reads User Interface Design for Mere Mortals will benefit from

- Gaining an appreciation of the differences in the “look and feel” of interfaces for a variety of systems and platforms
- Learning how to go about designing and creating the most appropriate interface for the application or website being developed
- Becoming familiar with all the different components that make up an interface and the important role that each of those components plays in communicating with users
- Understanding the business benefits that flow from good interface design such as significantly reduced support costs
- Gaining invaluable insights into how users behave, including the seven stages of human interaction with computers
- Working through case study based, in-depth analysis of each of the stages involved in designing a user interface
- Acquiring practical knowledge about the similarities and differences between designing websites and traditional desktop applications
- Learning how to define, conduct, and analyze usability testing

Through the use of the proven For Mere Mortals format, User Interface Design for Mere Mortals succeeds in parting the veil of mystery surrounding effective user interface design. Whatever your background, the For Mere Mortals format makes the information easily accessible and usable. Contents Preface Introduction CHAPTER 1 Brief Histories CHAPTER 2 Concepts and Issues CHAPTER 3 Making the Business Case CHAPTER 4 Good Design CHAPTER 5 How User Behave CHAPTER 6 Analyzing Your Users CHAPTER 7 Designing a User Interface CHAPTER 8 Designing a Web Site CHAPTER 9 Usability APPENDIX A Answers to Review Questions APPENDIX B Recommended Reading Glossary References Index

[Linux-Kernel-Handbuch](#) Sep 30 2022

Hands-On System Programming with Linux Nov 08 2020 Get up and running with system

programming concepts in Linux Key Features Acquire insight on Linux system architecture and its programming interfaces Get to grips with core concepts such as process management, signalling and pthreads Packed with industry best practices and dozens of code examples Book Description The Linux OS and its embedded and server applications are critical components of today's software infrastructure in a decentralized, networked universe. The industry's demand for proficient Linux developers is only rising with time. Hands-On System Programming with Linux gives you a solid theoretical base and practical industry-relevant descriptions, and covers the Linux system programming domain. It delves into the art and science of Linux application programming-- system architecture, process memory and management, signaling, timers, pthreads, and file IO. This book goes beyond the use API X to do Y approach; it explains the concepts and theories required to understand programming interfaces and design decisions, the tradeoffs made by experienced developers when using them, and the rationale behind them. Troubleshooting tips and techniques are included in the concluding chapter. By the end of this book, you will have gained essential conceptual design knowledge and hands-on experience working with Linux system programming interfaces. What you will learn Explore the theoretical underpinnings of Linux system architecture Understand why modern Oses use virtual memory and dynamic memory APIs Get to grips with dynamic memory issues and effectively debug them Learn key concepts and powerful system APIs related to process management Effectively perform file IO and use signaling and timers Deeply understand multithreading concepts, pthreads APIs, synchronization and scheduling Who this book is for Hands-On System Programming with Linux is for Linux system engineers, programmers, or anyone who wants to go beyond using an API set to understanding the theoretical underpinnings and concepts behind powerful Linux system programming APIs. To get the most out of this book, you should be familiar with Linux at the user-level logging in, using shell via the command line interface, the ability to use tools such as find, grep, and sort. Working knowledge of the C programming language is required. No prior experience with Linux systems programming is assumed.

Linux-Ger ä tetreiberJul 29 2022

Beginning the Linux Command Line Dec 10 2020 This is Linux for those of us who don't mind typing. All Linux users and administrators tend to like the flexibility and speed of Linux administration from the command line in byte-sized chunks, instead of fairly standard graphical user interfaces. Beginning the Linux Command Line is verified against all of the most important Linux distributions, and follows a task-oriented approach which is distribution agnostic. Now this Second Edition of Beginning the Linux Command Line updates to the very latest versions of the Linux Operating System, including the new Btrfs file system and its management, and systemd boot procedure and firewall management with firewalld! Updated to the latest versions of Linux Work with files and directories, including Btrfs! Administer users and security, and deploy firewalld Understand how Linux is organized, to think Linux! [Pro Linux System Administration](#) Mar 25 2022 Implement a SOHO or SMB Linux infrastructure to expand your business and associated IT capabilities. Backed by the expertise and experienced guidance of the authors, this book provides everything you need to move your business forward. Pro Linux System Administration makes it easy for small- to medium-sized businesses to enter the world of zero-cost software running on Linux and covers all the distros you might want to use, including Red Hat, Ubuntu, Debian, and CentOS. Pro Linux System Administration takes a layered, component-based approach to open source business systems, while training system administrators as the builders of business infrastructure. Completely updated for this second edition, Dennis Matotek takes you through an infrastructure-as-code approach, seamlessly taking you through steps along the journey of Linux administration with all you need to master complex systems. This edition now includes Jenkins, Ansible, Logstash and more. What You'll Learn: Understand Linux architecture Build, back up, and recover Linux servers Create basic networks and network services with Linux Build and implement Linux infrastructure and services including mail, web, databases, and file and print Implement Linux security Resolve Linux performance and capacity planning issues Who This Book Is For: Small to medium-sized business owners looking to run their own IT, system administrators considering

migrating to Linux, and IT systems integrators looking for an extensible Linux infrastructure management approach.

