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2021-09-10

GIANCARLO BRADLEY

DTrace Addison-Wesley Professional Python is a powerful, expressive programming language that's easy to learn and fun to use! But books about learning to program in Python can be kind of dull, gray, and boring, and that's no fun for anyone. Python for Kids brings Python to life and brings you (and your parents) into the world of programming. The ever-patient Jason R. Briggs will guide you through the basics as you experiment with unique (and often hilarious) example programs that feature ravenous monsters, secret agents, thieving ravens, and more. New terms are defined; code is colored, dissected, and explained; and quirky, full-color illustrations keep things on the lighter side. Chapters end with programming puzzles designed to stretch your brain and strengthen your understanding. By

the end of the book you'll have programmed two complete games: a clone of the famous Pong and "Mr. Stick Man Races for the Exit"—a platform game with jumps, animation, and much more. As you strike out on your programming adventure, you'll learn how to:

- Use fundamental data structures like lists, tuples, and maps
- Organize and reuse your code with functions and modules
- Use control structures like loops and conditional statements
- Draw shapes and patterns with Python's turtle module
- Create games, animations, and other graphical wonders with tkinter

Why should serious adults have all the fun? Python for Kids is your ticket into the amazing world of computer programming. For kids ages 10+ (and their parents) The code in this book runs on almost anything: Windows, Mac, Linux, even an OLPC laptop or Raspberry Pi!

Systems Performance Tilted Windmill Press

"ZFS, the fast, flexible, self-healing filesystem, revolutionized data storage. Leveraging ZFS changes everything about managing FreeBSD systems. With *FreeBSD Mastery: ZFS*, you'll learn to: select hardware for ZFS systems, arrange your storage for optimal performance, configure datasets that match your enterprise's needs, repair and monitor storage pools, expand your storage, use compression to enhance performance, determine if deduplication is right for your data, understand how copy-on-write changes everything, snapshot filesystems, automatically rotate snapshots, clone filesystems, optimize how ZFS uses and manages space, customize FreeBSD ZFS installs" - Back cover.

FreeBSD Mastery: Specialty Filesystems
Tilted Windmill Press

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.

Networking for Systems

Administrators Createspace

Independent Publishing Platform

Use BPF Tools to Optimize Performance, Fix Problems, and See Inside Running Systems BPF-based performance tools give you unprecedented visibility into systems and applications, so you can optimize performance, troubleshoot code, strengthen security, and reduce costs. BPF Performance Tools: Linux System and Application Observability is the definitive guide to using these tools for observability. Pioneering BPF expert Brendan Gregg presents more than 150 ready-to-run analysis and debugging tools, expert guidance on applying them, and step-by-step tutorials on developing your own. You'll learn how to analyze CPUs, memory, disks, file systems, networking, languages, applications, containers, hypervisors, security, and the kernel. Gregg guides you from basic to advanced tools, helping you generate deeper, more useful technical insights for improving virtually any Linux system or application. • Learn essential tracing concepts and both core BPF front-ends: BCC and bpftrace • Master 150+ powerful BPF tools, including dozens created just for this book, and available for download • Discover practical strategies, tips, and tricks for more effective analysis • Analyze compiled, JIT-compiled, and interpreted code in multiple languages: C, Java, bash shell, and more • Generate metrics, stack traces, and custom latency histograms • Use complementary tools when they offer quick, easy wins • Explore advanced tools built on BPF: PCP and Grafana for remote monitoring, eBPF Exporter, and kubectl-trace for tracing Kubernetes • Foreword by Alexei Starovoitov, creator of the new BPF BPF

Performance Tools will be an indispensable resource for all administrators, developers, support staff, and other IT professionals working with any recent Linux distribution in any enterprise or cloud environment.

Python for Kids "O'Reilly Media, Inc."

A compendium of shell scripting recipes that can immediately be used, adjusted, and applied. The shell is the primary way of communicating with the Unix and Linux systems, providing a direct way to program by automating simple-to-intermediate tasks. With this book, Linux expert Steve Parker shares a collection of shell scripting recipes that can be used as is or easily modified for a variety of environments or situations. The book covers shell programming, with a focus on Linux and the Bash shell; it provides credible, real-world relevance, as well as providing the flexible tools to get started immediately. Shares a collection of helpful shell scripting recipes that can immediately be used for various of real-world challenges. Features recipes for system tools, shell features, and systems administration. Provides a host of plug and play recipes for to immediately apply and easily modify so the wheel doesn't have to be reinvented with each challenge faced. Come out of your shell and dive into this collection of tried and tested shell scripting recipes that you can start using right away!

TLS Mastery No Starch Press

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.

