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Autore	Membrey Peter
Titolo	Learn Raspberry Pi 2 with Linux and Windows 10 / / by Peter Membrey, David Hows
Pubbl/distr/stampa	Berkeley, CA : , : Apress : , : Imprint : Apress, , 2015
ISBN	9781484211625 1484211626
Edizione	[2nd ed. 2015.]
Descrizione fisica	1 online resource (319 p.)
Collana	Technology in action
Disciplina	004
Soggetti	Computer input-output equipment Software engineering Hardware and Maker Software Engineering/Programming and Operating Systems
Lingua di pubblicazione	Inglese
Formato	Materiale a stampa
Livello bibliografico	Monografia
Note generali	Includes index.
Nota di contenuto	Contents at a Glance; Contents; About the Authors; About the Technical Reviewer; Acknowledgments; Introduction; Chapter 1: Your First Bite of Raspberry Pi; Your Freshly Baked Pi Arrives; List of Ingredients; Micro USB lead ; USB Power Adapter ; HDMI Lead ; HDMI Capable Display ; Micro SD Card ; Micro SD Card Reader ; USB Keyboard and Mouse; Whew, We're Done!; Don't Panic!; Linux; What Is Linux?; Introducing NOOBS; The two NOOBS; Downloading NOOBS; Getting NOOBS onto Your SD Card ; First Boot; Installing Raspbian with NOOBS; Configuring Your Pi ; Expanding the Filesystem Pi Store Raspberry Pi Resources; Web Browser; Programming; Scratch; Python; Preferences; Help; Summary; Chapter 3: Getting Comfortable; Ye Olde Computer ; Say Hello to the Dumb Terminal; Modern Terminals; So Why do We Still Care About these Things?; Simple; Fast; Lightweight; Powerful; It's Always Available; Convinced Yet?; The Three Terminals; The Console; Opening a Virtual Terminal in the GUI; Connecting via SSH; Setting up an SSH Server on the Pi; Sorting out an SSH Client; Putty for Windows; SSH on the Mac; Welcome to the Command Line; Different Shells; Summary Chapter 4: The File-paths to Success What is a Filing System?; More

than one Filesystem; Separate Roots; Unified Filesystem; The Mac has to be Different; Bring it all Together; Everything as a File; Filesystem Layout; / (Root Directory); /root; /etc; /proc; /var; /boot; /bin and /sbin; /dev; /home; /lib; /lost+found; /media; /mnt; /usr; /opt; /srv; /sys; /tmp; Putting it to Work; Where are we? Using pwd; What's in here with us? Using ls; Creating Files to Play with, Using Touch; Somewhere to Store our Files, Using Mkdir Making Use of Our New Directory, Using the mv Command Time for Some Cloning, How to use the cp Command; The Power to Destroy, Using the rm Command; Fully Qualified and Relative Paths; Users and Groups; File Permissions; Setting File Permissions; Shortcuts and Links; Summary; Chapter 5: Essential Commands ; Become the Boss; RTFM; System Resource Monitoring; Uptime and Load Average; Tasks; CPU Utilization Percentage; Memory Usage; Process Table ; Using free to View Memory Allocation ; Disk Usage ; Managing Processes; Killing a Process; Reading Information in / proc File Commands

Sommario/riassunto

Learn Raspberry Pi 2 with Linux and Windows 10 will tell you everything you need to know about working with Raspberry Pi 2 so you can get started doing amazing things. You'll learn how to set up your new Raspberry Pi 2 with a monitor, keyboard and mouse, and how to install both Linux and Windows on your new Pi 2. Linux has always been a great fit for the Pi, but it can be a steep learning curve if you've never used it before. With this book, you'll see how easy it is to install Linux and learn how to work with it, including how to become a Linux command line pro. You'll learn that what might seem unfamiliar in Linux is actually very familiar. And now that Raspberry Pi also supports Windows 10, a chapter is devoted to setting up Windows 10 for the Internet of Things on a Raspberry Pi. Finally, you'll learn how to create these Raspberry Pi projects with Linux: Making a Pi web server: run LAMP on your own network Making your Pi wireless: remove all the cables and retain all the functionality Making a Raspberry Pi-based security cam and messenger service Making a Pi media center: stream videos and music from your Pi.
