

Linux Mint Documentation

"We have developed 120 Python programs and more than 110 illustrations in a work that will be useful both to students of science of the first university science courses, as well as high school students and teachers, and to anyone interested in Python programming intending to acquire new tools to expose mathematical concepts in a didactic and modern fashion....The book begins with a detailed introduction to Python, followed by ten chapters of mathematics with its corresponding Python programs, results and graphs."--Cover.

The industry favorite Linux guide, updated for Red Hat Enterprise Linux 7 and the cloud Linux Bible, 9th Edition is the ultimate hands-on Linux user guide, whether you're a true beginner or a more advanced user navigating recent changes. This updated ninth edition covers the latest versions of Red Hat Enterprise Linux 7 (RHEL 7), Fedora 21, and Ubuntu 14.04 LTS, and includes new information on cloud computing and development with guidance on Openstack and Cloudforms. With a focus on RHEL 7, this practical guide gets you up to speed quickly on the new enhancements for enterprise-quality file systems, the new boot process and services management, firewalld, and the GNOME 3 desktop. Written by a Red Hat expert, this book provides the clear explanations and step-by-step instructions that demystify Linux and bring the new features seamlessly into your workflow. This useful guide assumes a base of little or no Linux knowledge, and takes you step by step through what you need to know to get the job done. Get Linux up and running quickly Master basic operations and tackle more advanced tasks Get up to date on the recent changes to Linux server system management Bring Linux to the cloud using Openstack and Cloudforms Linux Bible, 9th Edition is the one resource you need, and provides the hands-on training that gets you on track in a flash.

Linux mint 20.2 (Uma) is based on the Ubuntu 20.04 LTR (Long Term Release). The Cinnamon and Mate desktops are examined in detail. Cinnamon and Mate have custom Mint menus to manage access to applications and devices. Advanced components are also examined such as the LightDM Display Manager, Warpinator, Timeshift, NetworkManager, the Samba server, and Mint software management applications (Software Manager and Update Manager). The Linux Mint X-Apps are also reviewed, including Xplayer, Xed, and Xviewer. Administration topics include system tools, managing users, file systems, Bluetooth setup, printer configuration, and network folder and file sharing. In addition, configuration of wired and wireless connections, firewalls, and service management using systemd are covered. Shared resources are also examined, including the CUPS printing server, the NFS Linux network file server, and Samba Windows file server. Be advised that there are few changes between Linux Mint 20.2 and Linux Mint 20. Ubuntu is a complete, free operating system that emphasizes community, support, and ease of use without compromising speed, power, or flexibility. It's Linux for human beings, designed for everyone from computer novices to experts. Ubuntu 11.04 is the latest release—more powerful, more flexible, and friendlier than ever. The Official Ubuntu Book, Sixth Edition, will get you up and running quickly. Written by expert, leading Ubuntu community members, this book covers all you need to know to make the most of Ubuntu 11.04, whether you're a home user, small business user, server administrator, programmer, or novice. The authors explain Ubuntu 11.04 from start to finish: installation, configuration, desktop productivity, games, management, support, and much more. Among the many topics covered in this edition: Ubuntu One cloud storage, Ubuntu Server, and the groundbreaking Unity desktop. This complete guide also covers standard desktop applications, from word processing, spreadsheets, Web browsing, e-mail, instant messaging, music, video, and games to software development, databases, and server applications. In addition, you will Learn how to customize Ubuntu for home, small business, school, government, and enterprise environments Learn how to quickly update Ubuntu to new release versions with upgraded applications Find up-to-the-minute troubleshooting advice from Ubuntu users worldwide from forums and other means to get the help you need quickly Learn Ubuntu Server installation and administration, including LVM and RAID implementation Learn how to use Ubuntu One to buy legal music from your favorite artists and how to use cloud storage to back up or share your important files Learn how you can be a part of the community that creates Ubuntu The DVD includes the complete Ubuntu Linux operating system for installation on PC platforms. The disk is preconfigured with an outstanding desktop environment for both home and business computing. It can be used to install other complete variants of Ubuntu, including Kubuntu (with the KDE environment), and Ubuntu Server.

This book covers the Linux Mint 18.2 release (Sonya), focusing on desktops and administrative tools. The emphasis here is on what users will face when using Mint, covering topics like installation, applications, software management, the Mint desktops (Cinnamon, Mate, KDE, and Xfce), shell commands, network connections, and system administration tasks. Linux Mint 18.2 is based on the Ubuntu 16.04 LTR (Long Term Release). The Cinnamon, Mate, and Linux Mint KDE desktops are examined in detail. Cinnamon and Mate have custom Mint menus to manage access to applications and devices. Advanced components are also examined such as the LightDM Display Manager, PulseAudio sound configuration, and Mint software management applications (Software Manager and Update Manager). The new X-Apps are also reviewed, including Xplayer, Xed, and Xviewer. Administration topics include system tools, managing users, file systems, Bluetooth setup, printer configuration, and network folder and file sharing. In addition, configuration of wired and wireless connections, firewalls (the Gufw and FirewallD), and service management using systemd are covered. Shared resources are also examined, including the CUPS printing server, the NFS Linux network file server, and Samba Windows file and printing server. This ebook version is epub3 and edupub (EPUB for Education) compliant (version 3.0.1, epubcheck 4.0.2) with pagelist, sections, index list, and tocs.