The Book of GIMP Tilted Windmill Press

The Oracle Solaris DTrace feature revolutionizes the way you debug operating systems and applications. Using DTrace, you can dynamically instrument software and quickly answer virtually any question about its behavior. Now, for the first time, there's a comprehensive, authoritative guide to making the most of DTrace in any supported UNIX environment--from Oracle Solaris to OpenSolaris, Mac OS X, and FreeBSD. Written by key contributors to the DTrace community, DTrace teaches by example, presenting scores of commands and easy-to-adapt, downloadable D scripts. These concise examples generate answers to real and

useful questions, and serve as a starting point for building more complex scripts. Using them, you can start making practical use of DTrace immediately, whether you're an administrator, developer, analyst, architect, or support professional. The authors fully explain the goals, techniques, and output associated with each script or command. Drawing on their extensive experience, they provide strategy suggestions, checklists, and functional diagrams, as well as a chapter of advanced tips and tricks. You'll learn how to Write effective scripts using DTrace's D language Use DTrace to thoroughly understand system performance Expose functional areas of the operating system, including I/O, filesystems, and protocols Use DTrace in the application and database development process Identify and fix security problems with DTrace Analyze the operating system kernel Integrate DTrace into source code Extend DTrace with other tools This book will help you make the most of DTrace to solve problems more quickly and efficiently, and build systems that work faster and more reliably.

The FreeBSD Handbook It Mastery 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*.

MCSA Windows Server 2012

Complete Study Guide Tilted Windmill Press

The Complete Guide to Optimizing Systems Performance Written by the winner of the 2013 LISA Award for Outstanding Achievement in System Administration Large-scale enterprise, cloud, and virtualized computing systems have introduced serious performance challenges. Now, internationally renowned performance expert Brendan Gregg has brought together proven methodologies, tools, and metrics for analyzing and tuning even the most complex environments. *Systems Performance: Enterprise and the Cloud* focuses on Linux® and Unix® performance, while illuminating performance issues that are relevant to all operating systems. You'll gain deep insight into how systems work and perform, and learn methodologies for analyzing and improving system and application performance. Gregg presents examples from bare-metal systems and virtualized cloud tenants running Linux-based Ubuntu®, Fedora®, CentOS, and the illumos-based Joyent® SmartOS™ and OmniTI OmniOS®. He systematically covers modern systems performance, including the “traditional” analysis of CPUs, memory, disks, and networks, and new areas including cloud computing and dynamic tracing. This book also helps you identify and fix the “unknown

unknowns” of complex performance: bottlenecks that emerge from elements and interactions you were not aware of. The text concludes with a detailed case study, showing how a real cloud customer issue was analyzed from start to finish. Coverage includes

- Modern performance analysis and tuning: terminology, concepts, models, methods, and techniques
- Dynamic tracing techniques and tools, including examples of DTrace, SystemTap, and perf
- Kernel internals: uncovering what the OS is doing
- Using system observability tools, interfaces, and frameworks
- Understanding and monitoring application performance
- Optimizing CPUs: processors, cores, hardware threads, caches, interconnects, and kernel scheduling
- Memory optimization: virtual memory, paging, swapping, memory architectures, busses, address spaces, and allocators
- File system I/O, including caching
- Storage devices/controllers, disk I/O workloads, RAID, and kernel I/O
- Network-related performance issues: protocols, sockets, interfaces, and physical connections
- Performance implications of OS and hardware-based virtualization, and new issues encountered with cloud computing
- Benchmarking: getting accurate results and avoiding common mistakes

This guide is indispensable for anyone who operates enterprise or cloud environments: system, network, database, and web admins; developers; and other professionals. For students and others new to optimization, it also provides exercises reflecting Gregg's extensive instructional experience.

BSD UNIX Toolbox Independently Published

Secure Shell (SSH) lets systems administrators securely manage remote

systems. But most people only use the bare minimum SSH offers. Used properly, SSH simplifies your job. This book saves you from sifting a decade of obsolete online tutorials and quickly gets you running: SSH with the OpenSSH server and the PuTTY and OpenSSH clients. You will:

- Eliminate passwords.
- Manage access to your SSH server by users, groups, addresses, and more
- Securely move files around your network
- Forward graphic displays from one host to another
- Forward TCP connections
- Centrally manage host keys and client configurations
- Use SSH as a secure transport for other applications
- Secure applications run over SSH
- Build Virtual Private Networks with OpenSSH
- And more!

This book simplifies the work of anyone using SSH. Small enough to read and implement quickly, exhaustive enough to include everything most of us need plus a little more. Master SSH with SSH Mastery.

FreeBSD Mastery: Advanced ZFS No Starch Press

Filesystems for everything! FreeBSD includes many special-purpose filesystems. FreeBSD Mastery: Specialty Filesystems takes you through these filesystems, helping you solve problems you didn't know you have. These filesystems underlie everything from application servers to jails. You'll learn to manage:

- removable media
- MSDOS and Linux filesystems
- CD, DVD, and Blu-Ray disks
- devfs
- process filesystems
- the file descriptor filesystem
- the POSIX message queue filesystem
- union mounts
- null mounts
- both memory filesystems, and when to use each
- NFS versions 2, 3, and 4
- iSCSI targets and initiators
- the Common Internet File System
- networked disk redundancy with geom_gate and HAST
- high availability storage with HAST and iSCSI
- NFSv4

Access Control Lists -User Space Filesystems -FreeBSD's Solaris-compatible automounter System administrators of any expertise level will expand their FreeBSD mastery with *FreeBSD Mastery: Specialty Filesystems. Relayd & Httpd Mastery* Freeixian 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 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.