**Networking Dec 22 2021 Networking Second Edition Jeffrey S. Beasley** This text provides a comprehensive look at computer networking from the point of view of the network administrator. It guides readers from an entry-level knowledge in computer networks to advanced concepts in Ethernet networks; router configuration; TCP/IP networks; local-, campus-, and wide-area network configuration; network security; optical networks; voice over IP; and industrial networks. Extensive examples on the Windows Server 2003/2008 configuration and system configuration for the Linux operating system are also included. A complete chapter is devoted to protecting and securing a network from potential network attacks. Topics include denial of service attacks, firewalls, intrusion detection, password cracking, packet sniffing, and analyzing unsecured data packets. Other key network security issues, such as configuring router access lists, configuring a virtual private network (VPN) connection, and securing wireless networks, are also covered. Router configuration is examined, ranging from an introduction to router configuration to configuring multiple routing protocols for intranet and Internet data traffic. Routing protocols key to basic network operations are examined, including static, RIP, IGRP, OSPF, EIGRP, and BGP. The discussions on routing protocols are accompanied with in-depth steps for configuring the router to run the protocol, verify operation, and troubleshoot the router. Key Pedagogical Features **PROTOCOL ANALYZER SOFTWARE** included with the text uses the Finisar Surveyor Demo. Examples of using the software to analyze data traffic are included throughout the text. **CONFIGURING, ANALYZING, or TROUBLESHOOTING** sections are included with each chapter to guide the reader through advanced techniques in networking. **OBJECTIVES** and **INTRODUCTION** at the beginning of each chapter clearly outline specific goals for the reader. **EXTENSIVE PROBLEM SETS, SUMMARIES, and QUESTIONS AND PROBLEMS** (including Critical Thinking questions) are found at the end of each chapter. **KEY TERMS** and their definitions are highlighted in the margins to foster inquisitiveness and ensure retention.

**Linux Command Line and Shell Scripting Bible Jun 15 2021** Talk directly to your system for a faster workflow with automation capability **Linux Command Line and Shell Scripting Bible** is your essential Linux guide. With detailed instruction and abundant examples, this book teaches you how to bypass the graphical interface and communicate directly with your computer, saving time and expanding capability. This third edition incorporates thirty pages of new functional examples that are fully updated to align with the latest Linux features. Beginning with command line fundamentals, the book moves into shell scripting and shows you the practical application of commands in automating frequently performed functions. This guide includes useful tutorials, and a desk reference value of numerous examples. The Linux command line allows you to type specific shell commands directly into the system to manipulate files and query system resources. Command line statements can be combined into short programs called shell scripts, a practice increasing in popularity due to its usefulness in automation. This book is a complete guide providing detailed instruction and expert advice working within this aspect of Linux. **Write simple script utilities to automate tasks Understand the shell, and create shell scripts Produce database, e-mail, and web scripts Study scripting examples ranging from basic to advanced Whether used as a tutorial or as a quick reference, this book contains information that every Linux user should know. Why not learn to use the system to its utmost capability? Linux is a robust system with tremendous potential, and Linux Command Line and Shell Scripting Bible opens the door to new possibilities.**

**Network Programmability and Automation Sep 18 2021** "This practical guide shows network engineers how to use a range of technologies and tools--including Linux, Python, JSON, and XML--to automate their systems through code. [This book] will help you simplify tasks involved in configuring, managing, and operating network equipment, topologies, services, and connectivity."--Page 4 of cover

**Sed & awk - kurz & gut Jan 23 2022 Der Zeichenstrom-Editor sed und die Programmiersprache awk sind zwei klassische Unix-Tools zur Bearbeitung von Textdateien. Ihre Fähigkeiten zur Mustererkennung mit regulären Ausdrücken ermöglichen es Programmierern und**

Systemadministratoren, Editieraufgaben für eine oder mehrere Dateien zu automatisieren. Wiederkehrende Abläufe und Konvertierungen können mit sed und awk so einfacher und schneller erledigt werden. sed & awk - kurz & gut ist eine kompakte Referenz zu sed, awk und zur Mustererkennung mit regulären Ausdrücken. Die zweite Auflage geht darüber hinaus auf die Neuerungen in gawk, der GNU-Version von awk ein. Dieser Band der O'Reilly Taschenbibliothek enthält unter anderem: einen Überblick über die Kommandozeilen-Syntax von sed und awk eine Alphabetische Zusammenfassung der awk-Befehle, einschließlich nawk und gawk Version 3.1 Ausführungsprofile mit gawk Koprozesse und Sockets mit gawk Internationalisierung mit gawk eine Auflistung weiterer Informationsquellen zu sed und awk.

