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Webinar with Deb Goodkin, June 25, 2020
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Twenty Years in Jail: FreeBSD's Jails, Then and Now
**MeetBSD 2018-Michael W Lucas—Why BSD? ZFS on Linux?**
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**What is FreeBSD**
by Gavin Atkinson

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Publisher Description
This updated edition of Michael W. Lucas' definitive volume on FreeBSD-based systems adds coverage of modern disks, the ZFS filesystem IPv6, redesigned jail and packaging systems, and virtualization, among dozens of new features added in the last 10 years. FreeBSD is the muscle behind companies like Netflix and EMC.

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Absolute FreeBSD, 3rd Edition : The Complete Guide to ...
Absolute FreeBSD, 3rd Edition The Complete Guide to FreeBSD by Michael W. Lucas October 2018, 704 pp.

Absolute FreeBSD, 3rd Edition | No Starch Press
Absolute BSD taught new sysadmins how to build and manage a FreeBSD server.

Operating Systems – Michael Warren Lucas
That sentence caught my eye in the blog post Announcing the release of sway 1.0 by Drew DeVault, because I could not find any further information, tutorial or blog posts about installing, configuring and using Sway on FreeBSD.. Everything including the especially created tools (except one) is available in a current version from ports:

" Absolute FreeBSD 3rd Edition " update : freebsd
The Absolute FreeBSD, 3rd Edition is the latest, updated edition of Michael W. Lucas ' definitive volume on FreeBSD-based systems.

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Absolute FreeBSD, 3rd Edition The Complete Guide to FreeBSD. Michael W. Lucas. € 35,99; € 35,99; Beschrijving uitgever. This updated edition of Michael W. Lucas' definitive volume on FreeBSD-based systems adds coverage of modern disks, the ZFS filesystem IPv6, redesigned jail and packaging systems, and virtualization, among dozens of new ...

Absolute FreeBSD, 3rd Edition in Apple Books
Approximately one-third of this edition ' s content is completely new, and another one-third has been extensively rewritten. Three long-time FreeBSD project leaders begin with a concise overview of the FreeBSD kernel ' s current design and implementation.

Amazon.com: Design and Implementation of the FreeBSD ...
Absolute FreeBSD, 3rd Edition September 3, 2019 haliz This updated edition of Michael W.

Download PDF Absolute FreeBSD, 3rd Edition
Learned so much from the previous edition, is a great book, and I've just bought the Kindle version of Absolute FreeBSD, 3rd Edition: The Complete Guide to FreeBSD. Highly recommended! Together with the FreeBSD Handbook is everything you need to master FreeBSD.

Absolute FreeBSD, 3rd Edition: The Complete Guide to ...
Absolute FreeBSD, 3rd Edition. by Michael W. Lucas. Released October 2018. Publisher (s): No Starch Press. ISBN: 9781593278922. Explore a preview version of Absolute FreeBSD, 3rd Edition right now.

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on the Third Edition ContentsofThis Book.xli xliii xliiii xliiii ...

Absolute FreeBSD : the complete guide to FreeBSD
About Absolute FreeBSD, 3rd Edition. This updated edition of Michael W. Lucas ' definitive volume on FreeBSD-based systems adds coverage of modern disks, the ZFS filesystem IPv6, redesigned jail and packaging systems, and virtualization, among dozens of new features added in the last 10 years. FreeBSD is the muscle behind companies like Netflix and EMC.

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Network Flow Analysis by Michael W. Lucas. Paperback ...
March 7, 2020 by Albert Valbuena
Absolute FreeBSD 3rd Edition from Michael W. Lucas, printed by ' No Starch Press ', is an absolute (pun intended) must have for every BSD user and I ' d go so far as to say to every UNIX and Linux user indeed.