This book introduces information technology topics foundational to many services offered in libraries and information centers. Written by a librarian with extensive experience as a technology specialist in libraries the book clearly explains concepts information technology principles with an eye toward their practical applications in libraries.

The Linux Mint Beginner's Guide (Second Edition) will show you how to get the most out of Linux Mint, from using the Cinnamon desktop environment to advanced command-line tasks. In the Guide, you will learn how to: -Install Linux Mint. -Use the desktop environment. -Manage files and folders. -Manage users, groups, and file permissions. -Install software on a Linux Mint system, both from the command line and the GUI. -Configure network settings. -Use the vi editor to edit system configuration files. -Install and configure a Samba server for file sharing. -Install SSH for remote system control using public key/private key encryption. -Install a LAMP server. -Install web applications like WordPress. -Configure an FTP server. -Manage ebooks. -Convert digital media. -And many other topics.

Linux Mint 19.2 (Tina) is based on the Ubuntu 18.04 LTR (Long Term Release). The Cinnamon and Mate desktops are examined in detail. Cinnamon and Mate have custom Mint menus to manage access to applications and devices. Advanced components are also examined such as the LightDM Display Manager, NetworkManager, the Samba server, and Mint software management applications (Software Manager and Update Manager). The Linux Mint X-Apps are also reviewed, including Xplayer, Xed, and Xviewer.

Administration topics include system tools, managing users, file systems, Bluetooth setup, printer configuration, and network folder and file sharing. In addition, configuration of wired and wireless connections, firewalls, and service management using systemd are covered. Shared resources are also examined, including the CUPS printing server, the NFS Linux network file server, and Samba Windows file server.

Pro Freeware and Open Source Solutions for Business is a practical guide for the small business owner seeking viable alternative to expensive commercial software packages and subscriptions. This comprehensive look at the powerful alternatives to expensive proprietary software provides an illustrated overview of no-cost software solutions. In this book you will find free and open source solutions for office productivity, PDF creation, accounting, image editing and graphic design, desktop publishing, 3D design, CAD, audio and video editing, website and blog creation, customer relationship management, point of sale, networking and security, and alternatives to the Windows and Macintosh operating systems. This guide helps free the cost-conscious business owner from the bonds of expensive proprietary software by exploring the free and powerful alternatives that exist. You can save a substantial sums of money by replacing just a few commercial software titles with free and open source solutions. Learn how with Pro Freeware and Open Source Solutions for Business today.

Become a more productive programmer by leveraging the newest features available to you in C#. This book highlights the new language features available to you and how to use these and other tools such as Bootstrap, SCSS, and jQuery to enhance your web applications. Exploring Advanced Features in C# starts with some of the new features of C# 7 such as how to implement local functions, tuples and generalized async return types. The book also looks at C# 8, where the author demonstrates how to implement nullable reference types, recursive patterns, ranges, indices, switch expressions, and many more. Next, you go through some of the distinct features of C# that might often be overlooked such as generics, asynchronous programming, and dynamic types. The author demonstrates how to implement these features through clear and concise examples. Next, you'll discuss creating responsive web applications using ASP.NET Model View Controller (MVC) where you'll learn how to combine Bootstrap with jQuery and SCSS to create interactive web applications with a great-looking, user-friendly UI. Moving forward, you will create and run applications on the latest .NET Core version 3.0 as well as explore some of the features of .NET Core 3.0. Finally, you will go through the tips and tricks of Visual Studio 2019 that make you more productive. After reading the book, you will be able to implement new features available in C# and learn how to enhance your application development using ASP.NET MVC and .NET Core. What You Will Learn Implement the new features available in C# 7 Enhance your web applications using ASP.NET MVC, Bootstrap, SCSS, and jQuery See what C# 8 has to offer with clear code examples Create and run applications in .NET Core 3.0 Who This Is Book For C# programmers who have worked with C# for a number of years and who want to keep up to date with the latest advancements of the language .

If you are a system administrator who manages multiple servers, then you know how difficult it is to keep your infrastructure in line. If you've been searching for an easier way, this book is for you. No prior experience with SaltStack is required.

Numerous people still believe that learning and acquiring expertise in Linux is not easy, that only a professional can understand how a Linux system works. Nowadays, Linux has gained much popularity both at home and at the workplace. Linux Yourself: Concept and Programming aims to help and guide people of all ages by offering a deep insight into the concept of Linux, its usage, programming, administration, and several other connected topics in an easy approach. This book can also be used as a textbook for undergraduate/postgraduate engineering students and others who have a passion to gain expertise in the field of computer science/information technology as a Linux developer or administrator. The word "Yourself" in the title refers to the fact that the content of this book is designed to give a good foundation to understand the Linux concept and to guide yourself as a good Linux professional in various platforms. There are no prerequisites to understand the contents from this book, and a person with basic knowledge of C programming language will be able to grasp the concept with ease. With this mindset, all the topics are presented in such a way that it should be simple, clear, and straightforward with many examples and figures. Linux is distinguished by its own power and flexibility, along with open-source accessibility and community as compared to other operating systems, such as Windows and macOS. It is the author's sincere view that readers of all levels will find this book worthwhile and will be able to learn or sharpen their skills. KEY FEATURES Provides a deep conceptual learning and expertise in programming skill for any user about Linux, UNIX, and their features. Elaborates GUI and CUI including Linux commands, various shells, and the vi editor Details file management and file systems to understand Linux system architecture easily Promotes hands-on practices of regular expressions and advanced filters, such as sed and awk through many helpful examples Describes an insight view of shell scripting, process, thread, system calls, signal, inter-process communication, X Window System, and many more aspects to understand the system programming in the Linux environment Gives a detailed description of Linux administration by elaborating LILO, GRUB, RPM-based package, and program installation and compilation that can be very helpful in managing the Linux system in a very efficient way Reports some famous Linux distributions to understand the similarity among all popular available Linux and other features as case studies