grep kurz & gut Apr 25 2022 grep kurz & gut ist die erste deutschsprachige Befehlsreferenz zu grep, dem mächtigen Such- und Filterungswerkzeug unter Unix. Jeder, der sich ausführlich zu den Möglichkeiten, die in grep stecken, informieren möchte, ist mit diesem Buch bestens bedient. Er erfährt, wie viele alltägliche Aufgaben mit grep ausgeführt werden können, von der Mail-Filterung über geschicktes Log-Management bis hin zur Malware-Analyse. Der Befehl grep stellt viele verschiedene Möglichkeiten bereit, Textstrings in einer Datei oder einem Ausgabestream zu finden. Diese Flexibilität macht grep zu einem mächtigen Tool, um das Vorhandensein von Informationen in Dateien zu ermitteln. Im Allgemeinen ist der Befehl grep nur dafür gedacht, Textausgaben oder Textdateien zu durchsuchen. Sie können auch Binärdateien (oder andere Nicht-Textdateien) durchsuchen, aber das Tool ist in dem Fall eingeschränkt. Tricks zum Durchsuchen von Binärdateien mit grep (also die Verwendung von String-Befehlen) werden ebenso in grep kurz & gut aufgezeigt. Sollte der Leser bereits mit der Arbeit mit grep vertraut sein, hilft ihm grep kurz & gut dabei, seine Kenntnisse aufzufrischen und mit grep besonders effizient zu arbeiten. Für grep-Einsteiger ist das vorliegende Buch eine hervorragende Möglichkeit, grep von Grund auf zu lernen und klug anzuwenden.

Learning OpenStack Networking (Neutron) Dec 30 2019 Will the power of OpenStack Neutron networking to bring network infrastructure and capabilities to your cloud About This Book This completely up-to-date edition will show you how to deploy a cloud on OpenStack using community-driven processes. It includes rich examples that will help you understand complex networking topics with ease Understand every aspect of designing, creating, customizing, and maintaining the core network foundation of an OpenStack cloud using OpenStack Neutron all in one book Written by best-selling author James Denton, who has more than 15 years of experience in system administration and networking. James has experience of deploying, operating, and maintaining OpenStack clouds and has worked with top enterprises and organizations Who This Book Is For If you are an OpenStack-based cloud operator and administrator who is new to Neutron networking and wants to build your very own OpenStack cloud, then this book is for you. Prior networking experience and a physical server and network infrastructure is recommended to follow along with concepts demonstrated in the book. What You Will Learn Architect and install the latest release of OpenStack on Ubuntu Linux 14.04 LTS Review the components of OpenStack networking, including plugins, agents, and services, and learn how they work together to coordinate network operations Build a virtual switching infrastructure using reference architectures based on ML2 + Open vSwitch or ML2 + LinuxBridge Create networks, subnets, and routers that connect virtual machine instances to the network Deploy highly available routers using DVR or VRRP-based methods Scale your application with haproxy and Load Balancing as-a-Service Implement port and router-level security using Security Groups and Firewall as-a-Service Provide connectivity to tenant networks with Virtual Private Networking as-a-Service (VPNaaS) Find out how to manage OpenStack networking resources using CLI and GUI-driven methods In Detail OpenStack Neutron is an OpenStack component that provides networking as a service for other OpenStack services to architect networks and create virtual machines through its API. This API lets you define network connectivity in order to leverage network capabilities to cloud deployments. Through this practical book, you will build a strong foundational knowledge of Neutron, and will architect and build an OpenStack cloud using advanced networking features. We start with an introduction to OpenStack Neutron and its various components, including virtual switching, routing, FWaaS, VPNaaS, and LBaaS.

You'll also get hands-on by installing OpenStack and Neutron and its components, and use agents and plugins to orchestrate network connectivity and build a virtual switching infrastructure. Moving on, you'll get to grips with the HA routing capabilities utilizing VRRP and distributed virtual routers in Neutron. You'll also discover load balancing fundamentals, including the difference between nodes, pools, pool members, and virtual IPs. You'll discover the purpose of security groups and learn how to apply the security concept to your cloud/tenant/instance. Finally, you'll configure virtual private networks that will allow you to avoid the use of SNAT and floating IPs when connecting to remote networks. Style and approach This easy-to-follow guide on networking in OpenStack follows a step-by-step process to installing OpenStack and configuring the base networking components. Each major networking component has a dedicated chapter that will build on your experience gained from prior chapters.

Embedded Linux mit dem Raspberry Pi Oct 08 2020 "Embedded Linux mit dem Raspberry Pi" zeigt den Einsatz von Linux auf der populären Hardware-Plattform Raspberry Pi. Der Untertitel „für Ein- und Umsteiger“ soll gleichzeitig verdeutlichen, an wen als Leser mit diesem Buch primär gedacht ist. Hier geht es nicht um Linux als alternatives Betriebssystem für den PC, sondern den Einsatz von Linux in einem Embedded System und um das Embedded System selbst. Die Komplexität heutiger Anforderungen an Elektronikkomponenten ist an vielen Stellen mit den klassischen Konzepten um Mikrocontroller kaum umsetzbar. Hinzu kommt der Preiszerfall in diesem Sektor, der für den Einsatz leistungsfähiger 32-Bit-Mikrocontroller, wie ARM- oder Cortex-Derivate, spricht. Während die leistungsschwächeren (8-Bit-) Mikrocontroller meist ohne Betriebssystem betrieben wurden, kommt man bei den 32-Bit-Mikrocontrollern kaum noch um den Einsatz eines Betriebssystems herum. Das Betriebssystem bietet Schnittstellentreiber, Dateisystem, Multi-Threading u.a. und übernimmt damit wiederkehrenden Aufgaben, für die stabile Softwarekomponenten zur Verfügung stehen. Leistungsfähige und schlanke Linux-Derivate können heute auch auf einfacheren Prozessoren eingesetzt werden und sind frei verfügbar. Die verwendete Linux-Distribution Raspbian stellt einen grafischen Desktop zur Verfügung, der hier aber nicht von primärem Interesse ist. Unser primäres Userinterface hier ist klassisch die Kommandozeile, wie sie vielen Mikrocontroller-Programmierern aus deren Projekten als Terminal-Schnittstelle bekannt ist. Ein grafisches Userinterface ist für viele geschlossene Embedded Systems (deeply embedded) ohnehin nicht erforderlich, oder kann durch ein Web-Interface ersetzt werden. Mit dem Einsatz von Linux in einem Embedded System kommt eine Reihe von neuen Ansätzen auf den Umsteiger aus der konventionellen Mikrocontrollerwelt zu, mit denen wir uns hier erst einmal auseinandersetzen werden. Alle gelisteten Quelltexte und einige Erläuterungen sind unter SourceForge abgelegt (<http://sourceforge.net/projects/raspberrypisnip/>). Zum Buch existiert ausserdem eine Webseite <http://www.ckuehnel.ch/Raspi-Buch.html>.

