
Mastering Mariadb

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Mastering Mariadb

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TALIYAH LISA

Mastering Modern Linux "O'Reilly Media, Inc."

Master the capabilities of PostgreSQL 9.6 to efficiently manage and maintain your database About This Book Your one-stop guide to mastering the advanced concepts in PostgreSQL with ease Master query optimization, replication, and high availability with PostgreSQL Extend the functionalities of PostgreSQL to suit your organizational needs with minimum effort Who This Book Is For If you are a PostgreSQL data architect or an administrator who wants to understand how to implement advanced functionalities and master complex administrative tasks with PostgreSQL, then this book is perfect for you. Prior experience of administrating a PostgreSQL database and a working knowledge of SQL is required to make the best use of this book. What You Will Learn Get to grips with the advanced features of PostgreSQL 9.6 and handle advanced SQL Make use of the indexing features in PostgreSQL and fine-tune the performance of your queries Work with the stored procedures and manage backup and recovery Master the replication and failover techniques Troubleshoot your PostgreSQL instance for solutions to the common and not-so-common problems Learn how to migrate your database from MySQL and Oracle to PostgreSQL without any hassle In Detail PostgreSQL is an open source database used for handling large datasets (Big Data) and as a JSON document database. It also has applications in the software and web domains. This book will enable you to build better PostgreSQL applications and administer databases more efficiently. We begin by explaining the advanced database design concepts in PostgreSQL 9.6, along with indexing and query optimization. You will also see how to work with event triggers and perform concurrent transactions and table partitioning, along with exploring SQL and server tuning. We will walk you through implementing advanced administrative tasks such as server maintenance and monitoring, replication, recovery and high availability, and much more. You will understand the common and not-so-common troubleshooting problems and how you can overcome them. By the end of this book, you will have an expert-level command of the advanced database functionalities and will be able to implement advanced administrative tasks with PostgreSQL. Style and Approach This book is a comprehensive guide covering all the concepts you need to master PostgreSQL. Packed with hands-on examples, tips and tricks, even the most advanced concepts are explained in a very easy-to-follow manner. Every chapter in the book does not only focus on how each task is performed, but also why.

Syntactic Geolectal Variation CRC Press

This book is aimed at system administrators/architects or DBAs who want to learn more about how to grow their current infrastructure to support larger traffic. Before beginning with this book, we expect you to be well-practiced with MySQL/MariaDB for common usage. You will be able to get a grasp quickly if you are comfortable with learning and building large infrastructures for MariaDB using Linux.

Learning MySQL Packt Publishing Ltd

Employ analytics in relational databases to advance your career KEY FEATURES ● Use of multiple MariaDB datasets to gain hands-on experience with data analysis principles. ● Extensive examples take the reader through all levels of SQL skill, from novice to expert. ● Includes methods and techniques for doing complex database queries in MariaDB. DESCRIPTION This book will take you on an engaging experience to understand SQL querying from the most basic to the most expert level, using various SQL techniques to extract valuable insights from your MariaDB databases. The adventure will begin with the most basic level and end with the most professional level. This book's first section provides an introduction to the fundamental concepts of both SQL and MariaDB. It then guides users through building queries using simple and then more complex table joins and progressively more powerful data filtering to generate advanced queries utilizing various SQL techniques. The reader will understand MariaDB database analysis better by learning the basics of SQL computation, relational logic, and data grouping and aggregation. Also covered are SQL basics like formatting queries, making subqueries, making derived tables, joining and filtering tables, etc. In addition, the book explains how to conduct rolling analysis, investigate time-series data, and manage enormous and complex MariaDB datasets. When readers have finished the book, they can devise their techniques for analyzing relational MariaDB datasets and acquiring the necessary insights. WHAT YOU WILL LEARN ● Examine SQL principles such as table joins, data filtering, query design, and table derivation. ● Make it simpler to manipulate data that is dispersed across multiple tables. ● Use basic math and logic, multiple filters, and data aggregation to look at the data. ● Learn to use table expressions, subqueries, and complex calculations well. ● Utilize sophisticated techniques for rolling analysis and time series analysis. WHO THIS BOOK IS FOR This book is for MariaDB users and data professionals, including database developers, SQL developers, data analysts, and BI specialists, who wish to design complicated queries and extract the needed insights from their datasets. TABLE OF CONTENTS 1. Writing Basic SQL Queries 2. Using Multiple Tables When Querying Data 3. Using Advanced Table Joins 4. Filtering Data 5. Applying Complex Filters to Queries 6. Making Simple Calculations 7. Aggregating Output 8. Working with Dates in MariaDB 9. Formatting Text in Query Output 10. Formatting Numbers and Dates 11. Using Basic Logic to Enhance Analysis 12. Subqueries 13. Derived Tables 14. Common Table Expressions 15. Correlated Subqueries 16. Dataset Manipulation 17. Using SQL for More Advanced Calculations 18. Segmenting and Classifying Data 19. Rolling Analysis 20. Analyzing Data Over Time 21. Complex Data Output

