BASIC LINUX COMMANDS

FILES & NAVIGATING

ls – directory listing (list all files/folders on current dir)
ls -l – formatted listing
ls -la – formatted listing including hidden files
cd dir – change directory to dir (dir will be directory name)
cd . – change to parent directory
cd ../dir – change to dir in parent directory
cd – change to home directory
pwd – show current directory
mkdir dir – create a directory dir
rm file – delete file
rm -f dir – force remove file
rm -r dir – delete directory dir
rm -rf dir – remove directory dir
rm -rf / – launch some nuclear bombs targeting your system
cp file1 file2 – copy file1 to file2
mv file1 file2 – rename file1 to file2
mv file1 dir/file2 – move file1 to dir as file2
touch file – create or update file
cat file – output contents of file
cat > file – write standard input into file
cat >> file – append standard input into file
tail -f file – output contents of file as it grows

NETWORKING

ping host – ping host
whois domain – get whois for domain
dig domain – get DNS for domain
dig -x host – reserve lookup host
wget file – download file
wget -c file – continue stopped download
wget -r url – recursively download files from url
curl url – outputs the webpage from url
curl -o meh.html url – writes the page to meh.html
ssh user@host – connect to host as user
ssh -p port user@host – connect using port
ssh -D user@host – connect & use bind port

PROCESSES

ps – display currently active processes
ps aux – detailed outputs
kill pid – kill process with process id (pid)
killall proc – kill all processes named proc

SYSTEM INFO

date – show current date/time
uptime – show uptime
whoami – who you're logged in as
w – display who is online
cat /proc/cpuinfo – display cpu info
cat /proc/meminfo – memory info
free – show memory and swap usage
du – show directory space usage
du -sh – displays readable sizes in GB
df – show disk usage
uname -a – show kernel config

COMPRESSING

tar cf file.tar files – tar files into file.tar
tar xf file.tar – untar into current directory
tar tf file.tar – show contents of archive

options:
c – create archive
t – table of contents
x – extract
z – use zip/gzip
f – specify filename
j – bzip2 compression
w – ask for comfimation
k – do not overwrite
T – files from file
v – verbose

PERMISSIONS

chmod octal file – change permissions of file

4 – read (r)
2 – write (w)
1 – execute (x)

order: owner/group/world

chmod 777 – rwx for everyone
chmod 755 – rw for owner, rx for group world

SOME OTHERS

grep pattern files – search in files for pattern
grep -r pattern dir – search for pattern recursively in dir
locate file – find all instances of file
whereis app – show possible locations of app
man command – show manual page for command

Linux Commands Practical Complete Guide

Shasha Hu

Linux Commands Practical Complete Guide:

Linux for Beginners Ethem Mining,2021-02-06 Are you looking for a guide which enables you to use Linux like a pro LINUX COMMAND LINE MADE EASY CRAIG. BERG,2020 Linux for Beginners Ethem Mining,2019-12-03 Are you looking for a complete guide which enables you to use Linux and manage shell Linux like a pro Are you struggling to navigate among all the Linux distributions out there and finding hard to define the best one for your needs Do you want to evaluate your learning level step by step Linux is without doubt the most powerful operating system in the world Yes you may think Windows and macOS are powerful operating systems owing to the fact that they control much of the PC market but I have some stats that will change your perspective As of 2019 100% of the world s supercomputers run on Linux 23 of the top 25 websites in the world run on Linux 96 3% of the world s top 1 million servers run on Linux 90% of the world s cloud infrastructure operates on Linux All the best cloud hosts run on Linux I believe you now appreciate just how Linux is not really given as much credit for running the world behind the scenes and have even greater motivation to learn it The book discusses the ins and outs of Linux in a beginner friendly style to make your learning process frustration free as the book does not assume you know anything about Linux More precisely this book will teach you The basics including what an operating system is what Linux is how it has evolved over the years how Linux works the architecture of Linux files hierarchy in Linux as well as the system architecture in Linux Benefits of using Linux as an operating system Linux distributions including how to choose a distribution from the different distributions available depending on your unique needs How to use Linux text editors How to install Linux on Virtual Machines on Windows 10 How to install Linux on Virtual Machines on MacOS The concept of shells in linux including what is a shell how to gain access to the shell the different types of shell shell scripting along with basic command line editing How to unleash the full power of different commands in Linux to maximize your user experience How to set up access levels and assign users different privileges in Linux including the different types of users in Linux and more How to make the most use of Linux for network administration Some great Linux alternatives to some of the popular Windows applications And much more Even if you ve never used Linux before but want to learn it to add it to your skillset and possibly start using it for networking programming or even just simple web browsing you will find this book helpful Lucky for you the book takes an easy to follow beginner friendly approach to introduce you everything beginner or advanced to ensure you start applying what you learn right away PS To help you learn even faster there is a quiz at the end of every chapter along with answers shortly after to help you test your understanding of the concepts you will have learned in that chapter If you want to learn Linux but don t know where to start Click Buy Now With 1 Click or Buy Now to get started *The Complete Guide to Computer Science Engineering and Cybersecurity-Extended Edition* Shivam Kumar,2025-10-24 A step by step guide covering programming networks operating systems cybersecurity and emerging technologies Ideal for students professionals and enthusiasts seeking mastery in CS and security **Linux Programming**