Linux Network Servers Apr 13 2021 Authoritative Answers to All Your Linux Network Server Questions--Specifically for Linux Administrators Tap into Linux's impressive capabilities as a network server. Written by one of the world's leading Linux system administration experts, Linux Network Servers teaches you, step-by-step, all the standard and advanced techniques you need to know to configure and administer a full range of network services, from file and printer sharing to email and the Web. Hundreds of clear, consistent examples illustrate these techniques in detail--so you stay on track and accomplish all your goals. Coverage includes the following: Installing Linux Understanding the boot process Working with the network interface Setting up login services Using Linux name services Configuring a mail server Setting up Apache Web server Configuring network gateway services Configuring desktop configuration server Setting up file sharing Setting up printer services Securing your server Troubleshooting The Craig Hunt Linux Library The Craig Hunt Linux Library provides in-depth, advanced coverage of the key topics for Linux administrators. Topics include Samba, System Administration, DNS Server Administration, Apache, Security, and Sendmail. Each book in the series is either written by or meticulously reviewed by Craig Hunt to ensure the highest quality and most complete coverage for networking professionals working specifically in Linux environments.

The Linux Programming Interface Nov 01 2022 The Linux Programming Interface (TLPI) is the definitive guide to the Linux and UNIX programming interface—the interface employed by nearly every

application that runs on a Linux or UNIX system. In this authoritative work, Linux programming expert Michael Kerrisk provides detailed descriptions of the system calls and library functions that you need in order to master the craft of system programming, and accompanies his explanations with clear, complete example programs. You'll find descriptions of over 500 system calls and library functions, and more than 200 example programs, 88 tables, and 115 diagrams. You'll learn how to: –Read and write files efficiently –Use signals, clocks, and timers –Create processes and execute programs –Write secure programs –Write multithreaded programs using POSIX threads –Build and use shared libraries –Perform interprocess communication using pipes, message queues, shared memory, and semaphores –Write network applications with the sockets API While The Linux Programming Interface covers a wealth of Linux-specific features, including epoll, inotify, and the /proc file system, its emphasis on UNIX standards (POSIX.1-2001/SUSv3 and POSIX.1-2008/SUSv4) makes it equally valuable to programmers working on other UNIX platforms. The Linux Programming Interface is the most comprehensive single-volume work on the Linux and UNIX programming interface, and a book that's destined to become a new classic.

Linux in a nutshell Jun 27 2022

Advanced Linux Programming Mar 01 2020 This is the eBook version of the printed book. If the print book includes a CD-ROM, this content is not included within the eBook version. Advanced Linux Programming is divided into two parts. The first covers generic UNIX system services, but with a particular eye towards Linux specific information. This portion of the book will be of use even to advanced programmers who have worked with other Linux systems since it will cover Linux specific details and differences. For programmers without UNIX experience, it will be even more valuable. The second section covers material that is entirely Linux specific. These are truly advanced topics, and are the techniques that the gurus use to build great applications. While this book will focus mostly on the Application Programming Interface (API) provided by the Linux kernel and the C library, a preliminary introduction to the development tools available will allow all who purchase the book to make immediate use of Linux.

The Linux Programming Interface guo ji zhong wen ban Aug 30 2022

Expert-C-Programmierung Feb 21 2022

Unix and Shell Programming Jul 25 2019

Setup of a Graphical User Interface Desktop for Linux Virtual Machine on Cloud Platforms May 03 2020 Cloud Platforms provide VM images in the Linux OS as well. Linux has always been operated via terminal or shell through a keyboard and a terminal. Even with GUIs around, Linux continues to be operated from the shell. Linux VMs are also operated from the command line of your desktop via an SSH (secure shell) connection. They do not have a desktop environment or GUI installed by default. For Windows users migrating to Linux, a desktop environment would be more convenient to operate. Hence, various desktop environments can be set up on a Linux VM. Mostly we need to have Graphical User Interface GUI on the Linux Virtual Machine instance and to use Internet browser on it. This report will talk about the steps to install minimum required User Interface on VM (virtual machine) with Web Browser. We will work on installing a desktop environment on a Linux Virtual Machine on different Cloud Platforms. The book consists from the following sections: 1. Generating SSH key for auto log in to Linux server 2. Creating Google Cloud Linux Virtual Machine 3. Logon to the Linux Virtual Machine 4. Installing VNC server 5. Installing XRDP server 6. Installing a Graphical User Interface (GUI) for Linux Google Cloud instance and connecting to the server through VNC or RDP connection 7. Quick guide to create a Linux virtual machine in Cloudsigma 8. Quick guide to create a Linux Virtual Machine in the Microsoft Azure portal 9. Quick guide to create a Linux Virtual Machine in Amazon AWS