Mastering Kubernetes Packt Publishing Ltd

This book is for anyone who wants to learn more about databases in general and wants to get started with MariaDB. Prior database experience is not required.

Mastering Moodle: A Comprehensive Guide to Learning Management Packt Publishing Ltd

Master PostgreSQL 12 features such as advanced indexing, high availability, monitoring, and much more to efficiently manage and maintain your database Key FeaturesGrasp advanced PostgreSQL 12 concepts with real-world examples and sample datasetsExplore query parallelism, data replication,

database administration, and more. Extend PostgreSQL functionalities to suit your organization's needs with minimal effort. Thanks to its reliability, robustness, and high performance, PostgreSQL has become the most advanced open source database on the market. This third edition of Mastering PostgreSQL helps you build dynamic database solutions for enterprise applications using the latest release of PostgreSQL, which enables database analysts to design both physical and technical aspects of system architecture with ease. Starting with an introduction to the newly released features in PostgreSQL 12, this book will help you build efficient and fault-tolerant PostgreSQL applications. You'll thoroughly examine the advanced features of PostgreSQL, including logical replication, database clusters, performance tuning, monitoring, and user management. You'll also work with the PostgreSQL optimizer, configure PostgreSQL for high speed, and understand how to move from Oracle to PostgreSQL. As you progress through the chapters, you'll cover transactions, locking, indexes, and how to optimize queries for improved performance. Additionally, you'll learn how to manage network security and explore backups and replications while understanding useful PostgreSQL extensions to help you in optimizing the performance of large databases. By the end of this PostgreSQL book, you'll be able to get the most out of your database by implementing advanced administrative tasks effortlessly. What you will learn: Understand the advanced SQL functions in PostgreSQL 12. Use indexing features in PostgreSQL to fine-tune the performance of queries. Work with stored procedures and manage backup and recovery. Master replication and failover techniques to reduce data loss. Replicate PostgreSQL database systems to create backups and to scale your database. Manage and improve the security of your server to protect your data. Troubleshoot your PostgreSQL instance for solutions to common and not-so-common problems. Who this book is for: This book is for PostgreSQL developers and administrators and database professionals who want to implement advanced functionalities and master complex administrative tasks with PostgreSQL 12. Prior exposure to PostgreSQL as well as familiarity with the basics of database administration is expected.