### FreeBSD

This updated edition of Michael W. Lucas' definitive volume on FreeBSD-based systems adds coverage of modern disks, the ZFS filesystem IPv6, redesigned jail and packaging systems, and virtualization, among dozens of new features added in the last 10 years. FreeBSD is the muscle behind companies like Netflix and EMC. Any place where someone does heavy lifting on the Internet, you'll find FreeBSD. This newly revised edition of Absolute FreeBSD brings FreeBSD's strengths to bear on your problems and covers FreeBSD's newest features, all in the inimitable style that has made author Michael W. Lucas' system administration books so popular. Any computer system is only as good as the system administrator's knowledge. Absolute FreeBSD teaches you everything you need to know about managing FreeBSD systems, from installation, configuration, and taking the system from "just working" to "working well." A cohesive focus on service delivery and best practice means that you can apply much of the book to other operating systems.
Absolute FreeBSD dives deep into server management, taking you beyond just making things work and into understanding why they work. You'll learn:
• How to best install FreeBSD to meet your needs
• Which filesystem to use in your environment
• How to back up and restore critical data
• How to tweak the kernel, and when not to
• Network configuration, from activating interfaces to selecting congestion control algorithms
• How to manage UFS, ZFS, and other critical filesystems
• FreeBSD's software packaging system, including how to build your own package repository
• How and when to upgrade
• Techniques to build your own FreeBSD
• Advanced security features like blacklistd and packet filtering
• How to monitor and adjust performance
• Container-style virtualization with jails
• Diskless systems
• Panic management and bug reporting
With Absolute FreeBSD you will get the solid introduction you need, and if you're a fan of the earlier editions, you will expand your skills even further.

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.

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 Luca'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.

FreeBSD and OpenBSD are increasingly gaining traction in educational institutions, non-profits, and corporations worldwide because they provide significant security advantages over Linux. Although a lot can be said for the robustness, clean organization, and stability of the BSD operating systems, security is one of the main reasons system administrators use these two platforms. There are plenty of books to help you get a FreeBSD or OpenBSD system off the ground, and all of them touch on security to some extent, usually dedicating a chapter to the subject. But, as security is commonly named as the key concern for today's system administrators, a single chapter on the subject can't provide the depth of information you need to keep your systems secure. FreeBSD and OpenBSD are rife with security "building blocks" that you can put to use, and Mastering FreeBSD and OpenBSD Security shows you how. Both operating systems have kernel options and filesystem features that go well beyond traditional Unix permissions and controls. This power and flexibility is valuable, but the colossal range of possibilities need to be tackled one step at a time. This book walks you through the installation of a hardened operating system, the installation and configuration of critical services, and ongoing maintenance of your FreeBSD and OpenBSD systems. Using an application-specific approach that builds on your existing knowledge, the book provides sound technical information on FreeBSD and Open-BSD security with plenty of real-world examples to help you configure and deploy a secure system. By imparting a solid technical foundation as well as practical know-how, it enables administrators to push their server's security to the next level. Even administrators in other environments—like Linux and Solaris—can find useful paradigms to emulate. Written by security professionals with two decades of operating system experience, Mastering FreeBSD and OpenBSD Security features broad and deep explanations of how how to secure your most critical systems. Where other books on BSD systems help you achieve functionality, this book will help you more thoroughly secure your deployments.

This practical guidebook explains not only how to get a computer up and running with the FreeBSD operating system, but how to turn it into a highly functional and secure server that can host large numbers of users and disks, support remote access and provide key parts of the Inter

CONFINING 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 locage 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

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.

Device Drivers make it possible for your software to communicate with your hardware, and because every operating system has specific requirements, driver writing is nontrivial. When developing for FreeBSD, you've probably had to scour the Internet and dig through the kernel sources to figure out how to write the drivers you need. Thankfully, that stops now. In FreeBSD Device Drivers, Joseph Kong will teach you how to master everything from the basics of building and running loadable kernel modules to more complicated topics like thread synchronization. After a crash course in the different FreeBSD driver frameworks, extensive tutorial sections dissect real-world drivers like the parallel port printer driver. You'll learn: – All about Newbus, the infrastructure used by FreeBSD to manage the hardware devices on your system – How to work with ISA, PCI, USB, and other buses – The best ways to control and communicate with the hardware devices from user space – How to use Direct Memory Access (DMA) for maximum system performance – The inner workings of the virtual null modem terminal driver, the USB printer driver, the Intel PCI Gigabit Ethernet adapter driver, and other important drivers – How to use Common Access Method (CAM) to manage host bus adapters (HBAs)
Concise descriptions and extensive annotations walk you through the many code examples. Don't waste time searching man pages or digging through the kernel sources to figure out how to make that arcane bit of hardware work with your system. FreeBSD Device Drivers gives you the framework that you need to write any driver you want, now.

The FreeBSD Handbook is the definitive FreeBSD tutorial and reference. This revised third edition has been expanded into a two Volume set filled with updated information on the latest FreeBSD technologies. This first volume provides step by step instructions and installing FreeBSD on a PC, setting up a graphical desktop environment, and installing additional third party software.

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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