Updated for OpenCV 4 and Python 3, this book covers the latest on depth cameras, 3D tracking, augmented reality, and deep neural networks, helping you solve real-world computer vision problems with practical code Key Features Build powerful computer vision applications in concise code with OpenCV 4 and Python 3 Learn the fundamental concepts of image processing, object classification, and 2D and 3D tracking Train, use, and understand machine learning models such as Support Vector Machines (SVMs) and neural networks Book Description Computer vision is a rapidly evolving science, encompassing diverse applications and techniques. This book will not only help those who are getting started with computer vision but also experts in the domain. You'll be able to put theory into practice by building apps with OpenCV 4 and Python 3. You'll start by understanding OpenCV 4 and how to set it up with Python 3 on various platforms. Next, you'll learn how to perform basic operations such as reading, writing, manipulating, and displaying still images, videos, and camera feeds. From taking you through image processing, video analysis, and depth estimation and segmentation, to helping you gain

practice by building a GUI app, this book ensures you'll have opportunities for hands-on activities. Next, you'll tackle two popular challenges: face detection and face recognition. You'll also learn about object classification and machine learning concepts, which will enable you to create and use object detectors and classifiers, and even track objects in movies or video camera feed. Later, you'll develop your skills in 3D tracking and augmented reality. Finally, you'll cover ANNs and DNNs, learning how to develop apps for recognizing handwritten digits and classifying a person's gender and age. By the end of this book, you'll have the skills you need to execute real-world computer vision projects. What you will learn Install and familiarize yourself with OpenCV 4's Python 3 bindings Understand image processing and video analysis basics Use a depth camera to distinguish foreground and background regions Detect and identify objects, and track their motion in videos Train and use your own models to match images and classify objects Detect and recognize faces, and classify their gender and age Build an augmented reality application to track an image in 3D Work with machine learning models, including SVMs, artificial neural networks (ANNs), and deep neural networks (DNNs) Who this book is for If you are interested in learning computer vision, machine learning, and OpenCV in the context of practical real-world applications, then this book is for you. This OpenCV book will also be useful for anyone getting started with computer vision as well as experts who want to stay up-to-date with OpenCV 4 and Python 3. Although no prior knowledge of image processing, computer vision or machine learning is required, familiarity with basic Python programming is a must.

Design and assemble an inexpensive yet fast and reliable PC Construct the PC of your dreams using the practical information contained in this hands-on guide. Build Your Own PC on a Budget explains, step-by-step, how to put together a customized computer that is affordable, stable, and powerful. Discover how to choose the parts that fit your needs, safely connect and test components, add video and peripherals, install an operating system, connect to the Internet, and go wireless. Security, maintenance, and software updates are fully covered in this DIY book. Look inside a PC and understand how each component works Decide what you want from your PC and develop a design plan Create a cost-effective parts list and select the best vendors Wire up the motherboard, processor, and add-on boards Connect storage devices, display adapters, and peripherals Securely connect to LANs, WiFi networks, and the Internet Install your operating system, device drivers, and applications Maintain your PC, update software, and back up your data

Ub>The Official Ubuntu Book, Fifth Edition, will get you up and running quickly. Written by expert, leading Ubuntu community members, this book covers all you need to know to make the most of Ubuntu 10.04, whether you're a home user, small business user, server administrator, or programmer. The authors explain Ubuntu 10.04 from start to finish: installation, configuration, desktop productivity, games, management, support, and much more. Among the many topics covered in this edition: Kubuntu, Ubuntu Netbook Edition, and Ubuntu Server. This complete guide also covers standard desktop applications, from word processing, spreadsheets, Web browsing, e-mail, instant messaging, music, video, and games to software development, databases, and server applications. In addition, you will Learn how to customize Ubuntu for home, small business, school, government, and enterprise environments Learn how to quickly update Ubuntu to new release versions and upgraded applications Find up-to-the-minute troubleshooting advice from Ubuntu users worldwide from forums and other means to get the help you need quickly Learn Ubuntu Server installation and administration, including LVM and RAID implementation Learn how to install Ubuntu on a netbook The DVD includes the complete Ubuntu Linux operating system for installation on PC platforms. The disk is preconfigured with an outstanding desktop environment for both home and business computing. It can be used to install other complete variants of Ubuntu, including Kubuntu (with the KDE environment), Ubuntu Netbook Edition, and Ubuntu Server.

