



# Manjaro Linux User Guide : Gain Proficiency in Linux Through One of Its Best User- Friendly Arch-based Distributions /

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Monografía

An easy-to-follow guide for newbies and advanced users to learn Manjaro Linux for everyday tasks with practical examples Key Features Explore Manjaro, from installation to using all its available applications Learn how to easily protect your privacy online, manage your system, and handle backups Master key Linux concepts such as file systems, sharing, systemd, and journalctl Purchase of the print or Kindle book includes a free PDF eBook Book Description Manjaro Linux, renowned for its smooth installation, user-friendly interface, and robust security features, is an Arch-based fast Linux distro enhanced with multiple graphical environments, GUI modules, and a full application setup, resulting in a top Linux distribution. This book is your guide to unlocking its full potential. Starting with an overview of the different editions and detailed installation instructions, the initial section offers insights into the GUI modules and features of each official edition. You'll then explore the regular software, work with the Terminal, and cover topics such as package management, filesystems, automounts, storage, backups, and encryption. The subsequent chapters will help you get to grips with data sharing, security and networking, firewalls, VPNs, and SSH in depth. Finally, you'll become well-versed in service and user management, troubleshooting, scripting, automation, and kernel switching. The book's modular structure allows you to quickly navigate to the specific information you need, and by its end, you'll have gained an appreciation of what sets Manjaro Linux apart. What you will learn Gain insights into the full set of Manjaro capabilities Install Manjaro and easily customize it using a graphical user interface Explore all types of supported software, including office and gaming applications Learn basic and advanced Terminal usage with examples Understand package management, filesystems, network and the Internet Enhance your security with Firewall setup, VPN, SSH, and encryption Explore systemd management, journalctl, logs, and user management Get to grips with scripting, automation, kernel basics, and switching Who this book is for While this book is primarily a reference guide for intermediate and advanced users who want to explore Linux via Manjaro's top-notch distribution, it's also a perfect guide for Linux enthusiasts and newbies in search of a stable and secure OS with plenty of flexibility. Whether you're a student, new to Linux, or looking to migrate from Windows/macOS, this book will help you navigate easily. Prior Linux experience will help but is not required to get started with this book

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**Contenido:** Cover -- Title Page -- Copyright and Credits -- Contributors -- Table of Contents -- Preface -- Part 1: Installation, Editions, and Help -- Chapter 1: Introduction to Manjaro and Linux -- Book structure and contents -- Versions -- A polite request -- Arch Linux and how Manjaro is related to it -- What about Linux, Windows, macOS, and Unix/FreeBSD? -- Linux -- Windows -- macOS -- Unix/FreeBSD -- A brief Linux history and what a distribution actually is -- Key points for each major distribution -- Summary -- Chapter 2: Editions Overview and Installation -- Editions overview -- Xfce -- The Plasma desktop -- The GNOME desktop -- Environments for ARM-based micro-computers -- Preparing for any installation -- Choosing the right image -- The Calamares installer -- Automatic HW recognition -- Installing on a USB stick -- How to choose the right tool -- BIOS/UEFI setup for installation on a PC -- How to understand whether your computer is BIOS/EFI or UEFI-based -- What needs to be done for (U)EFI setup -- What needs to be done for a pure BIOS system -- What needs to be done for a (U)EFI system to boot in BIOS mode -- The installation itself -- Pure installation -- GParted and partition management -- Manual installation for EFI-based computers (for advanced users) -- Manual installation for BIOS-based computers (for advanced users) -- Installation on a virtual machine -- Installation in parallel with Windows (also known as Dual Boot) -- Installation on ARM platforms -- Summary -- Chapter 3: Editions and Flavors -- A few important steps after installation -- Xfce edition and settings -- Xfce desktop and bottom panel bar right-click settings -- Xfce application launcher and settings -- KDE Plasma edition and settings -- KDE Plasma desktop right-click menu -- KDE Plasma application launcher -- The KDE Plasma System Settings area KDE Plasma general keyboard shortcuts -- GNOME edition and settings -- The other editions - Cinnamon, Lxde, Mate, and so on -- Summary -- Chapter 4: Help, Online Resources, Forums, and Updates -- Help -- Troubleshooting -- Online resources -- The news -- The forum - the greatest collection of knowledge -- Notices -- Introduce Yourself -- Non-technical Questions -- Support -- ARM -- Announcements -- Manjaro Development -- Contributions -- Languages -- Feedback -- The Rolling Release Development Model -- Updates -- Summary -- Part 2: Daily Usage -- Chapter 5: Officially Supported Software - Part 1 -- Pacman - the Add/Remove SW GUI application -- The Flatpak, Snap, and AppImage containers -- For advanced users -- AUR -- The Manjaro repositories -- Office tools, calendars, and mail clients -- Mail clients with calendars -- Office -- Browsers -- Test results -- Photo, video, image, and graphics -- Photo/images -- Graphics -- Summary -- Chapter 6: Officially Supported Software Part 2, 3D Games, and Windows SW -- Music and audio -- Classic audio players -- Streaming players -- Audio editors and DAWs -- Music servers -- Teams, Zoom, Viber, Spotify, WhatsApp, Signal, and Telegram -- A note regarding Signal, Telegram, and WhatsApp -- Text editors -- Lightweight/simple editors -- Sophisticated editors -- IDEs -- Terminal editors -- Recommendations -- Drivers, tools, and simple games -- Drivers on Manjaro Linux -- NVIDIA, open source, and other hardware drivers -- Screenshot tools -- Virtual machines -- Education and Science -- For video and/or audio conversion -- Others -- Simple Games -- Advanced 2D/3D game support on Linux -- Game controller support and further points -- For advanced users -- Creating application shortcuts, and converting .deb and .rpm packages -- Converting .deb and .rpm packages -- How to use Windows software on Linux Short history recap -- The Linux tools for Windows software -- Summary -- Chapter 7: All Basic Terminal Commands - Easy and with Examples -- The most important commands for newbies -- What are Shell, BASH, and Zsh? -- What is a Terminal? -- For beginners -- A bit of advanced (and still easy) commands -- Installing a missing command (application) -- grep and more piping -- touch, rm, mv, cp, reboot, and shutdown -- nano, vi, and vim -- find -- Advanced find - execute a command for each result -- Getting system information -- Getting HW information -- Piping and redirection -- Investigating and killing running processes -- Executing an application in the foreground and background -- Getting advanced help directly in the Terminal -- man -- info -- Summary -- Part 3: Intermediate Topics for Daily Usage -- Chapter 8: Package Management, Dependencies, Environment Variables, and Licenses -- Dependencies -- Pacman, pacman, Octopi, and package management -- Pacman -- pacman -- Octopi -- Environment variables and current context -- Licenses -- Summary -- Chapter 9: Filesystem Basics, Structure, and Types, NTFS, Automount, and