Building a Web Application with PHP and MariaDB: A Reference Guide Packt Publishing Ltd

Go beyond simply learning Kubernetes fundamentals and its deployment, and explore more advanced concepts, including serverless computing and service meshes with the latest updates. Key Features: Master Kubernetes architecture and design to build and deploy secure distributed applications. Learn advanced concepts like autoscaling, cluster federation, serverless computing, and service mesh integration for observability. Explore Kubernetes 1.18 features and its rich ecosystem of tools like Kubectl, Knative, and Helm. Book Description: The third edition of Mastering Kubernetes is updated with the latest tools and code enabling you to learn Kubernetes 1.18's latest features. This book primarily concentrates on diving deeply into complex concepts and Kubernetes best practices to help you master the skills of designing and deploying large clusters on various cloud platforms. The book trains you to run complex stateful microservices on Kubernetes including advanced features such as horizontal pod autoscaling, rolling updates, resource quotas, and persistent storage backend. With the two new chapters, you will gain expertise in serverless computing and utilizing service meshes. As you proceed through the chapters, you will explore different options for network configuration and learn to set up, operate, and troubleshoot Kubernetes networking plugins through real-world use cases. Furthermore, you will understand the mechanisms of custom resource

development and its utilization in automation and maintenance workflows. By the end of this Kubernetes book, you will graduate from an intermediate to advanced Kubernetes professional. What you will learn: Master the fundamentals of Kubernetes architecture and design. Build and run stateful applications and complex microservices on Kubernetes. Use tools like Kubectl, secrets, and Helm to manage resources and storage. Master Kubernetes Networking with load balancing options like Ingress. Achieve high-availability Kubernetes clusters. Improve Kubernetes observability with tools like Prometheus, Grafana, and Jaeger. Extend Kubernetes working with Kubernetes API, plugins, and webhooks. Who this book is for: If you are a system administrator or a cloud developer with working knowledge of Kubernetes and are keen to master its advanced features, along with learning everything from building microservices to utilizing service meshes, Mastering Kubernetes is for you. Basic familiarity with networking concepts will be helpful.

Mastering PostgreSQL 12 BPB Publications

The original, best-selling Django programmer's reference completely rewritten for Django 2 and 3.

Query Answers with MariaDB Packt Publishing Ltd

Toolkit for unlocking the power of Amazon RDS and propelling businesses toward success in the digital age. KEY FEATURES ● Explore Amazon RDS by covering basics to advanced MySQL management on the platform. ● Real-world examples and hands-on tutorials to apply gained knowledge to solve challenges. ● Latest features, tools, and best practices in Amazon RDS for MySQL by covering recent developments. DESCRIPTION This book is a valuable resource as a practical guide for professionals involved in managing Amazon Relational Database Service (RDS) instances. The book covers the fundamentals of Amazon RDS, configuration best practices, and optimizing performance. With MySQL databases, it explores essential components, AWS Regions, and Availability Zones. Readers will benefit from the detailed discussions on managing and maintaining Amazon RDS MySQL instances, covering topics like stopping and starting DB instances, optimizing settings, handling maintenance updates, and understanding the nuances of reboots. The book emphasizes security considerations and provides a comprehensive guide to storage management, encryption options, backup strategies, and cost optimization. The later chapters delve into advanced topics such as creating and connecting to MySQL databases on Amazon RDS, managing Multi-AZ MySQL DB clusters, and upgrading AWS RDS MySQL. The book also covers comprehensive monitoring techniques, tools, and insights, offering a thorough exploration of CloudWatch metrics, alarms, and event notifications. Throughout the book, best practices, common issues, and troubleshooting tips are provided, making it an indispensable companion for database administrators navigating the complexities of Amazon RDS for MySQL. WHAT YOU WILL LEARN ● The fundamentals of Amazon RDS and how it simplifies the management of MySQL databases. ● How to set up, configure, and deploy MySQL instances on Amazon RDS. ● Best practices for designing highly available and scalable database architectures. ● Performance optimization techniques to ensure your MySQL databases run efficiently on Amazon RDS. ● Advanced topics such as replication, security, monitoring, and troubleshooting. WHO THIS BOOK IS FOR Whether you are a database administrator, a software developer, a system architect, or a technology enthusiast, this book provides valuable insights and practical guidance for effectively utilizing Amazon RDS. TABLE OF CONTENTS 1. Amazon Relational Database Service 2. Configuring a DB Instance for Amazon RDS

