

## Open Source Development With Lamp Using Linux Apache Mysql Perl And Php

Open Source Web Development with LAMP Moodle 3 Administration The Chemistry of Artificial Lighting Devices Open Source Systems Beginning Perl Materials and Sustainable Development Open Source Development With Lamp: Using Linux, Apache, Mysql, Perl, And Php Setting up LAMP MySQL Database Usage & Administration Current Topics in Giardiasis Building on SugarCRM The Upswing OpenSUSE Linux Open Sources Migrating to MariaDB Open Source Software: Implementation and Management Moodle Administration Open Source Software: Implementation and Management Producing Open Source Software Professional LAMP Building and Testing with Gradle Perspectives on Data Science for Software Engineering Getting Started with Arduino Advanced Linux Networking Linux Administration Handbook Learning PHP, MySQL, JavaScript, and CSS Photomedicine Web Programming Free and Open Source Software and Technology for Sustainable Development Elgg Social Networking Magento PHP Developer's Guide Magento PHP Developer's Guide High Availability for the LAMP Stack Beginning Perl Setting up LAMP Free Software, Free Society How to Build a Lamp Server Open Source Software in Life Science Research Open-Source Electronics Platforms PHP and MySQL Web Development

### Open Source Web Development with LAMP

“As this book shows, Linux systems are just as functional, secure, and reliable as their proprietary counterparts. Thanks to the ongoing efforts of thousands of Linux developers, Linux is more ready than ever for deployment at the frontlines of the real world. The authors of this book know that terrain well, and I am happy to leave you in their most capable hands.” –Linus Torvalds “The most successful sysadmin book of all time—because it works!” –Rik Farrow, editor of ;login: “This book clearly explains current technology with the perspective of decades of experience in large-scale system administration. Unique and highly recommended.” –Jonathan Corbet, cofounder, LWN.net “Nemeth et al. is the overall winner for Linux administration: it’s intelligent, full of insights, and looks at the implementation of concepts.” –Peter Salus, editorial director, Matrix.net Since 2001, Linux Administration Handbook has been the definitive resource for every Linux® system administrator who must efficiently solve technical problems and maximize the reliability and performance of a production environment. Now, the authors have systematically updated this classic guide to address today’s most important Linux distributions and most powerful new administrative tools. The authors spell out detailed best practices for every facet of system administration, including storage management, network design and administration, web hosting, software configuration management, performance analysis, Windows interoperability, and much more. Sysadmins will especially appreciate the thorough and up-to-date discussions of such difficult topics such as DNS, LDAP, security, and the management of IT service organizations. Linux® Administration Handbook, Second Edition, reflects the current versions of these leading distributions: Red Hat® Enterprise Linux® Fedora™ Core SUSE® Linux Enterprise Debian® GNU/Linux Ubuntu® Linux Sharing their war stories and hard-won insights, the authors capture the behavior of Linux systems in the real world, not just in ideal environments. They explain

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complex tasks in detail and illustrate these tasks with examples drawn from their extensive hands-on experience.

### **Moodle 3 Administration**

A global collection of experts in social, natural, and human sciences, with contributions from researchers and practitioners in both developing and developed countries, cover the theoretical and practical implications of FOSS technologies. While FOSS development, education, and business potentials may appear as a phenomenon for the developed world, a sizable number of developing countries have implemented FOSS policies of their own. Empirical and anecdotal evidence continues to demonstrate the potential of FOSS technologies for giving people the opportunity to participate actively in the development and shaping of their own technology, stimulating the growth of indigenous software industries, creating local jobs, and lowering technology acquisition and deployment costs.

### **The Chemistry of Artificial Lighting Devices**

Comprehensive, authoritative guide to installing, configuring, and administering openSUSE, the community version of Novell's Linux Distro.