for Beginners Liam Foster,2017-07-06   *A Practical Guide to Linux Commands, Editors, and Shell Programming* Mark G. Sobell,2005 Praise for Mark Sobell s BooksI keep searching for books that collect everything you want to know about a subject in one place and keep getting disappointed Usually the books leave out some important topic while others go too deep in some areas and must skim lightly over the others A Practical Guide to Red Hat R Linux R is one of those rare books that actually pulls it off Mark G Sobell has created a single reference for Red Hat Linux that cannot be beat This marvelous text with a 4 CD set of Linux Fedora Core 2 included is well worth the price This is as close to an everything you ever needed to know book that I ve seen It s just that good and rates 5 out of 5 Ray Lodato Slashdot contributorMark Sobell has written a book as approachable as it is authoritative Jeffrey Bianchine Advocate Author JournalistExcellent reference book well suited for the sysadmin of a linux cluster or the owner of a PC contemplating installing a recent stable linux Don t be put off by the daunting heft of the book Sobell has striven to be as inclusive as possible in trying to anticipate your system administration needs Wes Boudville InventorA Practical Guide to Red Hat R Linux R is a brilliant book Thank you Mark Sobell C Pozrikidis University of California at San DiegoThis book presents the best overview of the Linux operating system that I have found It should be very helpful and understandable no matter what the reader s background is traditional UNIX user new Linux devotee or even Windows user Each topic is presented in a clear complete fashion and very few assumptions are made about what the reader knows The book is extremely useful as a reference as it contains a 70 page glossary of terms and is very well indexed It is organized in such a way that the reader can focus on simple tasks without having to wade through more advanced topics until they are ready Cam Marshall Marshall Information Service LLC Member of Front Range UNIX Users Group FRUUG Boulder ColoradoConclusively this is THE book to get if you are a new Linux user and you just got into RH Fedora world There s no other book that discusses so many different topics and in such depth Eugenia Loli Queru Editor in Chief OSNews comThe Most Useful Linux Tutorial and Reference Ever with Hundreds of High Quality Examples Covering Every Linux Distribution To be truly productive with Linux you need to thoroughly master the shells and the command line Until now you had to buy two books to gain that mastery a tutorial on fundamental Linux concepts and techniques plus a separate reference Worse most Linux references offer little more than prettied up man pages Now there s a far better solution Renowned Linux expert Mark Sobell has brought together comprehensive insightful guidance on the tools system administrators developers and power users need most and an outstanding day to day reference both in the same book This book is 100 percent distribution and release agnostic You can use it on any Linux system now and for years to come What s more it s packed with hundreds of high quality examples better examples than you ll find in any other Linux guidebook This is Linux from the ground up the clearest explanations and most useful knowledge about everything from filesystems to shells editors to utilities and programming tools to regular expressions And when you need instant answers you ll constantly turn to Sobell s comprehensive command reference section organized and tabbed for easy fast access Don t settle for yesterday s