MySQL 3. Managing and Maintaining an Amazon RDS MySQL Instance 4. Creating and Connecting to MySQL Database on Amazon RDS 5. Managing Amazon RDS Multi-AZ MySQL DB Clusters 6. Amazon RDS MySQL Backups: Best Practices for Data Integrity and Business Continuity 7. Upgrading AWS RDS MySQL 8. Comprehensive Amazon RDS MySQL Monitoring: Metrics, Tools, and Insights 9. Comprehensive Monitoring Tools for Amazon RDS and AWS Solutions 10. Understanding Amazon RDS Read Replicas: Scaling and High Availability

MariaDB High Performance Packt Publishing Ltd

Do you need to learn to query in MariaDB? This book helps you develop your analytical abilities as you discover how to write powerful SQL queries using one of the world's most widely used databases.

Mastering Front-End Web Development (HTML, Bootstrap, CSS, SEO, Cordova, SVG, ECMAScript, JavaScript, WebGL, Web Design and many more.) Apress

Build interactive, database-driven websites with PHP 7, MySQL 8, and MariaDB. The focus of this book is on getting you up and running as quickly as possible with real-world applications. In the first two chapters you will set up your development and testing environment, and then build your first PHP and MariaDB or MySQL database-driven website. You will then increase its sophistication, security, and functionality throughout the course of the book. The PHP required is taught in context within each project so you can quickly learn how PHP integrates with MariaDB/MySQL to create powerful database-driven websites. Each project is fully illustrated, so you will see clearly what you are building as you create your own database-driven website. You will build a form for registering users, and then build an interface so that an administrator can view and administer the user database. You will create a message board for users and a method for emailing them. You will also learn the best practices for ensuring that your website databases are secure. Later chapters describe how to create a product catalog, and a simple e-commerce site. You will also discover how to migrate a database to a remote host. The final chapter will demonstrate the advantages of migrating to Oracle's MySQL 8. You will be shown step by step migration directions along with a demonstration of the tools available in SQL Workbench. Because you are building the interactive pages yourself, you will know exactly how MySQL, MariaDB, and PHP all work together, and you will be able to add database interactivity to your own websites with ease. You will: Build a secure database-driven website using PHP 7, MySQL 8, and MariaDB Create a product catalog Write a message board Move towards e-commerce Employ security and validation measures Migrate to Oracle's MySQL 8 Server platform.

Mastering The Faster Web with PHP, MySQL, and JavaScript Apress

Walk away from old-fashioned and cumbersome query approaches and answer your business intelligence questions through simple and powerful queries built on common table expressions (CTEs) and window functions. These new features in MariaDB and MySQL help you to write queries without having to wade through a quagmire of brittle self-joins and other crazy techniques from the past. Your queries will generate correct results, be more readable and less brittle in the face of unexpected data, and you'll be able to adapt them quickly in the face of changing business requirements. MariaDB and MySQL Common Table Expressions and Window Functions Revealed introduces and explains CTEs and window functions, newly available in MariaDB 10.2 and MySQL

8.0, and helps you understand why and how every MariaDB and MySQL database programmer should learn and apply these features in their daily work. CTEs and especially window functions enable easy solutions to many query challenges that in prior releases have been difficult and sometimes impossible to surmount. Mastering these features opens the door to query solutions that are more robust, execute faster, and are easier to maintain over time than prior solutions using older techniques. The book: Takes you step-by-step through the workings of common table expressions and window functions Provides easy-to-follow examples of the new syntax Helps you answer business questions faster and easier than ever What You'll Learn Answer business questions using simple queries that don't break in the face of unexpected data Avoid writing queries that are a difficult-to-maintain quagmire of self-joins and nested subqueries Recognize situations that call for window functions, and learn when to use these features Reduce the need for performance-robbing self-joins Simplify and speed the execution of analytical queries Create queries that finish in seconds instead of hours Who This Book Is For Database administrators and application developers who want to quickly get up to speed on important features in MariaDB and MySQL for writing business intelligence queries. Any developer writing SQL against MariaDB and MySQL databases will benefit tremendously from the knowledge and techniques this book provides.

