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This book is an exploration of Shell programming, also referred to as Bash Scripting. It begins by guiding you on how to automate the various tasks in UNIX by using the

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Shell scripts. The book also guides you on the effective steps on how to write the Shell scripts. In UNIX, we should come up with an effective mechanism for management of file systems and software packages. This book guides

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you on the effective way to do this in Shell. You are also guided on how to use the various UNIX editors such as the Vim editor, nano, and GNOME. You will learn how to use the various shortcuts provided by these text editors, as well as

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how to navigate within your file opened in the text editor. Structured commands, which are very common in Shell, are discussed in detail. You will learn how to use such statements for decision-making as well as for looping through your

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program. You are also guided on how to manipulate your text, as well as how to use regular expressions. In some programs, it is good for you to implement a mechanism for accepting user input and then making a decision based on

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that input. This book clearly guides you on how to do this in Bash scripting.

Command line arguments have also been explored in detail. The following topics are discussed in this book: - Automate Tasks with Simple Script Utilities -

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Creating Shell
Scripts - Manage
Filesystems and
Software Packages
- Work with nano,
KDE, and GNOME
editors - Structured
Commands, Text
Manipulation, and
Regular
Expressions -
Keyboard Input -
Command Line

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Arguments

To thoroughly understand what makes Linux tick and why it's so efficient, you need to delve deep into the heart of the operating system--into the Linux kernel itself. The kernel is Linux--in the case of

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the Linux operating system, it's the only bit of software to which the term "Linux" applies. The kernel handles all the requests or completed I/O operations and determines which programs will share its processing time, and in what order.

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Responsible for the sophisticated memory management of the whole system, the Linux kernel is the force behind the legendary Linux efficiency. The new edition of Understanding the Linux Kernel takes you on a guided tour

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through the most significant data structures, many algorithms, and programming tricks used in the kernel. Probing beyond the superficial features, the authors offer valuable insights to people who want to know how things really work inside

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their machine. Relevant segments of code are dissected and discussed line by line. The book covers more than just the functioning of the code, it explains the theoretical underpinnings for why Linux does

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things the way it does. The new edition of the book has been updated to cover version 2.4 of the kernel, which is quite different from version 2.2: the virtual memory system is entirely new, support for multiprocessor systems is

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improved, and whole new classes of hardware devices have been added.

The authors explore each new feature in detail. Other topics in the book include:

Memory management including file buffering, process swapping, and

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Direct memory
Access (DMA) The
Virtual Filesystem
and the Second
Extended
Filesystem Process
creation and
scheduling Signals,
interrupts, and the
essential interfaces
to device drivers
Timing
Synchronization in

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the kernel
Interprocess
Communication
(IPC) Program
execution
Understanding the
Linux Kernel,
Second Edition will
acquaint you with all
the inner workings
of Linux, but is more
than just an
academic exercise.

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You'll learn what conditions bring out Linux's best performance, and you'll see how it meets the challenge of providing good system response during process scheduling, file access, and memory management in a

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wide variety of environments. If knowledge is power, then this book will help you make the most of your Linux system.

If you want to learn how to use Linux, but don't know where to start read on. Knowing where to start when

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learning a new skill can be a challenge, especially when the topic seems so vast. There can be so much information available that you can't even decide where to start. Or worse, you start down the path of learning and quickly discover too many

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concepts, commands, and nuances that aren't explained. This kind of experience is frustrating and leaves you with more questions than answers. Linux for Beginners doesn't make any assumptions about your background or

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knowledge of Linux. You need no prior knowledge to benefit from this book. You will be guided step by step using a logical and systematic approach. As new concepts, commands, or jargon are encountered they

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are explained in plain language, making it easy for anyone to understand. Here is what you will learn by reading Linux for Beginners: How to get access to a Linux server if you don't already. What a Linux distribution is and which one to

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choose. What software is needed to connect to Linux from Mac and Windows computers. Screenshots included. What SSH is and how to use it, including creating and using SSH keys. The file system layout of

