

Learning Linux Shell Scripting

By Ganesh Sanjiv Naik

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Unleash the power of shell scripts to solve real-world problems by breaking through the practice of writing tedious code

About This Book

- Learn how to efficiently and effectively build shell scripts and develop advanced applications with this handy book
- Develop high quality and efficient solutions by writing professional and real-world scripts, and debug scripts by checking and shell tracing
- A step-by-step tutorial to automate routine tasks by developing scripts from a basic level to very advanced functionality

Who This Book Is For

This book is ideal for those who are proficient at working with Linux and who want to learn about shell scripting to improve their efficiency and practical skills. By the end of this book, you will be able to confidently use your own Shell scripts in the real world.

What You Will Learn

- Familiarize yourself with the various text filtering tools available in Linux
- Combine the fundamental text and file processing commands to process data and automate repetitive tasks
- Understand expressions and variables and how to use them practically
- Automate decision-making and save a lot of time and effort spent revisiting code
- Get to grips with advanced functionality, such as using traps and signals, and using dialogs to develop screens
- Start up a system and customize a Linux system
- Take an in-depth look at regular expressions and pattern matching to understand the capabilities of scripting

In Detail

Shell scripting is used to automate day-to-day administration and for testing or product development tasks.

This book covers Bash (GNU Bourne-again shell) preparing you for the exciting world of Linux Shell scripting.

Firstly, we introduce you to the shell environment and explain its basic commands. Next we move on to checking, killing, and controlling the execution of processes in Linux OS. After this, we teach you about the filter tools available in Linux and explain standard output and standard error devices.

Next, you'll get to grips with some real-world essentials, such as debugging and performing shell arithmetic fluently. Then you'll take the next step and learn advanced topics in Shell scripting, such as starting up a system and customizing a Linux system.

Finally, you'll get to know the capabilities of scripting and learn about Grep, stream editor, and Awk.

Style and approach

This practical book will go from the very basics of shell scripting to complex, customized automation. The idea behind this book is to be as practical as possible and give you the look and feel of what real-world scripting is like.

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Editorial Review

About the Author

Ganesh Sanjiv Naik

Ganesh Sanjiv Naik is an author, consultant, and corporate trainer for embedded Android, embedded Linux, and Internet of Things related product development. He completed his computer engineering in 1988. Since then, he has worked in this industry. He has worked on projects including micro-controller based projects to advanced Embedded Android projects. He has more than 20 years of professional experience and project accomplishment in information technology. Ganesh has a passion and deep desire for teaching. He has trained 1,000 engineers in Linux and Android product development. He has developed a lot of training material as well as curriculum for various universities and training institutes. He has an interest in spiritual study and practices such as meditation. He is a certified yoga teacher. His hobbies include yoga and martial arts. He has worked as a corporate trainer for Indian Space Research Organization, Intel, GE, Samsung, Motorola, Penang Skill Development Center (Malaysia), various companies in Singapore as well as various other corporates in India and other countries. He has started a company called Levana Technologies, which works with the Penang Skill Development Center (Malaysia) for consulting and training activities. If you would like to send feedback, suggestions, or corrections in the book, he can be contacted at https://in.linkedin.com/in/naikganesh. This book is his real-life experience.... He has worked as a consultant and corporate trainer in the following skills: • Internet of Things • Embedded Android, Android internals, and device driver development • USB and PCI device driver development in Linux • Embedded Linux and device driver development • Unix Shell scripting with sed and awk • Embedded C++ and C programming • Operating systems, software engineering, and networking • Problem solving?analysis, reasoning, and solution techniques for software engineers

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