Getting Started with Mariadb - Second Edition John Benjamins Publishing Company

The Faster Web is quickly changing the way we think about Web development. The Web has changed considerably in recent years and is now built upon many new technologies: the HTTP/2 protocol, asynchronous programming, PHP tools like Blackfire.io and server monitoring tools like the TICK stack. This book will help you take a deep dive into these ...

Getting Started with MariaDB John Wiley & Sons

This volume brings together studies that combine both traditional and contemporary tools in the study of syntactic geolectal variation, with a special focus on a subset of Iberian varieties. There is an increasing body of research on syntactic micro-variation, but the interaction between dialectology (which makes use of atlases, corpora, databases, questionnaires, interviews, etc.) and formal syntactic studies has traditionally been weak (or even nonexistent), which is precisely the gap the contributions in this book aim at filling in. From a broader perspective, this collection is meant as a contribution to the subfield of linguistic variation and to the more general field of Romance linguistics, with special interest in Spanish and in other Iberian languages. The volume is meant for both researchers and students interested in linguistic variation or dialectology and, specifically, in syntactic variation in Iberian languages.

Mastering Play Framework for Scala Packt Publishing Ltd

Praise for the First Edition: "This outstanding book ... gives the reader robust concepts and implementable knowledge of this environment. Graphical user interface (GUI)-based users and developers do not get short shrift, despite the command-line interface's (CLI) full-power treatment. ... Every programmer should read the introduction's Unix/Linux philosophy section. ... This authoritative and exceptionally well-constructed book has my highest recommendation. It will repay careful and recursive study." --Computing Reviews, August 2011 Mastering Modern Linux, Second Edition retains much of the good material from the previous edition, with extensive updates and new topics added. The book provides a comprehensive and up-to-date guide to Linux concepts, usage,

and programming. The text helps the reader master Linux with a well-selected set of topics, and encourages hands-on practice. The first part of the textbook covers interactive use of Linux via the Graphical User Interface (GUI) and the Command-Line Interface (CLI), including comprehensive treatment of the Gnome desktop and the Bash Shell. Using different apps, commands and filters, building pipelines, and matching patterns with regular expressions are major focuses. Next comes Bash scripting, file system structure, organization, and usage. The following chapters present networking, the Internet and the Web, data encryption, basic system admin, as well as Web hosting. The Linux Apache MySQL/MariaDB PHP (LAMP) Web hosting combination is also presented in depth. In the last part of the book, attention is turned to C-level programming. Topics covered include the C compiler, preprocessor, debugger, I/O, file manipulation, process control, inter-process communication, and networking. The book includes many examples and complete programs ready to download and run. A summary and exercises of varying degrees of difficulty can be found at the end of each chapter. A companion website (<http://mml.sofpower.com>) provides appendices, information updates, an example code package, and other resources for instructors, as well as students.

[Learning MySQL](#) Packt Publishing Ltd

Build interactive, database-driven websites with PHP 7, MySQL 8, and MariaDB. The focus of this book is on getting you up and running as quickly as possible with real-world applications. In the first two chapters, you will set up your development and testing environment, and then build your first PHP and MariaDB or MySQL database-driven website. You will then increase its sophistication, security, and functionality throughout the course of the book. The PHP required is taught in context within each project so you can quickly learn how PHP integrates with MariaDB and MySQL to create powerful database-driven websites. Each project is fully illustrated, so you will see clearly what you are building as you create your own database-driven website. You will build a form for registering users, and then build an interface so that an administrator can view and administer the user database. You will create a message board for users and a method for emailing them. You will also learn the best practices for ensuring that your website databases are secure. Later chapters describe how to create a product catalog, and a simple e-commerce site. You will also discover how to migrate a database to a remote host. The final chapter will demonstrate the advantages of migrating to Oracle's MySQL 8. You will be shown step by step migration directions along with a demonstration of the tools available in SQL Workbench. Because you are building the interactive pages yourself, you will know exactly how MySQL, MariaDB, and PHP all work together, and you will be able to add database interactivity to your own websites with ease. What You Will Learn Build a secure database-driven website using PHP 7, MySQL 8, and MariaDB Create a product catalog Write a message board Move towards e-commerce Employ security and validation measures Migrate to Oracle's MySQL 8 Server platform Who This Book Is For Web developers with HTML, CSS and a limited Bootstrap experience. Readers need little to no prior experience with PHP and MySQL.