### **Open Source Systems**

Take your MySQL skills to the top tier Maximize every powerful feature available in MySQL 5.1 with hands-on instruction from a MySQL expert. This definitive guide shows you how to use MySQL's advanced suite of data management tools, optimize performance and reliability, and secure and administer a robust RDBMS. MySQL Database Usage & Administration includes detailed code examples in each chapter to highlight real-world applications of the material covered. If you want to get the most out of MySQL, you need this practical handbook. Understand MySQL's features, technical architecture, subsystems, and commands Make database design decisions that optimize performance, storage, and reliability Write complex queries using joins, subqueries, and views Group SQL statements into transactions and execute them atomically Build and use sophisticated stored procedures and functions Automate database operations with triggers and scheduled events Import and export data in different formats, including SQL, CSV, and XML Optimize server and query performance Administer a secure, high availability MySQL RDBMS Manage users and control access Perform database maintenance, replication, backup, and recovery Vikram Vaswani is the founder and CEO of Melonfire ([www.melonfire.com](http://www.melonfire.com)), a consultancy firm with special expertise in open-source tools and technologies. His previous books include MySQL: The Complete Reference, PHP: A Beginner's Guide, and PHP Programming Solutions.

### **Beginning Perl**

In 2004/5, over half of IT professionals will be looking at open source, most for the first time. This book provides key tools for System administrators, Network Administrators, IT project managers, and consultants who must evaluate and deploy open source software. This book details open source successes so far,

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explains which scenarios are the most realistic opportunities now, then gives the details needed to select these solutions, adopt the best tools and practices, introduce them to an organization, implement and manage them. The IT professional can use this book to review opportunities in their organization, evaluate components such as Apache, Linux, and OpenOffice against systems they know, and follow up in detail on their specific interests here and through referred resources. \*Deployment scenarios categorized by function and industry \*Rules of thumb on where and when open source software is or is not the right choice \*Roadmaps for deployment in terms of the components of open source

### **Materials and Sustainable Development**

In 2004/5, over half of IT professionals will be looking at open source, most for the first time. This book provides key tools for System administrators, Network Administrators, IT project managers, and consultants who must evaluate and deploy open source software. This book details open source successes so far, explains which scenarios are the most realistic opportunities now, then gives the details needed to select these solutions, adopt the best tools and practices, introduce them to an organization, implement and manage them. The IT professional can use this book to review opportunities in their organization, evaluate components such as Apache, Linux, and OpenOffice against systems they know, and follow up in detail on their specific interests here and through referred resources. \*Deployment scenarios categorized by function and industry \*Rules of thumb on where and when open source software is or is not the right choice \*Roadmaps for deployment in terms of the components of open source

### **Open Source Development With Lamp: Using Linux, Apache, Mysql, Perl, And Php**

The combination of Linux, Apache, MySQL, and PHP is popular because of interaction, flexibility, customization, and-most importantly-the cost effectiveness of its components Helps LAMP professionals take their skills to the next level with in-depth discussions of OOP; extensions of PHP such as PEAR, GD, XML, and CURL; improving site security; and advanced tools available to the coder Those proficient in other languages such as Java, C++, Perl and ASP will find this guide invaluable when transitioning to the LAMP environment The Web site includes sample scripts created in the course of each chapter, and several applications that can be modified and reused

### **Setting up LAMP**

"This step-by-step guide teaches you everything you need to know in order to eliminate single points of failure for your Linux, Apache, MySQL, and PHP based web applications. This is a full blown course that demonstrates everything step-by-step. This is not just a design, though. It's an entire course complete with lessons and demonstrations on actual Linux servers. I'll be performing the demonstrations on Ubuntu servers, but the concepts are the same no matter if you're using RedHat Enterprise Linux, CentOS, or another distribution. The only real difference is the couple of commands you'll use to perform some of the software installations. The

design and configurations remain the same. Even though this course is targeted directly at the LAMP stack (Linux, Apache, MySQL, PHP), the concepts and techniques presented can be reused in a variety of other situations. If you ever need a floating IP, the ability to add more storage to servers without downtime, to balance loads across multiple servers, or deploy a highly available database cluster, you can put what you learn in this course to good use."--Resource description page.