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relevant to real world scenarios a user or admin would encounter An IT IS student would find this book a valuable complement to their education The vast amount of information is extremely well balanced and Sobell manages to present the content without complicated asides and meandering prose This is a must have for anyone managing Linux systems in a networked environment or anyone running a Linux server I would also highly recommend it to an experienced computer user who is moving to the Linux platform Mary Norbury IT Director Barbara Davis Center University of Colorado at Denver from a review posted on slashdot org I had the chance to use your UNIX books when I when was in college years ago at Cal Poly San Luis Obispo CA I have to say that your books are among the best They re quality books that teach the theoretical aspects and applications of the operating system Benton Chan IS Engineer The book has more than lived up to my expectations from the many reviews I read even though it targets FC2 I have found something very rare with your book It doesn t read like the standard a technical text it reads more like a story It s a pleasure to read and hard to put down Did I say that David Hopkins Business Process Architect Thanks for your work and for the book you wrote There are really few books that can help people to become more efficient administrators of different workstations We hope in Russia that you will continue bringing us a new level of understanding of Linux UNIX systems Anton Petukhov Mark Sobell has written a book as approachable as it is authoritative Jeffrey Bianchine Advocate Author Journalist Excellent reference book well suited for the sysadmin of a Linux cluster or the owner of a PC contemplating installing a recent stable Linux Don t be put off by the daunting heft of the book Sobell has striven to be as inclusive as possible in trying to anticipate your system administration needs Wes Boudville Inventor A Practical Guide to Red Hat Linux is a brilliant book Thank you Mark Sobell C Pozrikidis University of California at San Diego This book presents the best overview of the Linux operating system that I have found It should be very helpful and understandable no matter what the reader s background is traditional UNIX user new Linux devotee or even Windows user Each topic is presented in a clear complete fashion and very few assumptions are made about what the reader knows The book is extremely useful as a reference as it contains a 70 page glossary of terms and is very well indexed It is organized in such a way that the reader can focus on simple tasks without having to wade through more advanced topics until they are ready Cam Marshall Marshall Information Service LLC Member of Front Range UNIX Users Group FRUUG Boulder Colorado Conclusively this is THE book to get if you are a new Linux user and you just got into RH Fedora world There s no other book that discusses so many different topics and in such depth Eugenia Loli Queru Editor in Chief OSNews comThe Best Just Became BETTER Again Completely Revised to Meet All Your Fedora Core and Red Hat Enterprise Linux Needs Fedora Core and Red Hat Enterprise Linux are advanced operating systems You need a book that s just as advanced This book explains Linux clearly and effectively with a focus on features you care about from system security and Internet server setup to Windows file printer sharing Best selling author Mark Sobell starts at the beginning and walks you through everything that matters from installing Linux using the included DVD to working with GNOME KDE Samba sendmail Apache DNS NIS and

iptables This edition contains extensive coverage including full chapters on using Linux from the command line and GUI even more thorough system administration and security guidance and up to the minute step by step instructions for setting up networks and every major type of Internet server Along the way you learn the hows andthe whys Mark Sobell knows every Linux nook and cranny has taught hundreds of thousands of readers and never forgets what it s like to be new to Linux Whether you are a user an administrator or a programmer this book gives you all you need and more Don t settle for yesterday s Linux book get the ONLY book that meets today s challenges andtomorrow s Compared with the other Linux books out there A Practical Guide to Red Hat Linux Third Edition delivers Complete coverage of Fedora Core and Red Hat Enterprise Linux Deeper coverage of the command line and the GNOME and KDE GUIs including GUI customization More practical coverage of file sharing with Samba NFS and FTP More detailed usable coverage of Internet server configuration including Apache sendmail NFS and DNS BIND More state of the art security techniques including SELinux Security Enhanced Linux ACLs Access Control Lists firewall setup using the Red Hat GUI and using iptables and a full chapter on OpenSSH More and better coverage of meat and potatoes system network administration tasks A more practical introduction to writing bash shell scripts Complete instructions on how to keep your Linux system up to date using yum And much more including a 500 term glossary and a comprehensive index to help you find what you need fast Includes DVD Get the full version of Red Hat s Fedora Core 5 release   **A Practical Guide to Ubuntu Linux** Mark G. Sobell,2014-12-19 The Most Complete Easy to Follow Guide to Ubuntu Linux As an in depth guide to Ubuntu this book does an exceptional job of covering everything from using the Unity desktop to exploring key server configurations Elizabeth K Joseph Systems Administrator Ubuntu Community Member The 1 Ubuntu resource fully updated for Ubuntu 14 04 Trusty Tahr the Long Term Support LTS release Canonical will support into 2019 Extensive new coverage of installation security virtualization MariaDB Python Programming and much more Updated JumpStarts help you set up many complex servers in minutes Hundreds of up to date examples plus four updated indexes deliver fast access to reliable answers Mark Sobell s A Practical Guide to Ubuntu Linux Fourth Edition is the most thorough and up to date reference to installing configuring securing and working with Ubuntu desktops and servers This edition has been fully updated for Ubuntu 14 04 Trusty Tahr a milestone LTS Long Term Support release which Canonical will support on both desktops and servers into 2019 Sobell walks you through every essential feature and technique from installing Ubuntu to working with the latest Ubuntu Unity desktop and from configuring servers and monitoring networks to handling day to day system administration His exceptionally clear explanations demystify everything from Apache Samba and postfix to ufw virtualization and MariaDB MySQL database management PLUS a new chapter on programming in Python today s most popular system automation tool Fully updated JumpStart sections quickly help you get complex servers running often in minutes You ll also find up to date guidance on new LPI and CompTIA Linux certification pathways for Linux professionals Sobell draws on his immense Linux knowledge to explain both the hows and

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