Chosen by BookAuthority as one of BookAuthority's Best Linux Mint Books of All Time Linux: The Textbook, Second Edition provides comprehensive coverage of the contemporary use of the Linux operating system for every level of student or practitioner, from beginners to advanced users. The text clearly illustrates system-specific commands and features using Debian-family Debian, Ubuntu, and Linux Mint, and RHEL-family CentOS, and stresses universal commands and features that are critical to all Linux distributions. The second edition of the book includes extensive updates and new chapters on system administration for desktop, stand-alone PCs, and server-class computers; API for system programming, including thread programming with pthreads; virtualization methodologies; and an extensive tutorial on systemd service management. Brand new online content on the CRC Press website includes an instructor's workbook, test bank, and In-Chapter exercise solutions, as well as full downloadable chapters on Python Version 3.5 programming, ZFS, TC shell programming, advanced system programming, and more. An author-hosted GitHub website also features updates, further references, and errata. Features New or updated coverage of file system, sorting, regular expressions, directory and file searching, file compression and encryption, shell scripting, system programming, client-server-based network programming, thread programming with pthreads, and system administration Extensive in-text pedagogy, including chapter objectives, student projects, and basic and advanced student exercises for every chapter Expansive electronic downloads offer advanced content on Python, ZFS, TC shell scripting, advanced system programming, internetworking with Linux TCP/IP, and many more topics, all featured on the CRC Press website Downloadable test bank, workbook, and solutions available for instructors on the CRC Press website Author-maintained GitHub repository provides other resources, such as live links to further references, updates, and errata

This handy cookbook teaches new-to-intermediate Linux users the essential skills necessary to manage a Linux system, using both graphical and command-line tools. Whether you run Linux in embedded, desktop, server, or cloud or virtual environments, the fundamental skills are the same. This book aims to get you up and running quickly, with copy-paste examples. Carla Schroder provides recipes that cover specific problems, with discussions that explain how each recipe works, as well as references for additional study. You'll learn how to: Use systemd, the new comprehensive service manager Build simple or complex firewalls with firewalld Set up secure network connections for Linux systems and mobile devices Rescue nonbooting systems Reset lost passwords on Linux and Windows Use dnsmasq to simplify managing your LAN name services Manage users and groups and control access to files Probe your computer hardware and monitor hardware health Manage the GRUB bootloader and multiboot Linux and Windows Keep accurate time across your network with the newest tools Build an internet router/firewall on Raspberry Pi Manage filesystems and partitioning

Quickly learn how to use Ubuntu, the fastest growing Linux distribution, in a personal or enterprise environment Whether you're a newcomer to Linux or an experienced system administrator, the Ubuntu Linux Bible provides what you need to get the most out of one the world's top Linux distributions. Clear, step-by-step instructions cover everything from installing Ubuntu and creating your desktop, to writing shell scripts and setting up file sharing on your network. This up-to-date guide covers the latest Ubuntu release with long-term support (version 20.04) as well as the previous version. Throughout the book, numerous examples, figures, and review questions with answers ensure that you will fully understand each key topic. Organized into four parts, the book offers you the flexibility to master the basics in the "Getting Started with Ubuntu Linux" section, or to skip directly to more advanced tasks. "Ubuntu for Desktop Users" shows you how to setup email, surf the web, play games, and create and publish documents, spreadsheets, and

presentations. "Ubuntu for System Administrators" covers user administration, system backup, device management, network configuration, and other fundamentals of Linux administration. The book's final section, "Configuring Servers on Ubuntu," teaches you to use Ubuntu to support network servers for the web, e-mail, print services, networked file sharing, DHCP (network address management), and DNS (network name/address resolution). This comprehensive, easy-to-use guide will help you: Install Ubuntu and create the perfect Linux desktop Use the wide variety of software included with Ubuntu Linux Stay up to date on recent changes and new versions of Ubuntu Create and edit graphics, and work with consumer IoT electronic devices Add printers, disks, and other devices to your system Configure core network services and administer Ubuntu systems Ubuntu Linux Bible is a must-have for anyone looking for an accessible, step-by-step tutorial on this hugely popular Linux operating system.

Accessible to all, this book teaches the essentials to anyone who wants to become an effective and independent Debian GNU/Linux administrator. It covers all the topics that a competent Linux administrator should master, from the installation and the update of the system, up to the creation of packages and the compilation of the kernel, but also monitoring, backup and migration, without forgetting advanced topics like SELinux setup to secure services, automated installations, or virtualization with Xen, KVM or LXC.

Learn more about the book on <http://debian-handbook.info>

Bring yourself up to date on everything you need to know about Ubuntu Linux The Ubuntu Linux Bible covers all of the latest developments in version 8.10 and 8.04, including tips for newcomers as well as expert guidance for seasoned system administrators. Learn about topics like the Gnome Desktop, the Bash shell, virtual machines, wireless networking, file sharing, and more. Note: CD-ROM/DVD and other supplementary materials are not included as part of eBook file.

"It's been said that "graphical user interfaces make easy tasks easy, while command-line interfaces make difficult tasks possible." The Linux Command Line shows readers how to control their computers and accomplish these difficult tasks using Bash, the Linux shell. Designed for command-line users of all levels, the book takes readers from the first keystrokes to the process of writing powerful programs in the command line's native language. Along the way, the author explores basic commands and file system navigation, OS configuration, classic command-line programs, shell programming, and much more, making The Linux Command Line an essential guide for all Linux users who wish to exploit the full power of their systems"--

Linux Mint 20 (Ulyana) is based on the Ubuntu 20.04 LTR (Long Term Release). The Cinnamon and Mate desktops are examined in detail. Cinnamon and Mate have custom Mint menus to manage access to applications and devices. Advanced components are also examined such as the LightDM Display Manager, Warpinator, Timeshift, NetworkManager, the Samba server, and Mint software management applications (Software Manager and Update Manager). The Linux Mint X-Apps are also reviewed, including Xplayer, Xed, and Xviewer. Administration topics include system tools, managing users, file systems, Bluetooth setup, printer configuration, and network folder and file sharing. In addition, configuration of wired and wireless connections, firewalls, and service management using systemd are covered. Shared resources are also examined, including the CUPS printing server, the NFS Linux network file server, and Samba Windows file server.