Debugging Linux Systems (Digital Short Cut) Jun 03 2020 Debugging Linux Systems discusses the main tools available today to debug 2.6 Linux Kernels. We start by exploring the seemingly esoteric operations of the Kernel Debugger (KDB), Kernel GNU DeBugger (KGDB), the plain GNU DeBugger (GDB), and JTAG debuggers. We then investigate Kernel Probes, a feature that lets you intrude into a kernel function and extract debug information or apply a medicated patch. Analyzing a crash dump can

yield clues for postmortem analysis of kernel crashes or hangs, so we take a look at Kdump, a serviceability tool that collects a system dump after spawning a new kernel. Profiling points you to code regions that burn more CPU cycles, so we learn to use the OProfile kernel profiler and the gprof application profiler to sense the presence of code bottlenecks. Because tracing provides insight into behavioral problems that manifest during interactions between different code modules, we delve into the Linux Trace Toolkit, a system designed for high-volume trace capture. The section “Debugging Embedded Linux” takes a tour of the I/O interfaces commonly found on embedded hardware, such as flash memory, serial port, PCMCIA, Secure Digital media, USB, RTC, audio, video, touch screen, and Bluetooth, and provides pointers to debug the associated device drivers. We also pick up some board-level debugging skills with the help of a case study. The section “Debugging Network Throughput” takes you through some device driver design issues and protocol implementation characteristics that can affect the horsepower of your network interface card. We end the shortcut by examining several options available in the kernel configuration menu that can emit valuable debug information.

Practical Linux Forensics Jun 23 2019 A resource to help forensic investigators locate, analyze, and understand digital evidence found on modern Linux systems after a crime, security incident or cyber attack. Practical Linux Forensics dives into the technical details of analyzing postmortem forensic images of Linux systems which have been misused, abused, or the target of malicious attacks. It helps forensic investigators locate and analyze digital evidence found on Linux desktops, servers, and IoT devices. Throughout the book, you learn how to identify digital artifacts which may be of interest to an investigation, draw logical conclusions, and reconstruct past activity from incidents. You’ll learn how Linux works from a digital forensics and investigation perspective, and how to interpret evidence from Linux environments. The techniques shown are intended to be independent of the forensic analysis platforms and tools used. Learn how to: Extract evidence from storage devices and analyze partition tables, volume managers, popular Linux filesystems (Ext4, Btrfs, and Xfs), and encryption Investigate evidence from Linux logs, including traditional syslog, the systemd journal, kernel and audit logs, and logs from daemons and applications Reconstruct the Linux startup process, from boot loaders (UEFI and Grub) and kernel initialization, to systemd unit files and targets leading up to a graphical login Perform analysis of power, temperature, and the physical environment of a Linux machine, and find evidence of sleep, hibernation, shutdowns, reboots, and crashes Examine installed software, including distro installers, package formats, and package management systems from Debian, Fedora, SUSE, Arch, and other distros Perform analysis of time and Locale settings, internationalization including language and keyboard settings, and geolocation on a Linux system Reconstruct user login sessions (shell, X11 and Wayland), desktops (Gnome, KDE, and others) and analyze keyrings, wallets, trash cans, clipboards, thumbnails, recent files and other desktop artifacts Analyze network configuration, including interfaces, addresses, network managers, DNS, wireless artifacts (Wi-Fi, Bluetooth, WWAN), VPNs (including WireGuard), firewalls, and proxy settings Identify traces of attached peripheral devices (PCI, USB, Thunderbolt, Bluetooth) including external storage, cameras, and mobiles, and reconstruct printing and scanning activity

Linux Smart Homes For Dummies Nov 20 2021 A Linux smart home is about controlling and monitoring devices and information around your home using a standard personal computer, Linux, and its vast array of open source tools. You don’t have to be a master programmer to create one. If you like to tinker with Linux, Linux Smart Homes For Dummies will guide you through cool home automation projects that are as much fun to work on as they are to use. Home automation used to be limited to turning on lights and appliances, and maybe controlling your thermostat and lawn sprinkler, from your computer. While you still might not be able to create all the Jetsons’ toys, today you can also Build a wireless network Create and set up a weather station Automate your TV and sound system Spy on your pets when you’re not home Set up an answering system that knows what to do with calls Increase your home’s security If you know how to use Linux and a few basic development tools — Perl, the BASH shell, development libraries, and the GNU C compiler—Linux Smart Homes For Dummies will help you do all these tricks and more. For example, you can Discover the best sources for Linux-based home

automation devices Set up a wireless network, create a wireless access point, build a bridge between wired and wireless networks, and route your own network traffic Build a personal video recorder with MythTV that will record to DVD, or set up a wireless streaming music system Create a smart phone system that takes messages and forwards them to your fax, modem, or answering machine Build a weather station that notifies you of severe weather alerts Control and secure your home automation network, and even check on your house when you're away The bonus CD-ROM includes all kinds of cool open source software for your home automation projects. Linux Smart Homes For Dummies even includes lists of cool gadgets to check out and great ways to automate those boring household chores. A smart home's a happy home!