### **MySQL Database Usage & Administration**

This book collects the proceedings of the Second International Conference on Open Software - OSS 2006, held in Como, Italy in June, 2006, where researchers from all over the world discussed how OSS is produced, its huge potential for innovative applications and in groundbreaking OSS business models. The book takes an important step toward appreciation of the OSS phenomenon, presenting 20 refereed full papers and 12 more in shorter form.

### **Current Topics inGiardiasis**

An eminent political scientist's brilliant analysis of economic, social, and political trends over the past century demonstrating how we have gone from an individualistic "I" society to a more communitarian "We" society and then back again, and how we can learn from that experience to become a stronger, more unified nation—from the author of *Bowling Alone* and *Our Kids*. Deep and accelerating inequality; unprecedented political polarization; vitriolic public discourse; a fraying social fabric; public and private narcissism—Americans today seem to agree on only one thing: This is the worst of times. But we've been here before. During the Gilded Age of the late 1800s, America was highly individualistic, starkly unequal, fiercely polarized, and deeply fragmented, just as it is today. However as the twentieth century opened, America became—slowly, unevenly, but steadily—more egalitarian, more cooperative, more generous; a society on the upswing, more focused on our responsibilities to one another and less focused on our narrower self-interest. Sometime during the 1960s, however, these trends reversed, leaving us in today's disarray. In a sweeping overview of more than a century of history, drawing on his inimitable combination of statistical analysis and storytelling, Robert Putnam analyzes a remarkable confluence of trends that brought us from an "I" society to a "We" society and then back again. He draws inspiring lessons for our time from an earlier era, when a dedicated group of reformers righted the ship, putting us on a path to becoming a society once again based on community. Engaging, revelatory, and timely, this is Putnam's most ambitious work yet, a fitting capstone to a brilliant career.

### **Building on SugarCRM**

Both the early use of artificial lighting and current manufacturing methods concerning incandescent and fluorescent lamps are covered in this book. The protocols for manufacture of fluorescent lamp phosphors and those used in cathode ray tubes are also treated in some detail. This text surveys the amazing, vast array of artificial lighting devices known to date in terms of how they arose

and are, or have been used by mankind. A complete description of the formulations and methodology for manufacturing all known phosphors is given. The book will serve as a repository of such phosphor manufacturing methods, including that of cathode ray tube phosphors. Methods of manufacture of lamp parts are also presented, including that of tungsten wire. The original approaches used are described as well as improvements in technology. These will serve as comparative methods for present day manufacture of these components. A history of the lamp industry is presented. Several methods are given which may serve as a source for further work in the lamp industry. Some of the earliest work has been applied in the laser industry to develop new types of discharge lasers. These include nitrogen-gas lasers and the rare gas (excimer) lasers. Previous work on lamps may also be applied in the development of new types of lasers.

### **The Upswing**

In the crowded field of customer relationship management (CRM) systems, SugarCRM stands out—not only for its modular design, but also for the ease with which you can develop, customize, and extend your CRM applications. This concise book provides a thorough overview of the development tools and APIs available in SugarCRM 6.2, showing both developers and nondevelopers alike how to use them to build a sample application step-by-step. You'll learn how to bend and twist SugarCRM's extensible MVC framework to create custom applications, including solutions for automating your business that go beyond traditional CRMs. Learn how SugarCRM modules interact with one another through data relationships Build your CRM application with SugarCRM's GUI developer tools—without touching code Use built-in design templates with Module Builder to design new CRM modules Customize modules with the Studio tool to add new fields or additional relationships between modules Automate common and tedious tasks within your application, using custom PHP code with SugarCRM's powerful API Integrate external applications into your CRM solution through SugarCRM's web services API