[MariaDB Essentials](#) Otolaryngology online

Take your knowledge of Redis to the next level to build enthralling applications with ease About This Book Detailed explanation on Data structure server with powerful strings, lists, sets, sorted-sets, and hashes Learn to Scale your data with Redis Cluster's distributed setup This is a fast paced practical

guide full of screenshots and real work examples to help you get to grips with Redis in no time. Who This Book Is For If you are a software developer with some experience with Redis and would now like to elevate your Redis knowledge and skills even further, then this book is for you. What You Will Learn Choose the right Redis data structure for your problem Understand Redis event-loop and implement your own custom C commands Solve complex workflows with Redis server-side scripting with Lua Configure your Redis instance for optimal memory management Scale your data in a distributed manner with Redis Cluster Improve the stability of your Redis solution using Redis Sentinel Complement your existing database and NoSQL environment with Redis Exploit a wide range of features provided by Redis to become a DevOps expert. In Detail Redis is the most popular, open-source, key value data structure server that provides a wide range of capabilities on which multiple platforms can be built. Its fast and flexible data structures give your existing applications an edge in the development environment. This book is a practical guide which aims to help you deep dive into the world of Redis data structure to exploit its excellent features. We start our journey by understanding the need of Redis in brief, followed by an explanation of Advanced key management. Next, you will learn about design patterns, best practices for using Redis in DevOps environment and Docker containerization paradigm in detail. After this, you will understand the concept of scaling with Redis cluster and Redis Sentinel, followed by a through explanation of incorporating Redis with NoSQL technologies such as Elasticsearch and MongoDB. At the end of this section, you will be able to develop competent applications using these technologies. You will then explore the message queuing and task management features of Redis and will be able to implement them in your applications. Finally, you will learn how Redis can be used to build real-time data analytic dashboards, for different disparate data streams. Style and approach This is a hands on guide full of easy-to-follow examples, that illustrate important concepts and techniques to solve complex problems with Redis.

[Mastering Amazon Relational Database Service for MySQL](#) "O'Reilly Media, Inc."

Master the capabilities of PostgreSQL 10 to efficiently manage and maintain your database Key Features Your one-stop guide to mastering advanced concepts in PostgreSQL 10 with ease Master query optimization, replication, and high availability with PostgreSQL Extend the functionalities of your PostgreSQL instance to suit your organizational needs with minimal effort Book Description PostgreSQL is an open source database used for handling large datasets (big data) and as a JSON document database. This book highlights the newly introduced features in PostgreSQL 10, and shows you how you can build better PostgreSQL applications, and administer your PostgreSQL database more efficiently. We begin by explaining advanced database design concepts in PostgreSQL 10, along with indexing and query optimization. You will also see how to work with event triggers and perform concurrent transactions and table partitioning, along with exploring SQL and server tuning. We will walk you through implementing advanced administrative tasks such as server maintenance and monitoring, replication, recovery, high availability, and much more. You will understand common and not-so-common troubleshooting problems and how you can overcome them. By the end of this book, you will have an expert-level command of advanced database functionalities and will be able to implement advanced administrative tasks with PostgreSQL 10. What you will learn Get to grips with the advanced features of PostgreSQL 10 and handle advanced