Einführung in die bash-Shell May 27 2022 Das Buch behandelt bash, eine der neuesten und mächtigsten UNIX-Shells. Die "Bourne Again Shell" der Free Software Foundation ist die Shell für Linux und Mac OS X und auch für andere Unix-Systeme frei verfügbar. Mit diesem Buch erfährt der Leser, wie er sowohl die bash als auch die mächtige Arbeitsumgebung nutzen und wie er mit bash auch Shell-Skripte schreiben kann. Das Lob für die englischsprachigen Vorgängerauflagen war immens. Endlich gibt es diesen Klassiker jetzt auch in deutscher Sprache. Die aktuelle Auflage behandelt bash 3.0, ist aber auch auf die früheren Versionen anwendbar. Das Buch richtet sich an den bash-Anfänger, aber auch dem erfahrenen Unixer werden zahlreiche Aha-Erlebnisse beschert. Aus dem Inhalt: Das Bearbeiten von Kommandozeilen Mit bash die Umgebung anpassen Einführung in die Shell-Programmierung Kontrollfluss-Konstrukte Kommandozeilen-Optionen und typisierte Variablen Prozess-Behandlung Fehlersuche in Shell-Programmen bash administrieren Shell-Skripte schreiben Troubleshooting.

Principles of Modern Operating Systems Aug 25 2019 This revised and updated Second Edition presents a practical introduction to operating systems and illustrates these principles through a hands-on approach using accompanying simulation models developed in Java and C++. This text is appropriate for upper-level undergraduate courses in computer science. Case studies throughout the text feature the implementation of Java and C++ simulation models, giving students a thorough look at both the theoretical and the practical concepts discussed in modern OS courses. This pedagogical approach is designed to present a clearer, more practical look at OS concepts, techniques, and methods without sacrificing the theoretical rigor that is necessary at this level. It is an ideal choice for those interested in gaining comprehensive, hands-on experience using the modern techniques and methods necessary for working with these complex systems. Every new printed copy is accompanied with a CD-ROM containing simulations (eBook version does not include CD-ROM). New material added to the Second Edition: - Chapter 11 (Security) has been revised to include the most up-to-date information - Chapter 12 (Firewalls and Network Security) has been updated to include material on middleware that allows applications on separate machines to communicate (e.g. RMI, COM+, and Object Broker) - Includes a new chapter dedicated to Virtual Machines - Provides introductions to various types of scams - Updated to include information on Windows 7 and Mac OS X throughout the text - Contains new material on basic hardware architecture that operating systems depend on - Includes new material on handling multi-core CPUs Instructor Resources: -Answers to the end of chapter questions -PowerPoint Lecture Outlines

Concepts of Computer Science May 15 2021 Computer Science is the basic need of every organization to find out where it stands. It is a very important subject of students and every person involved in it has prescribed set of tasks. A major goal of this book "Concepts of Computer Science" is not just to explain fundamental theories and concept of computer science discipline, but to help students apply those theories and concepts to their IT lives and work lives. This book is a modest attempt to give exposure of concepts of computer science. This book has been written for the students of Class 1 to Graduation. All the new features included and extensive revision done, we feverishly hope that the book would appeal to the students, the teachers and all the interested reader. All the suggestions and feedbacks are welcomed to further improve the quality of the content to achieve the objective of presenting this book.

Python kurz & gut Feb 09 2021 Die objektorientierte Sprache Python eignet sich hervorragend zum

Schreiben von Skripten, Programmen und Prototypen. Sie ist frei verfügbar, leicht zu lernen und zwischen allen wichtigen Plattformen portabel, einschließlich Linux, Unix, Windows und Mac OS. Damit Sie im Programmieralltag immer den Überblick behalten, sind die verschiedenen Sprachmerkmale und Elemente in Python – kurz & gut übersichtlich zusammengestellt. Für Auflage 5 wurde die Referenz komplett überarbeitet, erweitert und auf den neuesten Stand gebracht, so dass sie die beiden aktuellen Versionen 2.7 und 3.4 berücksichtigt. Python – kurz & gut behandelt unter anderem: Eingebaute Typen wie Zahlen, Listen, Dictionarys u.v.a.; Anweisungen und Syntax für Entwicklung und Ausführung von Objekten; Die objektorientierten Entwicklungstools in Python; Eingebaute Funktionen, Ausnahmen und Attribute; spezielle Methoden zur Operatorenüberladung; Weithin benutzte Standardbibliotheksmodule und Erweiterungen; Kommandozeilenoptionen und Entwicklungswerkzeuge. Mark Lutz stieg 1992 in die Python-Szene ein und ist seitdem als aktiver Pythonista bekannt. Er gibt Kurse, hat zahlreiche Bücher geschrieben und mehrere Python-Systeme programmiert.