### **OpenSUSE Linux**

You could think of Setting Up LAMP as four books in one, but it's actually something much more valuable: a single volume that presents the open-source technologies known collectively as LAMP—Linux, Apache, MySQL, and PHP—as tightly dovetailed components of today's most affordable and effective platform for building dynamic web-based applications. Each technology has uses outside of this context, of course, but within it they form something greater than the sum of their parts. This book shows you how to take full advantage of this power, walking you through all the steps required to lay your Linux foundation, install and configure your Apache web server, and then begin using PHP to access content stored in MySQL. Here are a few of the specific topics you'll find covered inside: Installing and configuring mail with support for IMAP, POP3, SMTP, virtual domains, spam filtering, and antivirus Managing system users and groups Configuring your network Creating a custom firewall script using IP tables Recognizing when a system is in distress Handling MySQL database replication Configuring virtual domains Writing a basic PHP script that integrates with MySQL If you're new to all of this, you'll quickly get to where you need to be to start developing and deploying the higher-level pieces of your web application. Even if you have experience with one or all of these

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technologies, this book—including its quick-start installation appendix—is a resource you'll want close by whenever you're setting up or fine-tuning your LAMP system.

### **Open Sources**

The corporate market is now embracing free, "open source" software like never before, as evidenced by the recent success of the technologies underlying LAMP (Linux, Apache, MySQL, and PHP). Each is the result of a publicly collaborative process among numerous developers who volunteer their time and energy to create better software. The truth is, however, that the overwhelming majority of free software projects fail. To help you beat the odds, O'Reilly has put together *Producing Open Source Software*, a guide that recommends tried and true steps to help free software developers work together toward a common goal. Not just for developers who are considering starting their own free software project, this book will also help those who want to participate in the process at any level. The book tackles this very complex topic by distilling it down into easily understandable parts. Starting with the basics of project management, it details specific tools used in free software projects, including version control, IRC, bug tracking, and Wikis. Author Karl Fogel, known for his work on CVS and Subversion, offers practical advice on how to set up and use a range of tools in combination with open mailing lists and archives. He also provides several chapters on the essentials of recruiting and motivating developers, as well as how to gain much-needed publicity for your project. While managing a team of enthusiastic developers -- most of whom you've never even met -- can be challenging, it can also be fun. *Producing Open Source Software* takes this into account, too, as it speaks of the sheer pleasure to be had from working with a motivated team of free software developers.

### **Migrating to MariaDB**

Presents an introduction to the open-source electronics prototyping platform.

### **Open Source Software: Implementation and Management**

Learn how to build interactive, data-driven websites—even if you don't have any previous programming experience. If you know how to build static sites with HTML, this popular guide will help you tackle dynamic web programming. You'll get a thorough grounding in today's core open source technologies: PHP, MySQL, JavaScript, and CSS. Explore each technology separately, learn how to combine them, and pick up valuable web programming concepts along the way, including objects, XHTML, cookies, and session management. This book provides review questions in each chapter to help you apply what you've learned. Learn PHP essentials and the basics of object-oriented programming Master MySQL, from database structure to complex queries Create web pages with PHP and MySQL by integrating forms and other HTML features Learn JavaScript fundamentals, from functions and event handling to accessing the Document Object Model Pick up CSS basics for formatting and styling your web pages Turn your website into a highly dynamic environment with Ajax calls Upload and manipulate files and images, validate user input, and secure your applications Explore a working example that

brings all of the ingredients together

## **Moodle Administration**

In the world of e-commerce, there are dozens of tools available to use in custom web design and development. Out of all of these options, Magento is the web's fastest growing e-commerce platform. Its architecture makes it possible to extend the functionalities using plugins, which are shared by the community, extensively. This book is a practical guide packed with examples so developers can understand its fundamental concepts and then start developing and testing Magento code. The book starts by building your knowledge of Magento, providing you with the techniques and tools you require to start your first Magento development. You will then learn to work with data collections and the EAV system, before gradually moving on to extending the frontend and backend. You will learn all about deploying and distributing custom modules. This book will help you navigate your way around your first Magento developments, helping you to avoid all of the most common headaches that new developers face when first getting started.

