

## A Practical Guide to Linux(R) Commands, Editors, and Shell Programming

Mark G. Sobell



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A Practical Guide to Linux(R) Commands, Editors, and Shell Programming Mark G. Sobell For use with all versions of Linux, including Ubuntu,<sup>TM</sup> Fedora,<sup>TM</sup> openSUSE,<sup>TM</sup> Red Hat,<sup>®</sup> Debian, Mandriva, Mint, and now OS X, too!

- Get more done faster, and become a true Linux guru by mastering the command line!
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To be truly productive with Linux, you need to thoroughly master 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. 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 with any Linux system, now and for years to come. Use Macs, too? This new edition adds comprehensive coverage of the Mac OS X command line, including essential OS X-only tools and utilities other Linux/UNIX books ignore.

Packed with hundreds of high-quality, realistic examples, this book gives you 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. Sobell has also added an outstanding new primer on Perl, the most important programming tool for Linux admins seeking to automate complex, time-consuming tasks.

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- Better, more realistic examples covering tasks you'll actually need to perform
- Deeper insight, based on Sobell's immense knowledge of every Linux and OS X nook and cranny
- A start-to-finish primer on Perl for every system administrator
- In-depth coverage of basic and advanced Linux shell programming with bash and tcsh
- Practical explanations of 100 core utilities, from **aspell** to **xargs**–including Mac OS X specific utilities from **ditto** to **SetFile**
- All-new coverage of automating remote backups with **rsync**
- Dozens of system security tips, including step-by-step walkthroughs of implementing secure communications using **ssh** and **scp**
- Tips and tricks for customizing the shell and using it interactively from the command line
- Complete guides to high-productivity editing with both vim and emacs
- A comprehensive, 286-page command reference section-now with revised and expanded indexes for faster access to the information you need

- Instructions for updating systems automatically with **apt-get** and **yum**
- Dozens of exercises to help you practice and gain confidence
- And much more, including coverage of BitTorrent, gawk, sed, find, sort, bzip2, and regular expressions

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