"A thorough resource for forensic investigators, this book covers a variety of methods and techniques for locating and analyzing digital evidence found on modern Linux systems after a security incident or cyberattack. Readers will learn how Linux works from a digital forensics and investigation perspective and how to interpret evidence using tool-independent techniques relevant to any forensic analysis platform"--

ALL YOU NEED TO KNOW TO SECURE LINUX SYSTEMS, NETWORKS, APPLICATIONS, AND DATA—IN ONE BOOK From the basics to advanced techniques: no Linux security experience necessary Realistic examples & step-by-step activities: practice hands-on without costly equipment The perfect introduction to Linux-based security for all students and IT professionals Linux distributions are widely used to support mission-critical applications and manage crucial data. But safeguarding modern Linux systems is complex, and many Linux books have inadequate or outdated security coverage. Linux Essentials for Cybersecurity is your complete solution. Leading Linux certification and security experts William "Bo" Rothwell and Dr. Denise Kinsey introduce Linux with the primary goal of enforcing and troubleshooting security. Their practical approach will help you protect systems, even if one or more layers are penetrated. First, you'll learn how to install Linux to achieve optimal security upfront, even if you have no Linux experience. Next, you'll master best practices for securely administering accounts, devices, services, processes, data, and networks. Then, you'll master powerful tools and automated scripting techniques for footprinting, penetration testing, threat detection, logging, auditing, software management, and more. To help you earn certification and demonstrate skills, this guide covers many key topics on CompTIA Linux+ and LPIC-1 exams. Everything is organized clearly and logically for easy understanding, effective classroom use, and rapid on-the-job training. **LEARN HOW TO:** Review Linux operating system components from the standpoint of security Master key commands, tools, and skills for securing Linux systems Troubleshoot common Linux security problems, one step at a time Protect user and group accounts with Pluggable Authentication Modules (PAM), SELinux, passwords, and policies Safeguard files and directories with permissions and attributes Create, manage, and protect storage devices: both local and networked Automate system security 24/7 by writing and scheduling scripts Maintain network services, encrypt network connections, and secure network-accessible processes Examine which processes are running—and which may represent a threat Use system logs to pinpoint potential vulnerabilities Keep Linux up-to-date with Red Hat or Debian software management tools Modify boot processes to harden security Master advanced techniques for gathering system information

Linux Mint 20Desktops and AdministrationSurfing Turtle Press

Explore the world of data science from scratch with Julia by your side About This Book An in-depth exploration of Julia's growing ecosystem of packages Work with the most powerful open-source libraries for deep learning, data wrangling, and data visualization Learn about deep learning using Mocha.jl and give speed and high performance to data analysis on large data sets Who This Book Is For This book is aimed at data analysts and aspiring data scientists who have a basic knowledge of Julia or are completely new to it. The book also appeals to those competent in R and Python and wish to adopt Julia to improve their skills set in Data Science. It would be beneficial if the readers have a good background in statistics and computational mathematics. What You Will Learn Apply statistical models in Julia for data-driven decisions Understanding the process of data munging and data preparation using Julia Explore techniques to visualize data using Julia and D3 based packages Using Julia to create self-learning systems using cutting edge machine learning algorithms Create supervised and unsupervised machine learning systems using Julia. Also, explore ensemble models Build a recommendation engine in Julia Dive into Julia's deep learning framework and build a system using Mocha.jl In Detail Julia is a fast and high performing language that's perfectly suited to data science with a mature package ecosystem and is now feature complete. It is a good tool for a data science practitioner. There was a famous post at Harvard Business Review that Data Scientist is the sexiest job of the 21st century. (<https://hbr.org/2012/10/data-scientist-the-sexiest-job-of-the-21st-century>). This book will help you get familiarised with Julia's rich ecosystem, which is continuously evolving, allowing you to stay on top of your game. This book contains the essentials of data science and gives a high-level overview of advanced statistics and techniques. You will dive in and will work on generating insights by performing inferential statistics, and will reveal hidden patterns and trends using data mining. This has the practical coverage of statistics and machine learning. You will develop knowledge to build statistical models and machine learning systems in Julia with attractive visualizations. You will then delve into the world of Deep learning in Julia and will understand the framework, Mocha.jl with which you can create artificial neural networks and implement deep learning. This book addresses the challenges of real-world data science problems, including data cleaning, data preparation, inferential statistics, statistical modeling, building high-performance machine learning systems and creating effective visualizations using Julia. Style and approach This practical and easy-to-follow yet comprehensive guide will get you learning about Julia with respect to data science. Each topic is explained thoroughly and placed in context. For the more inquisitive, we dive deeper into the language and its use case. This is the one true guide to working with Julia in data science.