## **Open Source Software: Implementation and Management**

Open-source electronics are becoming very popular, and are integrated with our daily educational and developmental activities. At present, the use open-source electronics for teaching science, technology, engineering, and mathematics (STEM) has become a global trend. Off-the-shelf embedded electronics such as Arduino- and Raspberry-compatible modules have been widely used for various applications, from do-it-yourself (DIY) to industrial projects. In addition to the growth of open-source software platforms, open-source electronics play an important role in narrowing the gap between prototyping and product development. Indeed, the technological and social impacts of open-source electronics in teaching, research, and innovation have been widely recognized.

## **Producing Open Source Software**

Freely available source code, with contributions from thousands of programmers around the world: this is the spirit of the software revolution known as Open Source. Open Source has grabbed the computer industry's attention. Netscape has opened the source code to Mozilla; IBM supports Apache; major database vendors have ported their products to Linux. As enterprises realize the power of the open-source development model, Open Source is becoming a viable mainstream alternative to commercial software. Now in Open Sources, leaders of Open Source come together for the first time to discuss the new vision of the software industry they have created. The essays in this volume offer insight into how the Open Source movement works, why it succeeds, and where it is going. For programmers who have labored on open-source projects, Open Sources is the new gospel: a powerful vision from the movement's spiritual leaders. For businesses integrating open-source software into their enterprise, Open Sources reveals the mysteries of how open development builds better software, and how businesses can leverage freely available software for a competitive business advantage. The contributors here have been the leaders in the open-source arena: Brian Behlendorf (Apache)

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Kirk McKusick (Berkeley Unix) Tim O'Reilly (Publisher, O'Reilly & Associates) Bruce Perens (Debian Project, Open Source Initiative) Tom Paquin and Jim Hamerly (mozilla.org, Netscape) Eric Raymond (Open Source Initiative) Richard Stallman (GNU, Free Software Foundation, Emacs) Michael Tiemann (Cygnus Solutions) Linus Torvalds (Linux) Paul Vixie (Bind) Larry Wall (Perl) This book explains why the majority of the Internet's servers use open-source technologies for everything from the operating system to Web serving and email. Key technology products developed with open-source software have overtaken and surpassed the commercial efforts of billion dollar companies like Microsoft and IBM to dominate software markets. Learn the inside story of what led Netscape to decide to release its source code using the open-source mode. Learn how Cygnus Solutions builds the world's best compilers by sharing the source code. Learn why venture capitalists are eagerly watching Red Hat Software, a company that gives its key product -- Linux -- away. For the first time in print, this book presents the story of the open-source phenomenon told by the people who created this movement. Open Sources will bring you into the world of free software and show you the revolution.

### **Professional LAMP**

An administrator's guide to configuring, securing, customizing, and extending Moodle About This Book Learn how to plan, install, optimize, customize, and configure Moodle Guarantee a cutting-edge learning experience in a secure and customizable environment while optimizing your day-to-day workload A one-stop guide with a problem-solution approach and a wide range of real-world examples Who This Book Is For If you are a technician, systems administrator, or part of academic staff, this is the book for you. This book is ideal for anyone who has to administer a Moodle system. Whether you are dealing with a small-scale local Moodle system or a large-scale multi-site Virtual Learning Environment, this book will assist you with any administrative task. Some basic Moodle knowledge is helpful, but not essential. What You Will Learn Install and update Moodle on multiple platforms manually and via CLI and GIT Manage courses and categories, users and cohorts, as well as roles Get Moodle hooked up to repositories, portfolios, and open badges Configure Moodle for mobile usage, accessibility, localization, communication, and collaboration Guarantee backups, security and privacy, and achieve maximum performance via the Moodle Universal Cache and the new cron system Configure the Moodle events system to generate comprehensive reports, statistics, and learning analytics Network Moodle with Mahara and extend it with third-party add-ons and via LTI Customize Moodle web services to enable mobile learning and integration with other IT systems In Detail Moodle is the de facto standard for open source learning platforms. However, setting up and managing a learning environment can be a complex task since it covers a wide range of technical, organizational, and pedagogical topics. This ranges from basic user and course management, to configuring plugins and design elements, all the way to system settings, performance optimization, events frameworks, and so on. This book concentrates on basic tasks such as how to set up and configure Moodle and how to perform day-to-day administration activities, and progresses on to more advanced topics that show you how to customize and extend Moodle, manage courses, cohorts, and users, and how to work with roles and capabilities. You'll learn to configure Moodle plugins and ensure your VLE

