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ZFS improves everything about systems administration. Once you peek under the hood, though, ZFS' bewildering array of knobs and tunables can overwhelm anyone. ZFS experts can make their servers zing--and now you can, too, with FreeBSD Mastery: Advanced ZFS. This small book teaches you to: Use boot environments to make the riskiest sysadmin tasks boring Delegate filesystem privileges to users Containerize ZFS datasets with jails Quickly and efficiently replicate data between machines split layers off of mirrors optimize ZFS block storage handle large storage arrays select caching strategies to improve performance manage next-generation storage hardware identify and remove bottlenecks build screaming fast database storage dive deep into pools, metaslabs, and more Whether you manage a single small server or international datacenters, simplify your storgae with FreeBSD Mastery: Advanced ZFS.

ZFS improves everything about systems administration. Once you peek under the hood, though, ZFS' bewildering array of knobs and tunables can overwhelm anyone. ZFS experts can make their servers zing--and now you can, too, with FreeBSD Mastery: Advanced ZFS. This small book teaches you to: •Use boot environments to make the riskiest sysadmin tasks boring •Delegate filesystem privileges to users •Containerize ZFS datasets with jails •Quickly and efficiently replicate data between machines •split layers off of mirrors •optimize ZFS block storage •handle large storage arrays •select caching strategies to improve performance •manage next-generation storage hardware •identify and remove bottlenecks •build screaming fast database storage •dive deep into pools, metaslabs, and more! Whether you manage a single small server or international datacenters, simplify your storage with FreeBSD Mastery: Advanced ZFS.

CONFINED YOUR SOFTWARE Jails are FreeBSD's most legendary feature: known to be powerful, tricky to master, and cloaked in decades of dubious lore. Deploying jails calls upon every sysadmin skill you have, and more—but unleashing lightweight virtualization is so worth it. FreeBSD Mastery: Jails cuts through the clutter to expose the inner mechanisms of jails and unleash their power in your service. You will: • Understand how jails achieve lightweight virtualization • Understand the base system's jail tools and the iocage toolkit • Optimally configure jail hardware • Manage jails from the host and from within the jail • Optimize disk space usage to support hundreds or thousands of jails • Comfortably work within the limits of jails • Implement fine-grained control of jail features • Build virtual networks • Deploy hierarchical jails • Constrain jail resource usage • And more! Strip away the mystery. Read FreeBSD Mastery: Jails today! "This is the sequel to Git Commit Murder, right?" /phk, creator of the jail system

FreeBSD—the powerful, flexible, and free Unix-like operating system—is the preferred server for many enterprises. But it can be even trickier to use than either Unix or Linux, and harder still to master. Absolute FreeBSD, 2nd Edition is your complete guide to FreeBSD, written by FreeBSD committer Michael W. Lucas. Lucas considers this completely revised and rewritten second edition of his landmark work to be his best work ever; a true product of his love for FreeBSD and the support of the FreeBSD community. Absolute FreeBSD, 2nd Edition covers installation, networking, security, network services, system performance, kernel tweaking, filesystems, SMP, upgrading, crash debugging, and much more, including coverage of how to:—Use advanced security features like packet filtering, virtual machines, and host-based intrusion detection —Build custom live FreeBSD CDs and bootable flash —Manage network services and filesystems —Use DNS and set up email, IMAP, web, and FTP services for both servers and clients —Monitor your system with performance-testing and troubleshooting tools —Run diskless systems —Manage schedulers, remap shared libraries, and optimize your system for your hardware and your workload —Build custom network appliances with embedded FreeBSD —Implement redundant disks, even without special hardware —Integrate FreeBSD-specific SNMP into your network management system. Whether you're just getting started with FreeBSD or you've been using it for years, you'll find this book to be the definitive guide to FreeBSD that you've been waiting for.

FreeBSD is one of the oldest and most featureful open-source Unix-like operating systems. FreeBSD Mastery: Storage Essentials takes you on a deep dive into FreeBSD's disk management systems.You'll learn about: identifying your storage hardware the Common Access Method GEOM-FreeBSD's powerful and flexible stackable storage system GUID Partition Tables, the modern disk partitioning standard MBR/disklabel partitioning, used by older and embedded systems avoiding common partitioning errors aligning partitions to the physical disk, for peak performance the high-performance Unix File System tuning UFS to fit your environment and load Two ways to journal filesystems, and when to use each The GELI and GBOE disk encryption systems, and when to use each Software-based disk mirroring, striping, RAID-5 and RAID-10. Custom FreeBSD installsAnd more!Don't just configure your storage. Understand it. Get FreeBSD Mastery: Storage Essentials today!

OpenBSD, the elegant, highly secure Unix-like operating system, is widely used as the basis for critical DNS servers, routers, firewalls, and more. This long-awaited second edition of Absolute OpenBSD maintains author Michael Lucas's trademark straightforward and practical approach that readers have enjoyed for years. You'll learn the intricacies of the platform, the technical details behind certain design decisions, and best practices, with bits of humor sprinkled throughout. This edition has been completely updated for OpenBSD 5.3, including new coverage of OpenBSD's boot system, security features like W^X and ProPolice, and advanced networking techniques. You'll learn how to: —Manage network traffic with VLANs, trunks, IPv6, and the PF packet filter —Make software management quick and effective using the ports and packages system —Give users only the access they need with groups, sudo, and chroots —Configure OpenBSD's secure implementations of SNMP, DHCP, NTP, hardware sensors, and more —Customize the installation and upgrade processes for your network and hardware, or build a custom OpenBSD release Whether you're a new user looking for a complete introduction to OpenBSD or an experienced sysadmin looking for a refresher, Absolute OpenBSD, 2nd Edition will give you everything you need to master the intricacies of the world's most secure operating system.

Learn the basics of do-it-yourself ZFS storage on Linux. This book delivers explanations of key features and provides best practices for planning, creating and sharing your storage. ZFS as a file system simplifies many aspects of the storage administrator's day-to-day job and solves a lot of problems that administrators face, but it can be confusing. Introducing ZFS on Linux addresses some of these issues and shows you how to resolve them. This book explains the technical side of ZFS, through planning the hardware list to planning the physical and logical layout of the storage. What You'll Learn Understand the gains ZFS gives system and storage administrators and utilize its features Install and configure ZFS software Create and maintain ZFS pool Administer ZFS storage, including sharing Who This Book is For This book is ideal for those who already have experience working with Linux systems but want to understand the bare basics of ZFS before moving further.

This book contains comprehensive, up-to-date, and authoritative technical information on the internal structure of the FreeBSD open-source operating system. Coverage includes the capabilities of the system; how to effectively and efficiently interface to the system; how to maintain, tune, and configure the operating system; and how to extend and enhance the system. The authors provide a concise overview of FreeBSD's design and implementation. Then, while explaining key design decisions, they detail the concepts, data structures, and algorithms used in implementing the systems facilities. As a result, this book can be used as an operating systems textbook, a practical reference, or an in-depth study of a contemporary, portable, open-source operating system. -- Provided by publisher.

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