This book covers the Ubuntu 19.04 (Disco Dingo) release, focusing on applications and administrative tools. The emphasis here is on what users will face when using Ubuntu, covering topics like installation, applications, software management, the Ubuntu desktops (GNOME, MATE, and KDE), shell commands, network connections, and system administration tasks. There are four parts: Getting Started, Applications, Desktops, and Administration. Part 1 focuses on getting started, covering Ubuntu information and resources, using Ubuntu Live DVD/USB discs, installing and setting up Ubuntu, upgrading Ubuntu, basic use of the desktop interface, and connecting to wired and wireless networks. Ubuntu Software and Synaptic Package manager, which provides easy and effective software management, are both discussed. Part 2 keys in on office, multimedia, mail, Internet, and social media applications. Part 3 covers the Ubuntu, Kubuntu, Ubuntu MATE, Xubuntu, and Lubuntu desktops. as well as the BASH shell. The Ubuntu desktop with the GNOME interface is examined in detail.. Part 4 deals with administration topics, first discussing system tools like the GNOME system monitor, the Disk Usage Analyzer, and Disk Utility. Then a detailed chapter on Ubuntu system administration tools is presented, covering tasks such as managing users and file systems, Bluetooth setup, network folder sharing, backups, and printing. The network connections chapter covers a variety of network tasks, including manual configuration of wired and wireless connections, and firewalls.

Linux Mint è un sistema operativo moderno, elegante, gratuito e open source. Sviluppato a partire da Ubuntu, la sua popolarità è cresciuta al punto da diventare per molti la vera grande alternativa a Microsoft Windows e Apple OS X. Questo manuale insegna a utilizzare Linux Mint partendo dalla sua installazione, addentrandosi poi nella personalizzazione e nella configurazione, esplorando le applicazioni per la produttività e per l'intrattenimento, con un occhio di riguardo per la sicurezza. Nuovi utenti in cerca di supporto per la migrazione da un altro sistema operativo e utenti più esperti in cerca di solidi riferimenti, troveranno in questo libro una valida guida all'uso e scopriranno come Mint abbia in dotazione tutto quello che serve per lavorare con profitto ma anche divertirsi.

Get savvy with OpenCV and actualize cool computer vision applications About This Book Use OpenCV's Python bindings to capture video, manipulate images, and track objects Learn about the different functions of OpenCV and their actual implementations. Develop a series of intermediate to advanced projects using OpenCV and Python Who This Book Is For This learning path is for someone who has a working knowledge of Python and wants to try out OpenCV. This Learning Path will take you from a beginner to an expert in computer vision applications using OpenCV. OpenCV's application are humongous and this Learning Path is the best resource to get yourself acquainted thoroughly with OpenCV. What You Will Learn Install OpenCV and related software such as Python, NumPy, SciPy, OpenNI, and SensorKinect - all on Windows, Mac or Ubuntu Apply "curves" and other color transformations to simulate the look of old photos, movies, or video games Apply geometric transformations to images, perform image filtering, and convert an image into a cartoon-like image Recognize hand gestures in real time and perform hand-shape analysis based on the output of a Microsoft Kinect sensor Reconstruct a 3D real-world scene from 2D camera motion and common camera reprojection techniques Detect and recognize street signs using a cascade classifier and support vector machines (SVMs) Identify emotional expressions in human faces using convolutional neural networks (CNNs) and SVMs Strengthen your OpenCV2 skills and learn how to use new OpenCV3 features In Detail OpenCV is a state-of-art computer vision library that allows a great variety of image and video processing operations. OpenCV for Python enables us to run computer vision algorithms in real time. This learning path proposes to teach the following topics. First, we will learn how to get started with OpenCV and OpenCV3's Python API, and develop a computer vision application that tracks body parts. Then, we will build amazing intermediate-level computer vision applications such as making an object disappear from an image, identifying different shapes, reconstructing a 3D map from images , and building an augmented reality application, Finally, we'll move to more advanced projects such as hand gesture recognition, tracking visually salient objects, as well as recognizing traffic signs and emotions on faces using support vector machines and multi-layer perceptrons respectively. This Learning Path combines some of the best that Packt has to offer in one complete, curated package. It includes content from the following Packt products: OpenCV Computer Vision with Python by Joseph Howse OpenCV with Python By Example by Prateek Joshi OpenCV with Python Blueprints by Michael Beyeler Style and approach This course aims to create a smooth learning path that will teach you how to get started with will learn how to get started with OpenCV and OpenCV 3's Python API, and develop superb computer vision applications. Through this comprehensive course, you'll learn to create computer vision applications from scratch to finish and more!.

Now in its seventh edition, Linux in easy steps explains the Linux environment and how to get more out of this stable, as well as free, operating system. You'll be able to download, install and customize Linux, and master the desktop, in no time. Then, explore the key Linux apps, including: · The LibreOffice suite: Writer (word processor), Calc (spreadsheet), Impress (presentation), Draw (drawing tool), and Base (database). · Firefox for browsing the web. · Thunderbird for exchanging emails. · GIMP, Pix, Celluloid, Hypnotix, and Rhythmbox media apps to edit photos and videos and to enjoy music and movies. The final chapters show how to use the powerful Linux shell to communicate directly with the kernel at the very heart of Linux for total control. This guide will open the door to the whole new world of digital possibilities using Linux. Ideal for Linux newbies! Table of Contents 1. Getting started 2. Exploring the Desktop 3. Setting Preferences 4. Touring the File System 5. Engaging the Internet 6. Producing with Office 7. Enjoying Media 8. Using Accessories 9. Commanding the Terminal 10. Performing Operations

MariaDB is a database that has become very popular in the few short years that it has been around. It does not require a big server or expensive support contract. It is also powerful enough to be the database of choice for some of the biggest and most popular websites in the world, taking full advantage of the latest computing hardware available. From installing and configuring through basic usage and maintenance, each chapter in this revised and expanded guide leads on sequentially and logically from the one before it, introducing topics in their natural order so you learn what you need, when you need it. The book is based on the latest release of MariaDB and covers all the latest features and functions. By the end of this beginner-friendly book, not only will you have a running installation of MariaDB, but you will have practical, hands-on experience in the basics of how to install, configure, administer, use, and maintain it.