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conforms to pedagogical and technical requirements in your organization. You'll then learn how to integrate the VLE via web services and network it with other sites, including Mahara, and extend your system via plugins and LTI. By the end of this book, you will be able to set up an efficient, fully fledged, and secure Moodle system. Style and approach The book takes a problem-solution approach to fall in line with your day-to-day operations. This is a one-stop reference for any task you will ever come across when administering a Moodle site of any shape and size.

### **Building and Testing with Gradle**

Perspectives on Data Science for Software Engineering presents the best practices of seasoned data miners in software engineering. The idea for this book was created during the 2014 conference at Dagstuhl, an invitation-only gathering of leading computer scientists who meet to identify and discuss cutting-edge informatics topics. At the 2014 conference, the concept of how to transfer the knowledge of experts from seasoned software engineers and data scientists to newcomers in the field highlighted many discussions. While there are many books covering data mining and software engineering basics, they present only the fundamentals and lack the perspective that comes from real-world experience. This book offers unique insights into the wisdom of the community's leaders gathered to share hard-won lessons from the trenches. Ideas are presented in digestible chapters designed to be applicable across many domains. Topics included cover data collection, data sharing, data mining, and how to utilize these techniques in successful software projects. Newcomers to software engineering data science will learn the tips and tricks of the trade, while more experienced data scientists will benefit from war stories that show what traps to avoid. Presents the wisdom of community experts, derived from a summit on software analytics Provides contributed chapters that share discrete ideas and technique from the trenches Covers top areas of concern, including mining security and social data, data visualization, and cloud-based data Presented in clear chapters designed to be applicable across many domains

### **Perspectives on Data Science for Software Engineering**

### **Getting Started with Arduino**

Essay Collection covering the point where software, law and social justice meet.

### **Advanced Linux Networking**

An administrator's guide to configuring, securing, customizing, and extending Moodle.

### **Linux Administration Handbook**

Create and manage your own social network site using this free open-source tool.

### **Learning PHP, MySQL, JavaScript, and CSS**

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This book, from noted materials selection authority Mike Ashby, provides a structure and framework for analyzing sustainable development and the role of materials in it. The aim is to introduce ways of exploring sustainable development to readers in a way that avoids simplistic interpretations and approaches complexity in a systematic way. There is no completely "right" answer to questions of sustainable development - instead, there is a thoughtful, well-researched response that recognizes concerns of stakeholders, the conflicting priorities and the economic, legal and social aspects of a technology as well as its environmental legacy. The intent is not to offer solutions to sustainability challenges but rather to improve the quality of discussion and enable informed, balanced debate. Winner of a 2016 Most Promising New Textbook Award from the Textbook and Academic Authors Association Describes sustainable development in increasingly detailed progression, from a broad overview to specific tools and methods Six chapter length case studies on such topics as biopolymers, electric cars, bamboo, and lighting vividly illustrate the sustainable development process from a materials perspective Business and economic aspects are covered in chapters on corporate sustainability and the "circular materials economy" Support for course use includes online solutions manual and image bank

### **Photomedicine**

This book is aimed at the practicing programmer seeking to use Python and Linux to rapidly develop web and enterprise services. Will be especially important to those involved in e-commerce programming.

### **Web Programming**

This book is written for developers who have previous experience with PHP and PHP frameworks, such as Zend or CakePHP, and want to start developing and working with Magento. Even developers with previous experience with Magento will find the book extremely useful to gain a full understanding of Magento fundamentals, architecture, and overall philosophy.