The Linux Command Line Beginner's Guide Jul 17 2021 The Linux Command Line Beginner's Guide gives users new to Linux an introduction to the command line environment. In the Guide, you'll learn how to: -Copy, move, and delete files and directories. -Create, delete, and manage users. -Create, delete, and manage groups. -Use virtual terminals. -Use the bash shell. -Safely use the root account with su and sudo. -Change permissions and ownership of files and directories. -Create and edit text files from the command line, without using a graphical editor. -Diagnose network connectivity problems. -And many other topics.

R For Dummies Jan 29 2020 Mastering R has never been easier Picking up R can be tough, even for seasoned statisticians and data analysts. R For Dummies, 2nd Edition provides a quick and painless way to master all the R you'll ever need. Requiring no prior programming experience and packed with tons of practical examples, step-by-step exercises, and sample code, this friendly and accessible guide shows you how to know your way around lists, data frames, and other R data structures, while learning to interact with other programs, such as Microsoft Excel. You'll learn how to reshape and manipulate data, merge data sets, split and combine data, perform calculations on vectors and arrays, and so much more. R is an open source statistical environment and programming language that has become very popular in varied fields for the management and analysis of data. R provides a wide array of statistical and graphical techniques, and has become the standard among statisticians for software development and data analysis. R For Dummies, 2nd Edition takes the intimidation out of working with R and arms you with the knowledge and know-how to master the programming language of choice among statisticians and data analysts worldwide. Covers downloading, installing, and configuring R Includes tips for getting data in and out of R Offers advice on fitting regression models and ANOVA Provides helpful hints for working with graphics R For Dummies, 2nd Edition is an ideal introduction to R for complete beginners, as well as an excellent technical reference for experienced R programmers.

802.11 Wireless Networks Apr 01 2020 As we all know by now, wireless networks offer many advantages over fixed (or wired) networks. Foremost on that list is mobility, since going wireless frees you from the tether of an Ethernet cable at a desk. But that's just the tip of the cable-free iceberg. Wireless networks are also more flexible, faster and easier for you to use, and more affordable to deploy and maintain. The de facto standard for wireless networking is the 802.11 protocol, which includes Wi-Fi (the wireless standard known as 802.11b) and its faster cousin, 802.11g. With easy-to-install 802.11 network hardware available everywhere you turn, the choice seems simple, and many people dive into wireless computing with less thought and planning than they'd give to a wired network. But it's wise to be familiar with both the capabilities and risks associated with the 802.11 protocols. And 802.11 Wireless Networks: The Definitive Guide, 2nd Edition is the perfect place to start. This updated edition covers everything you'll ever need to know about wireless technology. Designed with the system administrator or serious home user in mind, it's a no-nonsense guide for setting up 802.11 on Windows and Linux. Among the wide range of topics covered are discussions on: deployment considerations network monitoring and performance tuning wireless security issues how to use and select access points network monitoring essentials wireless card configuration security issues unique to wireless

networks With wireless technology, the advantages to its users are indeed plentiful. Companies no longer have to deal with the hassle and expense of wiring buildings, and households with several computers can avoid fights over who's online. And now, with 802.11 Wireless Networks: The Definitive Guide, 2nd Edition, you can integrate wireless technology into your current infrastructure with the utmost confidence.

Fehlersuche bei Linux Servern und in IP-Netzwerken Jul 05 2020 Johannes Loxen sagte in seiner Keynote zum Frühjahrsfachgespräch 2012 der GUUG über den Unterschied von Closed-Source und Open-Source Software: "Wenn es nicht funktioniert, hörst Du bei Closed-Source auf zu denken und rufst den Hersteller-Support an. Bei Open-Source fängt das Denken dann erst richtig an". Dieses Buch ist für alle, die nicht nur intensiv sondern vor allem auch strukturiert nachdenken wollen. In vielen Jahren als Systemadministrator hat der Autor sehr oft auch bei technisch versierten Menschen grundlegende Mängel bei der Fehlersuche in Linux-Serversystemen sowie in IP-Netzwerken ausgemacht. Daher hat der Autor seine Erfahrungen bei der Fehlersuche systematisch aufbereitet um denjenigen eine Hilfe an die Hand zu geben, die Probleme mit Linux-Serversystemen oder IP-Netzwerken analysieren wollen. Das Buch behandelt beide Themen, da sich einerseits Linux-Systeme aus verschiedenen Gründen sehr gut zur Analyse von Netzwerkproblemen eignen und andererseits der Einsatz von Linux selbst zu Problemen führen kann, für die das Buch Hilfestellung geben will. Das Buch setzt drei Schwerpunkte. Im ersten Teil geht es um allgemeine Methoden, Heuristiken und Herangehensweisen, die bei beliebigen Problemen eingesetzt werden können. Der zweite Teil konzentriert sich auf Probleme von Linux-Systemen selbst und der dritte Teil schließlich behandelt die Analyse von Netzwerkproblemen mit Hilfe von Linux-Systemen. Natürlich kann das Buch nicht alle Probleme lösen, doch soll es den Leser befähigen, seine eigenen Probleme strukturierter anzugehen und damit besser, schneller und gründlicher zu lösen.