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Linux systems and where to find programs, configurations, and documentation. The basic Linux commands you'll use most often. Creating, renaming, moving, and deleting directories. Listing, reading, creating, editing,

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copying, and deleting files. Exactly how permissions work and how to decipher the most cryptic Linux permissions with ease. How to use the nano, vi, and emacs editors. Two methods to search for files and directories. How to

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compare the contents of files. What pipes are, why they are useful, and how to use them. How to compress files to save space and make transferring data easy. How and why to redirect input and output from applications. How to

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customize your shell prompt. How to be efficient at the command line by using aliases, tab completion, and your shell history. How to schedule and automate jobs using cron. How to switch users and run processes as others. Where to go

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for even more in-depth coverage on each topic. What you learn in "Linux for Beginners" applies to any Linux environment including Ubuntu, Debian, Linux Mint, RedHat, Fedora, OpenSUSE, Slackware, and more. Scroll up,

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paid much attention
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is one of those

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cases. The UNIX System Administration Handbook is one of the few books we ever measured ourselves against.”
—Tim O’Reilly, founder of O’Reilly Media “This edition is for those whose systems live in the cloud or in

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virtualized data centers; those whose administrative work largely takes the form of automation and configuration source code; those who collaborate closely with developers, network engineers, compliance officers,

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and all the other worker bees who inhabit the modern hive.” —Paul Vixie, Internet Hall of Fame-recognized innovator and founder of ISC and Farsight Security

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**capabilities,
intuitive
object
orientation,
and natural
expression of
procedural
code. Plus,
Python
features full
modularity,
supporting**

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hierarchical packages, exception-based error handling, and modules easily written in C, C++, Java, R, or .NET languages, such as C#. In addition,

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**and
flexibility,
Python is
constantly
growing in
popularity—and
now you can
wear your
programming
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and join the
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pros with the help of this guide. Inside, expert author John Paul Mueller gives a complete step-by-step overview of all there is to know about Python. From

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to the Korn shell, both as a user interface and as a programming language. The Korn shell, like the C and Bourne shells, is a program that

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**interprets
UNIX commands.
It has many
features that
aren't found
in other
shells,
including
command
history (the
ability to
recall and**

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edit previous commands). The Korn shell is also faster; several of its features allow you to write programs that execute more quickly than their Bourne or C shell equ

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ivalents. This book provides a clear and concise explanation of the Korn shell's features. It explains ksh string operations, co-
processes,

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**signals and
signal
handling, and
one of the
worst "dark
corners" of
shell
programming:
command-line i
nterpretation.
It does this
by introducing**

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**simple real-
life examples
and then
adding options
and complexity
in later
chapters,
illustrating
the way real-
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development
generally**

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proceeds. An additional (and unique) programming aid, a Korn shell debugger (kshdb), is also included. Learning the Korn Shell is an ideal resource for

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developers who
want to
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technologies, programming languages, and mathematical methods on which to focus. While this book serves as a wildly fantastic guide through the broad, sometimes intimidating field of big data and data science, it is not an instruction manual

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underlying power of Unix and Unix-like operating systems. After a quick review of Unix utilities, the book ' s authors take you step-by-step through the process of building shell scripts, debugging them, and understanding how they work within the shell ' s environment.

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expressions with Unix
commands Take
advantage of the
special features of the
Korn and Bash shells
Identify the major
differences between
versions of the shell
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the way your Unix
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you Set up your shell
environment Make
use of functions

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Debug scripts

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programming

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tweak, and make use
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Managing Disk Usage

HOUR 5: Ownership
and Permissions

HOUR 6: Creating,
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HOUR 9: Slicing and
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Tools, and
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of UNIX commands,
and includes
information on using
the shell, text editors,

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Learning the bash

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the UNIX term for a user interface to the system. In other words, it's what lets you communicate with the computer via the keyboard and display. Mastering the bash shell might sound fairly simple but it isn't. In truth, there are many complexities that need careful

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explanation, which is just what Learning the bash Shell provides. If you are new to shell programming, the book provides an excellent introduction, covering everything from the most basic to the most advanced features. And if you've been writing shell scripts for years, it offers a great way to

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