### **Free and Open Source Software and Technology for Sustainable Development**

Offers instructions for creating a TCP/IP-based, Linux-driven local area network, covering installation, configuration, system and network management, servers, file systems, and network security.

### **Elgg Social Networking**

Presents an overview of LAMP and Open Source technologies to build Web applications.

### **Magento PHP Developer's Guide**

Giardiasis is still a significant infectious and parasitic disease, caused by the protozoan *Giardia intestinalis*. There are estimates of more than 200 million cases

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of giardiasis occurred in the world annually. The advance in research in giardiasis during the last century and particularly during the last decade is considerable. Nevertheless, many challenges still are ahead in order to reach a higher control of this disease. This book tried to update the significant epidemiological and clinical research in many aspects with a multinational perspective. This book with 9 chapters has been organized in 3 major sections: 1. "Overview, Epidemiology and Clinical Aspects," 2. "Biological and Diagnostic Aspects," and 3. "Treatment, Prevention and Public Health."

### **Magento PHP Developer's Guide**

Explains how to access and create MySQL databases through PHP scripting, including authentication, network connectivity, session management, and content customization.

### **High Availability for the LAMP Stack**

Describes how to use the open source project automation tool to build and test software written in Java and other programming languages.

### **Beginning Perl**

Photomedicine is one of the most inspiring and interdisciplinary fields in medicine that involves the research and application of photobiology with respect to health and disease. Photomedicine has contributed to the clinical practice of a variety of medical fields, including dermatology, surgery, radiology, diagnostics, cardiology, and anticancer therapy. Furthermore, expansion of its scope and contribution can be expected. This book covers a wide range of aspects and issues related to photomedicine, which brings together researchers from many countries. These include the basic science of photodynamic therapy, clinical applications in various kinds of medical fields, photochemotherapy, laser therapy for musculoskeletal pain, intense pulsed light therapy for photorejuvenation, biological function of low-level laser therapy, and photobiology for skin rejuvenation. Not only will this be beneficial for readers, but it will also contribute to scientists making further breakthroughs in photomedicine.

### **Setting up LAMP**

The free/open source approach has grown from a minor activity to become a significant producer of robust, task-orientated software for a wide variety of situations and applications. To life science informatics groups, these systems present an appealing proposition - high quality software at a very attractive price. Open source software in life science research considers how industry and applied research groups have embraced these resources, discussing practical implementations that address real-world business problems. The book is divided into four parts. Part one looks at laboratory data management and chemical informatics, covering software such as Bioclipse, OpenTox, ImageJ and KNIME. In part two, the focus turns to genomics and bioinformatics tools, with chapters examining GenomicsTools and EBI Atlas software, as well as the practicalities of

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setting up an 'omics' platform and managing large volumes of data. Chapters in part three examine information and knowledge management, covering a range of topics including software for web-based collaboration, open source search and visualisation technologies for scientific business applications, and specific software such as DesignTracker and Utopia Documents. Part four looks at semantic technologies such as Semantic MediaWiki, TripleMap and Chem2Bio2RDF, before part five examines clinical analytics, and validation and regulatory compliance of free/open source software. Finally, the book concludes by looking at future perspectives and the economics and free/open source software in industry. Discusses a broad range of applications from a variety of sectors Provides a unique perspective on work normally performed behind closed doors Highlights the criteria used to compare and assess different approaches to solving problems

### **Free Software, Free Society**

You could think of Setting Up LAMP as four books in one, but it's actually something much more valuable: a single volume that presents the open-source technologies known collectively as LAMP—Linux, Apache, MySQL, and PHP—as tightly dovetailed components of today's most affordable and effective platform for building dynamic web-based applications. Each technology has uses outside of this context, of course, but within it they form something greater than the sum of their parts. This book shows you how to take full advantage of this power, walking you through all the steps required to lay your Linux foundation, install and configure your Apache web server, and then begin using PHP to access content stored in MySQL. Here are a few of the specific topics you'll find covered inside: Installing and configuring qmail with support for IMAP, POP3, SMTP, virtual domains, spam filtering, and antivirus Managing system users and groups Configuring your network Creating a custom firewall script using IP tables Recognizing when a system is in distress Handling MySQL database replication Configuring virtual domains Writing a basic PHP script that integrates with MySQL If you're new to all of this, you'll quickly get to where you need to be to start developing and deploying the higher-level pieces of your web application. Even if you have experience with one or all of these technologies, this book—including its quick-start installation appendix—is a resource you'll want close by whenever you're setting up or fine-tuning your LAMP system.