CompTIA A+ Certification All-in-One For Dummies Aug 18 2021 Fully updated to cover the 2019 exam release! CompTIA's A+ certification is an essential certification to building a successful IT career. Test takers must pass both 90-question exams to be certified, and this book—plus online test bank—will help you reach your certification goal. The 9 minibooks map to the exam's objectives, and include new content on Windows 10, Scripting, Linux, and mobile devices. You'll learn about how computers work, networking, computer repair and troubleshooting, security, permissions, and customer service. You'll also find test-taking advice and a review of the types of questions you'll see on the exam. Use the online test bank to test your knowledge and prepare for the exam Get up to speed on operating system basics Find out how to manage the operating system Discover maintenance and troubleshooting tips Inside is all the knowledge you need to pass the new A+ exam!

Professional Linux Programming Sep 26 2019 This book is broken into four primary sections addressing key topics that Linux programmers need to master: Linux nuts and bolts, the Linux kernel, the Linux desktop, and Linux for the Web Effective examples help get readers up to speed with building software on a Linux-based system while using the tools and utilities that contribute to streamlining the software development process Discusses using emulation and virtualization technologies for kernel development and application testing Includes useful insights aimed at helping readers understand how their applications code fits in with the rest of the software stack Examines cross-compilation, dynamic device insertion and removal, key Linux projects (such as Project Utopia), and the internationalization capabilities present in the GNOME desktop

Mehr Hacking mit Python Nov 28 2019 Wenn es um die Entwicklung leistungsfähiger und effizienter Hacking-Tools geht, ist Python für die meisten Sicherheitsanalytiker die Sprache der Wahl. Doch wie genau funktioniert das? In dem neuesten Buch von Justin Seitz - dem Autor des Bestsellers "Hacking mit Python" - entdecken Sie Python's dunkle Seite. Sie entwickeln Netzwerk-Sniffer, manipulieren Pakete, infizieren virtuelle Maschinen, schaffen unsichtbare Trojaner und vieles mehr. Sie lernen praktisch, wie man

- einen "Command-and-Control"-Trojaner mittels GitHub schafft
- Sandboxing erkennt und gängige Malware-Aufgaben wie Keylogging und Screenshotting automatisiert
- Windows-Rechte mittels kreativer Prozesskontrolle ausweitet
- offensive Speicherforensik-Tricks nutzt, um

Passwort-Hashes abzugreifen und Shellcode in virtuelle Maschinen einzuspeisen • das beliebte Web-Hacking-Tool Burp erweitert • die Windows COM-Automatisierung nutzt, um einen Man-in-the-Middle-Angriff durchzuführen • möglichst unbemerkt Daten aus einem Netzwerk abgreift Eine Reihe von Insider-Techniken und kreativen Aufgaben zeigen Ihnen, wie Sie die Hacks erweitern und eigene Exploits entwickeln können.

The Book of PF, 2nd Edition Sep 06 2020 This second edition is an up-to-date, no-nonsense guide to harnessing the power of PF. The author covers NAT (network address translation) and redirection, wireless networking, SPAM fighting, failover provisioning, logging, and more.

Ethical Hacking: Techniques, Tools, and Countermeasures Mar 13 2021 "Ethical Hacking covers the basic strategies and tools that prepare students to engage in proactive and aggressive cyber security activities, with an increased focus on Pen-testing and Red Teams. The text begins with an examination of the landscape, key terms, and concepts that a security professional needs to know about hackers and computer criminals who break into networks, steal information, and corrupt data. Part II provides a technical overview of hacking: how attackers target cyber resources and the methodologies they follow. Part III studies the tools and methods that are most effective when dealing with hacking attacks, especially in an age of increased reliance on distributed devices. This title is can be aligned to EC Council's Certified Ethical Hacker in terms of scope (but not rigor)"--

Programming the Parallel Port Jan 11 2021 Why purchase expensive add-on cards or bus interfaces when you can develop effective and economical data acquisition and process controls using C programs? Using the under-employed printer adapter (that is, the parallel port of your PC), you can turn your computer into a powerful tool for developing microprocessor applications. Learn how to build a complete data acquisition system and such varied applications as a CCD camera controller, a photometer interface, and a wave form generator. The book also covers the enhanced parallel port (EPP), the extended capabilities port (ECP), interfacing analog-to-digital converters, and data acquisition under Linux. This extraordinary software approach to interfacing through the parallel port will be especially appealing to programmers involved in control systems design and device development, as well as to those who work with real-time and embedded systems. ;

Oracle Database 10g Linux Administration Oct 27 2019 Install and configure Oracle Database 10g on a Linux enterprise platform. This book explains how to set up, administer, monitor, and tune Oracle Database 10g on Linux. You will also learn how to implement High Availability solutions as well as handle backup, recovery, and replication. This exclusive Oracle Press guide is the ideal resource for all Oracle DBAs working in a Linux environment.

DBAs Guide to Databases Under Linux Aug 06 2020 In an effort to increase its marketshare and threat to Windows NT, Oracle8 was ported to Linux in late 1998, opening the popular database to an additional 10 million Linux users worldwide. The availability of Oracle8 enables current Linux users to deploy enterprise-class applications at low cost and provides an alternative to Microsoft Windows NT. This book covers that marriage of the most popular database and the fastest growing operating system. \* Complete coverage. Covers both Oracle8i and Oracle8i Lite, as well as Oracle Applications, Oracle Applications Server, and Oracle Developer \* Organizations and Oracle database administrators will be looking for information on Linux as is gets adopted - this book fits the bill \* Covers two growth markets and fills a need for information not covered elsewhere