Introducing ZFS on Linux Tilted Windmill Press

Sudo: You're Doing It Wrong Unix-like operating systems use a rudimentary access control system: the root account can do anything, while other users are peasants with only minimal access. This worked fine in UNIX's youth, but now that sysadmin responsibilities are spread among many people and applications, many people need a tiny slice of root's power. Sudo lets you divide root's monolithic power between the people who need it with accountability and auditability. *Sudo Mastery* will teach you to:

- design a secure sudo policy
- simplify policies with lists and aliases
- manage shell environments
- verify system integrity via intrusion detection
- deploy a single sudo policy across your enterprise
- manage sudo policies via LDAP
- log and debug sudo
- record and replay full sudo sessions
- use authentication systems other than passwords

Master sudo with Sudo

Mastery!

SNMP Mastery John Wiley & Sons
Transport Layer Security, or TLS, makes e-commerce and online banking possible. It protects your passwords and your privacy. Let's Encrypt transformed TLS from an expensive tool to a free one. TLS understanding and debugging is an essential sysadmin skill you must have. TLS Mastery takes you through: · How TLS works · What TLS provides, and what it doesn't · Wrapping unencrypted connections inside TLS · Assessing TLS configurations · The Automated Certificate Management Environment (ACME) protocol · Using Let's Encrypt to automatically maintain TLS certificates · Online Certificate Status Protocol · Certificate Revocation · CAA, HSTS, and Certificate Transparency · Why you shouldn't run your own CA, and how to do it anyway · and more! Stop wandering blindly around TLS. Master the protocol with TLS Mastery!

Mastering VIM Quickly: From Wtf to Omg in No Time Walnut Creek CDRom
Online Backup you can Trust and Verify! Tarsnap, the secure online backup service for Unix-like systems, raised the bar for online backups. It's inexpensive. It's reliable. And you don't need to trust the Tarsnap service—they can't access your backups even if they wanted to. With Tarsnap Mastery you'll learn to: · install and manage Tarsnap on Linux, Unix, Windows, and OS X · fully exploit features like encryption and deduplication · create and recover archives · customize backups to precisely your requirements · passphrase protect keys · create and manage special-purpose keys · automatically back up and rotate archives · understand and resolve performance issues · quickly restore complete systems Ditch the tape room.

Put your backups online, and know that they're safe. Tarsnap Mastery. Because life doesn't back itself up.

Aspen Plus No Starch Press

Learn how to use BSD UNIX systems from the command line with BSD UNIX Toolbox: 1000+ Commands for FreeBSD, OpenBSD and NetBSD. Learn to use BSD operation systems the way the experts do, by trying more than 1,000 commands to find and obtain software, monitor system health and security, and access network resources. Apply your newly developed skills to use and administer servers and desktops running FreeBSD, OpenBSD, NetBSD, or any other BSD variety. Become more proficient at creating file systems, troubleshooting networks, and locking down security.

FreeBSD Mastery Pearson Education

21st-Century Data Storage ZFS, the fast, flexible, self-healing filesystem, revolutionized data storage. Leveraging ZFS changes everything about managing FreeBSD systems. With FreeBSD Mastery: ZFS, you'll learn to:-understand how your hardware affects ZFS-arrange your storage for optimal performance-configure datasets that match your enterprise's needs-repair and monitor storage pools-expand your storage-use compression to enhance performance-determine if deduplication is right for your data-understand how copy-on-write changes everything-snapshot filesystems-automatically rotate snapshots-clone filesystems-understand how ZFS uses and manages space-do custom FreeBSD ZFS installs Whether you're a long-term FreeBSD administrator or a new user, FreeBSD Mastery: ZFS will help you simplify storage. Master ZFS with FreeBSD Mastery: ZFS.

Absolute OpenBSD, 2nd Edition Tilted

Windmill Press

SNMP is one of those system management skills that people acquire by experience, stumbling through one horrid implementation after another. SNMP Mastery is your guide to the secret landscape of one of computing's most mysterious tools. Stop stumbling through the SNMP minefield. Read SNMP Mastery today!

Using Docker Tilted Windmill Press

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. - Publisher.

PAM Mastery "O'Reilly Media, Inc."

"The FreeBSD Handbook" is a comprehensive FreeBSD tutorial and reference. It covers installation, day-to-day use of FreeBSD, Ports collection, creating a custom kernel, security topics, the X Window System, how to use FreeBSD's Linux binary compatibility, and how to upgrade your system from source using the "make world" command.