### **How to Build a Lamp Server**

\* Functions as the most up-to-date beginner's Perl book, current through Perl version 5.8.2. \* Covers what a new Perl programmer needs to know, using real-world examples. \* Surpasses the first edition; more concise and focused.

### **Open Source Software in Life Science Research**

Mitigate the risks involved in migrating away from a proprietary database platform toward MariaDB's open source database engine. This book will help you assess the risks and the work involved, and ensure a successful migration. Migrating to MariaDB describes the process and lessons learned during a migration from a proprietary database management engine to the MariaDB open source solution.

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The book discusses the drivers for making the decision and change, walking you through all aspects of the process from evaluating the licensing, navigating the pitfalls and hurdles of a migration, through to final implementation on the new platform. The book highlights the cost-effectiveness of MariaDB and how the licensing worries are simplified in comparison to running on a proprietary platform. You'll learn to do your own risk assessment, to identify database and application code that may need to be modified or re-implemented, and to identify MariaDB features to provide the security and failover protection needed by corporate customers. Let the author's experience in migrating a financial firm to MariaDB inform your own efforts, helping you to develop a road map for both technical and political success within your own organization as you migrate away from proprietary lock-in toward MariaDB's open source solution. What You'll Learn Evaluate and compare licensing costs between proprietary databases and MariaDB Perform a proper risk assessment to inform your planning and execution of the migration Build a migration road map from the book's example that is specific to your situation Make needed application changes and migrate data to the MariaDB open source database engine Who This Book Is For Technical professionals (including database administrators, programmers, and technical management) who are interested in migrating away from a proprietary database platform toward MariaDB's open source database engine and need to assess the risks and the work involved

### **Open-Source Electronics Platforms**

This book deals with the tasks of installing, configuring and using a LAMP (Linux, Apache, MySQL, PHP) stack for the purposes of serving a custom web application. This book consists of two volumes. Volume One details the installation of the Red Hat 6 Operating System and configuration choices involved there, the Apache, MySQL and PHP installation and configuration plus the installation of the phpMyAdmin application to help manage the MySQL database. At every stage, the author's real-world experience guides you with Reliability, Availability and Serviceability advice to help you choose the most manageable and secure configuration for your needs. Volume Two walks through the design and writing of a LAMP-driven "wishlist" application for the web using the MySQL database for storage. MySQL and PHP development are covered in this practical application; all source code is available for download.

### **PHP and MySQL Web Development**

This is a book for those of us who believed that we didn't need to learn Perl, and now we know it is more ubiquitous than ever. Perl is extremely flexible and powerful, and it isn't afraid of Web 2.0 or the cloud. Originally touted as the duct tape of the Internet, Perl has since evolved into a multipurpose, multiplatform language present absolutely everywhere: heavy-duty web applications, the cloud, systems administration, natural language processing, and financial engineering. Beginning Perl, Third Edition provides valuable insight into Perl's role regarding all of these tasks and more. Commencing with a comprehensive overview of language basics, you'll learn all about important concepts such as Perl's data types and control flow constructs. This material sets the stage for a discussion of more complex topics, such as writing custom functions, using regular expressions, and

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file input and output. Next, the book moves on to the advanced topics of object-oriented programming, modules, web programming, and database administration with Perl's powerful database interface module, DBI. The examples and code provided offer you all of the information you need to start writing your own powerful scripts to solve the problems listed above, and many more. Whether you are a complete novice or an experienced programmer, Beginning Perl, Third Edition offers an ideal guide to learning Perl.

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