Learn the pros and the cons of the most frequently used distros in order to find the one that is right for you. You will explore each distro step by step, so that you don't have to endure hours of web surfing, countless downloads, becoming confused by new concepts and, in the worst cases, reading complex and marathon installation guides. You will benefit from the author's long-term experience working with each distro hands on, enabling you to choose the best distro for your long-term needs. The first barrier that a new Linux user has to face is the overwhelming number of "flavors" that this operating system has. These "flavors" are commonly known as distros (from distribution), and to date there are more than three hundred active distros to choose from. So, how to choose one? You can choose the most popular at the moment, or take heed of what your friend says, but are you sure that this is the one that you need? Making the wrong decision on this matter is behind a good number of disappointments with this operating system. You need to choose the distro that is right for you and your needs. Linux offers us a wonderful open source alternative to proprietary software. With *Introducing Linux Distros* you can decide how to best make it work for you. Start exploring the open source world today. What You'll learn Review what a Linux distro is and which one to select Decide which criteria to follow to make a right decision Examine the most used Linux distros and their unique philosophies install and maintain different Linux distros Who This Book Is For Newcomers to the Linux world that have to deal with the myriad of distributions.

Provides a solid foundation for those considering a career in IT—covers the objectives of the new Linux Essentials Exam 010-160 v1.6 Linux is a secure, reliable, open source alternative to costly operating systems such as Microsoft Windows. As large organizations worldwide continue to add Linux servers, the need for IT professionals skilled in Linux continues to grow. The LPI Linux Essentials Study Guide is a valuable resource for anyone preparing to take the new Linux Essentials Exam—the entry-level certification from The Linux Professional Institute (LPI) which validates knowledge of Linux concepts and applications. Written by recognized experts on Linux and open source technologies, this accessible, user-friendly guide covers desktop skills, the command line, directories and files, networks, scripting, security, users and permissions, and much more. Clear, concise chapters provide numerous hands-on tutorials, real-world examples, color illustrations, and practical end-of-chapter exercises and review questions. An ideal introduction for those new to Linux or considering a career in IT, this guide helps readers: Learn the operation and components of Linux desktops and servers Understand open source software, licensing, and applications Configure networks, security, cloud services, storage, and devices Create users and groups and set permissions and ownership Use the command line and build automation scripts LPI Linux Essentials Study Guide: Exam 010 v1.6 is perfect for anyone beginning a career in IT, newcomers to Linux, students in computer courses, and system administrators working with other operating systems wanting to learn more about Linux and other open source solutions.

If you want to learn how to use Linux and level up your career but are pressed for time, read on. As the founder of the Linux Training Academy and an instructor of several courses, I've had the good fortune of helping thousands of people hone their Linux skills. Interacting with so many people who are just getting started with the Linux operating system has given me invaluable insight into the particular struggles and challenges people face at this stage. One of the biggest challenges for people interested in learning the ins and outs of Linux is simply a lack of time. When you are working with a limited and extremely valuable resource you want to make sure you make the most of it. The next biggest challenge for Linux newcomers is knowing where to start. There is so much information available that deciding what to focus your attention on first is a big enough hurdle to keep many people from even starting. What's worse is starting down the path of learning only to discover too many concepts, commands, and nuances that aren't explained. This kind of experience is frustrating and leaves you with more questions than answers. That's why I've written this book. Not only have I condensed the most important material into five sections, each designed to be consumed in a day, I've also structured the content in a logical and systematic manner. This way you'll be sure to make the most out of your time by learning the foundational aspects of Linux first and then building upon that foundation each day. In *Learn Linux in 5 Days* you will learn the most important concepts and commands, and be guided step-by-step through several practical and real-world examples. As new concepts, commands, or jargon are encountered they are explained in plain language, making it easy to understand. Here is what you will learn by reading *Learn Linux in 5 Days*: How to get access to a Linux server if you don't already. What a Linux distribution is and which one to choose. What software is needed to connect to Linux from Mac and Windows computers. Screenshots included. What SSH is and how to use it, including creating and using SSH keys. The file system layout of Linux systems and where to find programs, configurations, and documentation. The basic Linux commands you'll use most often. Creating, renaming, moving, and deleting directories. Listing, reading, creating, editing, copying, and deleting files. Exactly how permissions work and how to decipher the most cryptic Linux permissions with ease. How to use the nano, vi, and emacs editors. Two methods to search for files and directories. How to compare the contents of files. What pipes are, why they are useful, and how to use them. How to compress files to save space and make transferring data easy. How and why to redirect input and output from applications. How to customize your shell prompt. How to be efficient at the command line by using aliases, tab completion, and your shell history. How to schedule and automate jobs using cron. How to switch users and run processes as others. Where to go for even more in-depth coverage on each topic. What you learn in *Learn Linux in 5 Days* applies to any Linux environment including Ubuntu, Debian, Linux Mint, RedHat, Fedora, OpenSUSE, Slackware, and more. Scroll up, click the Buy Now With 1 Click button and get started learning Linux today!