RAID -- Linux filesystems basics -- Linux/Unix file types -- Drives and partitions -- Inodes and links -- Standard and extended attributes -- Linux-supported FS types -- Ext4 and a bit of history -- XFS and ZFS -- btrfs -- Other FSs used rarely -- Journaling, CoW, B-tree, and checksums -- Healing and self-healing -- Linux directory structure -- External storage, NTFS, and automount -- External storage -- NTFS -- Auto and manual mount -- FS snapshots and RAID -- Snapshots -- RAID -- Summary -- Chapter 10: Storage, Mounting, Encryption, and Backups -- Storage management, partitions, and mounting -- Storage -- Creating a new partition -- Mounting -- Shrinking /resizing root or home partitions to free space Partition creation and encryption via a terminal -- LUKS -- Backups, tools, rsync, and recovery -- What is a backup? -- Deciding what to back up -- Backing up SW, rsync, and recovery -- Summary -- Chapter 11: Network Fundamentals, File Sharing, and SSH -- Network basics -- IPv4 address -- IPv6 address -- Hostname -- DNS and WWW -- Local network configuration basics -- Pinging a computer in our local network -- Router -- Static and dynamic IPs -- Local and public IP -- Scanning the network -- Subnet mask of a network -- Short network sharing introduction -- A bit of NFS history and characteristics -- Enabling time synchronization for NFS -- Sharing on the server side -- Essential commands for NFS status -- Getting access to a shared directory on the client side -- Synchronization on the client side -- Mounting permanently on the client side based on a static IP -- Automating all the commands -- Accessing NFS shared data by server name -- Accessing data via an encrypted connection -- Windows clients -- macOS clients -- Sharing via Samba Server -- Sharing directories by ourselves via Terminal and all configurations -- Secure Shell (SSH) and working remotely -- Enabling SSH on the server side -- Connecting from another Linux machine locally -- Connecting remotely from the internet -- Connecting remotely from the internet through a VPN -- Connecting from a Windows machine -- Sharing via SSHFS -- Summary -- Chapter 12: Internet, Network Security, Firewalls, and VPNs -- How the internet works, network protocols, and ports -- TCP/IP and OSI network models -- All types of network protocols and the ports for them -- UDP versus TCP and others -- A few other essential protocols -- The Linux basic network modules and a port-scan tool -- Attacks, security advice, and firewalls -- When is a Linux distribution in danger? -- When is a Windows machine in danger? What about macOS? -- Common types of attacks -- Main advanced attacks that a firewall will not defend you from -- General good advice against all regular attacks -- Firewall types -- Setting up your firewall from A to Z -- ufw and firewall-cmd -- Configuring ufw -- Configuring firewalld -- VPNs -- The benefits for a single home user -- For a business use case -- Countries in which using a VPN is illegal -- What are the potential drawbacks of using a VPN connection? -- Measuring VPN connection quality -- Is it possible to hack a VPN connection or a PC connected to it? -- Considerations when choosing your VPN provider -- Installing Surfshark and working with it -- Installing ExpressVPN and working with it -- What happens with my local IP address reports? -- Setting up your own VPN connection -- Summary -- Part 4: Advanced Topics -- Chapter 13: Service Management, System Logs, and User Management -- Processes, daemons, and systemd -- Processes -- Daemons on Linux -- systemd introduction and a bit of history -- systemd configurations, units, and targets -- Analyzing systemd's init sequence -- The most important systemctl command options -- Linux virtual TTY consoles -- journalctl and system logs -- Inspecting logs with journalctl -- journald.conf -- Kernel ring buffer messages and dmesg -- Other log systems and the KSystemLog GUI tool -- User management, groups, ownership, and root privileges -- Users and passwords -- Groups -- Changing file or directory mode, ownership, and group -- Root user -- Summary -- Chapter 14: System Cleanup, Troubleshooting, Defragmentation, and Reinstallation -- Cleaning unnecessary files, pacman, and caches -- Where do unnecessary files come from? -- When do we have a problem? -- How to analyze space usage -- What can we do on Manjaro? -- Defragmentation - do we need it at all and how to do it How to analyze the fragmentation and perform defragmentation

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