SQL Make use of the indexing features in PostgreSQL and fine-tune the performance of your queries Work with stored procedures and manage backup and recovery Master replication and failover techniques Troubleshoot your PostgreSQL instance for solutions to common and not-so-common problems Learn how to migrate your database from MySQL and Oracle to PostgreSQL without any hassle Who this book is for If you are a PostgreSQL data architect or an administrator and want to understand how to implement advanced functionalities and master complex administrative tasks with PostgreSQL 10, then this book is perfect for you. Prior experience of administrating a PostgreSQL database and a working knowledge of SQL are required to make the best use of this book.

Practical PHP 7, MySQL 8, and MariaDB Website Databases CreateSpace

Quickly get up to speed with MariaDB—the leading, drop-in replacement for MySQL, through this practical tutorial About This Book Get to know the basic SQL queries so you can quickly start using MariaDB Take control of your data through the advanced features of MariaDB Exploit the full potential of MariaDB's exclusive features through quick, practical examples Who This Book Is For If you don't know the SQL language, but you want to quickly jump into the SQL world and learn how to use MariaDB, or if you already know how to use MySQL but you want to go further, then this book is ideal for you. What You Will Learn Install and configure MariaDB Create databases, tables, and indexes Import and export data from and to external files Work with views and virtual columns Create, read, update, and delete records in your database Use dynamic columns Set up a powerful full-text search system Access your external data from MariaDB through the CONNECT engine In Detail This book will take you through all the nitty-gritty parts of MariaDB, right from the creation of your database all the way to using MariaDB's advanced features. At the very beginning, we show you the basics, that is, how to install MariaDB. Then, we walk you through the databases and tables of MariaDB, and introduce SQL in MariaDB. You will learn about all the features that have been added in MariaDB but are absent in MySQL. Moving on, you'll learn to import and export data, views, virtual columns, and dynamic columns in MariaDB. Then, you'll get to grips with full-text searches and queries in MariaDb. You'll also be familiarized with the CONNECT storage engine. At the end of

the book, you'll be introduced to the community of MariaDB. Style and approach This is a complete guide that uses concrete examples to help you understand and exploit the full potential of MariaDB. *Mastering Ubuntu Server* Packt Publishing Ltd

Key Features Explore the power of Python libraries to tackle difficult network problems efficiently and effectively Use Python for network device automation, DevOps, and software-defined networking Become an expert in implementing advanced network-related tasks with Python Book Description Networks in your infrastructure set the foundation for how your application can be deployed, maintained, and serviced. Python is the ideal language for network engineers to explore tools that were previously available to systems engineers and application developers. In this second edition of *Mastering Python Networking*, you'll embark on a Python-based journey to transition from traditional network engineers to network developers ready for the next-generation of networks. This book begins by reviewing the basics of Python and teaches you how Python can interact with both legacy and API-enabled network devices. As you make your way through the chapters, you will then learn to leverage high-level Python packages and frameworks to perform network engineering tasks for automation, monitoring, management, and enhanced security. In the concluding chapters, you will use Jenkins for continuous network integration as well as testing tools to verify your network. By the end of this book, you will be able to perform all networking tasks with ease using Python. What you will learn Use Python libraries to interact with your network Integrate Ansible 2.5 using Python to control Cisco, Juniper, and Arista eAPI network devices Leverage existing frameworks to construct high-level APIs Learn how to build virtual networks in the AWS Cloud Understand how Jenkins can be used to automatically deploy changes in your network Use PyTest and Unittest for Test-Driven Network Development Who this book is for *Mastering Python Networking* is for network engineers and programmers who want to use Python for networking. Basic familiarity with Python programming and networking-related concepts such as Transmission Control Protocol/Internet Protocol (TCP/IP) will be useful.

Getting Started with MariaDB BPB Publications

This book is intended for those developers who are keen to master the internal workings of Play Framework to effectively build and deploy web-related apps.

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