Summary *Learn Linux in a Month of Lunches* shows you how to install and use Linux for all the things you do with your OS, like connecting to a network, installing software, and

securing your system. Whether you're just curious about Linux or have to get up and running for your job, you'll appreciate how this book concentrates on the tasks you need to know how to do in 23 easy lessons. About the Technology If you've only used Windows or Mac OS X, you may be daunted by the Linux operating system. And yet learning Linux doesn't have to be hard, and the payoff is great. Linux is secure, flexible, and free. It's less susceptible to malicious attacks, and when it is attacked, patches are available quickly. If you don't like the way it looks or behaves, you can change it. And best of all, Linux allows users access to different desktop interfaces and loads of software, almost all of it completely free. About the Book Learn Linux in a Month of Lunches shows you how to install and use Linux for all the things you do with your OS, like connecting to a network, installing software, and securing your system. Whether you're just curious about Linux or need it for your job, you'll appreciate how this book focuses on just the tasks you need to learn. In easy-to-follow lessons designed to take an hour or less, you'll learn how to use the command line, along with practical topics like installing software, customizing your desktop, printing, and even basic networking. You'll find a road map to the commands and processes you need to be instantly productive. What's Inside Master the command line Learn about file systems Understand desktop environments Go from Linux novice to expert in just one month About the Reader This book is for anyone looking to learn how to use Linux. No previous Linux experience required. About the Author Steven Ovardia is a professor and librarian at LaGuardia Community College, CUNY. He curates The Linux Setup, a large collection of interviews with desktop Linux users, and writes for assorted library science journals. Table of Contents PART 1 - GETTING LINUX UP AND RUNNING Before you begin Getting to know Linux Installing Linux Getting to know your system Desktop environments Navigating your desktop PART 2 - A HOME OFFICE IN LINUX Installing software An introduction to Linux home/office software Text files and editors Working with files and folders on the command line Working with common command-line applications, part 1 Working with common command-line applications, part 2 Using the command line productively Explaining the Linux filesystem hierarchy Windows programs in Linux Establishing a workflow PART 3 - HOME SYSTEM ADMIN ON LINUX An in-depth look at package management and maintenance Updating the operating system Linux security Connecting to other computers Printing Version control for non-programmers Never the end

Know how to set up, defend, and attack computer networks with this revised and expanded second edition. You will learn to configure your network from the ground up, beginning with developing your own private virtual test environment, then setting up your own DNS server and AD infrastructure. You will continue with more advanced network services, web servers, and database servers and you will end by building your own web applications servers, including WordPress and Joomla!. Systems from 2011 through 2017 are covered, including Windows 7, Windows 8, Windows 10, Windows Server 2012, and Windows Server 2016 as well as a range of Linux distributions, including Ubuntu, CentOS, Mint, and OpenSUSE. Key defensive techniques are integrated throughout and you will develop situational awareness of your network and build a complete defensive infrastructure, including log servers, network firewalls, web application firewalls, and intrusion detection systems. Of course, you cannot truly understand how to defend a network if you do not know how to attack it, so you will attack your test systems in a variety of ways. You will learn about Metasploit, browser attacks, privilege escalation, pass-the-hash attacks, malware, man-in-the-middle attacks, database attacks, and web application attacks. What You'll Learn Construct a testing laboratory to experiment with software and attack techniques Build realistic networks that include active directory, file servers, databases, web servers, and web applications such as WordPress and Joomla! Manage networks remotely with tools, including PowerShell, WMI, and WinRM Use offensive tools such as Metasploit, Mimikatz, Veil, Burp Suite, and John the Ripper Exploit networks starting from malware and initial intrusion to privilege escalation through password cracking and persistence mechanisms Defend networks by developing operational awareness using auditd and Sysmon to analyze logs, and deploying defensive tools such as the Snort intrusion detection system, IPFire firewalls, and ModSecurity web application firewalls Who This Book Is For This study guide is intended for everyone involved in or interested in cybersecurity operations (e.g., cybersecurity professionals, IT professionals, business professionals, and students)

This book covers the Linux Mint 19 release (Tara), focusing on desktops and administrative tools. The emphasis here is on what users will face when using Mint, covering topics like installation, applications, software management, the Mint desktops (Cinnamon, Mate, and Xfce), shell commands, network connections, and system administration tasks. Linux Mint 19 is based on the Ubuntu 18.04 LTR (Long Term Release). The Cinnamon and Mate desktops are examined in detail. Cinnamon and Mate have custom Mint menus to manage access to applications and devices. Advanced components are also examined such as the LightDM Display Manager, PulseAudio sound configuration, and Mint software management applications (Software Manager and Update Manager). The Linux Mint X-Apps are also reviewed, including Xplayer, Xed, and Xviewer. Administration topics include system tools, managing users, file systems, Bluetooth setup, printer configuration, and network folder and file sharing. In addition, configuration of wired and wireless connections, firewalls (the Gufw and FirewallD), and service management using systemd are covered. Shared resources are also examined, including the CUPS printing server, the NFS Linux network file server, and Samba Windows file and printing server.

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